



PRODUCT SELECTION GUIDE



LIGHT IS EVERYTHING. EVERYTHING OUT OF ONE HAND.

For more than 80 years, RZB Lighting has stood for highly assembly-friendly, efficient product series and intelligent lighting solutions „Made in Germany“. As an internationally operating family business, we offer you continuity, sustainability and long-term stable partnerships. We have already been awarded the TOP 100 and BAYERN'S BEST 50 prize several times for our innovation successes and have received more than 75 renowned design awards for our design work.

For the realisation and production of our product ideas, we have a state-of-the-art, constantly expanding machine park, our own certified test laboratories, around 3,000 square metres of showroom and our own event centre at the Bamberg headquarter.

But we cannot do without the human factor, because people make the future. Behind every good idea is a clever mind. Usually even many. We rely on our motivated, interdisciplinary teams: on the experience of long-standing employees as well as on the ideas and visions of our young and new colleagues.

Due to our high vertical integration, the term Industry 4.0 is not just a buzzword for us, but a living reality: people, machines, plants, logistics and products communicate and cooperate with each other at our company.

Today, well over 700 dedicated employees contribute to ensuring your customer satisfaction and our high quality standards. Together with you, we would like to continue to grow!

BAYERN'S
BEST 50
PREISTRÄGER 2020



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Our Product Selection Guide A11 gives an overview of the RZB luminaire portfolio and is an useful tool to help you find the product you are looking for.

As our luminaires are technical devices, they may only be used for their intended purpose and in accordance with our specifications.

Any use of our products in a manner not authorized by us, as well as effecting any change in any of our products, will exempt us from any legal obligations in the event of loss, damage or injury – except insofar as we authorize such nonconformance in writing.

We reserve the right to make changes in our products at any time without notice. Our standard terms and conditions of sale and delivery can be found in the appendix.



New items are marked with a red frame.



Recessed modular luminaires



Triona
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Sidelite ECO
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Parledo
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Kaleea
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Kaleea Basic
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Toledo Flat
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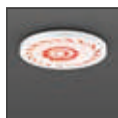
Sonis EVO
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Surface mounted modular luminaires



Triona
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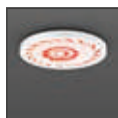
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Free-standing luminaires



Less is more 27
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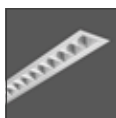


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Less is more 27
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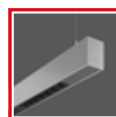
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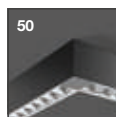
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Linear System
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High Power
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LED it Strip
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Less is more Flex
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Glasdownlight
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Cyllo
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Wall luminaires



Ring of Fire
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Flat Slim+
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Scapha
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Ceiling and wall luminaires - classic



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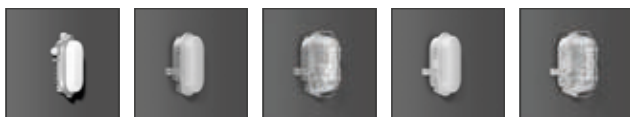
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New items are marked with a red frame.



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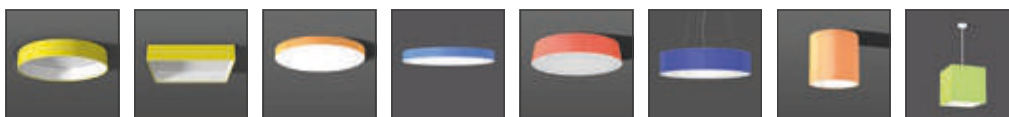
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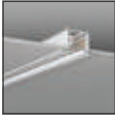
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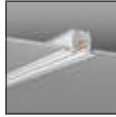
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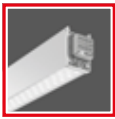
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Continuous line luminaire systems



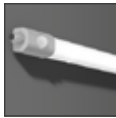
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Luminaires for moist/humid environments



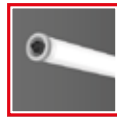
Planox PRO
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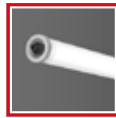
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Economy Multi DALI
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Casambi smart+free
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Professional Customised
light control +³
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New items are marked with a red frame.



Recessed luminaires



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Cyl
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Zono
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Techno
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Mega Tower
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Mega Lamelle
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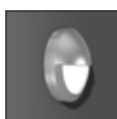
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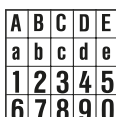
House number luminaires



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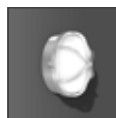
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Rounded Maxi
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Alu-Design
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Alu-Superior
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Alu-Lux oval
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Mega Tube
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Mega Glaspoller
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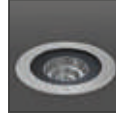
In-ground luminaires



Terra Edelstahl 130
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Terra Edelstahl 245
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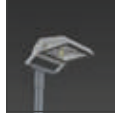
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New items are marked with a red frame.



Low power supply (LPS)



RZB
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Log book
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Escape route illumination



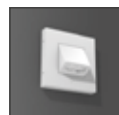
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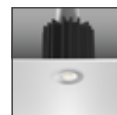
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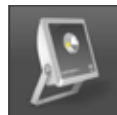
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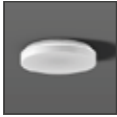
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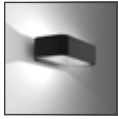


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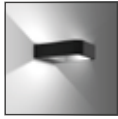
RZB HOME + BASIC Outdoor lighting



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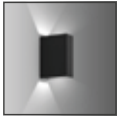
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RZB HOME + BASIC Solar luminaires



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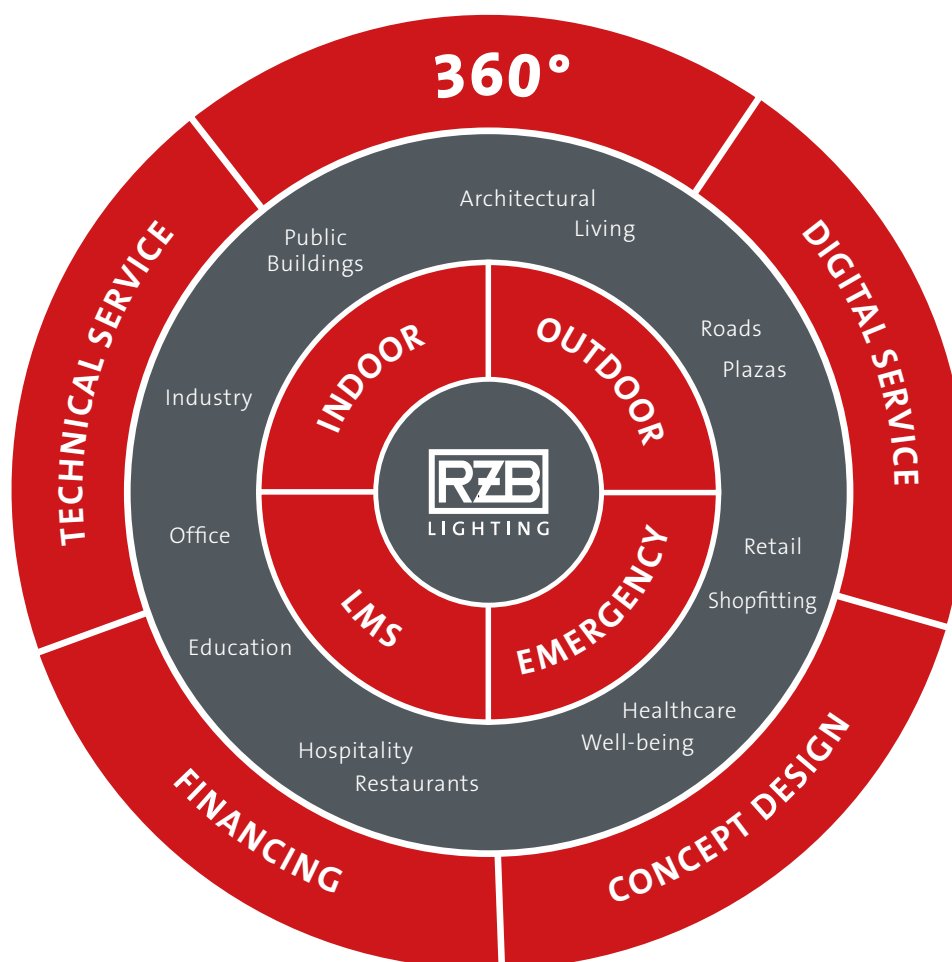
RZB HOME + BASIC Garden luminaires



HB 301-304
911



HB 309-311
911



360° LIGHT COMPETENCE

We make LIGHT.

Wherever you need it - according to our guiding principles:
SMART TECHNOLOGY. EXCELLENT DESIGN.

Whether in industrial, office or shop applications, in private and public buildings, outdoors, on paths and squares: The development and production of indoor and outdoor luminaires, emergency luminaires and intelligent lighting management systems is our passion. You will find our broad portfolio in this compendium.

Our extensive range is your advantage:

One partner - everything from one hand! In addition, we offer you so much MORE: We take the horror out of the complexity of ultra-modern lighting concepts in terms of planning, control and operation.

With us, YOU are the centre of attention!

With RZB you have chosen a trustworthy partner with an all-round view, who will accompany you on your way to a lighting solution tailored to your needs with a prudent, quality-conscious and seamless view: From consulting and planning to financing and commissioning, the development of project-specific solutions, service and maintenance to continuous monitoring and optimisation over the complete life cycle of your lighting installation.





COMMITTED TO SUSTAINABILITY AND QUALITY

We think it is great that topics such as sustainability, environmental awareness and resource conservation are becoming more and more important and are making more and more people think about them - we are making an active contribution to this at our headquarters in Bamberg:

- ⊕ 920,000 kg CO₂ savings p.a. through 30,000 m² photovoltaic system and another 930,000 kg by renewing the powder coating plant
- ⊕ CO₂-neutral heating through district heating
- ⊕ Heat recovery via air heat exchanger
- ⊕ More than 40% energy savings through ceiling heating and cooling systems
- ⊕ 180 m³ rain retention

For us, quality means making no compromises: From product development to production controls and long-term tests in our laboratories, to logistics and after-sales service, every process step is strictly controlled, continuously optimised and, if circumstances require, redefined. With DIN ISO 9001 certification, we have been documenting since 1996 that these steps meet the highest quality standards at all times.

We are continuously audited and certified.

- ⊕ ISO 9001
- ⊕ VDE test mark
- ⊕ ENEC test mark
- ⊕ INTERSEROH recycling certificate for transport and sales packaging
- ⊕ INTERSEROH *Certificate resources saved*
Climate protection certificate



EASY COMMUNICATION: DIGITAL COMMUNICATION

The world is becoming more digital. However, we still prefer to get in touch with you personally and on site. Since this is not always possible, we are continuously working on optimising and expanding our digital services for you.

Our offers:

- ⊕ Informative live webinars
- ⊕ Web meetings and individual presentations
- ⊕ Virtual trade fairs and events

You reach our digital tools at www.rzb-lighting.com around the clock:

- ⊕ Over 80 product videos and assembly tutorials
- ⊕ Interactive 3D product visualisations (WebGL)
- ⊕ Product filter functions
- ⊕ Configurators and price calculators
- ⊕ Downloadable brochures, videos, file formats and instruction manuals

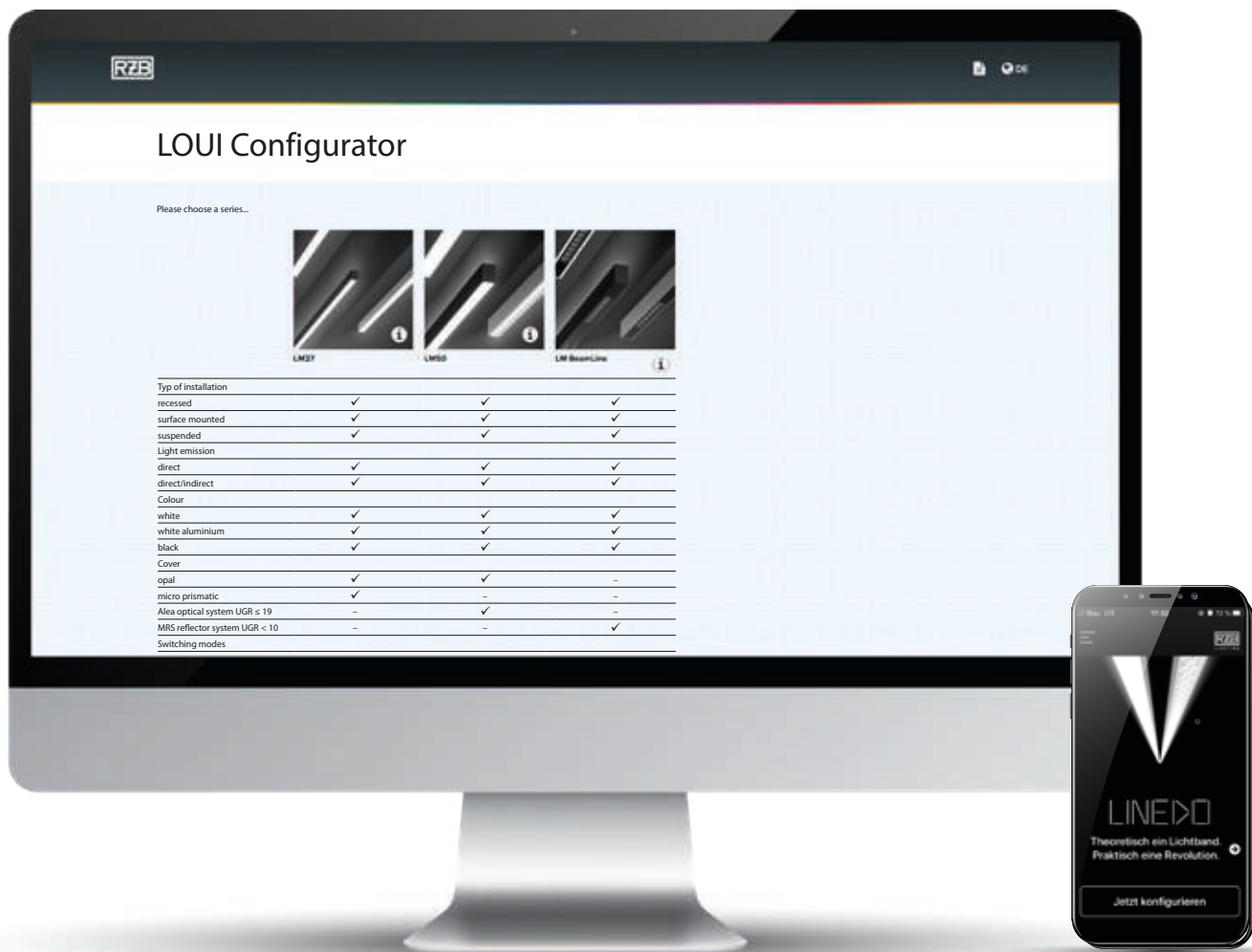
Are you already following us? Be the first to know what's going on and subscribe now:

- ⊕ RZB Newsletter on news and projects, standards-regulations and insides.
- ⊕ RZB Short-News on social media channels
- ⊕ RZB YouTube channel

You prefer to get information in the classical way? No problem! In our web media library you can not only download many publications but also order them in printed version.

TIP!

The digital pdf version of this Product Selection Guide now contains interactive links that lead from the article number directly to the respective product page on the web and thus not only to detailed technical information but also to all downloads of files, tender texts and instructions.



EASY TO USE: DIGITAL TOOLS

You have to try this out right away! At RZB you will find free interactive tools with many advantages for configuring or controlling your lighting tasks:

Online configurator LOUI

Do you know LOUI? With this clever configurator, you can plan our linear systems LESS IS MORE 27, 50 and BeamLine quickly, safely and creatively.

- ⊕ Free or budget-oriented configuration of your linear system
- ⊕ Direct price information and material composition
- ⊕ Including assembly drawing of your luminaire system in DXF format
- ⊕ Including ROLFZ file of the configured system for your planning in RELUX!

START PLAYING! LOUI can be found on our website at <https://www.rzb.de/en/products/loui-configurator/> and here from page 156.

LINEDO App

You can configure our LINEDO continuous line system in just a few steps with the LINEDO App on your smartphone or tablet. Now with new features:

- ⊕ Variable: Room dimensions of up to 100x100 metres possible
- ⊕ Easy as pie: simply archive, edit or delete configurations
- ⊕ Budget-oriented: Calculation is made with the smallest possible number of items at the best possible price
- ⊕ Convenient: Automated enquiry e-mail for non-binding offer

Light management + mesh sensor apps

Would you like to operate your lighting system in a particularly energy-efficient way, configure it individually or control it via Bluetooth®? In the Light Management Systems chapter, starting on page 544, you will find wireless and wired solutions for simple to complex applications. The matching app enables simple operation and can be downloaded directly here.



EASY TO REALISE: PLANNING AIDS

Do you already know our online calculation tool?
RZB makes it possible:

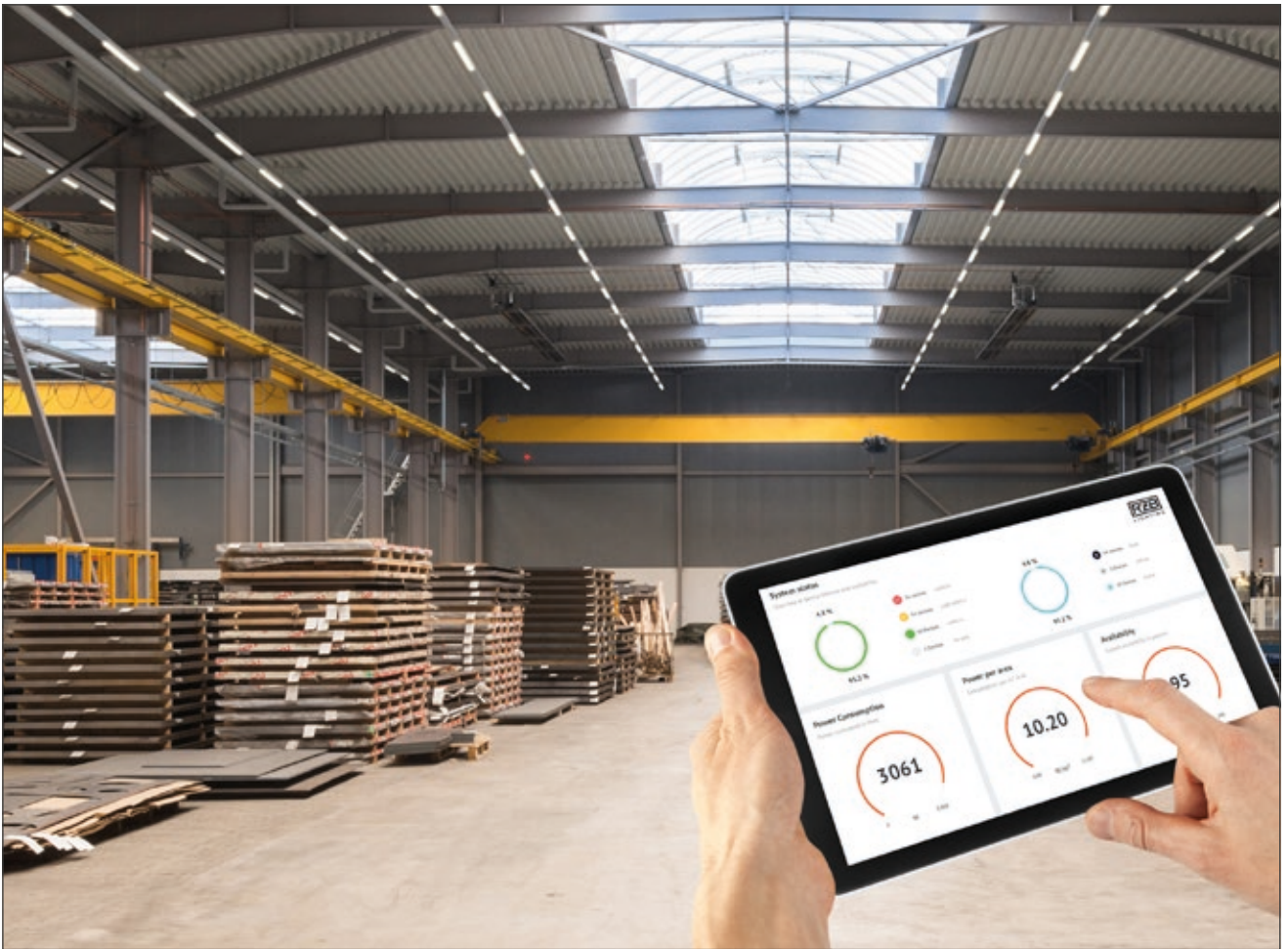
- ⊕ Calculation of requirements with three mouse clicks
- ⊕ Quick planning of rooms or smaller building projects
- ⊕ Room calculation for all suitable indoor luminaires
- ⊕ Immediate results on illuminance or number of luminaires
- ⊕ Standard-compliant distance calculation for outdoor and emergency lighting

You will find the online calculation tool on our website on the article page of the product you have selected in the "Light Calculator" section.

In the download area of each article you will also find:

- ⊕ Instructions, data sheets, tender texts
- ⊕ Photometric data
- ⊕ File formats for lighting design with RELUX or DIALux
- ⊕ All CAD and GAEB files
- ⊕ Files for BIM-based planning

In addition to the 3D geometry of the luminaire, the latter contain further information such as system performance, luminaire luminous flux, tender texts, lamps and more. So you are optimally equipped for the use of this planning method!



EASY CONTROL: LIGHT MANAGEMENT AND CONTROL

In the course of digitalisation, intelligent luminaires and application-oriented, networked light management systems will play an increasingly important role.

The added value is obvious:

- ⊕ Economy: lower energy and maintenance costs
- ⊕ Environmental protection: less CO₂ emissions
- ⊕ Flexibility: adaptation to changing and individual needs
- ⊕ Facility management: external monitoring, e.g. of consumption values, maintenance intervals, etc.
- ⊕ Integration: into building automation and management systems

Our range of lighting management systems extends from simple, self-configurable to individually and professionally programmable IoT and cloud-capable systems that are operated both wirelessly and wired.

The right system for every lighting task:

- ⊕ Daylight-dependent light control in the office
- ⊕ Use of sensors and presence detectors in industrial and residential facilities
- ⊕ Scene-based light control in conference rooms
- ⊕ Coloured light scenes for salesrooms and events
- ⊕ Dynamic adaptation of lighting to the natural course of daylight (HCL)
- ⊕ Integration of beacons, e.g. for tracking visitor flows, indoor navigation, asset tracking or the transmission of mobile phone signals

At RZB you get everything from a single source - from planning and programming to commissioning and beyond.

ICONS

	The colour temperature can be adjusted infinitely from 2700K to 6500K. Ideal for Human Centric Lighting (HCL)		For high hygienic requirements Diffuser with smooth surface on the room side for low sensitivity to dirt and easy cleaning
	During dimming, the colour temperature changes dynamically from about 3000 K to about 1800 K and thus provides a comfortable, cosy lighting atmosphere.		Individual, handcrafted production of the diffuser, which is made of mouth-blown three-layer glass. This means that the first layer consists of clear glass, the second of opal glass and the third again of clear glass.
	Additive colour mixing, based on three basic colours – red, green and blue as well as white – allows various light colours and colour temperatures to be set.		Luminaires made of impact resistant polycarbonate
	Additive colour mixing, based on three basic colours – red, green and blue – allows various light colours to be set. Particularly suitable for decorative lighting with dynamic colours.		Luminaires marked with the "ball impact protection" symbol are suitable for use in sports facilities. They are manufactured in accordance with the test conditions defined in DIN 18032.
	MultiColour version: colour temperature adjustable in different steps		Luminaires with limited surface temperature in accordance with EN 60598-2-24
	MultiLumen version: luminous flux adjustable in different steps		HACCP Luminaires with this symbol are suitable for use in the food and beverage industry. For precise instructions on the use of our products in this context, please see the declaration of conformity, which you can find in the download area for the corresponding product under rzb-lighting.com .
	Simple control of brightness via leading edge or trailing edge dimmers		Certified by DLG. This luminaire is resistant to ammonia and is suitable for high pressure cleaning with a short distance.
	DALI is the classic light bus and is ideal for the simple and central light management		Fast and easy installation
	Light management system for wireless control of lighting by Bluetooth®		This symbol indicates that individual luminaires of a series are available as emergency luminaires and have been tested respectively
	Top modern drivers regulate the LEDs in the luminaires throughout their entire lifetime and therefore avoid the usual reduction in luminous flux. This process known as CLO (Constant Lumen Output) allows the optimised control of efficiency right from the start.		Dark Sky: Protects insects and the environment thanks to needs-based light distribution without light emitted in the upper hemisphere, thus avoiding light pollution
	Ideal for office areas (UGR ≤ 19) and computer workstations in accordance with EN 12464-1		Seawater resistant coating
	The beam angle can be changed by clicking on the lens		Luminaires with high protection class
	The Corridor function allows the luminaires to be configured to have a residual brightness of 10%. If no further movement is detected. This is recommended for applications without any ambient light, especially in corridors or stairwells without any daylight.		Luminaires with a high degree of impact resistance
	TouchDim offers simple, cost-effective and efficient light control without any additional control device. TouchDim means the device can be operated via standard buttons, whilst control is taken over by the DALI board/converter. Light and/or presence sensors can be integrated.		
	Luminaires with presence and daylight sensor		Our emergency luminaires are all equipped with LEDs
	Real time clock		Self-contained emergency luminaires
	Luminaires: Acquisition and forwarding of status and energy data Lighting management systems: Forwarding of luminaire data to cloud services possible		Luminaires for central power supply

THE FAST WAY TO YOUR LIGHTING SOLUTION

Our icons help you identify the key features of our products at a glance.

Overviews and comparison tables make product differences visible.

So you can quickly and easily find the right solution for your project!

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INDOOR LIGHTING

Overview: Luminaires with built-in sensors

Smart light sensors

Smart light sensors can be used to control a luminaire's light output. They can be used to control the light output of a luminaire in response to changes in the ambient light level. They can also be used to control the light output of a luminaire in response to changes in the ambient light level. They can also be used to control the light output of a luminaire in response to changes in the ambient light level.

Smart light sensors

The following table shows the different luminaire models with built-in sensors. The table is organized by luminaire model and sensor type. The table shows the luminaire model, the sensor type, and the luminaire model. The table shows the luminaire model, the sensor type, and the luminaire model.

Smart light sensors

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INDOOR LIGHTING

	Smart light sensors	Major luminaire options	Mini luminaire
Application	Commercial lighting, office lighting	Commercial lighting, office lighting	Commercial lighting, office lighting
Construction	Aluminum, steel	Aluminum, steel	Aluminum, steel
Infrastructure requirements	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Dimensions	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Configuration	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Connectivity	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Control	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Power	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Mounting options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Lighting options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Control options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Power options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Mounting options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Lighting options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Control options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Power options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Mounting options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Lighting options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Control options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Power options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Mounting options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Lighting options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Control options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Power options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Mounting options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Lighting options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Control options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Power options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Mounting options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Lighting options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Control options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Power options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Mounting options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Lighting options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Control options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Power options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Mounting options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Lighting options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Control options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max
Power options	120V AC, 60 Hz, 100W max	120V AC, 60 Hz, 100W max	120V AC, 60 Hz,

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	A daylight sensor measures the incidence of light on a luminaire in order to switch it on and off depending on the brightness.		The StepDIM mode (bi-power mode) enables to switch between two performance levels – „normal“ operation and „half night“ operation – via an additional switched phase. The light levels can be flexibly pre-programmed.
	Stand-alone sensors are used to control a single luminaire. Since no external control unit is needed, the luminaire functions autonomously and requires a power supply only.		AstroDIM offers a multi-stage night reduction regulated by an internal timer that responds to the switch-on and switch-off times. No external control is required.
	The luminaire with sensor (master) controls several other luminaires without sensor (slave). Depending on the system, several master luminaires can also be operated together.		Luminous flux is reduced proportionally to the reduction of the mains voltage. The mains voltage is lowered via a control element in the distribution board. Mainly used with magnetic ballasts.
	Mesh sensors create a wireless connection between each other. This allows for flexible configuration via smartphone or tablet.		Equipping a luminaire with a socket according to Zhaga or NEMA standards allows the connection of sensors and light management systems (e.g. third-party systems such as Signify Interact City, Philips City Touch or eSave) without affecting the IP protection factor of the luminaire.
	Initial setting of luminaires with sensor complying with standards can be individually adjusted via app if necessary		The corresponding modules are attached without tools via bayonet lock (also retrofitted) and can be replaced at any time without opening the luminaire.





INDOOR LIGHTING

Overview - Luminaires with built-in sensors



Stand-alone sensors

Stand-alone sensors are used to control unit a single luminaire.

Since no external control is needed, the luminaire functions autonomously and requires a power supply only. Depending on the luminaire type, stand-alone devices can detect movement and brightness and are adjustable to a certain degree (delay time, brightness thresholds). Stand-alone sensors do not allow clustering of luminaires. Each luminaire with a stand-alone sensor works autonomously.



Flat Slim



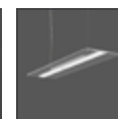
Flat Polymero Kreis



Flat Polymero



Flat Basic



TWINDOT



TWINDOT



RT 44



Planox ECO



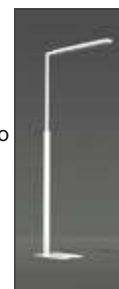
Industrial Hall EVO



Toledo Flat



Toledo Flat



Less is more 27



Sidelite



Sidelite ECO



Master-slave systems

The luminaire with sensor (master) controls several other luminaires without sensor (slave). Depending on the system, several master luminaires can also be operated together. Master-slave systems are mainly used in stairwells and corridors. They can be used for corridor functions, guided light („running light“) and similar functions. Depending on the luminaire type, master luminaires can detect movement and brightness and can be adjusted to a certain degree (delay time, brightness thresholds).



Douala



Flat Slim



Flat Polymero Kreis



Flat Polymero



Planox ECO



Mesh sensors

Mesh sensors create a wireless connection between each other. This allows for flexible configuration via smartphone or tablet. The sensors (and luminaires connected to them) can be grouped as desired and the delay times and thresholds can be set individually. Just as with the master-slave systems, corridor functions, running lights, etc. can be set. Contrary to the previously mentioned systems, these, however, do not have to be connected by wire.









Flat Slim+



Toledo Flat



Toledo Flat



	Stand-alone sensors	Master-slave systems	Mesh sensors
	 	 	 
Application	Workplace lighting Sanitary facilities	Corridor lighting Staircase	Staircase Outdoor lighting
Communication	stand-alone	wired	wireless
Infrastructure requirements	L, N, PE (3 wires cable)	L, L', N, PE (5 wires cable)	L, N, PE (3 wires cable)
Commissioning	by electrician, App	by electrician	by electrician, App
Configuration	push-button, remote control	pre-configured, dip switch	App
Dimmability	switchable / dimmable via sensor	switchable / dimmable via sensor	switchable / dimmable via sensor
Switchable	✓	✓	✓
Dimmable	✓	✓	✓ (DALI)
Movement / presence detection	✓	✓	✓
Brightness threshold adjustable	✓	✓	✓
Daylight-dependent control	✓	✓ (luminaire-dependent*)	✓
Basic light	✓	✓	✓ (DALI)
Corridor function		✓ (luminaire-dependent*)	✓
Grouping		✓ (luminaire-dependent*)	✓
Further luminaires possible		✓	✓
Further sensors possible		✓	✓
SoftDim			✓ (DALI)

* For more information, see the operating instructions at www.rzb-lighting.com under the download area of the respective item.



The application image shows:
Triona

© shutterstock

					Triona 24-27
			27		
					Sidelite ECO 28-35
31	32	34			
					Parledo 36-39
			39		
					Kaleea 40-43
			43		
					Kaleea Basic 44-45
			45		
					Toledo Flat 46-47
			47		
					Sonis EVO 48-53
51	51	52	52		

TRIONA®

Everything at a glance

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices (on request), free app available for download



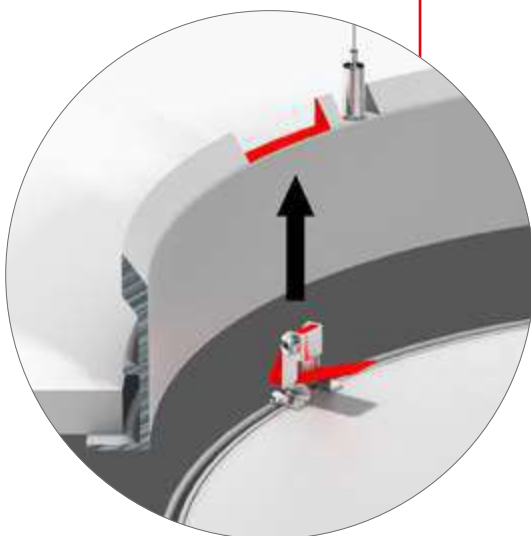
Diffuser plastic opal/micropismatic: ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1



Tunable white versions, dynamically adjustable from 2700 K to 6500 K.

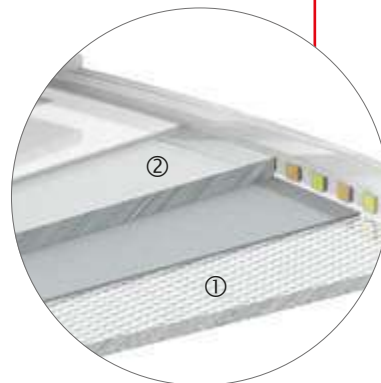
Ideal for use as part of a Human Centric Lighting concept

Tool-free mounting system thanks to the rocker arm mechanism (patent pending)



RZB SIDELITE® technology: lateral light injection for extremely homogeneous light distribution and rimless illumination

Diffuser ① and lightguide ②
made of **non-yellowing PMMA**





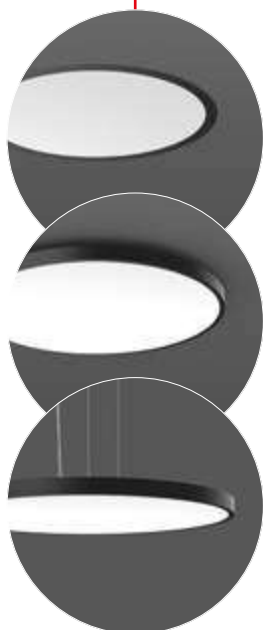
Very easy plug-in installation (Quick connector)

3 different colours are available for the recessed ring and frame made of extruded aluminium profile, powder-coated



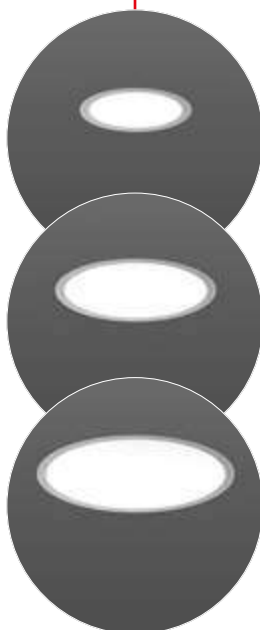
3 types of installation

recessed
surface mounted
pendant



3 sizes

Ø 505 mm
Ø 725 mm
Ø 889 mm



2 diffusers

Plastic (PMMA), opal
Plastic (PMMA) opal/microprismatic
Glass FerroMurano (on request)



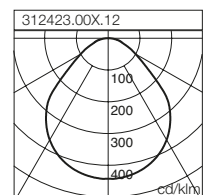


TRIONA®

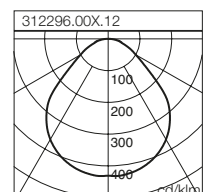
Recessed ceiling luminaires

- Lateral light emission with LED
- Very easy installation thanks to plug & play connection
- **Lightguide** and plastic **diffuser** made of **non-yellowing PMMA**
- Ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1
- LED rated life 50,000 h (L70/B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Dimmable via TouchDIM
- Tunable white versions dynamically adjustable from 2700 K to 6500 K
- Ideal for use as part of a Human Centric Lighting concept

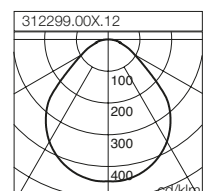
312423.00X.12		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	5	8



312296.00X.12		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	7



312299.00X.12		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	2	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	2	3



Further luminaires of this series, see:
Indoor lighting | Surface mounted modular luminaires
Indoor lighting | Suspended modular luminaires

Recessed ceiling luminaires | Triona

Type of Protection: IP 20, **IP 40** on room side

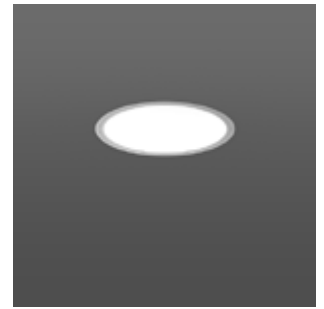
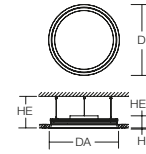
Protection Class: I

Impact Protection: IK03

Recessed ring: aluminium extrusion profile, powder coated. Frame: aluminium, powder-coated.

Cover: sheet steel, powder-coated. Lateral light emission for direct illumination through non-yellowing plastic (PMMA) opal diffuser. Integral driver. Suitable for installation in cavity ceilings.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Comparison LED vs. conventional lamps

LED 29 W ≈

1 x 55 W T16-R (60 W Psys)

LED 40 W ≈

1 x 60 W T16-R (65 W Psys)

LED 49 / 51 W ≈

4 x 26 W TC-D (136 W Psys)

LED 74 / 85 W ≈

4 x 42 W TC-TEL (180 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable	Price Category 21
Recessed ceiling luminaires								
Diameter D 505 mm								
312419.00X.12	D 505, H 2, HE 100, HEL 89	LED	830	4400	51	24,2	DALI	
312419.00X.1.12	D 505, H 2, HE 100, HEL 89	LED	840	4600	51	24,4	DALI	
Tunable White - 2700 K to 6500 K								
312419.00X.2.12	D 505, H 2, HE 100, HEL 89	LED	827-865	2350	29	22,1	DALI	
Diameter D 725 mm								
312383.00X.12	D 725, H 2, HE 100, HEL 89	LED	830	6100	74	22,4	DALI	
312383.00X.1.12	D 725, H 2, HE 100, HEL 89	LED	840	6350	74	22,5	DALI	
Tunable White - 2700 K to 6500 K								
312383.00X.2.12	D 725, H 2, HE 100, HEL 89	LED	827-865	3200	40	20,0	DALI	
Diameter D 889 mm								
312387.00X.12	D 889, H 2, HE 100, HEL 89	LED	830	7550	85	21,5	DALI	
312387.00X.1.12	D 889, H 2, HE 100, HEL 89	LED	840	7850	85	21,6	DALI	
Tunable White - 2700 K to 6500 K								
312387.00X.2.12	D 889, H 2, HE 100, HEL 89	LED	827-865	4550	49	19,6	DALI	

Recessed ceiling luminaires | Triona

Type of Protection: IP 20, **IP 40** on room side

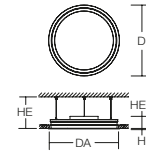
Protection Class: I

Impact Protection: IK03

Recessed ring: aluminium extrusion profile, powder coated. Frame: aluminium, powder-coated.

Cover: sheet steel, powder-coated. Lateral light emission for direct illumination through non-yellowing plastic (PMMA) opal/micro-prismatic diffuser (screen-compliant in accordance with EN-12464-1). Integral driver. Suitable for installation in cavity ceilings.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Comparison LED vs. conventional lamps

LED 29 W ≈

1 x 55 W T16-R (60 W Psys)

LED 30 / 33 / 40 W ≈

1 x 60 T16-R (65 W Psys)

LED 49 W ≈

4 x 26 W TC-D (136 W Psys)

LED 70 W ≈

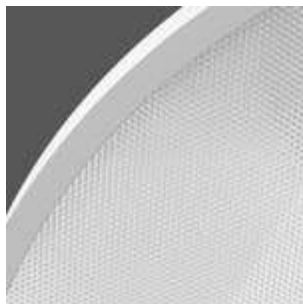
4 x 42 W TC-TEL (180 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable	Price Category 21
Recessed ceiling luminaires								
Diameter D 505 mm								
312423.00X.12	D 505, H 2, HE 100, HEL 89	LED	830	2950	30	20,5	DALI	
312423.00X.1.12	D 505, H 2, HE 100, HEL 89	LED	840	3050	30	20,7	DALI	
Tunable White - 2700 K to 6500 K								
312423.00X.2.12	D 505, H 2, HE 100, HEL 89	LED	827-865	2550	29	20,0	DALI	
Diameter D 725 mm								
312296.00X.12	D 725, H 2, HE 100, HEL 89	LED	830	3550	33	18,5	DALI	
312296.00X.1.12	D 725, H 2, HE 100, HEL 89	LED	840	3700	33	18,7	DALI	
Tunable White - 2700 K to 6500 K								
312296.00X.2.12	D 725, H 2, HE 100, HEL 89	LED	827-865	3400	40	17,9	DALI	
Diameter D 889 mm								
312299.00X.12	D 889, H 2, HE 100, HEL 89	LED	830	7600	70	19,2	DALI	
312299.00X.1.12	D 889, H 2, HE 100, HEL 89	LED	840	7900	70	19,3	DALI	
Tunable White - 2700 K to 6500 K								
312299.00X.2.12	D 889, H 2, HE 100, HEL 89	LED	827-865	4800	49	17,8	DALI	

Light colour 827 on request.



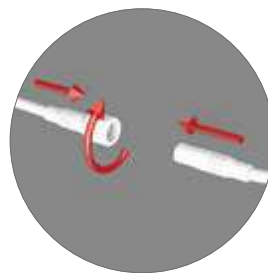
Diffuser: plastic (PMMA), opal



Diffuser: plastic (PMMA) opal/microprismatic

SIDELITE® ECO

Everything at a glance



External driver with simple plug-in locking system and extended connecting cable (1.9 m)



Recessed version suitable for use in the food and drink industry



Luminaire frame: aluminium, powder-coated

MultiLumen version:

The user can choose from four different luminous flux levels. This can be reversibly set manually on the external control gear.



Ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with DIN EN 12464-1



Tunable white versions, dynamically adjustable from 2700 K to 6500 K.

Ideal for use as part of a Human Centric Lighting concept



Recessed version also available as an emergency luminaire in accordance with EN 60598-2-22

Automatic self test in all standard versions

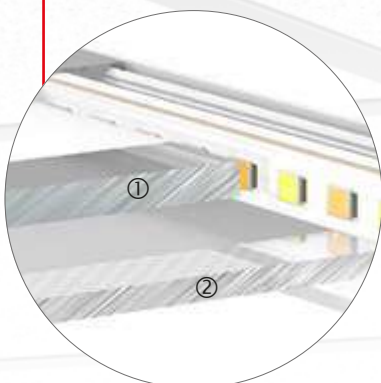
Wide luminaire spacing for escape routes



Extremely shallow installation depth (12 mm)

RZB SIDELITE® technology: lateral light injection for extremely homogeneous light distribution

Lightguide ① and **diffuser** ② made of **non-yellowing PMMA** with microprismatic



Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download





SIDELITE® ECO

Recessed ceiling luminaires, Lay-in luminaires

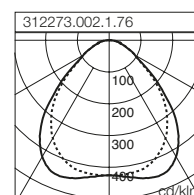
- Extremely cost efficient luminaires with advanced LED technology, available as ceiling, wall, recessed or suspended lighting solutions for interiors
- High number of variants within the luminaire series
- Diffuser plastic (PMMA) microprismatic: ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1
- Lightguide and diffuser made of non-yellowing PMMA with microprismatic
- RZB SIDELITE® technology: lateral light injection for extremely homogeneous light distribution



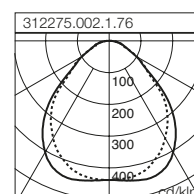
Further luminaires of this series, see:
 Indoor lighting | Surface mounted modular luminaires
 Indoor lighting | Suspended modular luminaires
 Indoor lighting | Free-standing luminaires

- **MultiLumen:** 4 steps adjustable luminous flux
- Luminous efficiency of up to 128 lm/W
- LED rated life 50,000 h (L70/B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Flicker < 5%
- External driver with simple plug-in locking system and extended connecting cable up to 1,90 m
- Suitable for use in the food and drink industry
- Tunable white versions dynamically adjustable from 2700 K to 6500 K
- Ideal for use as part of a Human Centric Lighting concept
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download

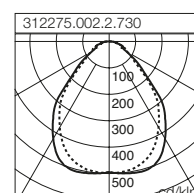
312273.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



312275.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



312275.002.2.730		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	5	8



Recessed ceiling luminaires | Sidelite ECO

Type of Protection: IP 20, **IP 40** on room side

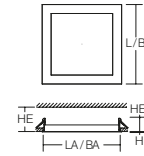
Protection Class: II

Ceiling thickness: 1-25 mm

Impact Protection: IK03

Luminaire frame: aluminium, powder-coated. Recessed mounting frame: sheet steel, powder-coated. Lightguide and diffuser made of non-yellowing plastic (PMMA). Lateral light emission thanks to LED. Extended connection cable (1.20 m). External driver (Height 32 mm). DALI variants suitable for through wiring as standard.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-able
Recessed ceiling luminaires							
cut out LA 315 x BA 315 mm							
Diffuser: plastic (PMMA), opal							
312380.002	L 324, B 324, H 2, HE 85, HEL 51	LED	830	2100	19	25,0	on/off
312380.002.76	L 324, B 324, H 2, HE 85, HEL 51	LED	830	2100	19	25,0	DALI
312380.002.1	L 324, B 324, H 2, HE 85, HEL 51	LED	840	2200	19	25,1	on/off
312380.002.1.76	L 324, B 324, H 2, HE 85, HEL 51	LED	840	2200	19	25,1	DALI

Price Category 21

Comparison LED vs. conventional lamps

LED 19 W ≈
2 x 26 W TC-D (68 W Psys)

Accessories | Through-wiring box

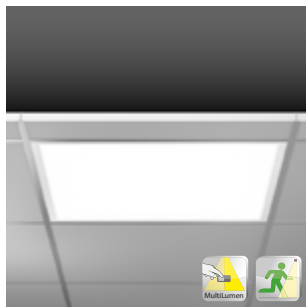
Pluggable converter add-on with 5 pins. Cable cross-sections of up to 5 x 1.5 mm² or 3 x 2.5 mm² possible. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

Through-wiring box DALI

982703.002 L 98, B 55, H 28

Price Category 11





Comparison LED vs. conventional lamps

LED 29 / 30 / 31 W ≈

4 x 14 W T16 (68 W Psys)

LED 35 W ≈

3 x 21 W T16 (69 W Psys)

LED 38 W ≈

4 x 21 W T16 (90 W Psys)

Lay-in luminaires | Sidelite ECO

Type of Protection: IP 20, **IP 40** on room side

Protection Class: II

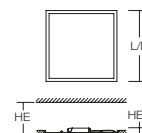
Impact Protection: IK03

Frame: aluminium, powder-coated. Diffuser made of non-yellowing plastic, opal or microprismatic (Suitable for use in environments with computer screens in accordance with EN 12464-1). Lightguide and diffuser made of non-yellowing plastic (PMMA). Lateral light emission thanks to LED. Extended connection cable (1.90 m). External driver. DALI variants suitable for through wiring as standard.

Available colour: 2 = white

MultiLumen version: 4 steps adjustable luminous flux. Factory-set to lowest luminous flux.

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-able	
Lay-in luminaires for grid ceilings - Module 600								Price Category 21
Diffuser: plastic (PMMA), opal								
312272.002.790 *	L 595, B 595, HE 160, HEL 37	LED	830	3400...4300	29...38	21,5...22,3	on/off	✓
312272.002.76	L 595, B 595, HE 160, HEL 38	LED	830	3200	29	21,3	DALI	
312272.002.1.790 *	L 595, B 595, HE 160, HEL 37	LED	840	3700...4600	29...38	21,8...22,6	on/off	✓
312272.002.1.76	L 595, B 595, HE 160, HEL 38	LED	840	3700	29	21,8	DALI	
312272.002.5.76	L 595, B 595, HE 160, HEL 38	LED	830	3950	35	22,0	DALI	
312272.002.6.76	L 595, B 595, HE 160, HEL 38	LED	840	4250	35	22,3	DALI	
Tunable White - 2700 K to 6500 K								
312272.002.2.730 **	L 595, B 595, HE 160, HEL 62	LED	827-865	2750	30	20,4	smart+free	
Diffuser plastic (PMMA) microprismatic								
312273.002.790 *	L 595, B 595, HE 160, HEL 37	LED	830	3400...4300	29...38	17,9...18,7	on/off	✓
312273.002.76	L 595, B 595, HE 160, HEL 38	LED	830	3350	29	18,2	DALI	
312273.002.1.790 .Q*	L 595, B 595, HE 160, HEL 37	LED	840	3700...4600	29...38	18,2...18,9	on/off	✓
312273.002.1.76	L 595, B 595, HE 160, HEL 38	LED	840	3700	29	18,4	DALI	
312273.002.5.76	L 595, B 595, HE 160, HEL 38	LED	830	3950	35	18,4	DALI	
312273.002.6.76	L 595, B 595, HE 160, HEL 38	LED	840	4250	35	18,6	DALI	
Tunable White - 2700 K to 6500 K								
312273.002.2.730 **	L 595, B 595, HE 160, HEL 62	LED	827-865	2700	31	17,3	smart+free	

Lay-in luminaires for grid ceilings - Module 625								Price Category 21
Diffuser: plastic (PMMA), opal								
312274.002.790 *	L 622, B 622, HE 160, HEL 37	LED	830	3400...4300	29...38	21,3...22,1	on/off	✓
312274.002.76	L 622, B 622, HE 160, HEL 38	LED	830	3350	29	21,3	DALI	
312274.002.1.790 .Q*	L 622, B 622, HE 160, HEL 37	LED	840	3700...4600	29...38	21,6...22,3	on/off	✓
312274.002.1.76	L 622, B 622, HE 160, HEL 38	LED	840	3600	29	21,6	DALI	
312274.002.5.76	L 622, B 622, HE 160, HEL 38	LED	830	3950	35	21,8	DALI	
312274.002.6.76	L 622, B 622, HE 160, HEL 38	LED	840	4250	35	22,0	DALI	
Tunable White - 2700 K to 6500 K								
312274.002.2.730 **	L 622, B 622, HE 160, HEL 62	LED	827-865	2600	30	20,1	smart+free	
Diffuser plastic (PMMA) microprismatic								
312275.002.790 .Q *	L 622, B 622, HE 160, HEL 37	LED	830	3400...4300	29...38	17,7...18,5	on/off	✓
312275.002.76	L 622, B 622, HE 160, HEL 38	LED	830	3400	29	18,2	DALI	
312275.002.1.790 .Q*	L 622, B 622, HE 160, HEL 37	LED	840	3700...4600	29...38	18,0...18,7	on/off	✓
312275.002.1.76	L 622, B 622, HE 160, HEL 38	LED	840	3750	29	18,5	DALI	
312275.002.5.76	L 622, B 622, HE 160, HEL 38	LED	830	3950	35	18,2	DALI	
312275.002.6.76	L 622, B 622, HE 160, HEL 38	LED	840	4250	35	18,5	DALI	
Tunable White - 2700 K to 6500 K								
312275.002.2.730 **	L 622, B 622, HE 160, HEL 62	LED	827-865	2750	29	17,1	smart+free	

* **MultiLumen version:** Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

** 0.35 m power cable

MultiLumen: Adjustable luminous flux

31227X.002.790 / 31227X.002.1.790			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	3400	3700	29
2	3750	4050	33
3	3950	4250	35
4	4300	4600	38

Accessories | Recessed mounting frame

Recessed mounting frame: sheet steel, powder-coated, white. For installation on suspended ceilings. Minimum recess depth: 300 mm.
Ceiling thickness: 1-30 mm

Mounting frame for installation in suspended ceilings

Price Category 21

981941.012	L 624, B 624, H 2, HE 94	for module 600
981942.012	L 649, B 649, H 2, HE 94	for module 625



Spring system set, Ceiling thickness: 10-25 mm

Price Category 21

981979.020 .Q	consisting of 4 installation springs for module 625
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not suitable for tunable white version



Accessories | Surface mounting frame

Mounting frame: sheet steel, powder-coated, white.

Surface mounting frame

Price Category 21

982187.032	L 602, B 602, H 52	for module 600
982292.022	L 627, B 627, H 47	for module 625



Ceiling surface mounting kit

Price Category 21

981980.012	consisting of 4 cylindrical spacers (Ø 30, H 38) for module 600 / 1200
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not suitable for tunable white version



Accessories | Pendant kit

Pendant kit consisting of 4 steel cables and ceiling mounting with rapid cable adjustment

Pendant kit

Price Category 21

981978.010	LP 1500	for module 600
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not suitable for tunable white version



Accessories | Through-wiring box

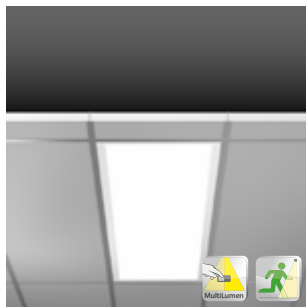
Pluggable converter add-on with 5 pins. Cable cross-sections of up to 5 x 1.5 mm² or 3 x 2.5 mm² possible. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

Through-wiring box DALI

Price Category 11

982703.002	L 98, B 55, H 28
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Comparison LED vs. conventional lamps

LED 29 W ≈

1 x 54 W T16 (58 W Psys)
2 x 28 W T16 (61 W Psys)

LED 35 / 38 W ≈

1 x 80 W T16 (86 W Psys)
2 x 39 W T16 (82 W Psys)

Lay-in luminaires | Sidelite ECO

Type of Protection: IP 20, IP 40 on room side

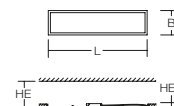
Protection Class: II

Impact Protection: IK03

Frame: aluminium, powder-coated. Diffuser made of non-yellowing plastic, opal or microprismatic (Suitable for use in environments with computer screens in accordance with EN 12464-1). Lightguide and diffuser made of non-yellowing plastic (PMMA). Lateral light emission thanks to LED. Extended connection cable (1.90 m). External driver. DALI variants suitable for through wiring as standard.

Available colour: 2 = white

MultiLumen version: 4 steps adjustable luminous flux. Factory-set to lowest luminous flux.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable	
Lay-in luminaires for grid ceilings - Module 1200								Price Category 21
Diffuser: plastic (PMMA), opal								
312365.002.790 *	L 1195, B 295, HE 160, HEL 37	LED	830	3200...4000	29...38	21,1...21,8	on/off	✓
312365.002.76	L 1195, B 295, HE 160, HEL 38	LED	830	3300	29	21,6	DALI	
312365.002.1.790 *	L 1195, B 295, HE 160, HEL 37	LED	840	3500...4400	29...38	21,4...22,2	on/off	✓
312365.002.1.76	L 1195, B 295, HE 160, HEL 38	LED	840	3550	29	21,9	DALI	
312365.002.5.76	L 1195, B 295, HE 160, HEL 38	LED	830	3700	35	21,6	DALI	
312365.002.6.76	L 1195, B 295, HE 160, HEL 38	LED	840	4050	35	21,9	DALI	
Diffuser plastic (PMMA) microprismatic								
312366.002.790 *	L 1195, B 295, HE 160, HEL 37	LED	830	3200...4000	29...38	18,0...18,8	on/off	✓
312366.002.76	L 1195, B 295, HE 160, HEL 38	LED	830	3200	29	18,4	DALI	
312366.002.1.790 *	L 1195, B 295, HE 160, HEL 37	LED	840	3500...4400	29...38	18,3...19,1	on/off	✓
312366.002.1.76	L 1195, B 295, HE 160, HEL 38	LED	840	3450	29	18,6	DALI	
312366.002.5.76	L 1195, B 295, HE 160, HEL 38	LED	830	3700	35	18,5	DALI	
312366.002.6.76	L 1195, B 295, HE 160, HEL 38	LED	840	4050	35	18,8	DALI	
Lay-in luminaires for grid ceilings - Module 1250								Price Category 21
Diffuser: plastic (PMMA), opal								
312367.002.790 *	L 1245, B 308, HE 160, HEL 37	LED	830	3200...4000	29...38	21,2...22,0	on/off	✓
312367.002.76	L 1245, B 308, HE 160, HEL 38	LED	830	3300	29	21,4	DALI	
312367.002.1.790 *	L 1245, B 308, HE 160, HEL 37	LED	840	3500...4400	29...38	21,5...22,3	on/off	✓
312367.002.1.76	L 1245, B 308, HE 160, HEL 38	LED	840	3500	29	21,5	DALI	
312367.002.5.76	L 1245, B 308, HE 160, HEL 38	LED	830	3700	35	21,7	DALI	
312367.002.6.76	L 1245, B 308, HE 160, HEL 38	LED	840	4050	35	22,1	DALI	
Diffuser plastic (PMMA) microprismatic								
312368.002.790 *	L 1245, B 308, HE 160, HEL 37	LED	830	3200...4000	29...38	17,5...18,2	on/off	✓
312368.002.76	L 1245, B 308, HE 160, HEL 38	LED	830	3150	29	18,1	DALI	
312368.002.1.790 *	L 1245, B 308, HE 160, HEL 37	LED	840	3500...4400	29...38	17,8...18,6	on/off	✓
312368.002.1.76	L 1245, B 308, HE 160, HEL 38	LED	840	3500	29	18,5	DALI	
312368.002.5.76	L 1245, B 308, HE 160, HEL 38	LED	830	3700	35	18,0	DALI	
312368.002.6.76	L 1245, B 308, HE 160, HEL 38	LED	840	4050	35	18,3	DALI	

* **MultiLumen version:** Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

MultiLumen: Adjustable luminous flux

31236X.002.790 / 31236X.002.1.790			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	3200	3500	29
2	3500	3850	33
3	3700	4050	35
4	4000	4400	38

Accessories | Recessed mounting frame

Recessed mounting frame: sheet steel, powder-coated, white. For installation on suspended ceilings. Minimum recess depth: 300 mm.
Ceiling thickness: 1-30 mm

Mounting frame for installation in suspended ceilings

982106.012 L 1224, B 324, H 2, HE 94 for module 1200

Price Category 21



Spring system set, Ceiling thickness: 10-25 mm

981979.030 consisting of 6 installation springs | for module 1250

Price Category 11



Accessories | Surface mounting frame

Mounting frame: sheet steel, powder-coated, white.

Surface mounting frame

982190.042 L 1202, B 302, H 47 for module 1200
982295.032 L 1252, B 315, H 47 for module 1250

Price Category 21

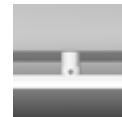


Ceiling surface mounting kit

981980.012 consisting of 4 cylindrical spacers (Ø 30, H 38) | for module 600 / 1200

Price Category 21

not suitable for tunable white version



Pendant kit

982035.022 L 300, B 100, H 50, LP 300-1500 Y-pendant set with canopy | for module 1200

Price Category 21

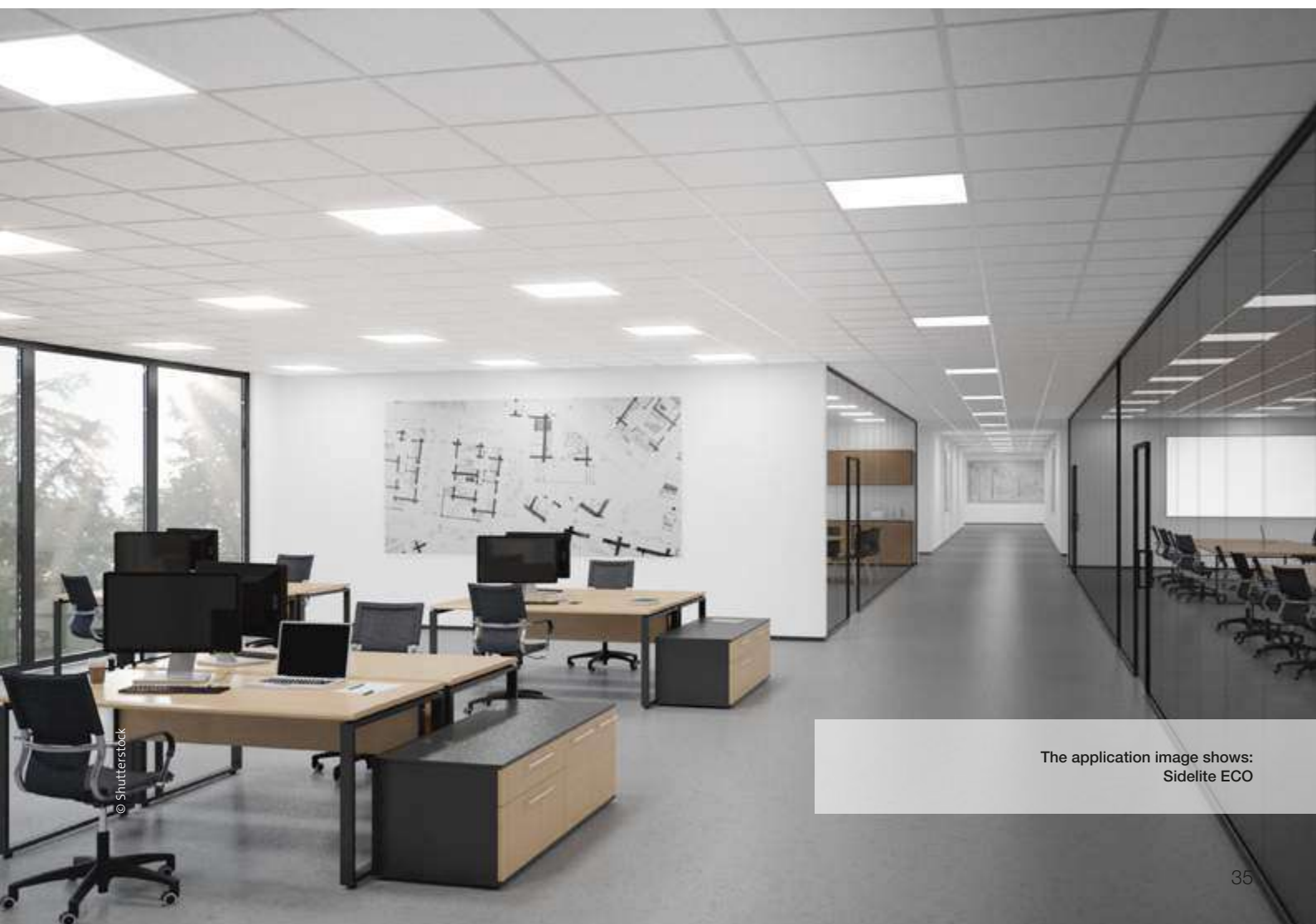
Accessories | Through-wiring box

Pluggable converter add-on with 5 pins. Cable cross-sections of up to 5 x 1.5 mm² or 3 x 2.5 mm² possible.
Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

Through-wiring box DALI

982703.002 L 98, B 55, H 28

Price Category 11



The application image shows:
Sidelite ECO

PARLEDO®

Everything at a glance

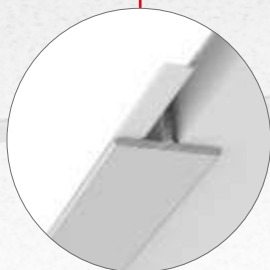
Dust proof; protected against sprayed water (IP 65)

Protection class IP 65 for luminaire and control gear on room and ceiling side



Diffuser made of resistant polycarbonate (PC)

Frameless appearance in the modular ceiling thanks to the extra slim frame



For high hygienic requirements

Diffuser with smooth surface on the room side for low sensitivity to dirt and easy cleaning



DALI variants: IoT Ready



Easy to install thanks extended
connection cable (2 m)

MultiLumen version:

The user can choose from four different luminous flux levels.
This can be reversibly set manually on the external control gear.



Excellent glare control even with high
luminous fluxes

Diffuser microprismatic: ideal for office
areas ($UGR \leq 19$) and environments
with computer screens in accordance
with EN 12464-1



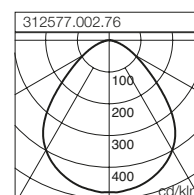


PARLEDO®

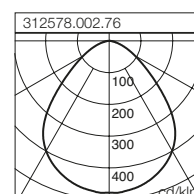
Lay-in luminaires

- For high hygienic requirements
- Diffuser with smooth surface on the room side for low sensitivity to dirt and easy cleaning
- Diffuser made of resistant polycarbonate (PC)
- Dust proof; protected against sprayed water (IP 65)
- Protection class IP 65 for luminaire and control gear on room and ceiling side
- Impact protection IK06 for high impact resistance
- Frameless appearance in the modular ceiling thanks to the extra slim frame
- Diffuser microprismatic: ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1
- Excellent glare control even with high luminous fluxes
- **MultiLumen:** 4 steps adjustable luminous flux
- Luminous efficiency up to 147 lm/W
- LED rated life 60,000 h (L80)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Flicker: DALI $\leq 1\%$, MultiLumen $< 5\%$
- Easy to install thanks extended connection cable (2 m)
- Suitable for through wiring as standard
- DALI variants: IoT Ready and dimming via TouchDIM possible

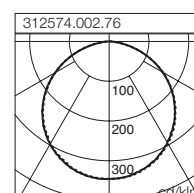
312577.002.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



312578.002.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4



312574.002.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



Lay-in luminaires | Parledo

Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK06

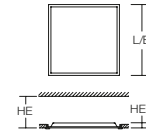
Housing: sheet steel, powder-coated. Luminaire frame: aluminium, powder-coated.

LED backlight technology for homogeneous illumination of the entire light-emitting surface.

Smooth diffuser: plastic (polycarbonate), opal or microprismatic (suitable for use in environments with computer screens in accordance with EN 12464-1). External driver. Extended connection cable (2.0 m). Suitable for through wiring as standard. DALI variants IoT Ready and dimming via TouchDIM possible.

Available colour: 2 = white

MultiLumen version: 4 steps adjustable luminous flux. Factory-set to lowest luminous flux.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Recessed ceiling luminaires for visible mounting rails - Module 600							Price Category 21
Diffuser: plastic (polycarbonate), opal							
312567.002.790 *	L 595, B 595, HE 160, HEL 41	LED	840	4550...5600	31...40	21,7...22,4	on/off
312568.002.76	L 595, B 595, HE 160, HEL 41	LED	840	4550	31	21,7	DALI
312569.002.76	L 595, B 595, HE 160, HEL 41	LED	840	5600	40	22,4	DALI
Diffuser plastic (polycarbonate) microprismatic							
312570.002.790 *	L 595, B 595, HE 160, HEL 41	LED	840	4050...5000	31...40	17,3...18,0	on/off
312571.002.76	L 595, B 595, HE 160, HEL 41	LED	840	4050	31	17,3	DALI
312572.002.76	L 595, B 595, HE 160, HEL 41	LED	840	5000	40	18,0	DALI

Recessed ceiling luminaires for visible mounting rails - Module 625										Price Category 21
Diffuser: plastic (polycarbonate), opal										
312573.002.790 *	L 622, B 622, HE 160, HEL 41	LED	840	4500...5550	31...40	21,3...22,0	on/off			
312574.002.76	L 622, B 622, HE 160, HEL 41	LED	840	4500	31	21,3	DALI			
312575.002.76	L 622, B 622, HE 160, HEL 41	LED	840	5550	40	22,0	DALI			
Diffuser plastic (polycarbonate) microprismatic										
312576.002.790 *	L 622, B 622, HE 160, HEL 41	LED	840	4100...5100	31...40	17,1...17,8	on/off			
312577.002.76	L 622, B 622, HE 160, HEL 41	LED	840	4100	31	17,1	DALI			
312578.002.76	L 622, B 622, HE 160, HEL 41	LED	840	5100	40	17,8	DALI			

* **MultiLumen version:** Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Accessories | Recessed mounting frame

Recessed mounting frame: sheet steel, powder-coated. For installation on suspended ceilings. Minimum recess depth: 300 mm.

Ceiling thickness: 1-30 mm

Mounting frame for installation in suspended ceilings				Price Category 21			
981941.002	L 624, B 624, H 2, HE 94	for module 600					
981942.002	L 649, B 649, H 2, HE 94	for module 625					

Comparison LED vs. conventional lamps

LED 31 W ≈

2 x 35 W T16 (75 W Psys)

2 x 39 W T16 (82 W Psys)

LED 40 W ≈

3 x 35 W T16 (113 W Psys)

3 x 39 W T16 (123 W Psys)



Rimless appearance.

MultiLumen: Adjustable luminous flux

312567.002.790		
Step	Luminous flux [lm]	System power [W]
	4000 K	
1	4550	31
2	4950	35
3	5300	38
4	5600	40

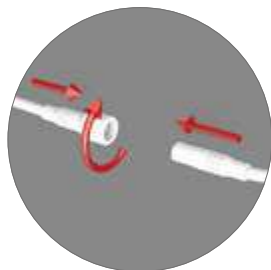
312570.002.790		
Step	Luminous flux [lm]	System power [W]
	4000 K	
1	4050	31
2	4400	35
3	4750	38
4	5000	40

312573.002.790		
Step	Luminous flux [lm]	System power [W]
	4000 K	
1	4500	31
2	4900	35
3	5250	38
4	5550	40

312576.002.790		
Step	Luminous flux [lm]	System power [W]
	4000 K	
1	4100	31
2	4500	35
3	4800	38
4	5100	40

KALEEA

Everything at a glance



External driver with simple
plug-in locking system

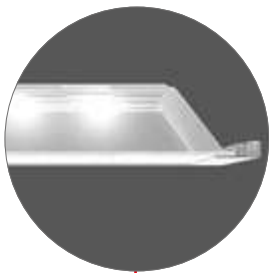


Luminaire frame: aluminium,
powder-coated

MultiLumen version:

The user can choose from four different luminous flux levels.
This can be reversibly set manually on the external control gear.





LED backlight technology for
homogeneous illumination of
the entire light-emitting surface

Ideal for office areas ($UGR \leq 19$) and
environments with computer screens
in accordance with DIN EN 12464-1



Diffusor made of
non-yellowing PMMA,
microprismatic

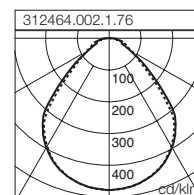


KALEEA

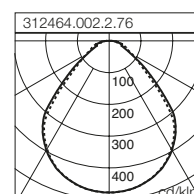
Lay-in luminaires

- Range of high-efficiency LED luminaires for interiors
- Ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1
- Extremely uniform appearance of the light-emitting surface
- **Diffusor** made of **non-yellowing PMMA**, microprismatic
- Luminous efficiency up to 137 lm/W
- LED rated life 50,000 h (L80)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- **MultiLumen**: 4 steps adjustable luminous flux
- Flicker < 5%
- External converter with simple plug-in locking system

312464.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



312464.002.2.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



Lay-in luminaires | Kaleea

Type of Protection: IP 20, **IP 40** on room side

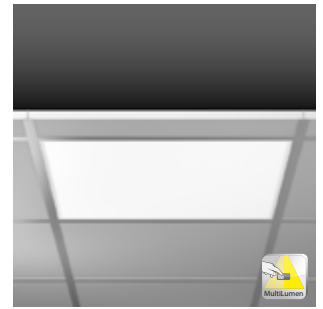
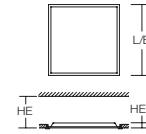
Protection Class: II

Impact Protection: IK02

Housing: sheet steel, powder-coated. Luminaire frame: aluminium, powder-coated. LED backlight technology for homogeneous illumination of the entire light-emitting surface. Diffuser made of non-yellowing plastic (PMMA) microprismatic. Suitable for use in environments with computer screens in accordance with EN 12464-1. External driver.

Available colour: 2 = white

MultiLumen version: 4 steps adjustable luminous flux. Factory-preset to step 2.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-able
Lay-in luminaires for grid ceilings - Module 600							
312463.002.1.790 .Q*	L 595, B 595, HE 160, HEL 33	LED	840	3100...4400	24...36	17,6...18,9	on/off
312463.002.1.76 .Q	L 595, B 595, HE 160, HEL 33	LED	840	3500	28	18,1	DALI
312463.002.2.76	L 595, B 595, HE 160, HEL 33	LED	840	4400	36	18,9	DALI
Lay-in luminaires for grid ceilings - Module 625							
312464.002.1.790 .Q*	L 620, B 620, HE 160, HEL 33	LED	840	3300...4600	24...36	17,5...18,7	on/off
312464.002.1.76 .Q	L 620, B 620, HE 160, HEL 33	LED	840	3700	28	17,9	DALI
312464.002.2.76	L 620, B 620, HE 160, HEL 33	LED	840	4600	36	18,7	DALI

* **MultiLumen version:** Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Accessories | Surface mounting frame

Surface mounting frame, white. Consists of 4 powder-coated extruded aluminum profiles and 4 plastic corner connectors.

Surface mounting frame			Price Category 21
982727.002	L 602, B 602, H 75	for module 600	
982728.002	L 627, B 627, H 75	for module 625	



Accessories | Through-wiring box

Pluggable converter add-on with 5 pins. Cable cross-sections of up to 5 x 1.5 mm² or 3 x 2.5 mm² possible. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

Through-wiring box DALI			Price Category 11
982703.002	L 98, B 55, H 28		



Accessories | Through-wiring box

Pluggable converter add-on for Kaleea on/off versions. Through-wiring possibility L-N-PE. Cable cross-section from 1.5 to 2.5 mm².

Through-wiring box ON/OFF			Price Category 21
982688.002	L 70, B 35, H 25		



MultiLumen: Adjustable luminous flux

312463.002.1.790		
Step	Luminous flux [lm] 4000 K	System power [W]
1	3100	24
2	3500	28
3	4000	32
4	4400	36

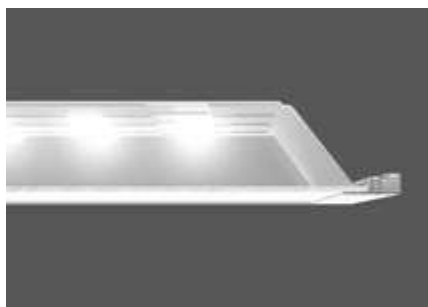
312464.002.1.790		
Step	Luminous flux [lm] 4000 K	System power [W]
1	3300	24
2	3700	28
3	4200	32
4	4600	36



KALEEA BASIC

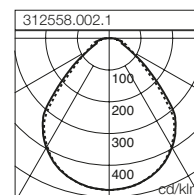
Lay-in luminaires

- Series of efficiency LED luminaires for interiors
- Ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1
- Extremely uniform appearance of the light-emitting surface
- Luminous efficiency up to 100 lm/W
- LED rated life 50,000 h (L80)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Flicker < 5%
- External converter with simple plug-in locking system

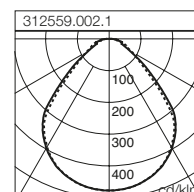


LED backlight technology for homogeneous illumination of the entire light-emitting surface

312558.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



312559.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



Lay-in luminaires | Kaleea Basic

Type of Protection: IP 20, **IP 40** on room side

Protection Class: II

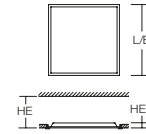
Impact Protection: IK03

Housing: sheet steel, powder-coated. Luminaire frame: aluminium, powder-coated.

LED backlight technology for homogeneous illumination of the entire light-emitting surface.

Diffuser in microprismatic plastic. Suitable for use in environments with computer screens in accordance with EN 12464-1. External driver.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Lay-in luminaires for grid ceilings - Module 600							
312558.002.1 .Q	L 595, B 595, HE 160, HEL 33	LED	840	3450	35	18,0	on/off
312558.002.1.76 .Q	L 595, B 595, HE 160, HEL 33	LED	840	3450	35	18,0	DALI
Lay-in luminaires for grid ceilings - Module 625							
312559.002.1 .Q	L 620, B 620, HE 160, HEL 33	LED	840	3600	36	17,8	on/off
312559.002.1.76 .Q	L 620, B 620, HE 160, HEL 33	LED	840	3600	36	17,8	DALI

Comparison LED vs. conventional lamps

LED 35 / 36 W ≈
3 x 24 W T16 (75 W Psys)

Accessories | Surface mounting frame

Surface mounting frame, white. Consists of 4 powder-coated extruded aluminum profiles and 4 plastic corner connectors.

Surface mounting frame				Price Category 21			
982727.002	L 602, B 602, H 75	for module 600					
982728.002	L 627, B 627, H 75	for module 625					



Accessories | Through-wiring box

Pluggable converter add-on with 5 pins. Cable cross-sections of up to 5 x 1.5 mm² or 3 x 2.5 mm² possible. Pre-installed 150-mm-long connecting cable with open cable ends for easy connection to the converter.

Through-wiring box DALI				Price Category 11			
982703.002	L 98, B 55, H 28						



Accessories | Through-wiring box

Pluggable converter add-on for Kaleea on/off versions. Through-wiring possibility L-N-PE. Cable cross-section from 1.5 to 2.5 mm².

Through-wiring box ON/OFF				Price Category 21			
982688.002	L 70, B 35, H 25						





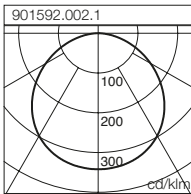
TOLEDO FLAT

Lay-in luminaires

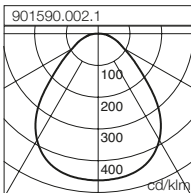
- Extension of the highly successful LED downlight range as recessed luminaire for grid ceilings
- Extra flat design
- **Diffuser** made of **non-yellowing PMMA**, opal matt or microprismatic
- LED rated life 50,000 h (L70/B10)
- Colour rendering index Ra > 80
- Colour consistency within 4-steps MacAdam (4 SDCM)

- Separate converter box with connecting cable
- DALI converter is compatible with DC, suitable for central battery system
- Retrofittable decorative cylinders made of chintz fabric as accessory, optional with satin finish polycarbonate diffuser
- Areas of application: Offices, meeting rooms, corridors, side rooms

901592.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	7



901590.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



Further luminaires of this series, see:
 Indoor lighting | Pendant luminaires
 Indoor lighting | Fabric lampshade luminaires
 Indoor lighting | Recessed downlights
 Indoor lighting | Surface mounted downlights
 Emergency lighting | Escape route illumination

Lay-in luminaires | Toledo Flat

Type of Protection: **IP 40**

Protection Class: II

Impact Protection: IK06

Recessed frame: sheet steel, powder-coated. Housing: die-cast aluminium. Diffuser made of non-yellowing PMMA, choice of opal matt or prismatic. Incl. separate LED converter with connecting cable 250 mm.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	α [°]	UGR	dimmable
Lay-in luminaires for grid ceilings - Module 600								
Diffuser: plastic (PMMA), opal								
901591.002	L 595, B 595, H 6, HE 43	LED	830	3550	30	113	23,9	on/off
901591.002.76	L 595, B 595, H 6, HE 43	LED	830	3550	30	113	23,9	DALI
901591.002.1	L 595, B 595, H 6, HE 43	LED	840	3600	30	113	23,9	on/off
901591.002.1.76	L 595, B 595, H 6, HE 43	LED	840	3600	30	113	23,9	DALI
Diffuser: plastic (PMMA), transparent microprismatic								
901589.002	L 595, B 595, H 6, HE 43	LED	830	3450	30	88	21,1	on/off
901589.002.76	L 595, B 595, H 6, HE 43	LED	830	3450	30	88	21,1	DALI
901589.002.1	L 595, B 595, H 6, HE 43	LED	840	3550	30	88	21,4	on/off
901589.002.1.76	L 595, B 595, H 6, HE 43	LED	840	3550	30	88	21,4	DALI

Price Category 21

Comparison LED vs. conventional lamps

LED 30 W ≈

3 x 26 W TC-D (102 W Psys)

4 x 14 W T16 (68 W Psys)

4 x 18 W T26 (104 W Psys)

Lay-in luminaires for grid ceilings - Module 625								
Diffuser: plastic (PMMA), opal								
901592.002	L 622, B 622, H 6, HE 43	LED	830	3550	30	113	23,9	on/off
901592.002.76	L 622, B 622, H 6, HE 43	LED	830	3550	30	113	23,9	DALI
901592.002.1	L 622, B 622, H 6, HE 43	LED	840	3600	30	113	23,9	on/off
901592.002.1.76	L 622, B 622, H 6, HE 43	LED	840	3600	30	113	23,9	DALI
Diffuser: plastic (PMMA), transparent microprismatic								
901590.002	L 622, B 622, H 6, HE 43	LED	830	3450	30	88	21,1	on/off
901590.002.76	L 622, B 622, H 6, HE 43	LED	830	3450	30	88	21,1	DALI
901590.002.1	L 622, B 622, H 6, HE 43	LED	840	3550	30	88	21,4	on/off
901590.002.1.76	L 622, B 622, H 6, HE 43	LED	840	3550	30	88	21,4	DALI

Price Category 21

Accessories | Chintz decorative element Toledo Flat Round

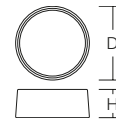
Standard colour covering surface: 66.8003.01 white

Further colours (see page 347) available at the same price.

Please include the colour code in your order.

Can be retrofitted without tools to the recessed downlight.

Please be aware of possible increased freight charges for deliveries outside of Germany.



with diffuser



without diffuser

Chintz lampshades			Price Category 21
982323.002	D 500, H 60	Chintz decorative cylinder for Toledo Flat Round D 495	

Cannot be fitted with surface mount housing

Satin finish polycarbonate diffuser (optional)			Price Category 21
Can be installed on the decorative element without any tools			
982328.002	D 498, H 4	Accessories for chintz decorative cylinder D 500	

Diffusers with Chintz fabric in all colours on request.



Colour chart Chintz lampshades			Price Category 21
W06630	Chintz lampshades are available in more than 70 different colours		



For other versions and colour table with over 70 colours, see the chapter on fabric lampshade luminaires.

SONIS EVO

Everything at a glance

Darklight reflector

Narrow beam, brilliant
luminous effect

Housing: metal,
powder-coated

4 types of installation

recessed
lay-in
surface mounted
pendant (with accessories)

5 sizes

Module 300
Module 600/625
Module 1200/1250

Module 1200/1250:
single row and double row
Alea optical system

Recessed version also available as an emergency luminaire in accordance with EN 60598-2-22



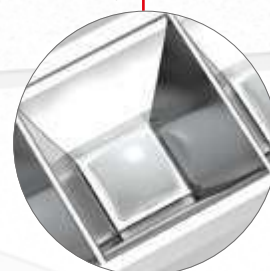
Automatic self test in all standard versions

Wide luminaire spacing for escape routes

Alea optical system:
Reflector structure (ABS, Aluminium-coated, highly polished) with diffuser made of non-yellowing plastic (PMMA) opal for glare-free light at the workstation (screen-compliant according to EN 12464-1).



UGR ≤ 19



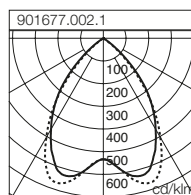


SONIS EVO

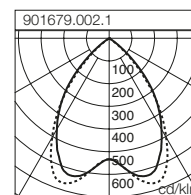
Recessed ceiling luminaires, Lay-in luminaires

- Highly efficient LED luminaire
- Suitable for installation in grid ceilings with visible mounting tracks module 600/625
- **Alea optical system:** ideal for office areas (UGR ≤ 19) and computer workstations in accordance with EN 12464-1
- Darklight reflector
- Narrow beam, brilliant luminous effect
- LED rated life 50,000 h (L80/B10)
- Luminous efficiency up to 133 lm/W

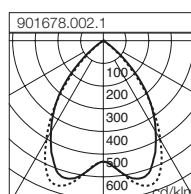
901677.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



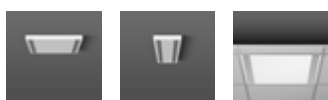
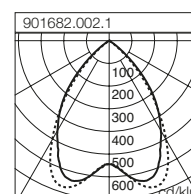
901679.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



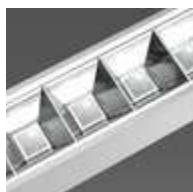
901678.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



901682.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	2	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	2	3



Further luminaires of this series, see:
Indoor lighting | Surface mounted modular luminaires
Emergency lighting | Escape route illumination



ALEA OPTICAL SYSTEM

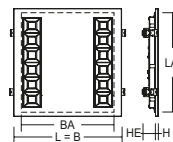
A brilliant example of the power of innovation: The Alea optical system in the Sonis EVO combines square reflector elements with a linear structure. The integrated opal diffuser reduces direct glare, ensures excellent light quality and protects the highly efficient LEDs.

Recessed ceiling luminaires | Sonis EVO

Type of Protection: IP 20
Protection Class: I, II
Ceiling thickness: 1-20 mm
Impact Protection: IK03

Housing: metal, powder-coated. **Alea optical system:** Reflector structure (ABS, Aluminium-coated, highly polished) with diffuser made of non-yellowing plastic (PMMA) opal for glare-free light at the workstation (screen-compliant according to EN 12464-1). Converter integrated, DALI converter external (height 32 mm). Springs for recessed ceiling installation are included. ON / OFF versions suitable for through wiring as standard (DALI not).

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-able	
Recessed ceiling luminaires								Price Category 21
cut out LA 280 x BA 255 mm								
901638.002.1	L 295, B 295, H 8, HE 37	LED	840	1500	12	18,5	on/off	
901638.002.1.76	L 295, B 295, H 8, HE 37	LED	840	1500	12	18,5	DALI	
901639.002.1	L 295, B 295, H 8, HE 37	LED	840	2000	16	19,5	on/off	
901639.002.1.76	L 295, B 295, H 8, HE 37	LED	840	2000	16	19,5	DALI	

Mounting frame for installation in suspended ceilings Ceiling thickness: 1-25 mm								Price Category 21
981987.012	L 324, B 324, H 2, HE 51	Recessed mounting frame: sheet steel, powder-coated, white.						

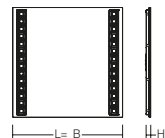
Surface mounting frame								Price Category 21
982357.012	L 300, B 300, H 47	Mounting frame: sheet steel, powder-coated, white.						

Lay-in luminaires | Sonis EVO

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK03

Housing: metal, powder-coated. **Alea optical system:** Reflector structure (ABS, Aluminium-coated, highly polished) with diffuser made of non-yellowing plastic (PMMA) opal for glare-free light at the workstation (screen-compliant according to EN 12464-1). Converter integrated, DALI converter external (height 32 mm). Suitable for through-wiring.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-able	
Lay-in luminaires for grid ceilings - Module 600								Price Category 21
901677.002.1	L 596, B 596, HE 27	LED	840	3450	26	18,5	on/off	✓
901677.002.1.76	L 596, B 596, HE 27	LED	840	3450	26	18,4	DALI	

Lay-in luminaires for grid ceilings - Module 625								Price Category 21
901678.002.1	L 621, B 621, HE 27	LED	840	3450	26	18,5	on/off	✓
901678.002.1.76	L 621, B 621, HE 27	LED	840	3450	26	18,4	DALI	

Accessories | Recessed mounting frame

Recessed mounting frame: sheet steel, powder-coated. For installation on suspended ceilings. Minimum recess depth: 300 mm.
Ceiling thickness: 1-30 mm

Mounting frame for installation in suspended ceilings								Price Category 21
981941.002	L 624, B 624, H 2, HE 94	for module 600						
981942.002	L 649, B 649, H 2, HE 94	for module 625						

Accessories | Surface mounting frame

Mounting frame: sheet steel, powder-coated, white.

Surface mounting frame								Price Category 21
982187.012	L 602, B 602, H 47	for module 600						
982292.002	L 627, B 627, H 47	for module 625						

Accessories | Pendant frame

Pendant frame with steel cable suspension and supply cable. Pendant frame: powder-coated metal, white.

Pendant frame								Price Category 21
982290.012	L 602, B 602, H 33, LP 1500	for module 600						
982291.002	L 627, B 627, H 33, LP 1500	for module 625						



Comparison LED vs. conventional lamps

LED 12 W ≈
2 x 18 W TC-D (52 W Psys)

LED 16 W ≈
2 x 26 W TC-D (68 W Psys)

Comparison LED vs. conventional lamps

LED 26 W ≈
4 x 14 W T16 (68 W Psys)
4 x 18 W T26 (104 W Psys)



Comparison LED vs. conventional lamps

LED 26 W ≈

1 x 49 W T16 (53 W Psys)
1 x 58 W T26 (67 W Psys)

LED 50 W ≈

2 x 49 W T16 (106 W Psys)
2 x 58 W T26 (134 W Psys)



double row Alea optical system

Lay-in luminaires | Sonis EVO

Type of Protection: IP 20

Protection Class: I

Impact Protection: IK03

Housing: metal, powder-coated. **Alea optical system:** Reflector structure (ABS, Aluminium-coated, highly polished) with diffuser made of non-yellowing plastic (PMMA) opal for glare-free light at the workstation (screen-compliant according to EN 12464-1). Converter integrated, DALI converter external (height 32 mm). Suitable for through-wiring.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Lay-in luminaires for grid ceilings - Module 1200							
single row Alea optical system							
901679.002.1	L 1197, B 297, HE 27	LED	840	3450	26	18,5	on/off
901679.002.1.76	L 1197, B 297, HE 27	LED	840	3450	26	18,5	DALI
double row Alea optical system							
901680.002.1	L 1197, B 297, HE 27	LED	840	6500	50	18,6	on/off
901680.002.1.76	L 1197, B 297, HE 27	LED	840	6500	50	18,7	DALI

Price Category 21

Lay-in luminaires for grid ceilings - Module 1250							
single row Alea optical system							
901681.002.1	L 1247, B 310, HE 27	LED	840	3450	26	18,5	on/off
901681.002.1.76	L 1247, B 310, HE 27	LED	840	3450	26	18,4	DALI
double row Alea optical system							
901682.002.1	L 1247, B 310, HE 27	LED	840	6500	50	18,6	on/off
901682.002.1.76	L 1247, B 310, HE 27	LED	840	6500	50	18,7	DALI

Price Category 21

Accessories | Recessed mounting frame

Recessed mounting frame: sheet steel, powder-coated, white. For installation on suspended ceilings. Minimum recess depth: 300 mm. Ceiling thickness: 1-30 mm

Mounting frame for installation in suspended ceilings			Price Category 21
982106.002	L 1224, B 324, H 2, HE 94	for module 1200	
982426.002	L 1274, B 337, H 2, HE 94	for module 1250	

Accessories | Surface mounting frame

Mounting frame: sheet steel, powder-coated, white.

Surface mounting frame			Price Category 21
982190.012	L 1202, B 302, H 47	for module 1200, single row Alea optical system	
982190.032	L 1202, B 302, H 47	for module 1200, double row Alea optical system	
982295.012	L 1252, B 315, H 47	for module 1250, single row Alea optical system	
982295.022	L 1252, B 315, H 47	for module 1250, double row Alea optical system	

Accessories | Pendant frame

Pendant frame with steel cable suspension and supply cable. Pendant frame: powder-coated metal, white.

Pendant frame			Price Category 21
982293.012	L 1202, B 302, H 33, LP 1500	for module 1200	
982294.002	L 1252, B 315, H 33, LP 1500	for module 1250	





The application image shows:
Sidelite FerroMurano
Sidelite ECO



Triona
56-61

Sidelite
Sidelite Round
62-67

Sidelite ECO
68-71

Sonis EVO
72-73

Sonis A
74-75

TRIONA®

Everything at a glance

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / i OS devices, free app available for download



Diffuser plastic opal/microprismatic: ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1

3 different colours are available for the very flat and seamless extruded aluminium profile

Special colors on request



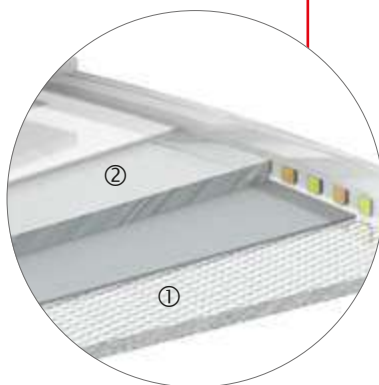
Tunable white versions, dynamically adjustable from 2700 K to 6500 K

Ideal for use as part of a Human Centric Lighting concept

RZB SIDELITE® technology: lateral light injection for extremely homogeneous light distribution and rimless illumination

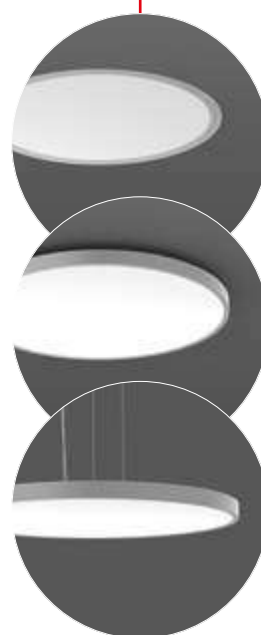
Direct light emission through diffuser

Diffusers ① and lightguide ② made of **non-yellowing PMMA**



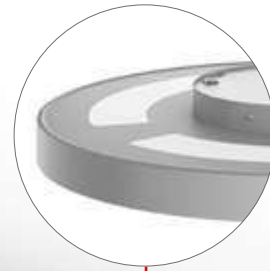
3 types of installation

recessed
surface mounted
pendant





Very easy plug-in installation (Quick connector)
Mounting without use of tools, with bayonet fitting



Indirect light emission through **non-yellowing plastic (PMMA) diffuser**, satin finish.

4 sizes

Ø 461 mm, Ø 681 mm
Ø 845 mm, Ø 1009 mm



2 light emission characteristics

direct
direct/indirect



3 diffusers

Plastic (PMMA), opal
Plastic (PMMA) opal/micropismatic
Glass FerroMurano





TRIONA®

Ceiling and wall luminaires

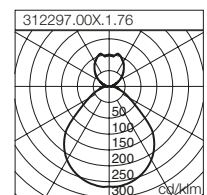
- This lighting fixture's prismatic plastic diffuser is incorporated into an aluminium profile just 50 mm thick
- Lateral light emission with LED
- Direct or direct/indirect light emission
- Tool-free mounting
- Very easy installation thanks to plug & play connection
- Various design possibilities of the distinctive large surface luminaire:
 - hand-crafted FerroMurano glass inserts
 - opal diffuser
 - opal/micropismatic diffuser

- **Lightguide** and plastic **diffuser** made of **non-yellowing PMMA**
- Ideal for office areas (UGR ≤ 19) and environments with computer screens in accordance with EN 12464-1
- LED rated life 50,000 h (L70/B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Tunable white versions dynamically adjustable from 2700 K to 6500 K
- Ideal for use as part of a Human Centric Lighting concept
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download

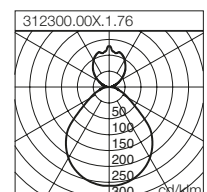


Further luminaires of this series, see:
Indoor lighting | Recessed modular luminaires
Indoor lighting | Suspended modular luminaires

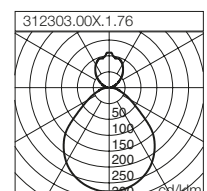
312297.00X.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	2	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4



312300.00X.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	1	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
1	2	3



312303.00X.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	1	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
1	2	2



Ceiling and wall luminaires | Triona

Type of Protection: IP 20

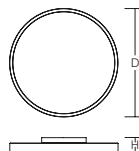
Protection Class: I

Impact Protection: IK03

Frame: aluminium, powder-coated. Cover: sheet steel, powder-coated. Lateral light emission for direct illumination through non-yellowing plastic (PMMA) opal/micro-prismatic diffuser (screen-compliant in accordance with EN-12464-1). Indirect light emission through non-yellowing plastic (PMMA) diffuser, satin finish. Tool-free mounting via bayonet connection. Integral driver.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable	Price Category 21
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Ceiling and wall luminaires - Direct light emission

Diameter D 461 mm

312423.00X.76	D 461, H 88	LED	830	2950	30	20,5	DALI	
312423.00X.730	D 461, H 88	LED	830	2950	30	20,5	smart+free	
312423.00X.1.76	D 461, H 88	LED	840	3050	30	20,6	DALI	
312423.00X.1.730	D 461, H 88	LED	840	3050	30	20,6	smart+free	

Tunable White - 2700 K to 6500 K

312423.00X.2.76	D 461, H 88	LED	827-865	2550	29	20,0	DALI	
312423.00X.2.730	D 461, H 88	LED	827-865	2550	29	20,0	smart+free	

Diameter D 681 mm

312296.00X.76	D 681, H 88	LED	830	3550	33	18,5	DALI	
312296.00X.730	D 681, H 88	LED	830	3550	33	18,5	smart+free	
312296.00X.1.76	D 681, H 88	LED	840	3700	33	18,7	DALI	
312296.00X.1.730	D 681, H 88	LED	840	3700	33	18,7	smart+free	

Tunable White - 2700 K to 6500 K

312296.00X.2.76	D 681, H 88	LED	827-865	3400	40	17,9	DALI	
312296.00X.2.730	D 681, H 88	LED	827-865	3400	40	17,9	smart+free	

Diameter D 845 mm

312299.00X.76	D 845, H 88	LED	830	7600	70	19,2	DALI	
312299.00X.730	D 845, H 88	LED	830	7600	70	19,2	smart+free	
312299.00X.1.76	D 845, H 88	LED	840	7900	70	19,3	DALI	
312299.00X.1.730	D 845, H 88	LED	840	7900	70	19,3	smart+free	

Tunable White - 2700 K to 6500 K

312299.00X.2.76	D 845, H 88	LED	827-865	4800	49	17,8	DALI	
312299.00X.2.730	D 845, H 88	LED	827-865	4800	49	17,8	smart+free	

Diameter D 1009 mm

312302.00X.76	D 1009, H 88	LED	830	8850	89	18,7	DALI	
312302.00X.730	D 1009, H 88	LED	830	8850	89	18,7	smart+free	
312302.00X.1.76	D 1009, H 88	LED	840	9200	89	18,8	DALI	
312302.00X.1.730	D 1009, H 88	LED	840	9200	89	18,8	smart+free	

Tunable White - 2700 K to 6500 K

312302.00X.2.76	D 1009, H 88	LED	827-865	5700	61	16,7	DALI	
312302.00X.2.730	D 1009, H 88	LED	827-865	5700	61	16,7	smart+free	

Ceiling and wall luminaires - Direct 70% - indirect30% light emission

Diameter D 461 mm

312424.00X.76	D 461, H 88	LED	830	3500	40	19,2	DALI	
312424.00X.730	D 461, H 88	LED	830	3500	40	19,2	smart+free	
312424.00X.1.76	D 461, H 88	LED	840	3650	40	19,3	DALI	
312424.00X.1.730	D 461, H 88	LED	840	3650	40	19,3	smart+free	

Tunable White - 2700 K to 6500 K

312424.00X.2.76	D 461, H 88	LED	827-865	3100	38	18,8	DALI	
312424.00X.2.730	D 461, H 88	LED	827-865	3100	38	18,8	smart+free	

Diameter D 681 mm

312297.00X.76	D 681, H 88	LED	830	6300	68	17,4	DALI	
312297.00X.730	D 681, H 88	LED	830	6300	68	17,4	smart+free	
312297.00X.1.76	D 681, H 88	LED	840	6550	68	17,5	DALI	
312297.00X.1.730	D 681, H 88	LED	840	6550	68	17,5	smart+free	

Tunable White - 2700 K to 6500 K

312297.00X.2.76	D 681, H 88	LED	827-865	4650	61	16,0	DALI	
312297.00X.2.730	D 681, H 88	LED	827-865	4650	61	16,0	smart+free	

Diameter D 845 mm

312300.00X.76	D 845, H 88	LED	830	10000	110	16,9	DALI	
312300.00X.730	D 845, H 88	LED	830	10000	110	16,9	smart+free	
312300.00X.1.76	D 845, H 88	LED	840	10400	110	17,0	DALI	
312300.00X.1.730	D 845, H 88	LED	840	10400	110	17,0	smart+free	

Tunable White - 2700 K to 6500 K

312300.00X.2.76	D 845, H 88	LED	827-865	6900	76	15,8	DALI	
312300.00X.2.730	D 845, H 88	LED	827-865	6900	76	15,8	smart+free	

Diameter D 1009 mm

312303.00X.76	D 1009, H 88	LED	830	11900	122	16,9	DALI	
312303.00X.730	D 1009, H 88	LED	830	11900	122	16,9	smart+free	
312303.00X.1.76	D 1009, H 88	LED	840	12400	122	17,1	DALI	
312303.00X.1.730	D 1009, H 88	LED	840	12400	122	17,1	smart+free	

Tunable White - 2700 K to 6500 K

312303.00X.2.76	D 1009, H 88	LED	827-865	7450	85	15,1	DALI	
312303.00X.2.730	D 1009, H 88	LED	827-865	7450	85	15,1	smart+free	

Light colour 827 on request.

Comparison LED vs. conventional lamps

LED 29 / 30 W ≈

1 x 55 W T16-R (60 W Psys)

LED 33 / 38 / 40 W ≈

1 x 60 W T16-R (65 W Psys)

LED 49 / 61 W ≈

4 x 26 W TC-D (136 W Psys)

LED 61 W ≈

3 x 42 W TC-TEL (137 W Psys)

LED 68 / 70 / 76 / 89 W ≈

4 x 42 W TC-TEL (180 W Psys)

LED 85 W ≈

3 x 57 W TC-TEL (175 W Psys)

LED 110 / 122 W ≈

4 x 57 W TC-TEL (232 W Psys)



Diffuser: plastic (PMMA) opal/microprismatic



Applies to versions with .76

Comparison

LED vs. conventional lamps

LED 29 W ≈

1 x 55 W T16-R (60 W Psys)

LED 38 / 40 W ≈

1 x 60 W T16-R (65 W Psys)

LED 49 / 51 / 61 W ≈

4 x 26 W TC-D (136 W Psys)

LED 61 / 68 W ≈

3 x 42 W TC-TEL (137 W Psys)

LED 74 / 76 / 85 / 113 W ≈

4 x 42 W TC-TEL (180 W Psys)

LED 85 W ≈

3 x 57 W TC-TEL (175 W Psys)

LED 113 / 141 W ≈

4 x 57 W TC-TEL (232 W Psys)

LED 158 W ≈

6 x 57 W TC-TEL (348 W Psys)



Diffuser: plastic (PMMA), opal

Ceiling and wall luminaires | Triona

Type of Protection: IP 20

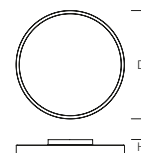
Protection Class: I

Impact Protection: IK03

Frame: aluminium, powder-coated. Cover: sheet steel, powder-coated. Lateral light emission for direct illumination through non-yellowing plastic (PMMA) opal diffuser. Indirect light emission through non-yellowing plastic (PMMA) diffuser, satin finish. Tool-free mounting via bayonet connection. Integral driver.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimming
Ceiling and wall luminaires - Direct light emission							Price Category 21
Diameter D 461 mm							
312419.00X.76	D 461, H 88	LED	830	4400	51	24,2	DALI
312419.00X.730	D 461, H 88	LED	830	4400	51	24,2	smart+free
312419.00X.1.76	D 461, H 88	LED	840	4600	51	24,4	DALI
312419.00X.1.730	D 461, H 88	LED	840	4600	51	24,4	smart+free
Tunable White - 2700 K to 6500 K							
312419.00X.2.76	D 461, H 88	LED	827-865	2350	29	22,1	DALI
312419.00X.2.730	D 461, H 88	LED	827-865	2350	29	22,1	smart+free
Diameter D 681 mm							
312383.00X.76	D 681, H 88	LED	830	6100	74	22,4	DALI
312383.00X.730	D 681, H 88	LED	830	6100	74	22,4	smart+free
312383.00X.1.76	D 681, H 88	LED	840	6350	74	22,5	DALI
312383.00X.1.730	D 681, H 88	LED	840	6350	74	22,5	smart+free
Tunable White - 2700 K to 6500 K							
312383.00X.2.76	D 681, H 88	LED	827-865	3200	40	20,0	DALI
312383.00X.2.730	D 681, H 88	LED	827-865	3200	40	20,0	smart+free
Diameter D 845 mm							
312387.00X.76	D 845, H 88	LED	830	7550	85	21,5	DALI
312387.00X.730	D 845, H 88	LED	830	7550	85	21,5	smart+free
312387.00X.1.76	D 845, H 88	LED	840	7850	85	21,6	DALI
312387.00X.1.730	D 845, H 88	LED	840	7850	85	21,6	smart+free
Tunable White - 2700 K to 6500 K							
312387.00X.2.76	D 845, H 88	LED	827-865	4550	49	19,6	DALI
312387.00X.2.730	D 845, H 88	LED	827-865	4550	49	19,6	smart+free
Diameter D 1009 mm							
312391.00X.76	D 1009, H 88	LED	830	10600	113	21,4	DALI
312391.00X.730	D 1009, H 88	LED	830	10600	113	21,4	smart+free
312391.00X.1.76	D 1009, H 88	LED	840	11000	113	21,5	DALI
312391.00X.1.730	D 1009, H 88	LED	840	11000	113	21,5	smart+free
Tunable White - 2700 K to 6500 K							
312391.00X.2.76	D 1009, H 88	LED	827-865	5450	61	19,0	DALI
312391.00X.2.730	D 1009, H 88	LED	827-865	5450	61	19,0	smart+free

Ceiling and wall luminaires - Direct 70% - indirect 30% light emission							Price Category 21
Diameter D 461 mm							
312420.00X.76	D 461, H 88	LED	830	5500	68	23,0	DALI
312420.00X.730	D 461, H 88	LED	830	5500	68	23,0	smart+free
312420.00X.1.76	D 461, H 88	LED	840	5700	68	23,2	DALI
312420.00X.1.730	D 461, H 88	LED	840	5700	68	23,2	smart+free
Tunable White - 2700 K to 6500 K							
312420.00X.2.76	D 461, H 88	LED	827-865	2900	38	20,8	DALI
312420.00X.2.730	D 461, H 88	LED	827-865	2900	38	20,8	smart+free
Diameter D 681 mm							
312384.00X.76	D 681, H 88	LED	830	8750	113	20,5	DALI
312384.00X.730	D 681, H 88	LED	830	8750	113	20,5	smart+free
312384.00X.1.76	D 681, H 88	LED	840	9100	113	20,6	DALI
312384.00X.1.730	D 681, H 88	LED	840	9100	113	20,6	smart+free
Tunable White - 2700 K to 6500 K							
312384.00X.2.76	D 681, H 88	LED	827-865	4400	61	18,0	DALI
312384.00X.2.730	D 681, H 88	LED	827-865	4400	61	18,0	smart+free
Diameter D 845 mm							
312388.00X.76	D 845, H 88	LED	830	11700	141	19,6	DALI
312388.00X.730	D 845, H 88	LED	830	11700	141	19,6	smart+free
312388.00X.1.76	D 845, H 88	LED	840	12200	141	19,8	DALI
312388.00X.1.730	D 845, H 88	LED	840	12200	141	19,8	smart+free
Tunable White - 2700 K to 6500 K							
312388.00X.2.76	D 845, H 88	LED	827-865	6550	76	17,8	DALI
312388.00X.2.730	D 845, H 88	LED	827-865	6550	76	17,8	smart+free
Diameter D 1009 mm							
312392.00X.76	D 1009, H 88	LED	830	14400	158	19,6	DALI
312392.00X.730	D 1009, H 88	LED	830	14400	158	19,6	smart+free
312392.00X.1.76	D 1009, H 88	LED	840	15000	158	19,8	DALI
312392.00X.1.730	D 1009, H 88	LED	840	15000	158	19,8	smart+free
Tunable White - 2700 K to 6500 K							
312392.00X.2.76	D 1009, H 88	LED	827-865	7050	85	16,8	DALI
312392.00X.2.730	D 1009, H 88	LED	827-865	7050	85	16,8	smart+free

Light colour 827 on request.

Ceiling and wall luminaires | Triona FerroMurano

Type of Protection: IP 20

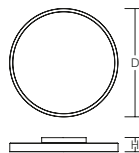
Protection Class: I

Impact Protection: IK03

Frame: aluminium, powder-coated. Cover: sheet steel, powder-coated. Lateral light emission for direct illumination through handmade FerroMurano coloured glass. Indirect light emission through non-yellowing plastic (PMMA) diffuser, satin finish. Tool-free mounting via bayonet connection. Integral driver.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic

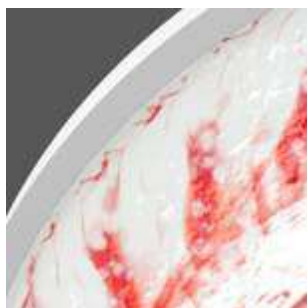
Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



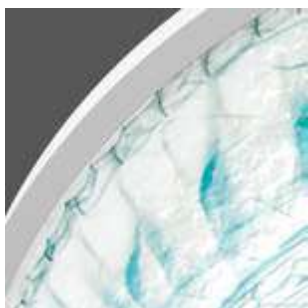
Applies to versions with .76

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Ceiling and wall luminaires - Direct 70% - indirect 30% light emission						
Glass FerroMurano red						
Diameter D 461 mm						
312411.00X.76	D 461, H 88	LED	830	2450	40	DALI
312411.00X.730	D 461, H 88	LED	830	2450	40	smart+free
312411.00X.1.76	D 461, H 88	LED	840	2550	40	DALI
312411.00X.1.730	D 461, H 88	LED	840	2550	40	smart+free
Diameter D 681 mm						
312291.00X.76	D 681, H 88	LED	830	4300	68	DALI
312291.00X.730	D 681, H 88	LED	830	4300	68	smart+free
312291.00X.1.76	D 681, H 88	LED	840	4450	68	DALI
312291.00X.1.730	D 681, H 88	LED	840	4450	68	smart+free
Glass FerroMurano blue						
Diameter D 461 mm						
312412.00X.76	D 461, H 88	LED	830	2800	40	DALI
312412.00X.730	D 461, H 88	LED	830	2800	40	smart+free
312412.00X.1.76	D 461, H 88	LED	840	2950	40	DALI
312412.00X.1.730	D 461, H 88	LED	840	2950	40	smart+free
Diameter D 681 mm						
312292.00X.76	D 681, H 88	LED	830	5150	68	DALI
312292.00X.730	D 681, H 88	LED	830	5150	68	smart+free
312292.00X.1.76	D 681, H 88	LED	840	5350	68	DALI
312292.00X.1.730	D 681, H 88	LED	840	5350	68	smart+free
Glass FerroMurano white						
Diameter D 461 mm						
312410.00X.76	D 461, H 88	LED	830	3150	40	DALI
312410.00X.730	D 461, H 88	LED	830	3150	40	smart+free
312410.00X.1.76	D 461, H 88	LED	840	3300	40	DALI
312410.00X.1.730	D 461, H 88	LED	840	3300	40	smart+free
Diameter D 681 mm						
312290.00X.76	D 681, H 88	LED	830	5800	68	DALI
312290.00X.730	D 681, H 88	LED	830	5800	68	smart+free
312290.00X.1.76	D 681, H 88	LED	840	6000	68	DALI
312290.00X.1.730	D 681, H 88	LED	840	6000	68	smart+free

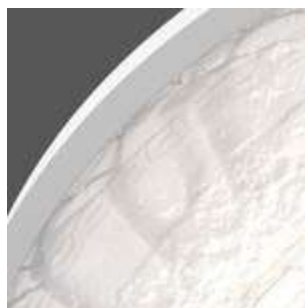
The luminaire flux of each luminaire varies due to the difference in colour intensity and structure of the glasses.
Light colour 827 on request.



Glass FerroMurano red



Glass FerroMurano blue



Glass FerroMurano white



Further information on coloured FerroMurano glass as well as an overview of additional FerroMurano RZB luminaires can be found on page 280 of this catalogue or at www.rzb-lighting.com

SIDELITE®

Everything at a glance



Ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with DIN EN 12464-1



Tunable white versions, dynamically adjustable from 2700 K to 6500 K
Ideal for use as part of a Human Centric Lighting concept

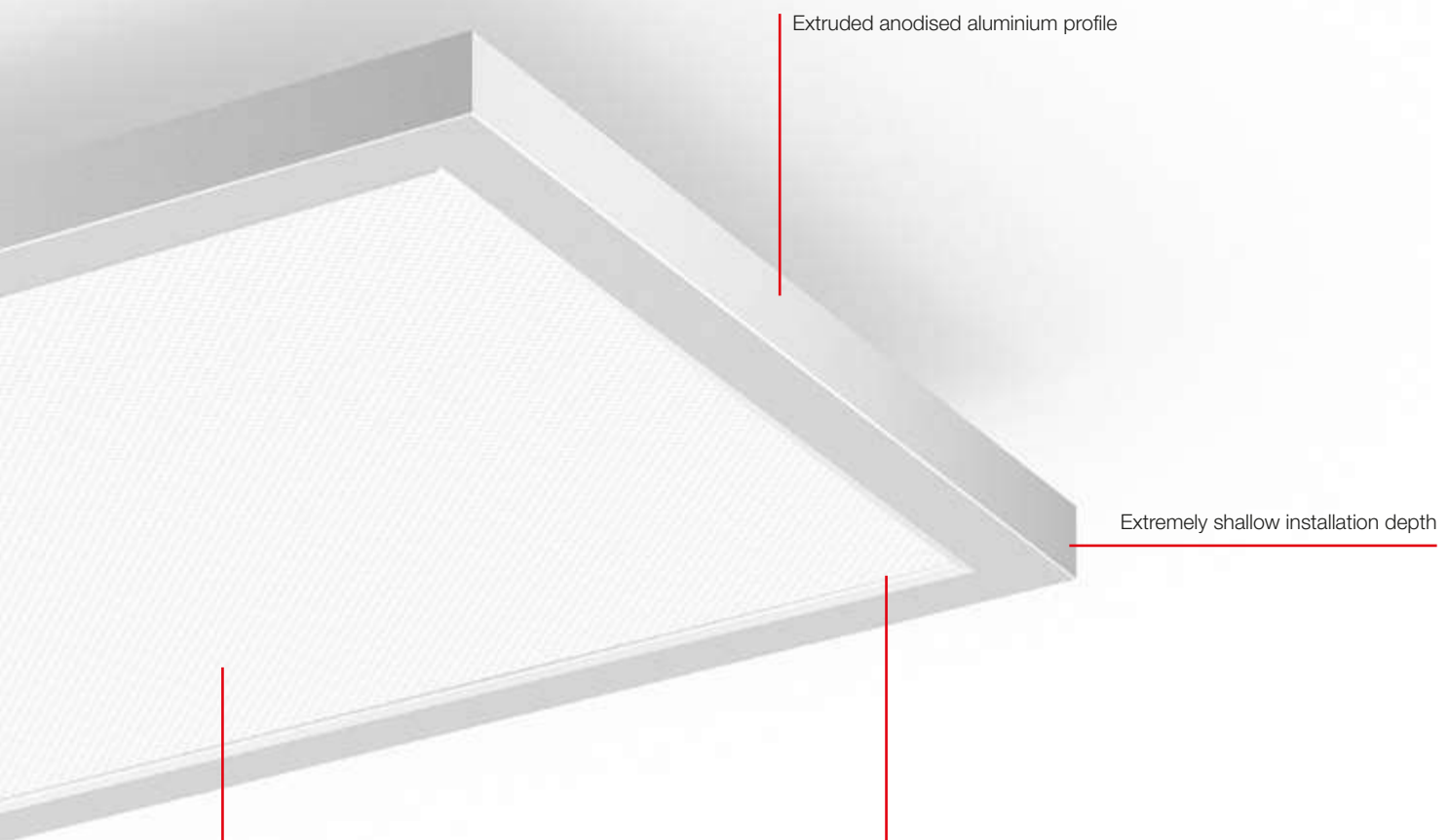


Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download



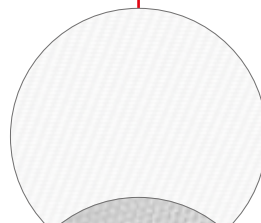
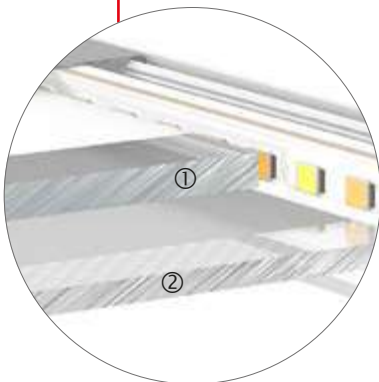
Easy plug-in installation (Quick-Connector)





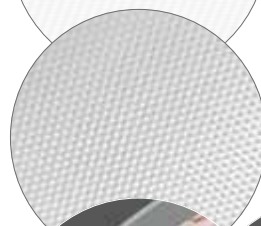
RZB SIDELITE® technology:
lateral light injection for extremely
homogeneous light distribution

Diffusers ② and **lightguide** ①
made of **non-yellowing PMMA**



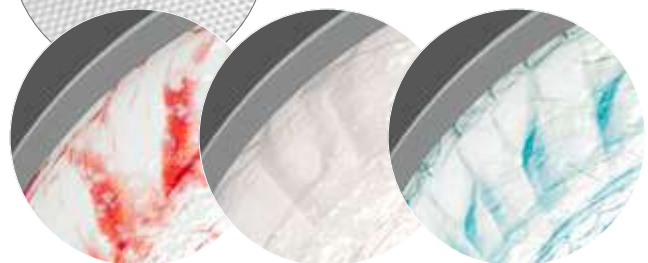
Sidelite:

Light control using plastic diffuser
with fine microstructure



Sidelite Round:

Light control using plastic
diffuser, opal/micropismatic
or FerroMurano glass



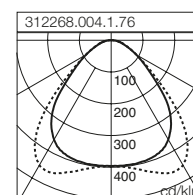


SIDELITE®

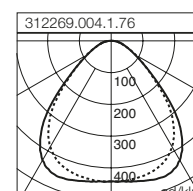
Ceiling and wall luminaires

- Aesthetically pleasing low profile luminaires that integrate advanced LED technology
- RZB SIDELITE® technology: lateral light injection for extremely homogeneous light distribution
- **Lightguide** and plastic **diffuser** made of **non-yellowing PMMA**
- Ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1
- Very easy installation thanks to plug & play connection
- LED rated life 50,000 h (L70/B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download

312268.004.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



312269.004.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



Further luminaires of this series, see:
 Indoor lighting | Suspended modular luminaires
 Indoor lighting | Free-standing luminaires

Ceiling and wall luminaires | Sidelite

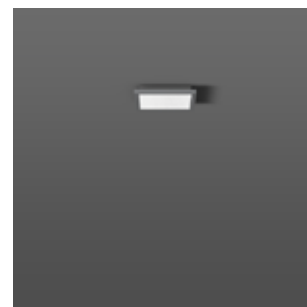
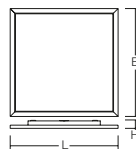
Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK03

Base: metal, powder-coated. Frame: extruded anodised aluminium profile. Lightguide and diffuser made of non-yellowing plastic (PMMA). Diffuser with microstructure (Suitable for use in environments with computer screens in accordance with EN 12464-1). Integral driver. Lateral light emission thanks to LED.

Available colour: 4 = aluminium, anodised



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Ceiling and wall luminaires							
							Price Category 21
312267.004	L 298, B 298, H 49	LED	830	1950	20	21,1	on/off
312267.004.76	L 298, B 298, H 49	LED	830	1950	20	21,1	DALI
312267.004.1	L 298, B 298, H 49	LED	840	2150	20	21,3	on/off
312267.004.1.76	L 298, B 298, H 49	LED	840	2150	20	21,3	DALI

Comparison LED vs. conventional lamps

LED 20 W ≈

2 x 26 W TC-D (68 W Psys)

Ceiling and wall luminaires | Sidelite

Type of Protection: **IP 40**

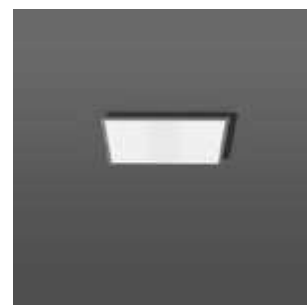
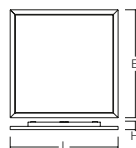
Protection Class: I

Impact Protection: IK03

Base: metal, powder-coated. Frame: extruded anodised aluminium profile. Lightguide and diffuser made of non-yellowing plastic (PMMA). Diffuser with microstructure (Suitable for use in environments with computer screens in accordance with EN 12464-1). Integral driver. Lateral light emission thanks to LED.

Available colour: 4 = aluminium, anodised

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Ceiling and wall luminaires							
							Price Category 21
312268.004	L 598, B 598, H 49	LED	830	3800	33	18,1	on/off
312268.004.76	L 598, B 598, H 49	LED	830	3800	33	18,1	DALI
312268.004.1	L 598, B 598, H 49	LED	840	4300	33	18,9	on/off
312268.004.1.76	L 598, B 598, H 49	LED	840	4300	33	18,9	DALI
Tunable White - 2700 K to 6500 K							
312268.004.2.730	L 598, B 598, H 49	LED	827-865	2800	28	17,0	smart+free

Comparison LED vs. conventional lamps

LED 28 W ≈

4 x 14 W T16 (68 W Psys)

3 x 24 W T16 (75 W Psys)

LED 33 W ≈

4 x 24 W T16 (98 W Psys)

Ceiling and wall luminaires | Sidelite

Type of Protection: **IP 40**

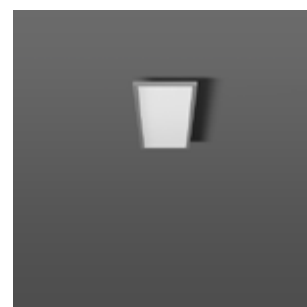
Protection Class: I

Impact Protection: IK03

Base: metal, powder-coated. Frame: extruded anodised aluminium profile. Lightguide and diffuser made of non-yellowing plastic (PMMA). Diffuser with microstructure (Suitable for use in environments with computer screens in accordance with EN 12464-1). Integral driver. Lateral light emission thanks to LED.

Available colour: 4 = aluminium, anodised

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Ceiling and wall luminaires							
							Price Category 21
312269.004	L 1198, B 298, H 49	LED	830	3950	33	18,2	on/off
312269.004.76	L 1198, B 298, H 49	LED	830	3950	33	18,2	DALI
312269.004.1	L 1198, B 298, H 49	LED	840	4100	33	18,5	on/off
312269.004.1.76	L 1198, B 298, H 49	LED	840	4100	33	18,5	DALI
Tunable White - 2700 K to 6500 K							
312269.004.2.730	L 1198, B 298, H 49	LED	827-865	3350	28	17,6	smart+free

Comparison LED vs. conventional lamps

LED 28 W ≈

4 x 14 W T16 (68 W Psys)

3 x 24 W T16 (75 W Psys)

LED 33 W ≈

4 x 24 W T16 (98 W Psys)



Applies to
versions
with .76

Comparison

LED vs. conventional lamps

LED 19 W ≈

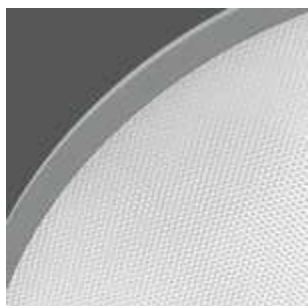
1 x 40 W T16-R (43 W Psys)
1 x 39 W T16 (42 W Psys)

LED 24 W ≈

1 x 60 W T16-R (65 W Psys)
4 x 14 W T16 (68 W Psys)

LED 31 / 34 W ≈

4 x 24 W T16 (98 W Psys)



Diffuser: plastic (PMMA) opal/micropismatic

Ceiling and wall luminaires | Sidelite Round

Type of Protection: **IP 40**

Protection Class: I

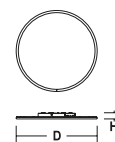
Impact Protection: IK03

Base: metal, powder-coated. Frame: extruded anodised aluminium profile. Lightguide and diffuser made of non-yellowing plastic (PMMA). Diffuser opal/micropismatic (Suitable for use in environments with computer screens in accordance with EN 12464-1). Integral driver.

Lateral light emission thanks to LED.

Available colour: aluminium, anodised

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-able
Ceiling and wall luminaires							
Diffuser: plastic (PMMA) opal/micropismatic							
Diameter D 348 mm							
311997.000.76	D 348, H 50	LED	830	1800	19	21,5	DALI
311997.000.730	D 348, H 50	LED	830	1800	19	21,5	smart+free
311997.000.1.76	D 348, H 50	LED	840	1900	19	21,7	DALI
311997.000.1.730	D 348, H 50	LED	840	1900	19	21,7	smart+free
Tunable White - 2700 K to 6500 K							
311997.000.2.76	D 348, H 50	LED	827-865	1700	19	21,1	DALI
311997.000.2.730	D 348, H 50	LED	827-865	1700	19	21,1	smart+free
Diameter D 457 mm							
311916.004.76	D 457, H 50	LED	830	2500	24	20,4	DALI
311916.004.730	D 457, H 50	LED	830	2500	24	20,4	smart+free
311916.004.1.76	D 457, H 50	LED	840	2650	24	20,6	DALI
311916.004.1.730	D 457, H 50	LED	840	2650	24	20,6	smart+free
Tunable White - 2700 K to 6500 K							
311916.004.2.76	D 457, H 50	LED	827-865	2300	24	20,1	DALI
311916.004.2.730	D 457, H 50	LED	827-865	2300	24	20,1	smart+free
Diameter D 675 mm							
311849.000.76	D 675, H 50	LED	830	3250	31	18,5	DALI
311849.000.730	D 675, H 50	LED	830	3250	31	18,5	smart+free
311849.000.1.76	D 675, H 50	LED	840	3450	31	18,7	DALI
311849.000.1.730	D 675, H 50	LED	840	3450	31	18,7	smart+free
Tunable White - 2700 K to 6500 K							
311849.000.2.76	D 675, H 50	LED	827-865	3600	34	18,4	DALI
311849.000.2.730	D 675, H 50	LED	827-865	3600	34	18,4	smart+free

Ceiling and wall luminaires | Sidelite Round FerroMurano

Type of Protection: **IP 40**

Protection Class: I

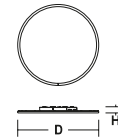
Impact Protection: IK02

Base: metal, powder-coated. Frame: extruded anodised aluminium profile.

Diffuser: handcrafted, coloured glass FerroMurano. Integral driver.

Lateral light emission thanks to LED.

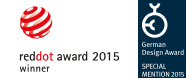
Available colour: aluminium, anodised



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						
Glass FerroMurano red						
Diameter D 457 mm						
311912.004.76	D 457, H 50	LED	830	1850	38	DALI
311912.004.1.76	D 457, H 50	LED	840	2050	38	DALI
Diameter D 675 mm						
311845.000.76	D 675, H 50	LED	830	3450	54	DALI
311845.000.1.76	D 675, H 50	LED	840	3750	54	DALI
Glass FerroMurano blue						
Diameter D 457 mm						
311913.004.76	D 457, H 50	LED	830	2400	38	DALI
311913.004.1.76	D 457, H 50	LED	840	2650	38	DALI
Diameter D 675 mm						
311846.000.76	D 675, H 50	LED	830	4300	54	DALI
311846.000.1.76	D 675, H 50	LED	840	4600	54	DALI
Glass FerroMurano white						
Diameter D 457 mm						
311915.004.76	D 457, H 50	LED	830	3000	38	DALI
311915.004.1.76	D 457, H 50	LED	840	3200	38	DALI
Diameter D 675 mm						
311848.000.76	D 675, H 50	LED	830	4900	54	DALI
311848.000.1.76	D 675, H 50	LED	840	5400	54	DALI

Luminaire flux of each luminaire vary due to the difference in colour intensity and structure of the glasses.

Price Category 21



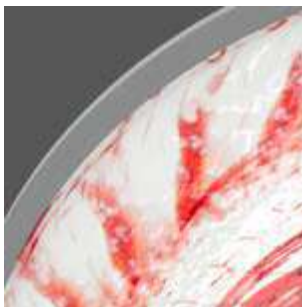
Comparison LED vs. conventional lamps

LED 38 W ≈

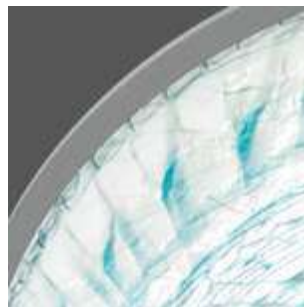
4 x 18 W T26 (104 W Psys)
1 x 60 W T16-R (65 W Psys)

LED 54 W ≈

3 x 28 W T16 (92 W Psys)



Glass FerroMurano red



Glass FerroMurano blue



Glass FerroMurano white



Further information on coloured FerroMurano glass as well as an overview of additional FerroMurano RZB luminaires can be found on page 280 of this catalogue or at www.rzb-lighting.com



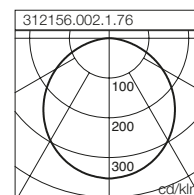
SIDELITE® ECO

Ceiling and wall luminaires, Ceiling luminaires

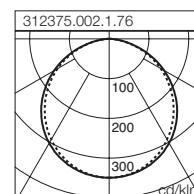
- Extremely cost efficient luminaires with advanced LED technology, available as ceiling, wall, recessed or suspended lighting solutions for interiors
- Diffuser plastic (PMMA) microprismatic: ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1
- Lightguide and diffuser made of non-yellowing PMMA with microprismatic
- RZB SIDELITE® technology: lateral light injection for extremely homogeneous light distribution

- **MultiLumen:** 4 steps adjustable luminous flux
- Luminous efficiency of up to 128 lm/W
- LED rated life 50,000 h (L70/B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Flicker < 5%
- External driver with simple plug-in locking system and extended connecting cable
- Suitable for use in the food and drink industry

312156.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	5	8

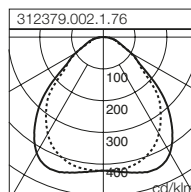


312375.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	5	6
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	7	11

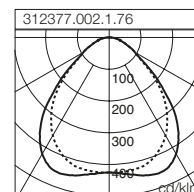


Further luminaires of this series, see:
 Indoor lighting | Recessed modular luminaires
 Indoor lighting | Suspended modular luminaires
 Indoor lighting | Free-standing luminaires
 Emergency lighting | Escape route illumination

312379.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	7



312377.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6







Comparison LED vs. conventional lamps

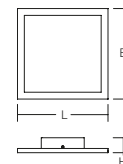
LED 19 W ≈
2 x 26 W TC-D (68 W Psys)

Ceiling and wall luminaires | Sidelite ECO

Type of Protection: **IP 40**
Protection Class: II
Impact Protection: IK03

Luminaire frame: aluminium, powder-coated. Surface mounted housing: sheet steel, powder coated. Lightguide and diffuser made of non-yellowing plastic (PMMA).
Diffuser: plastic (PMMA), opal. Lateral light emission thanks to LED. Integral driver.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Ceiling and wall luminaires							
Diffuser: plastic (PMMA), opal							
312375.002	L 295, B 295, H 46	LED	830	2100	19	25,0	on/off
312375.002.76	L 295, B 295, H 46	LED	830	2100	19	25,0	DALI
312375.002.1	L 295, B 295, H 46	LED	840	2200	19	25,1	on/off
312375.002.1.76	L 295, B 295, H 46	LED	840	2200	19	25,1	DALI

Price Category 21



Comparison LED vs. conventional lamps

LED 29 W ≈
3 x 21 W T16 (69 W Psys)
4 x 14 W T16 (68 W Psys)

LED 35 W ≈
3 x 21 W T16 (69 W Psys)
4 x 21 W T16 (90 W Psys)

LED 38 W ≈
4 x 21 W T16 (90 W Psys)

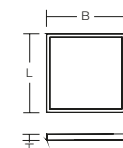
Ceiling luminaires | Sidelite ECO

Type of Protection: **IP 40**
Protection Class: II
Impact Protection: IK03

Luminaire frame: aluminium, powder-coated. Mounting frame: sheet steel, powder-coated. Lightguide and diffuser made of non-yellowing plastic (PMMA). Diffuser made of non-yellowing plastic, opal or microprismatic (Suitable for use in environments with computer screens in accordance with EN 12464-1). Lateral light emission thanks to LED. Integral driver.

Available colour: 2 = white

MultiLumen version: 4 steps adjustable luminous flux. Factory-set to lowest luminous flux.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Ceiling luminaires							
Diffuser: plastic (PMMA), opal							
312376.002.790 *	L 602, B 602, H 47	LED	830	3400...4300	29...38	21,5...22,3	on/off
312376.002.76	L 602, B 602, H 47	LED	830	3200	29	21,3	DALI
312376.002.1.790 *	L 602, B 602, H 47	LED	840	3700...4600	29...38	21,8...22,6	on/off
312376.002.1.76	L 602, B 602, H 47	LED	840	3700	29	21,8	DALI
312376.002.5.76	L 602, B 602, H 47	LED	830	3950	35	22,0	DALI
312376.002.6.76	L 602, B 602, H 47	LED	840	4250	35	22,3	DALI
Diffuser plastic (PMMA) microprismatic							
312377.002.790 *	L 602, B 602, H 47	LED	830	3400...4300	29...38	17,9...18,7	on/off
312377.002.76	L 602, B 602, H 47	LED	830	3350	29	18,2	DALI
312377.002.1.790 *	L 602, B 602, H 47	LED	840	3700...4600	29...38	18,2...18,9	on/off
312377.002.1.76	L 602, B 602, H 47	LED	840	3700	29	18,4	DALI
312377.002.5.76	L 602, B 602, H 47	LED	830	3950	35	18,4	DALI
312377.002.6.76	L 602, B 602, H 47	LED	840	4250	35	18,6	DALI

* **MultiLumen version:** Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

MultiLumen: Adjustable luminous flux

31237X.002.790 / 31237X.002.1.790			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	3400	3700	29
2	3750	4050	33
3	3950	4250	35
4	4300	4600	38

Ceiling luminaires | Sidelite ECO

Type of Protection: **IP 40**

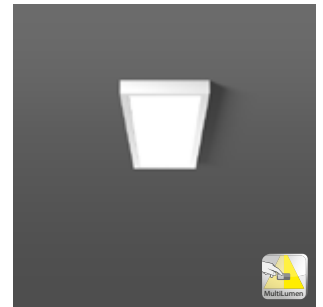
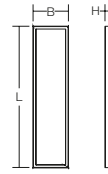
Protection Class: II

Impact Protection: IK03

Luminaire frame: aluminium, powder-coated. Mounting frame: sheet steel, powder-coated. Lightguide and diffuser made of non-yellowing plastic (PMMA). Diffuser made of non-yellowing plastic, opal or micropismatic (Suitable for use in environments with computer screens in accordance with EN 12464-1). Lateral light emission thanks to LED. Integral driver.

Available colour: 2 = white

MultiLumen version: 4 steps adjustable luminous flux. Factory-set to lowest luminous flux.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable	
Ceiling luminaires								Price Category 21
Diffuser: plastic (PMMA), opal								
312378.002.790 *	L 1202, B 302, H 47	LED	830	3200...4000	29...38	21,1...21,8	on/off	
312378.002.76	L 1202, B 302, H 47	LED	830	3300	29	21,6	DALI	
312378.002.1.790 *	L 1202, B 302, H 47	LED	840	3500...4400	29...38	21,4...22,2	on/off	
312378.002.1.76	L 1202, B 302, H 47	LED	840	3550	29	21,9	DALI	
312378.002.5.76	L 1202, B 302, H 47	LED	830	3700	35	21,6	DALI	
312378.002.6.76	L 1202, B 302, H 47	LED	840	4050	35	21,9	DALI	
Diffuser plastic (PMMA) micropismatic								
312379.002.790 *	L 1202, B 302, H 47	LED	830	3200...4000	29...38	18,0...18,8	on/off	
312379.002.76	L 1202, B 302, H 47	LED	830	3200	29	18,4	DALI	
312379.002.1.790 *	L 1202, B 302, H 47	LED	840	3500...4400	29...38	18,3...19,1	on/off	
312379.002.1.76	L 1202, B 302, H 47	LED	840	3450	29	18,6	DALI	
312379.002.5.76	L 1202, B 302, H 47	LED	830	3700	35	18,5	DALI	
312379.002.6.76	L 1202, B 302, H 47	LED	840	4050	35	18,8	DALI	

* **MultiLumen version:** Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

MultiLumen: Adjustable luminous flux

31237X.002.790 / 31237X.002.1.790			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	3200	3500	29
2	3500	3850	33
3	3700	4050	35
4	4000	4400	38

Ceiling and wall luminaires | Sidelite ECO

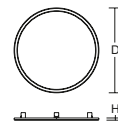
Type of Protection: **IP 40**

Protection Class: II

Impact Protection: IK03

Frame: aluminium, powder-coated. Mounting cylinder powder-coated metal. Diffuser: plastic (PMMA), opal. Lightguide and diffuser made of non-yellowing plastic (PMMA). Lateral light emission thanks to LED. External driver (height 32 mm).

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable	
Ceiling and wall luminaires								Price Category 21
Diffuser: plastic (PMMA), opal								
312156.002	D 580, H 52	LED	830	3050	39	21,6	on/off	
312156.002.76	D 580, H 52	LED	830	3050	39	21,6	DALI	
312156.002.1	D 580, H 52	LED	840	3100	39	21,6	on/off	
312156.002.1.76	D 580, H 52	LED	840	3100	39	21,6	DALI	

Comparison LED vs. conventional lamps

LED 39 W ≈

1 x 60 W T16-R (65 W Psys)

2 x 32 W T16-R (69 W Psys)

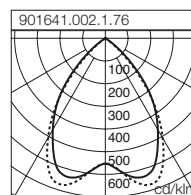


SONIS EVO

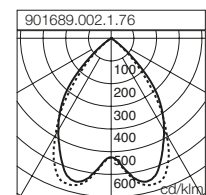
Ceiling luminaires

- Highly efficient LED luminaire
- **Alea optical system:** ideal for office areas (UGR ≤ 19) and computer workstations in accordance with EN 12464-1
- Narrow beam, brilliant luminous effect
- LED rated life 50,000 h (L80/B10)
- Luminous efficiency up to 125 lm/W

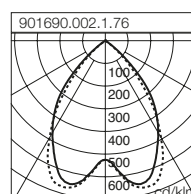
901641.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	6	10



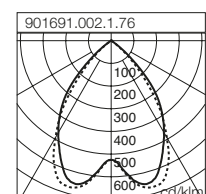
901689.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



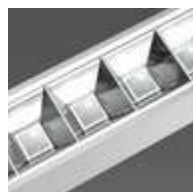
901690.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



901691.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	2	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	2	3



Further luminaires of this series, see:
Indoor lighting | Recessed modular luminaires
Emergency lighting | Escape route illumination



ALEA OPTICAL SYSTEM

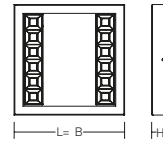
A brilliant example of the power of innovation: The Alea optical system in the Sonis EVO combines square reflector elements with a linear structure. The integrated opal diffuser reduces direct glare, ensures excellent light quality and protects the highly efficient LEDs.

Ceiling luminaires | Sonis EVO

Type of Protection: IP 20
Protection Class: I, II
Impact Protection: IK03

Housing: metal, powder-coated. **Alea optical system:** Reflector structure (ABS, Aluminium-coated, highly polished) with diffuser made of non-yellowing plastic (PMMA) opal for glare-free light at the workstation (screen-compliant according to EN 12464-1). Integral driver.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Ceiling luminaires							
Price Category 21							
901640.002.1	L 300, B 300, H 47	LED	840	1500	12	18,5	on/off
901640.002.1.76	L 300, B 300, H 47	LED	840	1500	12	18,5	DALI
901641.002.1	L 300, B 300, H 47	LED	840	2000	16	19,5	on/off
901641.002.1.76	L 300, B 300, H 47	LED	840	2000	16	19,5	DALI

Comparison LED vs. conventional lamps

LED 12 W ≈

2 x 18 W TC-D (52 W Psys)

LED 16 W ≈

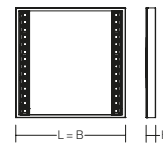
2 x 26 W TC-D (68 W Psys)

Ceiling luminaires | Sonis EVO

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK03

Housing: metal, powder-coated. **Alea optical system:** Reflector structure (ABS, Aluminium-coated, highly polished) with diffuser made of non-yellowing plastic (PMMA) opal for glare-free light at the workstation (screen-compliant according to EN 12464-1). Integral driver.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Ceiling luminaires							
Price Category 21							
901689.002.1	L 602, B 602, H 47	LED	840	3450	26	18,5	on/off
901689.002.1.76	L 602, B 602, H 47	LED	840	3450	26	18,4	DALI

Comparison LED vs. conventional lamps

LED 26 W ≈

4 x 14 W T16 (68 W Psys)

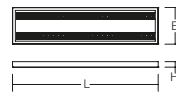
4 x 18 W T26 (104 W Psys)

Ceiling luminaires | Sonis EVO

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK03

Housing: metal, powder-coated. **Alea optical system:** Reflector structure (ABS, Aluminium-coated, highly polished) with diffuser made of non-yellowing plastic (PMMA) opal for glare-free light at the workstation (screen-compliant according to EN 12464-1). Integral driver.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Ceiling luminaires							
single row Alea optical system							
901690.002.1	L 1202, B 302, H 33	LED	840	3450	26	18,5	on/off
901690.002.1.76	L 1202, B 302, H 33	LED	840	3450	26	18,5	DALI
double row Alea optical system							
901691.002.1	L 1202, B 302, H 33	LED	840	6500	50	18,6	on/off
901691.002.1.76	L 1202, B 302, H 33	LED	840	6500	50	18,7	DALI



double row Alea optical system

Comparison LED vs. conventional lamps

LED 26 W ≈

1 x 49 W T16 (53 W Psys)

1 x 58 W T26 (67 W Psys)

LED 50 W ≈

2 x 49 W T16 (106 W Psys)

2 x 58 W T26 (134 W Psys)

DALI



Comparison LED vs. conventional lamps

LED 44 W ≈
1 x 80 W T16 (86 W Psys)

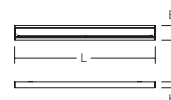
Ceiling luminaires | Sonis A Asym

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK02

Housing: metal, powder-coated. Parabolic reflector for asymmetrical light distribution. Reflector material: **MIRO**® Highly polished aluminium.

Ideal for school blackboards illumination.

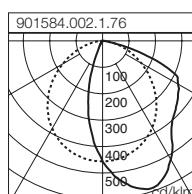
Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Ceiling luminaires							
901584.002	L 1484, B 155, H 62	LED	830	5500	44	26,1	on/off
901584.002.76	L 1484, B 155, H 62	LED	830	5500	44	26,1	DALI
901584.002.1	L 1484, B 155, H 62	LED	840	5750	44	26,3	on/off
901584.002.1.76	L 1484, B 155, H 62	LED	840	5750	44	26,3	DALI

Price Category 21

901584.002.1.76		
Floor 12 x 2,5 x 3 m (0,2m)		
100 lx	150 lx	200 lx
1	2	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4







The application image shows:
TWINDOT S

© Shutterstock



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84



84



85



85



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92



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97



99



99



100



101



103



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TWINDOT

78-87

Triona

88-95

Econe

96-97

Sidelite

Sidelite Round

98-101

Sidelite ECO

102-103

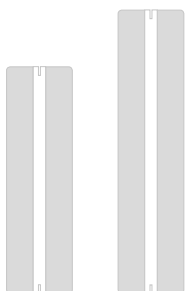
TWINDOT® Systems

TWINDOT K

The talented LED system
for individual luminaires,
sensor technology and
continuous line luminaires

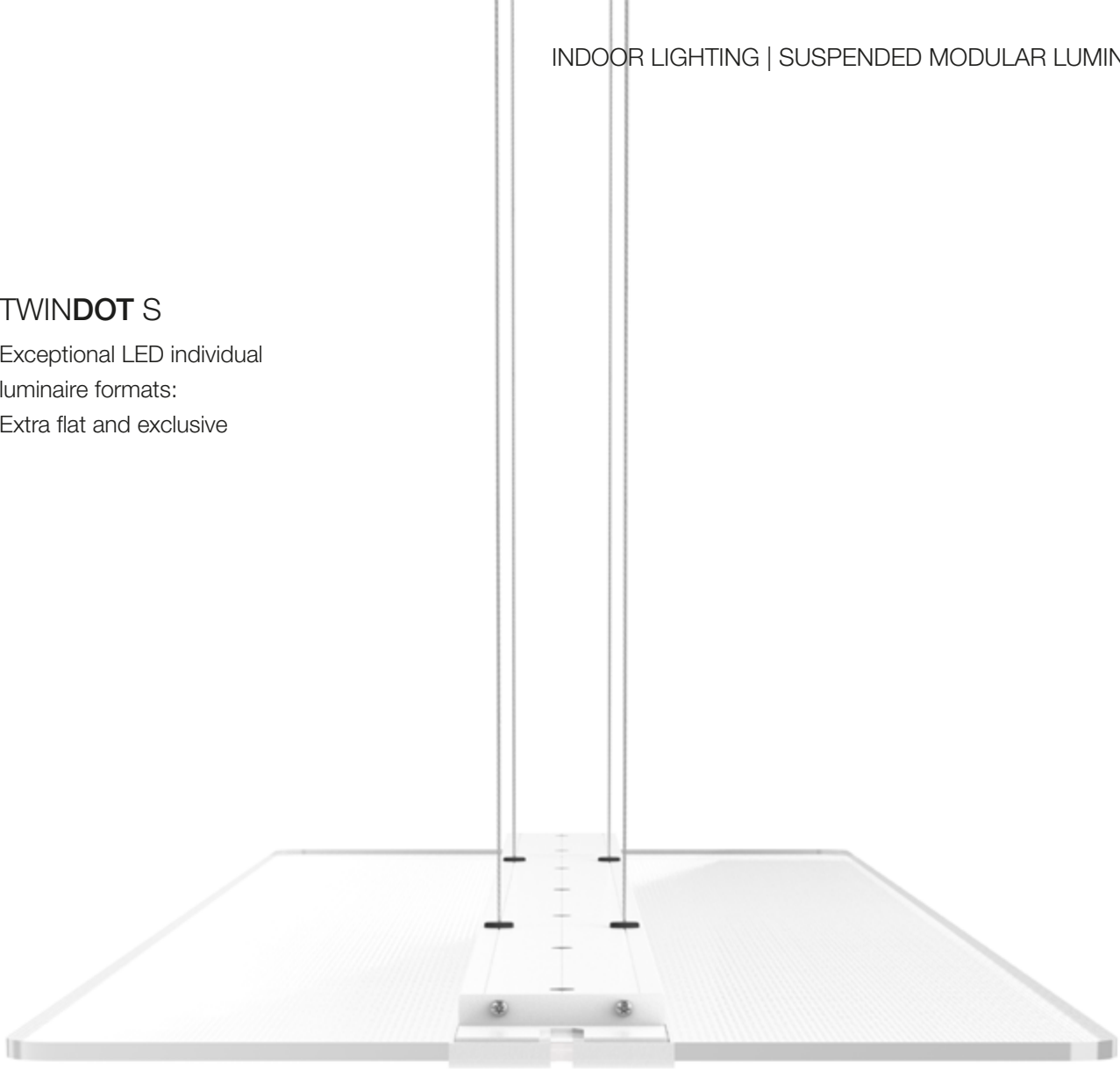


- ✕ 2 point steel cable suspension with transparent power cable, height adjustable steplessly between 500 and 1,200 mm. The horizontal is as well steplessly adjustable.
- ✕ Luminaires are available in two lengths. Continuous lines can be created with standard luminaires to be positioned either in the beginning, in the middle or in the end of the row.
- ✕ Compact, fitted drivers facilitate a wide range of control, sensor and continuous line options
- ✕ Casambi smart+free Bluetooth® control or daylight and presence sensor optional
- ✕ Initial setting of luminaires with sensor complying with standards can be individually adjusted via app if necessary
- ✕ Tunable White option available
- ✕ Featuring sophisticated TWINDOT Light Technology

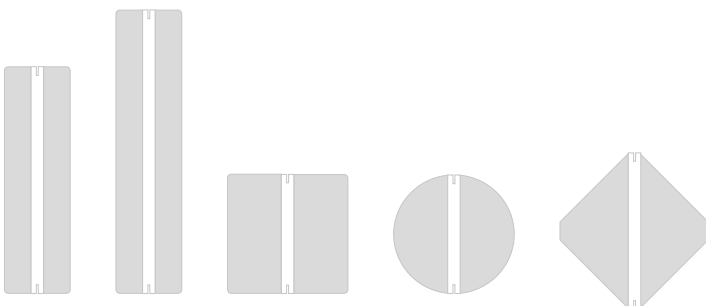


TWINDOT S

Exceptional LED individual
luminaire formats:
Extra flat and exclusive



- ✕ 4 point steel cable suspension. Power supply through suspension cable, height adjustable steplessly between 500 and 1,200 mm.
- ✕ Choice of four impressive single luminaire formats
- ✕ Super-flat, minimalistic appearance without any unwelcome cables or drivers
- ✕ Casambi smart+free Bluetooth® control as an option
- ✕ Tunable White option available for TWINDOT S Square/Round/Diamond
- ✕ Featuring sophisticated TWINDOT Light Technology



TWINDOT®

Everything at a glance



Premium-quality LEDs offer exceptional light quality in light colours 830 or 840, or from 827 to 865 in the Tunable White option, which can be controlled via DALI or Bluetooth® (Casambi smart+free)

Light distribution is up to 55 % direct and up to 45 % indirect

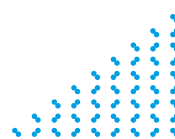
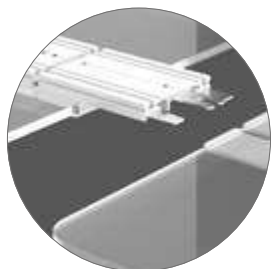


A highly polished reflection trim finishes off the cover with TWINDOT prismatic

Ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1

The TWINDOT K pendant luminaire systems feature a modular design, making them suitable for straightforward sandwich constructions for an extensive product family. This universal design concept offers options for mechanical and electrical connection to multiple luminaires and continuous line luminaires.

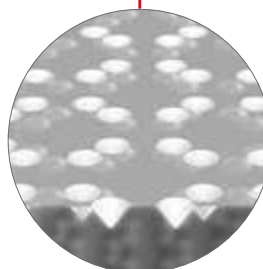
The accessory set includes all the required components. This connection is entirely reversible in the event of changing requirements.



TWINDOT LIGHT TECHNOLOGY

Transparent **light guide** measuring just 6 mm thick and made of **UV-resistant** acrylic glass (**PMMA**) with TWINDOT microprism structure.

The TWINDOT structure consists of microfine twin prisms, which have been applied to the top surface of an acrylic cover by means of a hot-embossing process in a defined angle matrix.





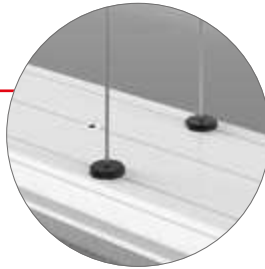
TWINDOT K

2 point steel cable suspension,
height adjustable steplessly.
Transparent power cable.



TWINDOT S

2 point steel cable suspension,
height adjustable steplessly.
Transparent power cable.



State of the art drivers regulate the LEDs in the TWINDOT luminaire systems throughout their entire lifetime and therefore prevent the usual reduction in luminous flux.

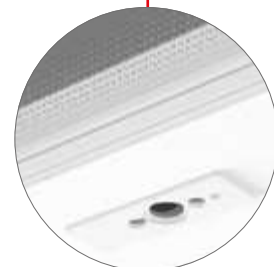
This process known as CLO (Constant Light Output) allows the optimised control of efficiency right from the start.

In addition to the basic on/off switch, the option is also available to incorporate controls based on DALI or Bluetooth® (Casambi smart+free) technology or even to integrate daylight and presence sensors.

Middle bar made of
aluminium, powder-coated

TWINDOT K

Integrated sensor element for the
automatic adjustment of brightness
depending on the amount of daylight
and presence



Initial setting of luminaires with
sensor complying with standards can be
individually adjusted via app if necessary.





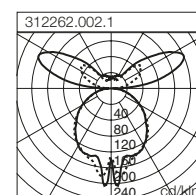
TWINDOT®

Pendant luminaires

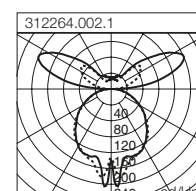
- Brand new, perfectly glare-free TWINDOT prismatic
- Extremely uniform illumination of the ceiling thanks to above average wide distribution of indirect light
- Pleasantly gentle light with soft shadows
- Casambi smart+free Bluetooth® control and daylight and presence sensor optional
- Initial setting of luminaires with sensor complying with standards can be individually adjusted via app if necessary
- Tunable white version available
- Continuous lines can be created with standard luminaires to be positioned either in the beginning, in the middle or in the end of the row.

- Ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1
- Luminous efficiency up to 130 lm/W
- Light output 6,500 lm for 1,200 mm format and 8,100 lm for 1,500 mm format - direct/indirect light emission 55/45%
- LED rated life 60,000 h (L_{CLO}), CLO control for constant light output over the entire service life
- Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download

312262.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



312264.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	2	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	2	4



Pendant luminaires | TWINDOT K

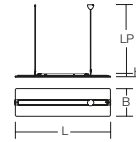
Type of Protection: IP 20
Protection Class: I
Impact Protection: IK03
Suspension Length: 500-1200 mm

Extremely flat and frameless appearance. Middle bar made of aluminium extrusion profile, powder-coated with integrated converter. Transparent light guide made of UV-resistant acrylic glass (PMMA). TWINDOT technology light control, light emission direct 55% / indirect 45%. UGR ≤ 19 (screen-compliant according to EN-12464-1). 2 point steel cable suspension, height adjustable steplessly with transparent power cable.

Expandable to continuous line luminaire with connection kit (on/off or DALI models).

Available colour: 2 = white

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 50 / 54 / 57 W ≈

3 x 28 W T16 (92 W Psys)
2 x 49 W T16 (106 W Psys)

LED 62 / 65 W ≈

4 x 28 W T16 (122 W Psys)
3 x 39 W T16 (123 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-able
Pendant luminaires							
Length L 1200 mm							
312262.002.1	L 1200, B 350, H 45	LED	840	6500	54	17,5	on/off
312262.002.1.76	L 1200, B 350, H 45	LED	840	6500	54	17,5	DALI
312262.002.1.19	L 1200, B 350, H 45	LED	840	6500	54	17,5	Sensor
312262.002.1.730	L 1200, B 350, H 45	LED	840	6500	54	17,5	smart+free
312262.002	L 1200, B 350, H 45	LED	830	6500	57	17,5	on/off
312262.002.76	L 1200, B 350, H 45	LED	830	6500	57	17,5	DALI
312262.002.19	L 1200, B 350, H 45	LED	830	6500	57	17,5	Sensor
312262.002.730	L 1200, B 350, H 45	LED	830	6500	57	17,5	smart+free
Tunable White - 2700 K to 6500 K							
312262.002.2.76	L 1200, B 350, H 45	LED	827-865	6350	50	17,4	DALI
312262.002.2.730	L 1200, B 350, H 45	LED	827-865	6350	50	17,4	smart+free
Length L 1500 mm							
312264.002.1	L 1500, B 350, H 45	LED	840	8100	62	17,6	on/off
312264.002.1.76	L 1500, B 350, H 45	LED	840	8100	62	17,6	DALI
312264.002.1.19	L 1500, B 350, H 45	LED	840	8100	62	17,6	Sensor
312264.002.1.730	L 1500, B 350, H 45	LED	840	8100	62	17,6	smart+free
312264.002	L 1500, B 350, H 45	LED	830	8100	65	17,6	on/off
312264.002.76	L 1500, B 350, H 45	LED	830	8100	65	17,6	DALI
312264.002.19	L 1500, B 350, H 45	LED	830	8100	65	17,6	Sensor
312264.002.730	L 1500, B 350, H 45	LED	830	8100	65	17,6	smart+free
Tunable White - 2700 K to 6500 K							
312264.002.2.76	L 1500, B 350, H 45	LED	827-865	7900	62	17,5	DALI
312264.002.2.730	L 1500, B 350, H 45	LED	827-865	7900	62	17,5	smart+free

Accessories | Decorative recessed pendant set

Mounting kit for aesthetically pleasing ceiling connection of pendant luminaires.

Decorative recessed pendant set			Price Category 11
982565.002*	L 146, B 60, H 12, HE 80	Mounting kit for plasterboard ceilings	
982564.009	L 180, B 148, H 124, HE 130	Mounting set for concrete ceilings	
982563.009	L 180, B 180, H 124, HE 130	Mounting set for plastered concrete ceilings	

* Not suitable for DALI version



For further information please see page 278

Accessories | Connection kit for multiple luminaires and light channel

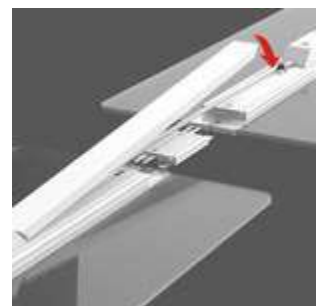
The connection kit contains all necessary components for the mechanical and electrical connection of two TWINDOT K luminaires. Not suitable for luminaires with sensors or Casambi smart+free controls.

Connection kit for multiple luminaires and light channel			Price Category 21
982449.002	L 567, B 66, H 24	Connection kit 3-pin L 1200 mm (on/off variant)	
982449.012	L 567, B 66, H 24	Connection kit 5-pin L 1200 mm (DALI variant)	
982450.002	L 847, B 66, H 24	Connection kit 3-pin L 1500 mm (on/off variant)	
982450.012	L 847, B 66, H 24	Connection kit 5-pin L 1500 mm (DALI variant)	



TWINDOT K continuous line comprising up to ten connected luminaires.

All TWINDOT K single luminaires are suitable for use as on/off or DALI models. The connections are entirely reversible.





Pendant luminaires | TWINDOT S

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK03
Suspension Length: 500-1200 mm

Extremely flat and frameless appearance. Middle bar made of aluminium extrusion profile, powder-coated. Transparent light guide made of UV-resistant acrylic glass (PMMA). TWINDOT technology light control, light emission direct 55% / indirect 45%. UGR ≤ 19 (screen-compliant according to EN-12464-1). Converter integrated in the canopy (powder coated white). Power supply through suspension cable. 4-point steel cable suspension, steplessly adjustable.

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.

Available colour: 2 = white



Comparison LED vs. conventional lamps

LED 54 / 57 W ≈

3 x 28 W T16 (92 W Psys)
2 x 49 W T16 (106 W Psys)

LED 62 / 65 W ≈

4 x 28 W T16 (122 W Psys)
3 x 39 W T16 (123 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires							
Length L 1200 mm							
312263.002.1	L 1200, B 350, H 20	LED	840	6500	54	17,5	on/off
312263.002.1.76	L 1200, B 350, H 20	LED	840	6500	54	17,5	DALI
312263.002.1.730	L 1200, B 350, H 20	LED	840	6500	54	17,5	smart+free
312263.002	L 1200, B 350, H 20	LED	830	6450	57	17,5	on/off
312263.002.76	L 1200, B 350, H 20	LED	830	6500	57	17,5	DALI
312263.002.730	L 1200, B 350, H 20	LED	830	6500	57	17,5	smart+free
Length L 1500 mm							
312265.002.1	L 1500, B 350, H 20	LED	840	8100	62	17,6	on/off
312265.002.1.76	L 1500, B 350, H 20	LED	840	8100	62	17,6	DALI
312265.002.1.730	L 1500, B 350, H 20	LED	840	8100	62	17,6	smart+free
312265.002	L 1500, B 350, H 20	LED	830	8100	65	17,6	on/off
312265.002.76	L 1500, B 350, H 20	LED	830	8100	65	17,6	DALI
312265.002.730	L 1500, B 350, H 20	LED	830	8100	65	17,6	smart+free



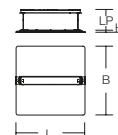
Pendant luminaires | TWINDOT S Square

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK03
Suspension Length: 500-1200 mm

Extremely flat and frameless appearance. Middle bar made of aluminium extrusion profile, powder-coated. Transparent light guide made of UV-resistant acrylic glass (PMMA). TWINDOT technology light control, light emission direct 55% / indirect 45%. UGR ≤ 19 (screen-compliant according to EN-12464-1). Converter integrated in the canopy (powder coated white). Power supply through suspension cable. 4-point steel cable suspension, steplessly adjustable.

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.

Available colour: 2 = white



Comparison LED vs. conventional lamps

LED 27 W ≈

1 x 49 W T16 (53 W Psys)

LED 41 / 43 W ≈

2 x 39 W T16 (82 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires							
312352.002.1	L 645, B 637, H 20	LED	840	4800	41	17,5	on/off
312352.002.1.76	L 645, B 637, H 20	LED	840	4800	41	17,5	DALI
312352.002.1.730	L 645, B 637, H 20	LED	840	4800	41	17,5	smart+free
312352.002	L 645, B 637, H 20	LED	830	4800	43	17,5	on/off
312352.002.76	L 645, B 637, H 20	LED	830	4800	43	17,5	DALI
312352.002.730	L 645, B 637, H 20	LED	830	4800	43	17,5	smart+free
Tunable White - 2700 K to 6500 K							
312352.002.2.76	L 645, B 637, H 20	LED	827-865	3200	27	15,9	DALI
312352.002.2.730	L 645, B 637, H 20	LED	827-865	3200	27	15,9	smart+free

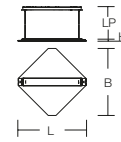
Pendant luminaires | TWINDOT S Diamond

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK03
Suspension Length: 500-1200 mm

Extremely flat and frameless appearance. Middle bar made of aluminium extrusion profile, powder-coated. Transparent light guide made of UV-resistant acrylic glass (PMMA). TWINDOT technology light control, light emission direct 55% / indirect 45%. UGR ≤ 19 (screen-compliant according to EN-12464-1). Converter integrated in the canopy (powder coated white). Power supply through suspension cable. 4-point steel cable suspension, steplessly adjustable.

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires							
312354.002.1	L 645, B 700, H 20	LED	840	3500	37	17,8	on/off
312354.002.1.76	L 645, B 700, H 20	LED	840	3500	37	17,8	DALI
312354.002.1.730	L 645, B 700, H 20	LED	840	3500	37	17,8	smart+free
312354.002	L 645, B 700, H 20	LED	830	3500	39	17,8	on/off
312354.002.76	L 645, B 700, H 20	LED	830	3500	39	17,8	DALI
312354.002.730	L 645, B 700, H 20	LED	830	3500	39	17,8	smart+free
Tunable White - 2700 K to 6500 K							
312354.002.2.76	L 645, B 700, H 20	LED	827-865	3000	27	17,0	DALI
312354.002.2.730	L 645, B 700, H 20	LED	827-865	3000	27	17,0	smart+free

Comparison LED vs. conventional lamps

LED 27 W ≈

2 x 21 W T16 (45 W Psys)

LED 37 / 39 W ≈

1 x 49 W T16 (53 W Psys)

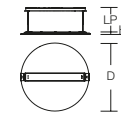
Pendant luminaires | TWINDOT S Round

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK03
Suspension Length: 500-1200 mm

Extremely flat and frameless appearance. Middle bar made of aluminium extrusion profile, powder-coated. Transparent light guide made of UV-resistant acrylic glass (PMMA). TWINDOT technology light control, light emission direct 55% / indirect 45%. UGR ≤ 19 (screen-compliant according to EN-12464-1). Converter integrated in the canopy (powder coated white). Power supply through suspension cable. 4-point steel cable suspension, steplessly adjustable.

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires							
312353.002.1	D 645, H 20	LED	840	4500	39	17,4	on/off
312353.002.1.76	D 645, H 20	LED	840	4500	39	17,4	DALI
312353.002.1.730	D 645, H 20	LED	840	4500	39	17,4	smart+free
312353.002	D 645, H 20	LED	830	4500	41	17,4	on/off
312353.002.76	D 645, H 20	LED	830	4500	41	17,4	DALI
312353.002.730	D 645, H 20	LED	830	4500	41	17,4	smart+free
Tunable White - 2700 K to 6500 K							
312353.002.2.76	D 645, H 20	LED	827-865	3100	27	16,4	DALI
312353.002.2.730	D 645, H 20	LED	827-865	3150	27	16,5	smart+free

Comparison LED vs. conventional lamps

LED 27 W ≈

2 x 21 W T16 (45 W Psys)

LED 39 / 41 W ≈

3 x 21 W T16 (69 W Psys)



The application image shows:
TwinDot
Energo Darklight
Flatliner



TRIONA®

Everything at a glance



Very easy plug-in installation
Easy installation:
canopy with magnetic attachment

Versions with Casambi smart+free Bluetooth®
control for wireless network and
operation using Android / iOS devices,
free app available for download



3 different colours are available for the very
flat and seamless extruded aluminium profile

Special colors on request



Tunable white versions, dynamically
adjustable from 2700 K to 6500 K

Ideal for use as part of a
Human Centric Lighting concept

RZB SIDELITE® technology:
lateral light injection for
extremely homogeneous
light distribution and
rimless illumination

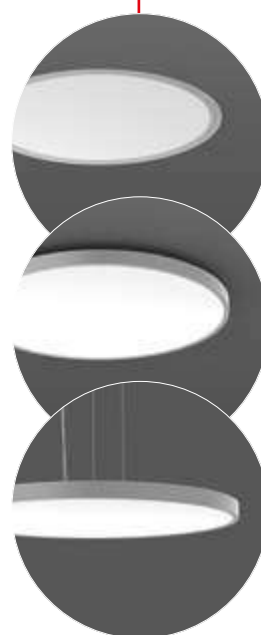
Direct light emission through diffuser

Diffusers ① and lightguide ②
made of **non-yellowing PMMA**



3 types of installation

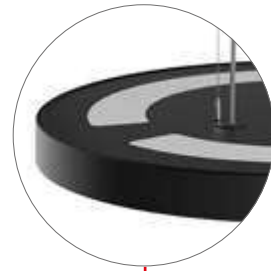
recessed
surface mounted
pendant





Diffuser plastic opal/micropismatic:
ideal for office areas ($UGR \leq 19$)
and environments with
computer screens in
accordance with EN 12464-1

3 point steel cable suspension,
height adjustable steplessly.
transparent power cable



Indirect light emission through
non-yellowing plastic (PMMA)
diffuser, satin finish.

4 sizes

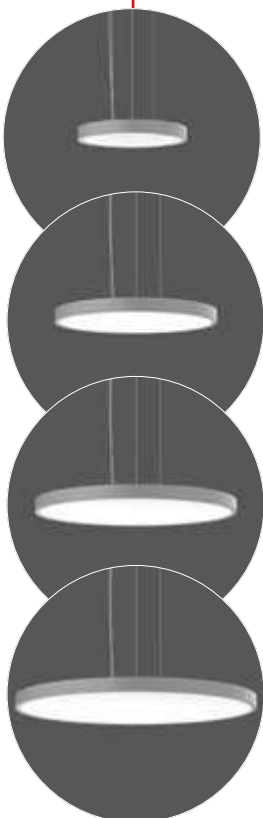
Ø 461 mm, Ø 681 mm
Ø 845 mm, Ø 1009 mm

2 light emission characteristics

direct
direct/indirect

3 diffusers

Plastic (PMMA), opal
Plastic (PMMA) opal/micropismatic
Glass FerroMurano





TRIONA®

Pendant luminaires

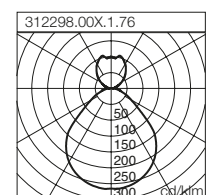
- This lighting fixture's prismatic plastic diffuser is incorporated into an aluminium profile just 50 mm thick
- Lateral light emission with LED
- Direct or direct/indirect light emission
- Tool-free mounting
- Very easy installation thanks to plug & play connection
- Various design possibilities of the distinctive large surface luminaire:
 - hand-crafted FerroMurano glass inserts
 - opal diffuser
 - opal/micropismatic diffuser

- **Lightguide** and plastic **diffuser** made of **non-yellowing PMMA**
- Ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1
- LED rated life 50,000 h (L70/B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Tunable white versions dynamically adjustable from 2700 K to 6500 K
- Ideal for use as part of a Human Centric Lighting concept
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download

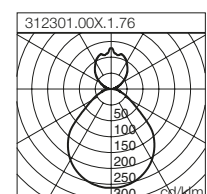


Further luminaires of this series, see:
 Indoor lighting | Recessed modular luminaires
 Indoor lighting | Surface mounted modular luminaires

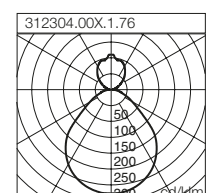
312298.00X.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	2	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4



312301.00X.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	1	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
1	2	3



312304.00X.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	1	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
1	2	2



Pendant luminaires | Triona

Type of Protection: IP 20

Protection Class: I

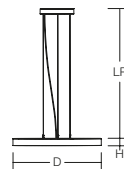
Impact Protection: IK03

Suspension Length: 500-1200 mm

Frame: aluminium, powder-coated. Cover: sheet steel, powder-coated. Lateral light emission for direct illumination through non-yellowing plastic (PMMA) opal/micro-prismatic diffuser (screen-compliant in accordance with EN-12464-1). Indirect light emission through non-yellowing plastic (PMMA) diffuser, satin finish. Canopy: aluminium, powder-coated. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request. Integral driver.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimming
Pendant luminaires - Direct light emission							
Price Category 21							
Diameter D 461 mm, Canopy Ø 263 mm, h 40 mm							
312425.00X.76	D 461, H 52	LED	830	2950	30	20,5	DALI
312425.00X.730	D 461, H 52	LED	830	2950	30	20,5	smart+free
312425.00X.1.76	D 461, H 52	LED	840	3050	30	20,6	DALI
312425.00X.1.730	D 461, H 52	LED	840	3050	30	20,6	smart+free
Tunable White - 2700 K to 6500 K							
312425.00X.2.76	D 461, H 52	LED	827-865	2550	29	20,0	DALI
312425.00X.2.730	D 461, H 52	LED	827-865	2550	29	20,0	smart+free
Diameter D 681 mm, Canopy Ø 263 mm, h 40 mm							
312360.00X.76	D 681, H 52	LED	830	3550	33	18,5	DALI
312360.00X.730	D 681, H 52	LED	830	3550	33	18,5	smart+free
312360.00X.1.76	D 681, H 52	LED	840	3700	33	18,7	DALI
312360.00X.1.730	D 681, H 52	LED	840	3700	33	18,7	smart+free
Tunable White - 2700 K to 6500 K							
312360.00X.2.76	D 681, H 52	LED	827-865	3400	40	17,9	DALI
312360.00X.2.730	D 681, H 52	LED	827-865	3400	40	17,9	smart+free
Diameter D 845 mm, Canopy Ø 263 mm, h 40 mm							
312361.00X.76	D 845, H 52	LED	830	7600	70	19,2	DALI
312361.00X.730	D 845, H 52	LED	830	7600	70	19,2	smart+free
312361.00X.1.76	D 845, H 52	LED	840	7900	70	19,3	DALI
312361.00X.1.730	D 845, H 52	LED	840	7900	70	19,3	smart+free
Tunable White - 2700 K to 6500 K							
312361.00X.2.76	D 845, H 52	LED	827-865	4800	49	17,8	DALI
312361.00X.2.730	D 845, H 52	LED	827-865	4800	49	17,8	smart+free
Diameter D 1009 mm, Canopy Ø 263 mm, h 40 mm							
312362.00X.76	D 1009, H 52	LED	830	8850	89	18,7	DALI
312362.00X.730	D 1009, H 52	LED	830	8850	89	18,7	smart+free
312362.00X.1.76	D 1009, H 52	LED	840	9200	89	18,8	DALI
312362.00X.1.730	D 1009, H 52	LED	840	9200	89	18,8	smart+free
Tunable White - 2700 K to 6500 K							
312362.00X.2.76	D 1009, H 52	LED	827-865	5700	61	16,7	DALI
312362.00X.2.730	D 1009, H 52	LED	827-865	5700	61	16,7	smart+free

Pendant luminaires - Direct 70% - indirect 30% light emission							
Price Category 21							
Diameter D 461 mm, Canopy Ø 263 mm, h 40 mm							
312426.00X.76	D 461, H 52	LED	830	3500	40	19,2	DALI
312426.00X.730	D 461, H 52	LED	830	3500	40	19,2	smart+free
312426.00X.1.76	D 461, H 52	LED	840	3650	40	19,3	DALI
312426.00X.1.730	D 461, H 52	LED	840	3650	40	19,3	smart+free
Tunable White - 2700 K to 6500 K							
312426.00X.2.76	D 461, H 52	LED	827-865	3100	38	18,8	DALI
312426.00X.2.730	D 461, H 52	LED	827-865	3100	38	18,8	smart+free
Diameter D 681 mm, Canopy Ø 263 mm, h 40 mm							
312298.00X.76	D 681, H 52	LED	830	6300	68	17,4	DALI
312298.00X.730	D 681, H 52	LED	830	6300	68	17,4	smart+free
312298.00X.1.76	D 681, H 52	LED	840	6550	68	17,5	DALI
312298.00X.1.730	D 681, H 52	LED	840	6550	68	17,5	smart+free
Tunable White - 2700 K to 6500 K							
312298.00X.2.76	D 681, H 52	LED	827-865	4650	61	16,0	DALI
312298.00X.2.730	D 681, H 52	LED	827-865	4650	61	16,0	smart+free
Diameter D 845 mm, Canopy Ø 263 mm, h 40 mm							
312301.00X.76	D 845, H 52	LED	830	10000	110	16,9	DALI
312301.00X.730	D 845, H 52	LED	830	10000	110	16,9	smart+free
312301.00X.1.76	D 845, H 52	LED	840	10400	110	17,0	DALI
312301.00X.1.730	D 845, H 52	LED	840	10400	110	17,0	smart+free
Tunable White - 2700 K to 6500 K							
312301.00X.2.76	D 845, H 52	LED	827-865	6900	76	15,8	DALI
312301.00X.2.730	D 845, H 52	LED	827-865	6900	76	15,8	smart+free
Diameter D 1009 mm, Canopy Ø 263 mm, h 40 mm							
312304.00X.76	D 1009, H 52	LED	830	11900	122	16,9	DALI
312304.00X.730	D 1009, H 52	LED	830	11900	122	16,9	smart+free
312304.00X.1.76	D 1009, H 52	LED	840	12400	122	17,1	DALI
312304.00X.1.730	D 1009, H 52	LED	840	12400	122	17,1	smart+free
Tunable White - 2700 K to 6500 K							
312304.00X.2.76	D 1009, H 52	LED	827-865	7450	85	15,1	DALI
312304.00X.2.730	D 1009, H 52	LED	827-865	7450	85	15,1	smart+free

Light colour 827 on request.

Comparison LED vs. conventional lamps

LED 29 W ≈

1 x 55 W T16-R (60 W Psys)

LED 30 / 33 / 38 / 40 W ≈

1 x 60 W T16-R (65 W Psys)

LED 49 / 61 W ≈

4 x 26 W TC-D (136 W Psys)

LED 61/ 68 W ≈

3 x 42 W TC-TEL (137 W Psys)

LED 70 / 76 / 89 W ≈

4 x 42 W TC-TEL (180 W Psys)

LED 85 W ≈

3 x 57 W TC-TEL (175 W Psys)

LED 110 / 122 W ≈

4 x 57 W TC-TEL (232 W Psys)



Diffuser: plastic (PMMA) opal/microprismatic



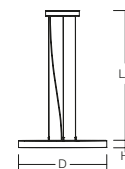
Pendant luminaires | Triona

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK03
Suspension Length: 500-1200 mm

Frame: aluminium, powder-coated. Cover: sheet steel, powder-coated. Lateral light emission for direct illumination through non-yellowing plastic (PMMA) opal diffuser. Indirect light emission through non-yellowing plastic (PMMA) diffuser, satin finish. Canopy: aluminium, powder-coated. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request. Integral driver.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 29 W ≈

1 x 55 W T16-R (60 W Psys)

LED 38 / 40 W ≈

1 x 60 W T16-R (65 W Psys)

LED 49 / 51 / 61 W ≈

4 x 26 W TC-D (136 W Psys)

LED 61 / 68 W ≈

3 x 42 W TC-TEL (137 W Psys)

LED 74 / 76 / 85 / 113 W ≈

4 x 42 W TC-TEL (180 W Psys)

LED 85 W ≈

3 x 57 W TC-TEL (175 W Psys)

LED 113 / 141 W ≈

4 x 57 W TC-TEL (232 W Psys)

LED 158 W ≈

6 x 57 W TC-TEL (348 W Psys)



Diffuser: plastic (PMMA), opal

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmi-able
Pendant luminaires - Direct light emission							
Price Category 21							
Diameter D 461 mm, Canopy Ø 263 mm, h 40 mm							
312421.00X.76	D 461, H 52	LED	830	4400	51	24,2	DALI
312421.00X.730	D 461, H 52	LED	830	4400	51	24,2	smart+free
312421.00X.1.76	D 461, H 52	LED	840	4600	51	24,4	DALI
312421.00X.1.730	D 461, H 52	LED	840	4600	51	24,4	smart+free
Tunable White - 2700 K to 6500 K							
312421.00X.2.76	D 461, H 52	LED	827-865	2350	29	22,1	DALI
312421.00X.2.730	D 461, H 52	LED	827-865	2350	29	22,1	smart+free
Diameter D 681 mm, Canopy Ø 263 mm, h 40 mm							
312385.00X.76	D 681, H 52	LED	830	6100	74	22,4	DALI
312385.00X.730	D 681, H 52	LED	830	6100	74	22,4	smart+free
312385.00X.1.76	D 681, H 52	LED	840	6350	74	22,5	DALI
312385.00X.1.730	D 681, H 52	LED	840	6350	74	22,5	smart+free
Tunable White - 2700 K to 6500 K							
312385.00X.2.76	D 681, H 52	LED	827-865	3200	40	20,0	DALI
312385.00X.2.730	D 681, H 52	LED	827-865	3200	40	20,0	smart+free
Diameter D 845 mm, Canopy Ø 263 mm, h 40 mm							
312389.00X.76	D 845, H 52	LED	830	7550	85	21,5	DALI
312389.00X.730	D 845, H 52	LED	830	7550	85	21,5	smart+free
312389.00X.1.76	D 845, H 52	LED	840	7850	85	21,6	DALI
312389.00X.1.730	D 845, H 52	LED	840	7850	85	21,6	smart+free
Tunable White - 2700 K to 6500 K							
312389.00X.2.76	D 845, H 52	LED	827-865	4550	49	19,6	DALI
312389.00X.2.730	D 845, H 52	LED	827-865	4550	49	19,6	smart+free
Diameter D 1009 mm, Canopy Ø 263 mm, h 40 mm							
312393.00X.76	D 1009, H 52	LED	830	10600	113	21,4	DALI
312393.00X.730	D 1009, H 52	LED	830	10600	113	21,4	smart+free
312393.00X.1.76	D 1009, H 52	LED	840	11000	113	21,5	DALI
312393.00X.1.730	D 1009, H 52	LED	840	11000	113	21,5	smart+free
Tunable White - 2700 K to 6500 K							
312393.00X.2.76	D 1009, H 52	LED	827-865	5450	61	19,0	DALI
312393.00X.2.730	D 1009, H 52	LED	827-865	5450	61	19,0	smart+free
Pendant luminaires - Direct 70% - indirect 30% light emission							
Price Category 21							
Diameter D 461 mm, Canopy Ø 263 mm, h 40 mm							
312422.00X.76	D 461, H 52	LED	830	5500	68	23,0	DALI
312422.00X.730	D 461, H 52	LED	830	5500	68	23,0	smart+free
312422.00X.1.76	D 461, H 52	LED	840	5700	68	23,2	DALI
312422.00X.1.730	D 461, H 52	LED	840	5700	68	23,2	smart+free
Tunable White - 2700 K to 6500 K							
312422.00X.2.76	D 461, H 52	LED	827-865	2900	38	20,8	DALI
312422.00X.2.730	D 461, H 52	LED	827-865	2900	38	20,8	smart+free
Diameter D 681 mm, Canopy Ø 263 mm, h 40 mm							
312386.00X.76	D 681, H 52	LED	830	8750	113	20,5	DALI
312386.00X.730	D 681, H 52	LED	830	8750	113	20,5	smart+free
312386.00X.1.76	D 681, H 52	LED	840	9100	113	20,6	DALI
312386.00X.1.730	D 681, H 52	LED	840	9100	113	20,6	smart+free
Tunable White - 2700 K to 6500 K							
312386.00X.2.76	D 681, H 52	LED	827-865	4400	61	18,0	DALI
312386.00X.2.730	D 681, H 52	LED	827-865	4400	61	18,0	smart+free
Diameter D 845 mm, Canopy Ø 263 mm, h 40 mm							
312390.00X.76	D 845, H 52	LED	830	11700	141	19,6	DALI
312390.00X.730	D 845, H 52	LED	830	11700	141	19,6	smart+free
312390.00X.1.76	D 845, H 52	LED	840	12200	141	19,8	DALI
312390.00X.1.730	D 845, H 52	LED	840	12200	141	19,8	smart+free
Tunable White - 2700 K to 6500 K							
312390.00X.2.76	D 845, H 52	LED	827-865	6550	76	17,8	DALI
312390.00X.2.730	D 845, H 52	LED	827-865	6550	76	17,8	smart+free
Diameter D 1009 mm, Canopy Ø 263 mm, h 40 mm							
312394.00X.76	D 1009, H 52	LED	830	14400	158	19,6	DALI
312394.00X.730	D 1009, H 52	LED	830	14400	158	19,6	smart+free
312394.00X.1.76	D 1009, H 52	LED	840	15000	158	19,8	DALI
312394.00X.1.730	D 1009, H 52	LED	840	15000	158	19,8	smart+free
Tunable White - 2700 K to 6500 K							
312394.00X.2.76	D 1009, H 52	LED	827-865	7050	85	16,8	DALI
312394.00X.2.730	D 1009, H 52	LED	827-865	7050	85	16,8	smart+free

Light colour 827 on request.

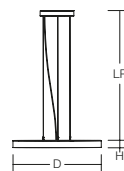
Pendant luminaires | Triona FerroMurano

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK03
Suspension Length: 500-1200 mm

Frame: aluminium, powder-coated. Cover: sheet steel, powder-coated. Lateral light emission for direct illumination through handmade FerroMurano coloured glass. Indirect light emission through non-yellowing plastic (PMMA) diffuser, satin finish. Canopy: aluminium, powder-coated. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request. Integral driver.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Pendant luminaires - Direct light emission						
Price Category 21						



Glass FerroMurano red

Diameter D 461 mm, Canopy Ø 263 mm, h 40 mm

312414.00X.76	D 461, H 52	LED	830	1900	30	DALI
312414.00X.730	D 461, H 52	LED	830	1900	30	smart+free
312414.00X.1.76	D 461, H 52	LED	840	1950	30	DALI
312414.00X.1.730	D 461, H 52	LED	840	1950	30	smart+free

Diameter D 681 mm, Canopy Ø 263 mm, h 40 mm

312358.00X.76	D 681, H 52	LED	830	3850	57	DALI
312358.00X.730	D 681, H 52	LED	830	3850	57	smart+free
312358.00X.1.76	D 681, H 52	LED	840	4000	57	DALI
312358.00X.1.730	D 681, H 52	LED	840	4000	57	smart+free

Glass FerroMurano blue

Diameter D 461 mm, Canopy Ø 263 mm, h 40 mm

312415.00X.76	D 461, H 52	LED	830	2150	30	DALI
312415.00X.730	D 461, H 52	LED	830	2150	30	smart+free
312415.00X.1.76	D 461, H 52	LED	840	2250	30	DALI
312415.00X.1.730	D 461, H 52	LED	840	2250	30	smart+free

Diameter D 681 mm, Canopy Ø 263 mm, h 40 mm

312359.00X.76	D 681, H 52	LED	830	4700	57	DALI
312359.00X.730	D 681, H 52	LED	830	4700	57	smart+free
312359.00X.1.76	D 681, H 52	LED	840	4900	57	DALI
312359.00X.1.730	D 681, H 52	LED	840	4900	57	smart+free

Glass FerroMurano white

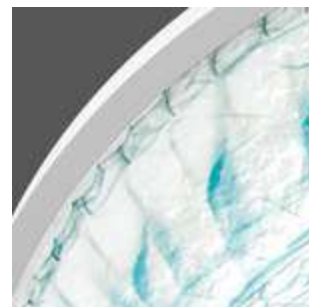
Diameter D 461 mm, Canopy Ø 263 mm, h 40 mm

312413.00X.76	D 461, H 52	LED	830	2400	30	DALI
312413.00X.730	D 461, H 52	LED	830	2400	30	smart+free
312413.00X.1.76	D 461, H 52	LED	840	2500	30	DALI
312413.00X.1.730	D 461, H 52	LED	840	2500	30	smart+free

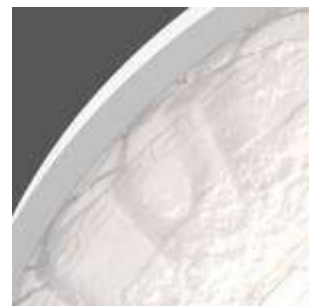
Diameter D 681 mm, Canopy Ø 263 mm, h 40 mm

312357.00X.76	D 681, H 52	LED	830	5350	57	DALI
312357.00X.730	D 681, H 52	LED	830	5350	57	smart+free
312357.00X.1.76	D 681, H 52	LED	840	5600	57	DALI
312357.00X.1.730	D 681, H 52	LED	840	5600	57	smart+free

Glass FerroMurano red



Glass FerroMurano blue



Glass FerroMurano white

Pendant luminaires - Direct 70% - indirect 30% light emission

Price Category 21



Glass FerroMurano red

Diameter D 461 mm, Canopy Ø 263 mm, h 40 mm

312417.00X.76	D 461, H 52	LED	830	2450	40	DALI
312417.00X.730	D 461, H 52	LED	830	2450	40	smart+free
312417.00X.1.76	D 461, H 52	LED	840	2550	40	DALI
312417.00X.1.730	D 461, H 52	LED	840	2550	40	smart+free

Diameter D 681 mm, Canopy Ø 263 mm, h 40 mm

312294.00X.76	D 681, H 52	LED	830	4300	68	DALI
312294.00X.730	D 681, H 52	LED	830	4300	68	smart+free
312294.00X.1.76	D 681, H 52	LED	840	4450	68	DALI
312294.00X.1.730	D 681, H 52	LED	840	4450	68	smart+free

Glass FerroMurano blue

Diameter D 461 mm, Canopy Ø 263 mm, h 40 mm

312418.00X.76	D 461, H 52	LED	830	2800	40	DALI
312418.00X.730	D 461, H 52	LED	830	2800	40	smart+free
312418.00X.1.76	D 461, H 52	LED	840	2950	40	DALI
312418.00X.1.730	D 461, H 52	LED	840	2950	40	smart+free

Diameter D 681 mm, Canopy Ø 263 mm, h 40 mm

312295.00X.76	D 681, H 52	LED	830	5150	68	DALI
312295.00X.730	D 681, H 52	LED	830	5150	68	smart+free
312295.00X.1.76	D 681, H 52	LED	840	5350	68	DALI
312295.00X.1.730	D 681, H 52	LED	840	5350	68	smart+free

Glass FerroMurano white

Diameter D 461 mm, Canopy Ø 263 mm, h 40 mm

312416.00X.76	D 461, H 52	LED	830	3150	40	DALI
312416.00X.730	D 461, H 52	LED	830	3150	40	smart+free
312416.00X.1.76	D 461, H 52	LED	840	3300	40	DALI
312416.00X.1.730	D 461, H 52	LED	840	3300	40	smart+free

Diameter D 681 mm, Canopy Ø 263 mm, h 40 mm

312293.00X.76	D 681, H 52	LED	830	5850	68	DALI
312293.00X.730	D 681, H 52	LED	830	5850	68	smart+free
312293.00X.1.76	D 681, H 52	LED	840	6000	68	DALI
312293.00X.1.730	D 681, H 52	LED	840	6000	68	smart+free



Further information on coloured FerroMurano glass as well as an overview of additional FerroMurano RZB luminaires can be found on page 280 of this catalogue or at www.rzb-lighting.com

The luminaire flux of each luminaire varies due to the difference in colour intensity and structure of the glasses. Light colour 827 on request.



The application image shows:
Triona



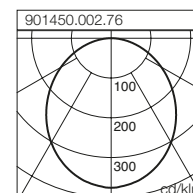


ECONE®

Pendant luminaires

- Effective LED wide field luminaire for interior use
- Ideally suited to health and care facilities, recommended for office, work, common and conference rooms
- Plastic light frame available in transparent or white with LED colour light channel (RGB)
- **Diffuser** made of **non-yellowing** plastic (PMMA) opal
- Suitable for circadian light gradient:
Two separate light rooms and the dynamic mixture of the light colours used enable the daylight simulation
- Intelligent and simple control (Plug & Play) with light control +³ Professional
- Also available as recessed or surface mounted version on demand

901450.002.76		
Floor 12 x 2,5 x 3 m (0,2m)		
100 lx	150 lx	200 lx
1	1	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
1	2	3



Pendant luminaires | Econe

Type of Protection: IP 20

Protection Class: I

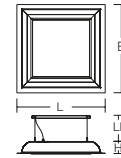
Impact Protection: IK02

Suspension Length: 100-2000 mm

Housing: sheet steel, powder-coated. Diffuser: plastic (non-yellowing PMMA), opal. Light frame transparent or white plastic with RZB LED light channel. Indirect light emission as an aesthetic appreciation for ceiling illumination. Driver included. 4-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Can be controlled via our **light control +³ Professional** light management system.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light output	Light colour	Luminous flux [lm]	System power [W]	dimmable
Pendant luminaires - Direct 40% - indirect 60% light emission							Price Category 21
Light frame: transparent							
901366.002.76	L 1000, B 1000, H 125	LED	direct light channel indirect	840 RGB 850	10900	168	DALI
Tunable White - 2700 K to 6500 K							
901450.002.76	L 1000, B 1000, H 125	LED	direct light channel indirect	827-865 RGB 850	8700	224	DALI
Light frame: white							
901403.002.76	L 1000, B 1000, H 125	LED	direct light channel indirect	840 RGB 850	8450	168	DALI



Light frame: transparent



Light frame: white

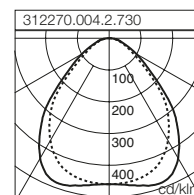


SIDELITE®

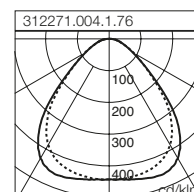
Pendant luminaires

- Aesthetically pleasing low profile luminaires that integrate advanced LED technology
- RZB SIDELITE® technology: lateral light injection for extremely homogeneous light distribution
- **Lightguide** and plastic **diffuser** made of **non-yellowing PMMA**
- Ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1
- LED rated life 50,000 h (L70, B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Very easy installation thanks to plug & play connection
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download

312270.004.2.730		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	5	8



312271.004.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



Further luminaires of this series, see:
 Indoor lighting | Surface mounted modular luminaires
 Indoor lighting | Free-standing luminaires

Pendant luminaires | Sidelite

Type of Protection: **IP 40**

Protection Class: I

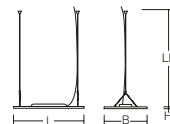
Impact Protection: IK03

Suspension Length: 300-3000 mm

Frame: extruded anodised aluminium profile. Cover: sheet steel, powder-coated. Lightguide and diffuser made of non-yellowing plastic (PMMA). Diffuser with microstructure (Suitable for use in environments with computer screens in accordance with EN 12464-1). Lateral light emission thanks to LED. Integral driver. 2-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 4 = aluminium, anodised

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires							
Price Category 21							
312270.004	L 598, B 598, H 49	LED	830	3800	33	18,1	on/off
312270.004.76	L 598, B 598, H 49	LED	830	3800	33	18,1	DALI
312270.004.1	L 598, B 598, H 49	LED	840	4300	33	18,9	on/off
312270.004.1.76	L 598, B 598, H 49	LED	840	4300	33	18,9	DALI
Tunable White - 2700 K to 6500 K							
312270.004.2.730	L 598, B 598, H 49	LED	827-865	2800	28	17,0	smart+free

Accessories							
Price Category 21							
981947.002	L 186, B 42, H 29	Canopy for DALI version (5 pole)					
981948.002	L 186, B 42, H 29	Canopy for standard version (3 pole) and Casambi smart+free					

Comparison LED vs. conventional lamps

LED 28 W ≈

4 x 14 W T16 (68 W Psys)

3 x 24 W T16 (75 W Psys)

LED 33 W ≈

4 x 24 W T16 (98 W Psys)

Pendant luminaires | Sidelite

Type of Protection: **IP 40**

Protection Class: I

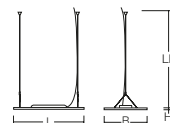
Impact Protection: IK03

Suspension Length: 300-3000 mm

Frame: extruded anodised aluminium profile. Cover: sheet steel, powder-coated. Lightguide and diffuser made of non-yellowing plastic (PMMA). Diffuser with microstructure (Suitable for use in environments with computer screens in accordance with EN 12464-1). Lateral light emission thanks to LED. Integral driver. 2-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 4 = aluminium, anodised

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires							
Price Category 21							
312271.004	L 1198, B 298, H 49	LED	830	3950	33	18,2	on/off
312271.004.76	L 1198, B 298, H 49	LED	830	3950	33	18,2	DALI
312271.004.1	L 1198, B 298, H 49	LED	840	4100	33	18,5	on/off
312271.004.1.76	L 1198, B 298, H 49	LED	840	4100	33	18,5	DALI
Tunable White - 2700 K to 6500 K							
312271.004.2.730	L 1198, B 298, H 49	LED	827-865	3350	28	17,6	smart+free

Accessories							
Price Category 21							
981947.002	L 186, B 42, H 29	Canopy for DALI version (5 pole)					
981948.002	L 186, B 42, H 29	Canopy for standard version (3 pole) and Casambi smart+free					

Comparison LED vs. conventional lamps

LED 28 W ≈

4 x 14 W T16 (68 W Psys)

3 x 24 W T16 (75 W Psys)

LED 33 W ≈

4 x 24 W T16 (98 W Psys)



Applies to
versions
with .76

Comparison

LED vs. conventional lamps

LED 19 / 23 W ≈

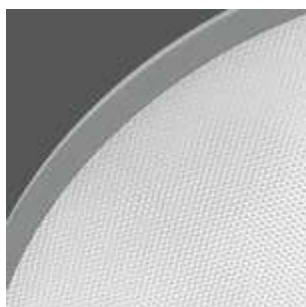
1 x 40 W T16-R (43 W Psys)
3 x 14 W T16 (52 W Psys)
3 x 18 W T26 (78 W Psys)

LED 24 / 25 W ≈

1 x 60 W T16-R (65 W Psys)
4 x 14 W T16 (68 W Psys)
4 x 18 W T26 (104 W Psys)

LED 31 / 35 W ≈

4 x 24 W T16 (98 W Psys)
2 x 36 W T26 (86 W Psys)



Diffuser: plastic (PMMA) opal/micropismatic

Pendant luminaires | Sidelite Round

Type of Protection: **IP 40**

Protection Class: I

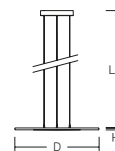
Impact Protection: IK03

Suspension Length: 500-1200 mm

Frame: extruded anodised aluminium profile. Lightguide and diffuser made of non-yellowing plastic (PMMA). Diffuser opal/micropismatic (Suitable for use in environments with computer screens in accordance with EN 12464-1). Canopy aluminium anodised. For pendant lengths of up to 2 m, power is supplied through a suspension cable. For pendant lengths of 2 m and more, and for all tunable white versions, power must be supplied through a separate cable. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request. Integral driver. Lateral light emission thanks to LED.

Available colour: aluminium, anodised

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimming	Price Category 21
Pendant luminaires								
Diffuser: plastic (PMMA) opal/micropismatic								
Diameter D 348 mm, canopy Ø 221 mm, h 36 mm								
311998.000.76	D 348, H 15	LED	830	1800	19	21,5	DALI	
311998.000.730	D 348, H 15	LED	830	1800	19	21,5	smart+free	
311998.000.1.76	D 348, H 15	LED	840	1900	19	21,7	DALI	
311998.000.1.730	D 348, H 15	LED	840	1900	19	21,7	smart+free	
Tunable White - 2700 K to 6500 K								
311998.000.2.76	D 348, H 15	LED	827-865	1900	23	21,4	DALI	
311998.000.2.730	D 348, H 15	LED	827-865	1900	23	21,4	smart+free	
Diameter D 457 mm, canopy Ø 221 mm, h 36 mm								
311911.004.76	D 457, H 15	LED	830	2500	24	20,4	DALI	
311911.004.730	D 457, H 15	LED	830	2500	24	20,4	smart+free	
311911.004.1.76	D 457, H 15	LED	840	2650	24	20,6	DALI	
311911.004.1.730	D 457, H 15	LED	840	2650	24	20,6	smart+free	
Tunable White - 2700 K to 6500 K								
311911.004.2.76	D 457, H 15	LED	827-865	2250	25	20,2	DALI	
311911.004.2.730	D 457, H 15	LED	827-865	2250	25	20,2	smart+free	
Diameter D 675 mm, canopy Ø 263 mm, h 40 mm								
311681.000.76	D 675, H 15	LED	830	3250	31	18,5	DALI	
311681.000.730	D 675, H 15	LED	830	3250	31	18,5	smart+free	
311681.000.1.76	D 675, H 15	LED	840	3450	31	18,7	DALI	
311681.000.1.730	D 675, H 15	LED	840	3450	31	18,7	smart+free	
Tunable White - 2700 K to 6500 K								
311681.000.2.76	D 675, H 15	LED	827-865	3600	35	18,4	DALI	
311681.000.2.730	D 675, H 15	LED	827-865	3600	35	18,4	smart+free	

Light colour 827 on request.

Pendant luminaires | Sidelite Round FerroMurano

Type of Protection: **IP 40**

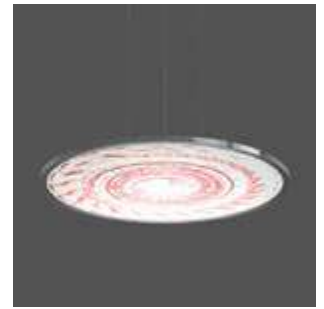
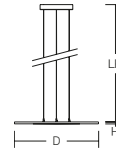
Protection Class: I

Impact Protection: IK02

Suspension Length: 500-1200 mm

Frame: extruded anodised aluminium profile. Diffuser: handcrafted, coloured glass FerroMurano. Canopy aluminium anodised. For pendant lengths of up to 2 m, power is supplied through a suspension cable. For pendant lengths of 2 m and more, and for all tunable white versions, power must be supplied through a separate cable. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request. Integral driver. Lateral light emission thanks to LED.

Available colour: aluminium, anodised



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
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Pendant luminaires

Price Category 21

Glass FerroMurano red

Diameter D 457 mm, canopy Ø 221 mm, h 36 mm

311907.004.76	D 457, H 15	LED	830	1850	38	DALI
311907.004.1.76	D 457, H 15	LED	840	2050	38	DALI

Diameter D 675 mm, canopy Ø 263 mm, h 40 mm

311677.000.76	D 675, H 15	LED	830	3450	54	DALI
311677.000.1.76	D 675, H 15	LED	840	3750	54	DALI

Glass FerroMurano blue

Diameter D 457 mm, canopy Ø 221 mm, h 36 mm

311908.004.76	D 457, H 15	LED	830	2400	38	DALI
311908.004.1.76	D 457, H 15	LED	840	2650	38	DALI

Diameter D 675 mm, canopy Ø 263 mm, h 40 mm

311678.000.76	D 675, H 15	LED	830	4300	54	DALI
311678.000.1.76	D 675, H 15	LED	840	4600	54	DALI

Glass FerroMurano white

Diameter D 457 mm, canopy Ø 221 mm, h 36 mm

311910.004.76	D 457, H 15	LED	830	3000	38	DALI
311910.004.1.76	D 457, H 15	LED	840	3200	38	DALI

Diameter D 675 mm, canopy Ø 263 mm, h 40 mm

311693.000.76	D 675, H 15	LED	830	4900	54	DALI
311693.000.1.76	D 675, H 15	LED	840	5400	54	DALI

The luminaire flux of each luminaire varies due to the difference in colour intensity and structure of the glasses.
Light colour 827 on request.



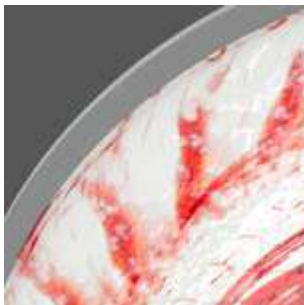
Comparison LED vs. conventional lamps

LED 38 W ≈

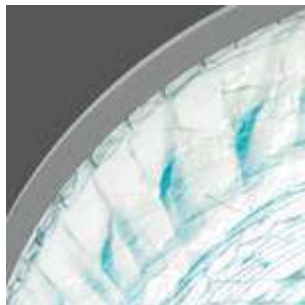
1 x 40 W T16-R (43 W Psys)
3 x 14 W T16 (52 W Psys)

LED 54 W ≈

1 x 55 W T16-R (60 W Psys)
4 x 14 W T16 (68 W Psys)
4 x 18 W T26 (104 W Psys)



Glass FerroMurano red



Glass FerroMurano blue



Glass FerroMurano white



Further information on coloured FerroMurano glass as well as an overview of additional FerroMurano RZB luminaires can be found on page 280 of this catalogue or at www.rzb-lighting.com

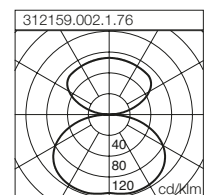


SIDELITE® ECO

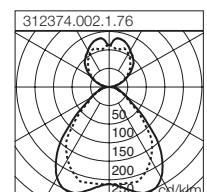
Pendant luminaires

- Extremely cost efficient luminaires with advanced LED technology, available as ceiling, wall, recessed or suspended lighting solutions for interiors
- Ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1
- Lightguide and diffuser made of non-yellowing PMMA with microprismatic
- RZB SIDELITE® technology: lateral light injection for extremely homogeneous light distribution
- LED rated life 50,000 h (L70/B10)
- Luminous efficiency of up to 128 lm/W
- Flicker < 5%
- External converter with simple plug-in locking system

312159.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	5	8



312374.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



Further luminaires of this series, see:
 Indoor lighting | Recessed modular luminaires
 Indoor lighting | Surface mounted modular luminaires
 Indoor lighting | Free-standing luminaires
 Emergency lighting | Escape route illumination

Pendant luminaires | Sidelite ECO

Type of Protection: IP 20, IP 40

Protection Class: II

Impact Protection: IK03

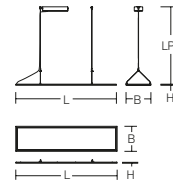
Suspension Length: 300-1500 mm

Frame: aluminium, powder-coated. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Diffuser made of non-yellowing plastic, opal or microprismatic (Suitable for use in environments with computer screens in accordance with EN 12464-1). Lateral light emission thanks to LED.

Converter in the canopy. 2-point steel cable suspension, steplessly adjustable.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires - Direct 80% - indirect 20% light emission							
Diffuser: plastic (PMMA), opal							
312373.002	L 1195, B 295, H 12	LED	830	3800	34	19,5	on/off
312373.002.76	L 1195, B 295, H 12	LED	830	3800	34	19,5	DALI
312373.002.1	L 1195, B 295, H 12	LED	840	3950	34	19,6	on/off
312373.002.1.76	L 1195, B 295, H 12	LED	840	3950	34	19,6	DALI
Diffuser plastic (PMMA) micro prismatic							
312374.002	L 1195, B 295, H 12	LED	830	4000	34	14,6	on/off
312374.002.76	L 1195, B 295, H 12	LED	830	4000	34	14,6	DALI
312374.002.1	L 1195, B 295, H 12	LED	840	4150	34	14,7	on/off
312374.002.1.76	L 1195, B 295, H 12	LED	840	4150	34	14,7	DALI

Comparison LED vs. conventional lamps

LED 34 W ≈
2 x 28 W T16 (61 W Psys)

Pendant luminaires | Sidelite ECO

Type of Protection: IP 40

Protection Class: II

Impact Protection: IK03

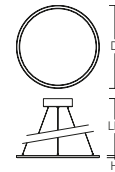
Suspension Length: 300-1500 mm

Frame: aluminium, powder-coated. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Choice of opal or transparent plastic (PMMA) diffuser. Lateral light emission thanks to LED.

Converter in the canopy. 3-point steel cable suspension, steplessly adjustable.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires - Direct 50% - indirect 50% light emission							
Diffuser: plastic (PMMA), opal							
312158.002	D 580, H 15	LED	830	3250	39	15,8	on/off
312158.002.76	D 580, H 15	LED	830	3250	39	15,8	DALI
312158.002.1	D 580, H 15	LED	840	3250	39	15,8	on/off
312158.002.1.76	D 580, H 15	LED	840	3250	39	15,8	DALI
Diffuser: plastic (PMMA), transparent							
312159.002	D 580, H 15	LED	830	3400	39	19,4	on/off
312159.002.76	D 580, H 15	LED	830	3400	39	19,4	DALI
312159.002.1	D 580, H 15	LED	840	3550	39	19,7	on/off
312159.002.1.76	D 580, H 15	LED	840	3550	39	19,7	DALI

Comparison LED vs. conventional lamps

LED 39 W ≈
1 x 60 W T16-R (65 W Psys)
2 x 32 W T16-R (69 W Psys)



Diffuser: opal



Diffuser: transparent (off)

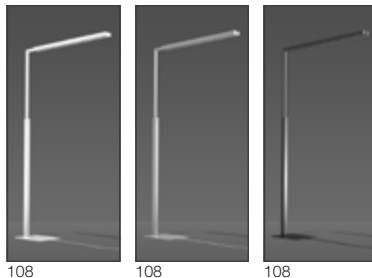


Diffuser: transparent (on)



The application image shows:
Less is more 27

© shutterstock

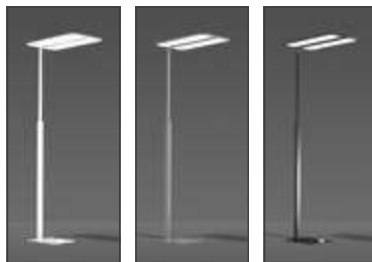


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108

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Less is more 27
106-109



112

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Sidelite
110-113



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Sidelite ECO
114-115



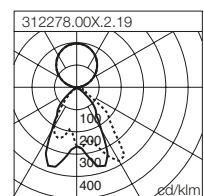
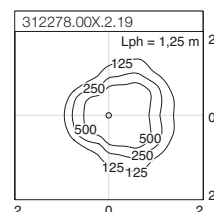
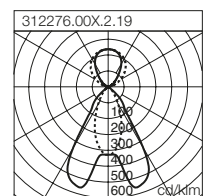
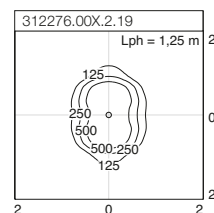
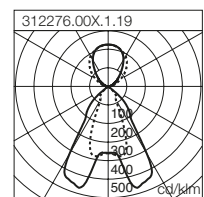
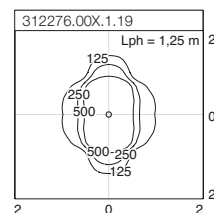
LESS IS MORE® 27

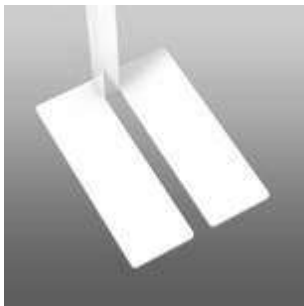
Free-standing luminaires

- LED free-standing luminaires for single and double workplaces
- Versions with intelligent presence control and brightness sensors
- Version with asymmetrical light characteristics for high degree of uniformity in the workplace
- Ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1
- Extremely flat luminaire top
- With integrated converter
- Direct and indirect light output
- LED rated life 60,000 h (L80/B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Flush membrane switch for easy operation
- Versions with wide opening in the base plate especially for double workplaces



Further luminaires of this series, see:
Indoor lighting | LED linear systems





Base plate (405 x 300 mm) with narrow opening (35 mm)



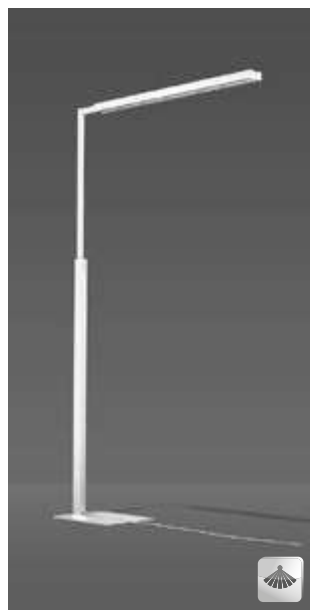
Base plate (450 x 340 mm) with wide opening (150 mm)



Flush membrane switch for easy operation



Versions with intelligent presence control and brightness sensors



Comparison LED vs. conventional lamps

LED 80 W ≈

2 x 58 W T26 (134 W Psys)

LED 92 W ≈

3 x 58 W T26 (201 W Psys)

Free-standing luminaires | Less is more 27

Type of Protection: IP 20

Protection Class: I

Impact Protection: IK02

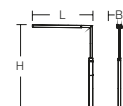
LED free-standing luminaires for single and double workplaces, optionally with intelligent presence control and brightness sensors. Integral driver located inside the column. Direct/indirect emission in 60:40 ratio. Direct light control via aluminium micro-grid in smooth finish (screen-compliant according to EN-12464-1). Indirect light control via satin-finish plastic diffuser in non-yellowing PMMA. Flat steel base plate for high stability and space-saving positioning with office furniture. Top and column made of aluminium. Luminaire powder coated. Pushbutton ergonomically integrated in the luminaire column. With 2 m connection cable including safety plug (Schuko). Dimming range 1% to 100%.

Touch-Dim version: The luminaire remains switched off after the mains supply is restored.

Version with sensors: The luminaire goes into stand-by after the mains supply is restored.

Luminaire top 2x (L 1013 x W 28 x H 37 mm).

Available colours (X): 2 = white, 3 = black, 45 = white aluminium



Free-standing luminaires, Direct/indirect - can be switched together/dimmable, Symmetrical light distribution Price Category 21

Base plate with narrow opening

312248.00X	L 1170, B 300, H 2033	LED	830	8650	92	14,9	Touch-Dim
312248.00X.19	L 1170, B 300, H 2033	LED	830	8650	92	14,9	Sensor
312248.00X.1	L 1170, B 300, H 2033	LED	840	8650	92	15,1	Touch-Dim
312248.00X.1.19	L 1170, B 300, H 2033	LED	840	8650	92	15,1	Sensor

Base plate with wide opening

312249.00X	L 1170, B 340, H 2033	LED	830	8650	92	15,1	Touch-Dim
312249.00X.19	L 1170, B 340, H 2033	LED	830	8650	92	15,1	Sensor
312249.00X.1	L 1170, B 340, H 2033	LED	840	8650	92	15,1	Touch-Dim
312249.00X.1.19	L 1170, B 340, H 2033	LED	840	8650	92	15,1	Sensor



Free-standing luminaires, Direct/indirect - can be switched separately/dimmable, Symmetrical light distribution Price Category 21

Base plate with narrow opening

312276.00X	L 1170, B 300, H 2033	LED	830	8650	92	14,9	Touch-Dim
312276.00X.19	L 1170, B 300, H 2033	LED	830	8650	92	14,9	Sensor
312276.00X.1	L 1170, B 300, H 2033	LED	840	8650	92	15,1	Touch-Dim
312276.00X.1.19	L 1170, B 300, H 2033	LED	840	8650	92	15,1	Sensor

Tunable White - indirect part: 2700 K to 6500 K | direct part: 4000 K

312276.00X.2	L 1170, B 300, H 2033	LED	840 + 827-865	6200	80	13,3	Touch-Dim
312276.00X.2.19	L 1170, B 300, H 2033	LED	840 + 827-865	6200	80	13,3	Sensor

Base plate with wide opening

312277.00X	L 1170, B 340, H 2033	LED	830	8650	92	14,9	Touch-Dim
312277.00X.19	L 1170, B 340, H 2033	LED	830	8650	92	14,9	Sensor
312277.00X.1	L 1170, B 340, H 2033	LED	840	8650	92	15,1	Touch-Dim
312277.00X.1.19	L 1170, B 340, H 2033	LED	840	8650	92	15,1	Sensor

Tunable White - indirect part: 2700 K to 6500 K | direct part: 4000 K

312277.00X.2	L 1170, B 340, H 2033	LED	840 + 827-865	6200	80	13,3	Touch-Dim
312277.00X.2.19	L 1170, B 340, H 2033	LED	840 + 827-865	6200	80	13,3	Sensor



Free-standing luminaires, Direct/indirect - can be switched separately/dimmable, Asymmetrical light distribution Price Category 21

Base plate with narrow opening

312278.00X	L 1170, B 300, H 2033	LED	830	8700	92	20,6	Touch-Dim
312278.00X.19	L 1170, B 300, H 2033	LED	830	8700	92	20,6	Sensor
312278.00X.1	L 1170, B 300, H 2033	LED	840	9150	92	20,8	Touch-Dim
312278.00X.1.19	L 1170, B 300, H 2033	LED	840	9150	92	20,8	Sensor

Tunable White - indirect part: 2700 K to 6500 K | direct part: 4000 K

312278.00X.2	L 1170, B 300, H 2033	LED	840 + 827-865	7050	80	22,4	Touch-Dim
312278.00X.2.19	L 1170, B 300, H 2033	LED	840 + 827-865	7050	80	22,4	Sensor

Base plate with wide opening

312279.00X	L 1170, B 340, H 2033	LED	830	8700	92	20,6	Touch-Dim
312279.00X.19	L 1170, B 340, H 2033	LED	830	8700	92	20,6	Sensor
312279.00X.1	L 1170, B 340, H 2033	LED	840	9150	92	20,8	Touch-Dim
312279.00X.1.19	L 1170, B 340, H 2033	LED	840	9150	92	20,8	Sensor

Tunable White - indirect part: 2700 K to 6500 K | direct part: 4000 K

312279.00X.2	L 1170, B 340, H 2033	LED	840 + 827-865	7050	80	22,4	Touch-Dim
312279.00X.2.19	L 1170, B 340, H 2033	LED	840 + 827-865	7050	80	22,4	Sensor

Sample product performance comparison with direct and indirect light emission

Length 4.0 m | Width 3.50 m | Height 2.80 m | Maintenance factor 0.80 | Working plane 0.75 m | Mounting Height 2.0 m

Single workplace



Reference number	312276.002.1.19
Wattage	LED 92 W / 8650 lm
Number of luminaires	1
Average illuminance	Em > 500 lx



Double workplace



Reference number	312279.002.1.19
Wattage	LED 92 W / 9150 lm
Number of luminaires	1
Average illuminance	Em > 500 lx
High uniformity of light distribution by means of asymmetrical light emittance	

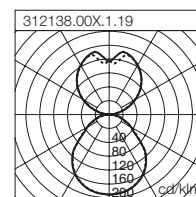
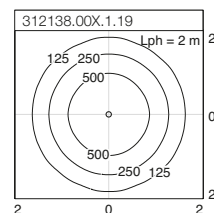




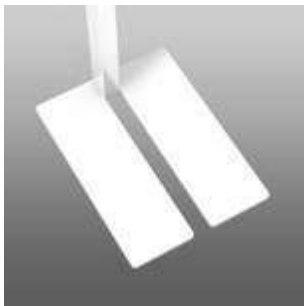
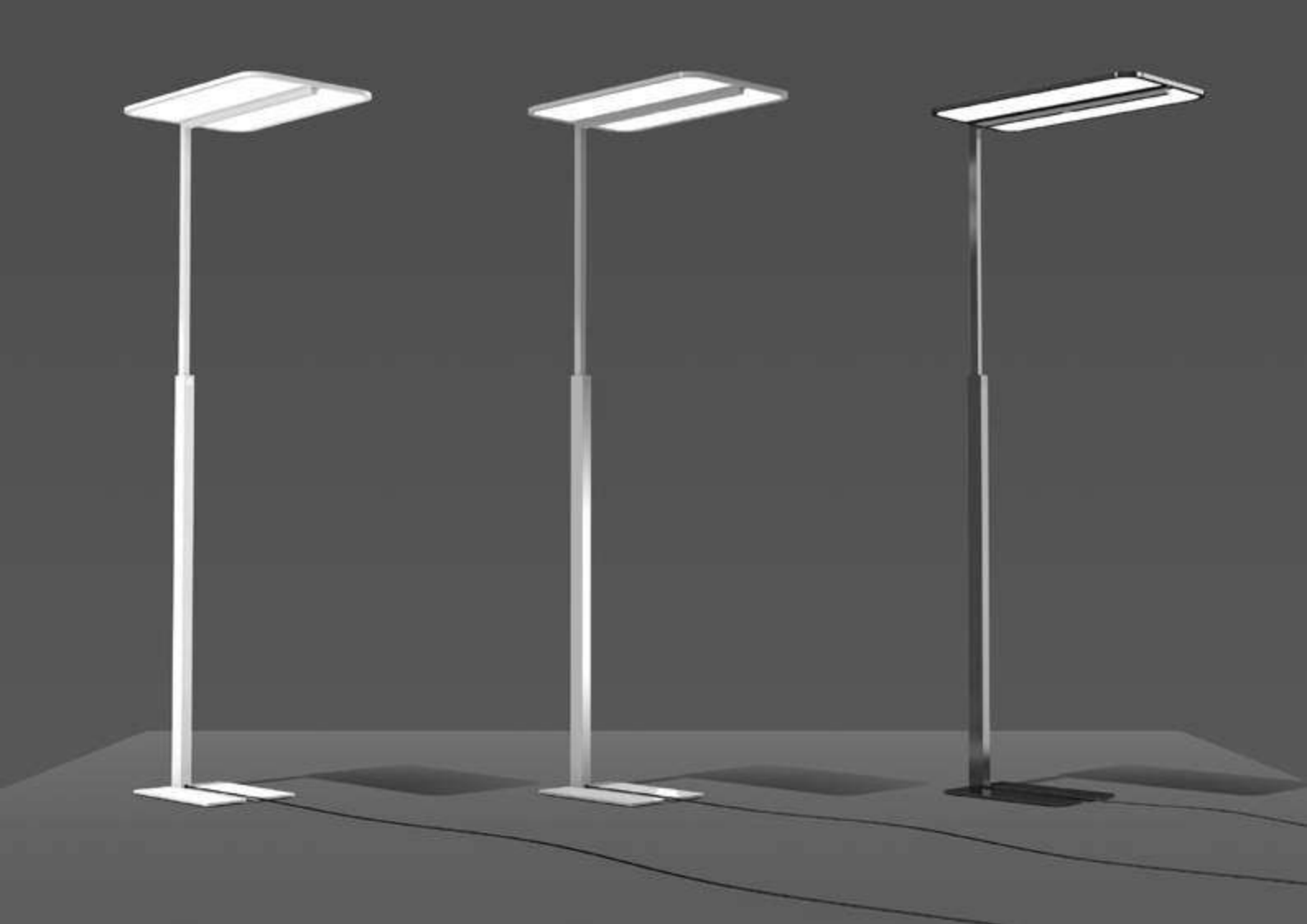
SIDELITE®

Free-standing luminaires

- LED free-standing luminaires for single and double workplaces
- Versions with intelligent presence control and brightness sensors
- Ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1
- Extremely flat luminaire top
- With integrated converter
- Direct and indirect light output
- LED rated life 50,000 h (L70/B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Flush membrane switch for easy operation
- Versions with wide opening in the base plate especially for double workplaces



Further luminaires of this series, see:
 Indoor lighting | Surface mounted modular luminaires
 Indoor lighting | Suspended modular luminaires



Base plate (405 x 300 mm) with narrow opening (35 mm)



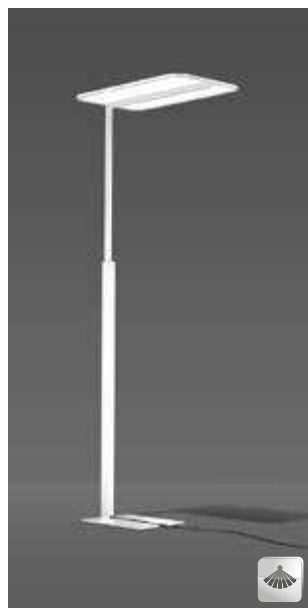
Base plate (450 x 340 mm) with wide opening (150 mm)



Flush membrane switch for easy operation



Versions with intelligent presence control and brightness sensors



Free-standing luminaires | Sidelite

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK04

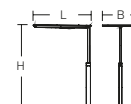
LED free-standing luminaires for single and double workplaces, optionally with intelligent presence control and brightness sensors. Integral driver located inside the column. Direct/indirect emission in 60:40 ratio. Direct light control via microprismatic plastic diffuser (screen-compliant according to EN-12464-1). Indirect light control via opal plastic diffuser, diffusers and light guide made of non-yellowing PMMA. Flat steel base plate for high stability and space-saving positioning with office furniture. Top and column made of aluminium. Luminaire powder coated. Pushbutton ergonomically integrated in the luminaire column. With 2 m connection cable including safety plug (Schuko). Dimming range 1% to 100%.

Touch-Dim version: The luminaire remains switched off after the mains supply is restored.

Version with sensors: The luminaire goes into stand-by after the mains supply is restored.

Luminaire top (L 715 x W 440 x H 15 mm).

Available colours (X): 2 = white, 3 = black, 45 = white aluminium



Free-standing luminaires, Direct/indirect - can be switched together/dimmable

Price Category 21

Base plate with narrow opening

312138.00X	L 715, B 440, H 2037	LED	830	7200	70	17,8	Touch-Dim
312138.00X.19	L 715, B 440, H 2037	LED	830	7200	70	17,8	Sensor
312138.00X.1	L 715, B 440, H 2037	LED	840	7200	70	17,8	Touch-Dim
312138.00X.1.19	L 715, B 440, H 2037	LED	840	7200	70	17,8	Sensor

Base plate with wide opening

312139.00X	L 715, B 440, H 2037	LED	830	7200	70	17,8	Touch-Dim
312139.00X.19	L 715, B 440, H 2037	LED	830	7200	70	17,8	Sensor
312139.00X.1	L 715, B 440, H 2037	LED	840	7200	70	17,8	Touch-Dim
312139.00X.1.19	L 715, B 440, H 2037	LED	840	7200	70	17,8	Sensor

Comparison LED vs. conventional lamps

LED 70 W ≈
2 x 58 W T26 (134 W Psys)

Sample product performance comparison with direct and indirect light emission

Length 4.0 m | Width 3.50 m | Height 2.80 m | Maintenance factor 0.80 | Working plane 0.75 m | Mounting Height 2.0 m

Single workplace



Reference number	312138.002.1
Wattage	LED 70 W / 7200 lm
Number of luminaires	1
Average illuminance	Em > 500 lx



Double workplace



Reference number	312139.002.1
Wattage	LED 70 W / 7200 lm
Number of luminaires	1
Average illuminance	Em > 500 lx



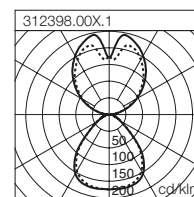
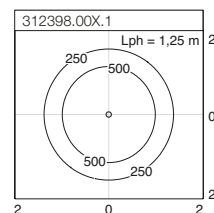




SIDELITE® ECO

Free-standing luminaires

- LED free-standing luminaires for single and double workplaces
- Ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1
- Flat luminaire head
- With integrated converter
- Direct and indirect light output
- LED rated life 40,000 h (L80/B10)



Further luminaires of this series, see:
 Indoor lighting | Recessed modular luminaires
 Indoor lighting | Surface mounted modular luminaires
 Indoor lighting | Suspended modular luminaires

Free-standing luminaires | Sidelite ECO

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK02

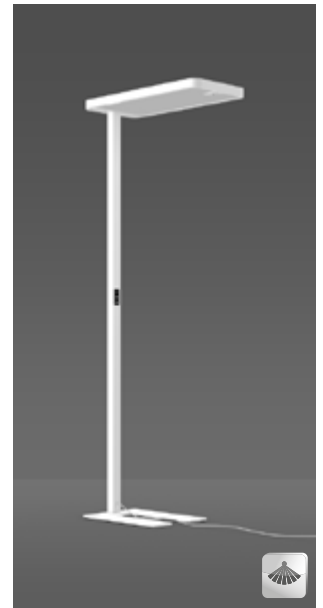
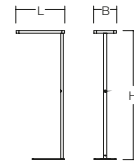
LED free-standing luminaires for single and double workplaces, optionally with intelligent presence control and brightness sensors. Integral driver located inside the column. Direct/indirect emission in 40:60 ratio. Direct light control using plastic diffuser with fine microstructure (screen-compliant in accordance with EN 12464-1). Indirect light control via opal plastic diffuser, diffusers and light guide made of non-yellowing PMMA. Flat steel base plate for high stability and space-saving positioning with office furniture. Top and column made of aluminium. Luminaire powder coated. Pushbutton ergonomically integrated in the luminaire column. With 2 m connection cable including safety plug (Schuko). Dimming range 10% to 100%.

Touch-Dim version: The luminaire remains switched off after the mains supply is restored.

Version with sensors: The luminaire goes into stand-by after the mains supply is restored.

Luminaire top (L 750 x W 350 x H 40 mm).

Available colours (X): 2 = white, 45 = white aluminium



Free-standing luminaires, Direct/indirect - can be switched separately/dimmable

Price Category 21

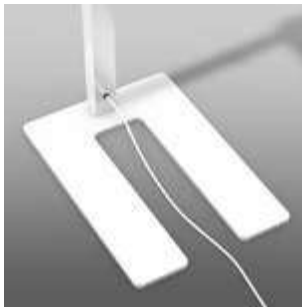
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
312398.00X.1	L 750, B 350, H 2000	LED	840	9900	93	14,7	Touch-Dim
312398.00X.1.19	L 750, B 350, H 2000	LED	840	9900	93	14,7	Sensor

Comparison

LED vs. conventional lamps

LED 93 W ≈

4 x 35 W T16 (150 W Psys)



Base plate (350 x 500 mm) with opening (115 mm)



Micro-prismatic diffuser



Versions with intelligent presence control and brightness sensors



Flush membrane switch for easy operation

Sample product performance comparison with direct and indirect light emission

Length 4.0 m | Width 3.50 m | Height 2.80 m | Maintenance factor 0.80 | Working plane 0.75 m | Mounting Height 2.0 m

Single workplace



Reference number	312398.002.1
Wattage	LED 93 W / 9900 lm
Number of luminaires	1
Average illuminance	Em > 500 lx



Double workplace











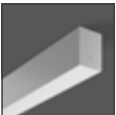


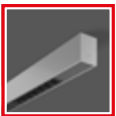
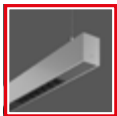

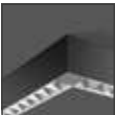
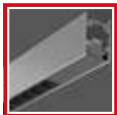












Reference number	312398.002.1
Wattage	LED 93 W / 9900 lm
Number of luminaires	1
Average illuminance	Em > 500 lx

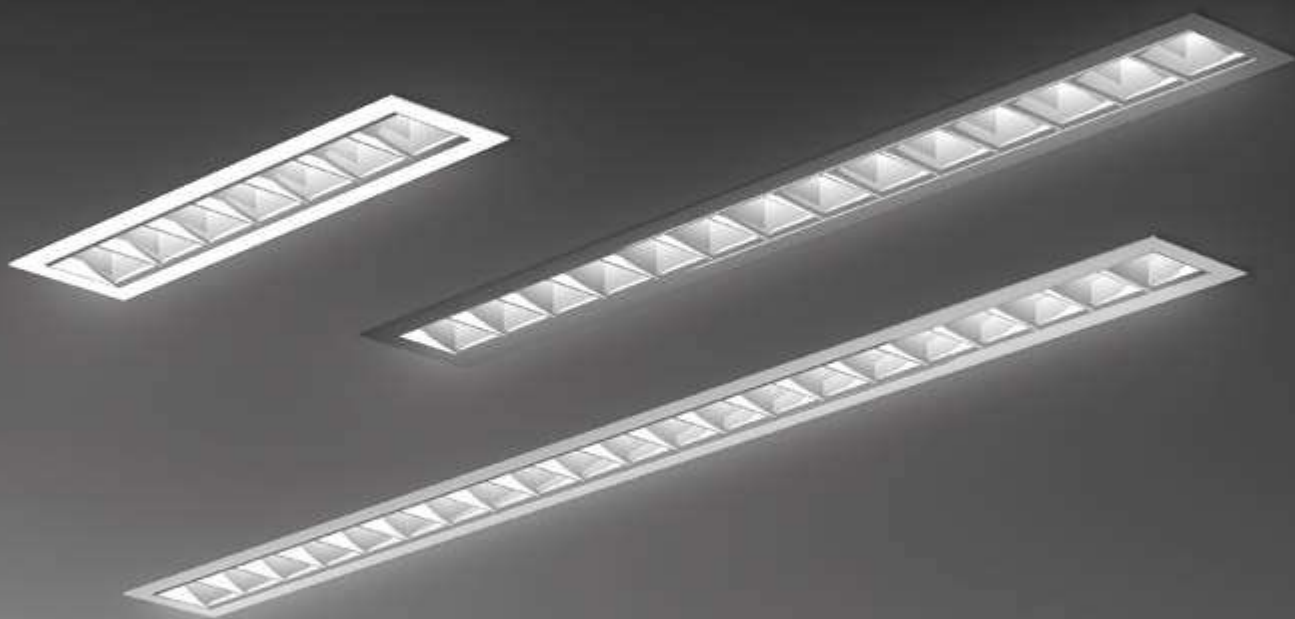




The application image shows:
Less is more 27 System



		Allea Spot 118-119
		BeamLine Slim 120-125
		Less is more 21 126-129
		Less is more 27 130-135
		Less is more 50 136-141
		Less is more BeamLine 142-153
		Less is more - Systeme 154-163
		Linear System 164-165
		High Power 166-167
		LED it Strip 168-169
		Less is more Flex 170-175
		
		
		
		
		
		
		
		
		

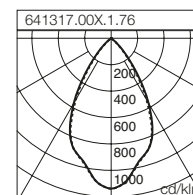


ALEA SPOT

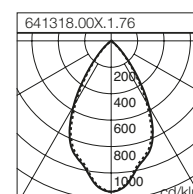
Recessed ceiling luminaires

- Highly efficient LED luminaire
- Narrow beam version
- **Alea optical system:** ideal for office areas (UGR ≤ 19) and computer workstations in accordance with EN 12464-1
- **Diffuser** made of **non-yellowing plastic (PMMA)** opal
- Flat design
- LED rated life 50,000 h (L80/B10)
- Luminous efficiency up to 130 lm/W

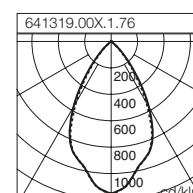
641317.00X.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
5	7	9
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
7	10	17



641318.00X.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	6	9



641319.00X.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



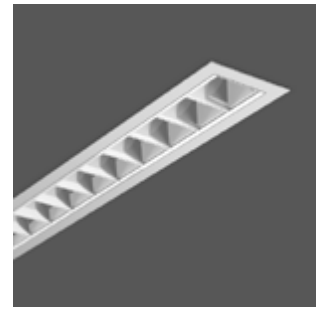
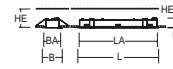
Recessed ceiling luminaires | Alea Spot

Type of Protection: IP 20
Protection Class: II
Ceiling thickness: 1-20 mm
Impact Protection: IK03

Housing: metal, powder-coated. **Alea optical system:** Reflector structure (ABS, Aluminium-coated, highly polished) with diffuser made of non-yellowing plastic (PMMA) opal for glare-free light at the workstation (screen-compliant according to EN 12464-1). Luminaire mounting with spring system. Incl. separate LED converter with connecting cable 550 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-able
Recessed ceiling luminaires							
Length L 306 mm, LA 298 x BA 66 mm, HE 90 mm							
641317.00X	L 306, B 75, H 2, HEL 35	LED	830	950	8,2	16,7	on/off
641317.00X.76	L 306, B 75, H 2, HEL 35	LED	830	950	8,2	16,7	DALI
641317.00X.730	L 306, B 75, H 2, HEL 35	LED	830	950	8,2	16,7	smart+free
641317.00X.1	L 306, B 75, H 2, HEL 35	LED	840	1000	8,2	16,9	on/off
641317.00X.1.76	L 306, B 75, H 2, HEL 35	LED	840	1000	8,2	16,9	DALI
641317.00X.1.730	L 306, B 75, H 2, HEL 35	LED	840	1000	8,2	16,9	smart+free
Length L 586 mm, LA 578 x BA 66 mm, HE 90 mm							
641318.00X	L 586, B 75, H 2, HEL 35	LED	830	1900	15	16,7	on/off
641318.00X.76	L 586, B 75, H 2, HEL 35	LED	830	1900	15	16,7	DALI
641318.00X.730	L 586, B 75, H 2, HEL 35	LED	830	1900	15	16,7	smart+free
641318.00X.1	L 586, B 75, H 2, HEL 35	LED	840	1950	15	16,8	on/off
641318.00X.1.76	L 586, B 75, H 2, HEL 35	LED	840	1950	15	16,8	DALI
641318.00X.1.730	L 586, B 75, H 2, HEL 35	LED	840	1950	15	16,8	smart+free
Length L 866 mm, LA 858 x BA 66 mm, HE 90 mm							
641319.00X	L 866, B 75, H 2, HEL 35	LED	830	2650	21	16,4	on/off
641319.00X.76	L 866, B 75, H 2, HEL 35	LED	830	2650	21	16,4	DALI
641319.00X.730	L 866, B 75, H 2, HEL 35	LED	830	2650	21	16,4	smart+free
641319.00X.1	L 866, B 75, H 2, HEL 35	LED	840	2750	21	16,6	on/off
641319.00X.1.76	L 866, B 75, H 2, HEL 35	LED	840	2750	21	16,6	DALI
641319.00X.1.730	L 866, B 75, H 2, HEL 35	LED	840	2750	21	16,6	smart+free

Comparison LED vs. conventional lamps

LED 8,2 W ≈

1 x 14 W T16 (18 W Psys)

LED 15 W ≈

1 x 21 W T16 (24 W Psys)

LED 21 W ≈

1 x 35 W T16 (38 W Psys)

ALEA OPTICAL SYSTEM

A brilliant example of the power of innovation:

The Alea optical system in the Alea Spot combines square reflector elements with a linear structure. The integrated opal diffuser reduces direct glare, ensures excellent light quality and protects the highly efficient LEDs.

Highly efficient LED



Diffuser made of non-yellowing plastic (PMMA)

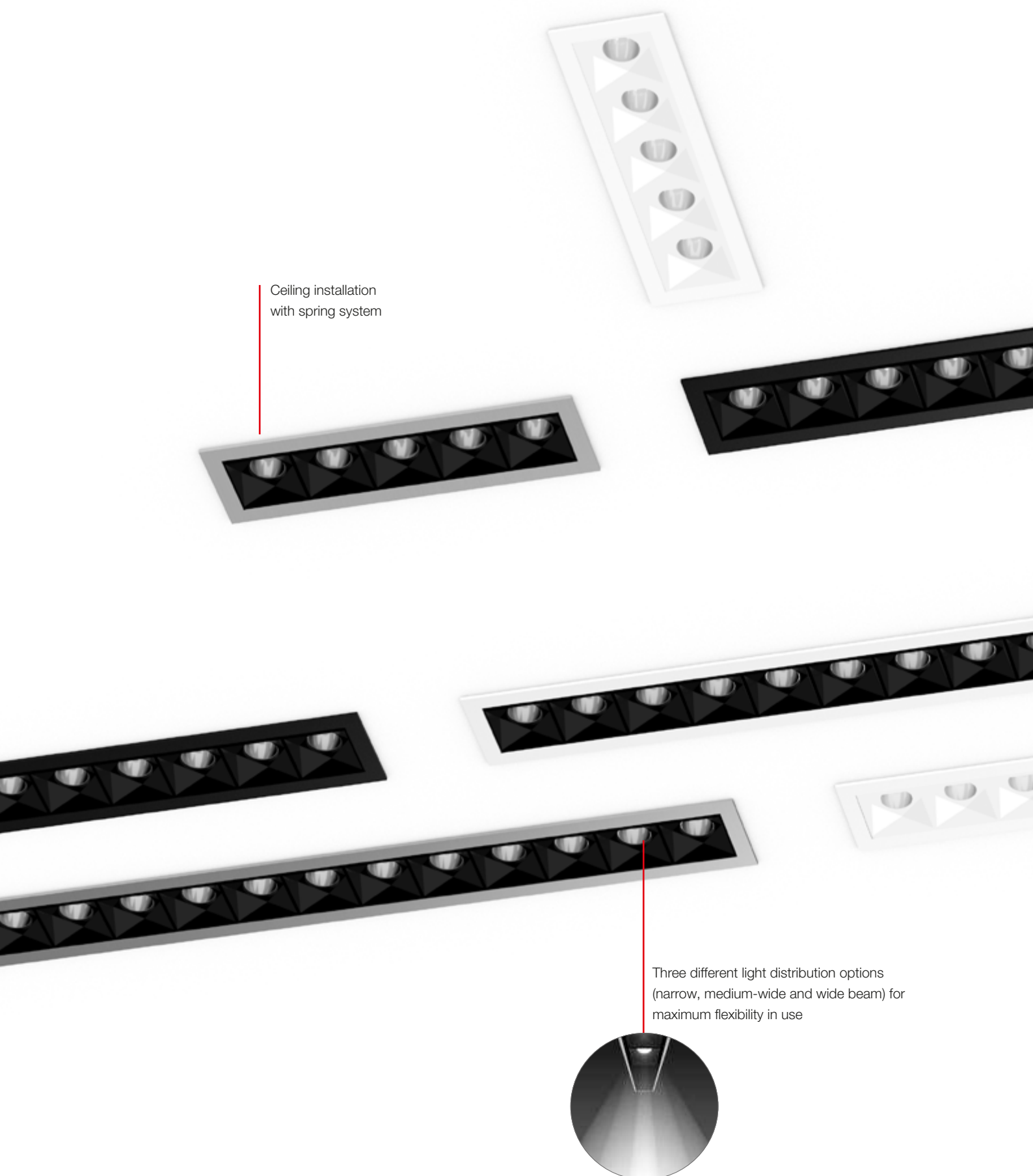


Reflector structure (ABS, Aluminium-coated, highly polished)



BEAMLINE SLIM

Everything at a glance





Very easy installation thanks
to plug & play connection

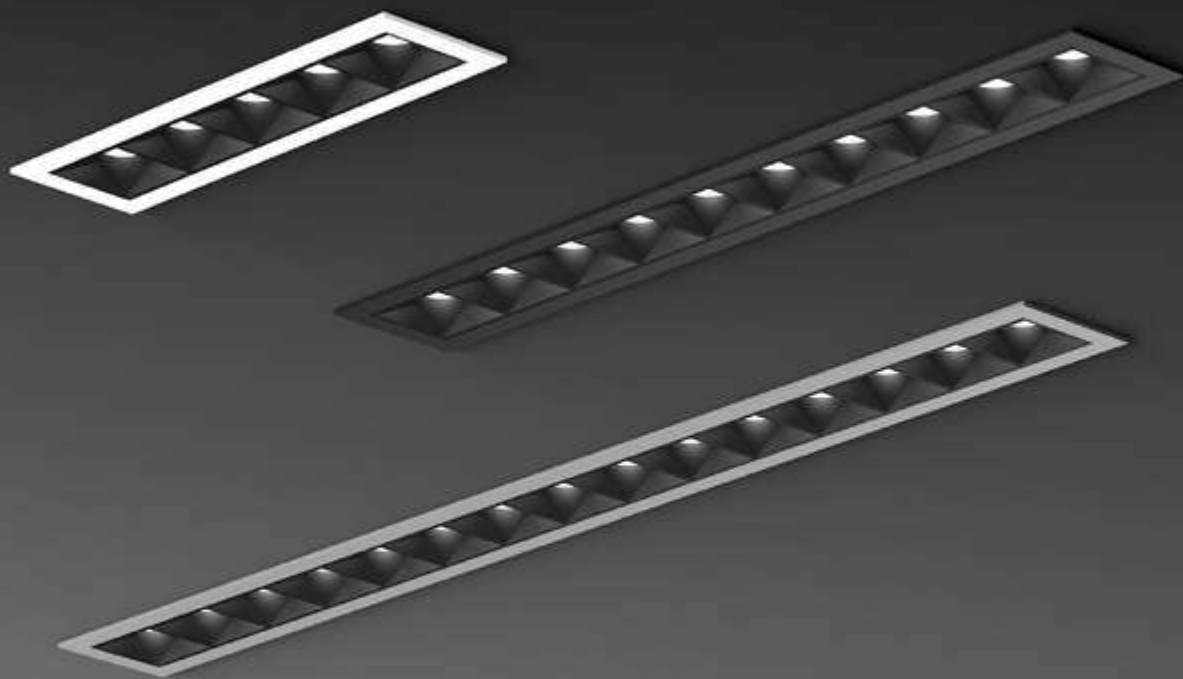
No glare in the dipped area
thanks to the darklight effect



Colour rendering index CRI ≥ 90 for
true-to-life colour reproduction

MRS technology:
Mini-Reflector-System made of metallised
thermoplastic with prismatic black
glare-suppressing frame for pleasant
glare-free light (UGR < 10)



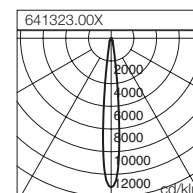


BEAMLINE SLIM

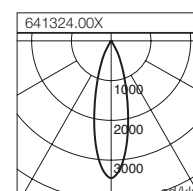
Recessed ceiling luminaires

- LED luminaire with slim design
- Light perfectly integrated into the architectural environment
- MRS technology for pleasant, glare-free lighting (UGR < 10)
- Darklight effect
- Very easy installation thanks to plug & play connection
- Easy to install thanks to tool-free spring fastening system
- LED rated life 50,000 h (L80/B10)
- Colour rendering index Ra ≥ 90

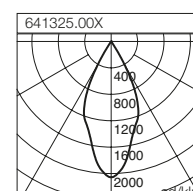
641323.00X		
h [m]	Ø [m]	E [lx]
1,0	0,21	9463
2,0	0,41	2366
3,0	0,62	1051
4,0	0,83	591
5,0	1,03	379



641324.00X		
h [m]	Ø [m]	E [lx]
1,0	0,50	2603
2,0	1,00	651
3,0	1,50	289
4,0	1,99	163
5,0	2,49	104



641325.00X		
h [m]	Ø [m]	E [lx]
1,0	0,85	1575
2,0	1,70	394
3,0	2,55	175
4,0	3,40	98
5,0	4,24	63



MRS technology

Mini-Reflector-System made of metallised thermoplastic with prismatic glare-suppressing frame for pleasant glare-free light (UGR < 10).

Recessed ceiling luminaires | BeamLine Slim

Type of Protection: IP 20

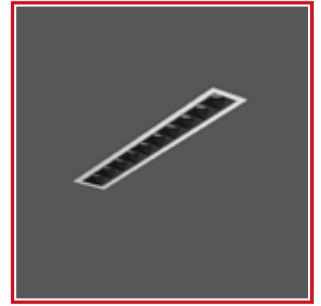
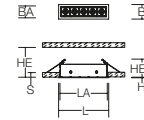
Protection Class: II

Ceiling thickness S: 1-50 mm

Impact Protection: IK03

Housing: metal, powder-coated. Perfect heat management with an aluminium heat sink. LED light unit with **MRS technology**: Mini-Reflector-System made of metallised thermoplastic with prismatic black glare-suppressing frame for pleasant glare-free light (UGR < 10). Three different light distribution options (narrow, medium-wide and wide beam) for maximum flexibility in use. Ceiling installation with spring system. Incl. separate LED converter with connecting cable 450 mm.

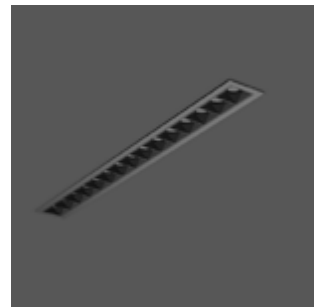
Available colours (X): 2 = white, 3 = black, 4 = silver coloured



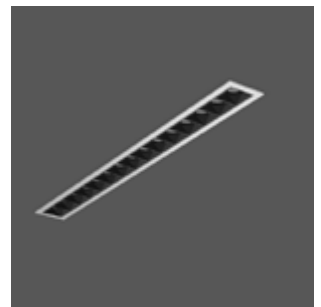
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Recessed ceiling luminaires							
Narrow beam light distribution 10°							
Length L 155 mm, LA 150 x BA 40 mm, HE 110 mm							
641323.00X	L 155, B 45, H 2, HEL 60	LED	927	900	14	3,1	on/off
641323.00X.76	L 155, B 45, H 2, HEL 60	LED	927	900	14	3,1	DALI
641323.00X.1	L 155, B 45, H 2, HEL 60	LED	930	980	14	3,5	on/off
641323.00X.1.76	L 155, B 45, H 2, HEL 60	LED	930	980	14	3,5	DALI
641323.00X.2	L 155, B 45, H 2, HEL 60	LED	940	1050	14	3,5	on/off
641323.00X.2.76	L 155, B 45, H 2, HEL 60	LED	940	1050	14	3,5	DALI
Length L 295 mm, LA 290 x BA 40 mm, HE 110 mm							
641326.00X	L 295, B 45, H 2, HEL 60	LED	927	1800	25	3,1	on/off
641326.00X.76	L 295, B 45, H 2, HEL 60	LED	927	1800	25	3,1	DALI
641326.00X.1	L 295, B 45, H 2, HEL 60	LED	930	1950	25	3,5	on/off
641326.00X.1.76	L 295, B 45, H 2, HEL 60	LED	930	1950	25	3,5	DALI
641326.00X.2	L 295, B 45, H 2, HEL 60	LED	940	2100	25	3,5	on/off
641326.00X.2.76	L 295, B 45, H 2, HEL 60	LED	940	2100	25	3,5	DALI
Length L 435 mm, LA 430 x BA 40 mm, HE 110 mm							
641329.00X	L 435, B 45, H 2, HEL 60	LED	927	2700	36	3,1	on/off
641329.00X.76	L 435, B 45, H 2, HEL 60	LED	927	2700	36	3,1	DALI
641329.00X.1	L 435, B 45, H 2, HEL 60	LED	930	2950	36	3,5	on/off
641329.00X.1.76	L 435, B 45, H 2, HEL 60	LED	930	2950	36	3,5	DALI
641329.00X.2	L 435, B 45, H 2, HEL 60	LED	940	3150	36	3,5	on/off
641329.00X.2.76	L 435, B 45, H 2, HEL 60	LED	940	3150	36	3,5	DALI
Medium beam light distribution 30°							
Length L 155 mm, LA 150 x BA 40 mm, HE 110 mm							
641324.00X	L 155, B 45, H 2, HEL 60	LED	927	940	14	5,7	on/off
641324.00X.76	L 155, B 45, H 2, HEL 60	LED	927	940	14	5,7	DALI
641324.00X.1	L 155, B 45, H 2, HEL 60	LED	930	1000	14	5,4	on/off
641324.00X.1.76	L 155, B 45, H 2, HEL 60	LED	930	1000	14	5,4	DALI
641324.00X.2	L 155, B 45, H 2, HEL 60	LED	940	1100	14	5,9	on/off
641324.00X.2.76	L 155, B 45, H 2, HEL 60	LED	940	1100	14	5,9	DALI
Length L 295 mm, LA 290 x BA 40 mm, HE 110 mm							
641327.00X	L 295, B 45, H 2, HEL 60	LED	927	1900	25	5,7	on/off
641327.00X.76	L 295, B 45, H 2, HEL 60	LED	927	1900	25	5,7	DALI
641327.00X.1	L 295, B 45, H 2, HEL 60	LED	930	2050	25	5,4	on/off
641327.00X.1.76	L 295, B 45, H 2, HEL 60	LED	930	2050	25	5,4	DALI
641327.00X.2	L 295, B 45, H 2, HEL 60	LED	940	2150	25	5,9	on/off
641327.00X.2.76	L 295, B 45, H 2, HEL 60	LED	940	2150	25	5,9	DALI
Length L 435 mm, LA 430 x BA 40 mm, HE 110 mm							
641330.00X	L 435, B 45, H 2, HEL 60	LED	927	2800	36	5,7	on/off
641330.00X.76	L 435, B 45, H 2, HEL 60	LED	927	2800	36	5,7	DALI
641330.00X.1	L 435, B 45, H 2, HEL 60	LED	930	3050	36	5,4	on/off
641330.00X.1.76	L 435, B 45, H 2, HEL 60	LED	930	3050	36	5,4	DALI
641330.00X.2	L 435, B 45, H 2, HEL 60	LED	940	3250	36	5,9	on/off
641330.00X.2.76	L 435, B 45, H 2, HEL 60	LED	940	3250	36	5,9	DALI
Wide beam light distribution 50°							
Length L 155 mm, LA 150 x BA 40 mm, HE 110 mm							
641325.00X	L 155, B 45, H 2, HEL 60	LED	927	960	14	9,5	on/off
641325.00X.76	L 155, B 45, H 2, HEL 60	LED	927	960	14	9,5	DALI
641325.00X.1	L 155, B 45, H 2, HEL 60	LED	930	1050	14	9,5	on/off
641325.00X.1.76	L 155, B 45, H 2, HEL 60	LED	930	1050	14	9,5	DALI
641325.00X.2	L 155, B 45, H 2, HEL 60	LED	940	1100	14	9,4	on/off
641325.00X.2.76	L 155, B 45, H 2, HEL 60	LED	940	1100	14	9,4	DALI
Length L 295 mm, LA 290 x BA 40 mm, HE 110 mm							
641328.00X	L 295, B 45, H 2, HEL 60	LED	927	1900	25	9,5	on/off
641328.00X.76	L 295, B 45, H 2, HEL 60	LED	927	1900	25	9,5	DALI
641328.00X.1	L 295, B 45, H 2, HEL 60	LED	930	2050	25	9,4	on/off
641328.00X.1.76	L 295, B 45, H 2, HEL 60	LED	930	2050	25	9,4	DALI
641328.00X.2	L 295, B 45, H 2, HEL 60	LED	940	2200	25	9,4	on/off
641328.00X.2.76	L 295, B 45, H 2, HEL 60	LED	940	2200	25	9,4	DALI
Length L 435 mm, LA 430 x BA 40 mm, HE 110 mm							
641331.00X	L 435, B 45, H 2, HEL 60	LED	927	2900	36	9,5	on/off
641331.00X.76	L 435, B 45, H 2, HEL 60	LED	927	2900	36	9,5	DALI
641331.00X.1	L 435, B 45, H 2, HEL 60	LED	930	3100	36	9,5	on/off
641331.00X.1.76	L 435, B 45, H 2, HEL 60	LED	930	3100	36	9,5	DALI
641331.00X.2	L 435, B 45, H 2, HEL 60	LED	940	3350	36	9,5	on/off
641331.00X.2.76	L 435, B 45, H 2, HEL 60	LED	940	3350	36	9,5	DALI



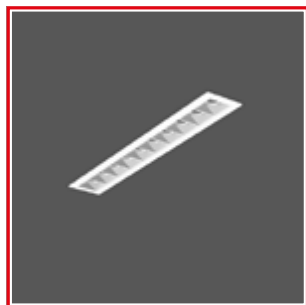
2 = white



3 = black



4 = silver coloured

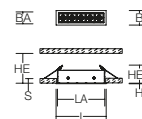


Recessed ceiling luminaires | BeamLine Slim

Type of Protection: IP 20
Protection Class: II
Ceiling thickness S: 1-50 mm
Impact Protection: IK03

Housing: metal, powder-coated. Perfect heat management with an aluminium heat sink. LED light unit with **MRS technology**: Mini-Reflector-System made of metallised thermoplastic with prismatic white glare-suppressing frame for pleasant glare-free light (UGR < 10). Three different light distribution options (narrow, medium-wide and wide beam) for maximum flexibility in use. Ceiling installation with spring system. Incl. separate LED converter with connecting cable 450 mm.

Available colour: white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Recessed ceiling luminaires							
Narrow beam light distribution 10°							
Length L 155 mm, LA 150 x BA 40 mm, HE 110 mm							
641323.0025	L 155, B 45, H 2, HEL 60	LED	927	900	14	3,1	on/off
641323.0025.76	L 155, B 45, H 2, HEL 60	LED	927	900	14	3,1	DALI
641323.0025.1	L 155, B 45, H 2, HEL 60	LED	930	980	14	3,5	on/off
641323.0025.1.76	L 155, B 45, H 2, HEL 60	LED	930	980	14	3,5	DALI
641323.0025.2	L 155, B 45, H 2, HEL 60	LED	940	1050	14	3,5	on/off
641323.0025.2.76	L 155, B 45, H 2, HEL 60	LED	940	1050	14	3,5	DALI
Length L 295 mm, LA 290 x BA 40 mm, HE 110 mm							
641326.0025	L 295, B 45, H 2, HEL 60	LED	927	1800	25	3,1	on/off
641326.0025.76	L 295, B 45, H 2, HEL 60	LED	927	1800	25	3,1	DALI
641326.0025.1	L 295, B 45, H 2, HEL 60	LED	930	1950	25	3,5	on/off
641326.0025.1.76	L 295, B 45, H 2, HEL 60	LED	930	1950	25	3,5	DALI
641326.0025.2	L 295, B 45, H 2, HEL 60	LED	940	2100	25	3,5	on/off
641326.0025.2.76	L 295, B 45, H 2, HEL 60	LED	940	2100	25	3,5	DALI
Length L 435 mm, LA 430 x BA 40 mm, HE 110 mm							
641329.0025	L 435, B 45, H 2, HEL 60	LED	927	2700	36	3,1	on/off
641329.0025.76	L 435, B 45, H 2, HEL 60	LED	927	2700	36	3,1	DALI
641329.0025.1	L 435, B 45, H 2, HEL 60	LED	930	2950	36	3,5	on/off
641329.0025.1.76	L 435, B 45, H 2, HEL 60	LED	930	2950	36	3,5	DALI
641329.0025.2	L 435, B 45, H 2, HEL 60	LED	940	3150	36	3,5	on/off
641329.0025.2.76	L 435, B 45, H 2, HEL 60	LED	940	3150	36	3,5	DALI
Medium beam light distribution 30°							
Length L 155 mm, LA 150 x BA 40 mm, HE 110 mm							
641324.0025	L 155, B 45, H 2, HEL 60	LED	927	940	14	5,7	on/off
641324.0025.76	L 155, B 45, H 2, HEL 60	LED	927	940	14	5,7	DALI
641324.0025.1	L 155, B 45, H 2, HEL 60	LED	930	1000	14	5,4	on/off
641324.0025.1.76	L 155, B 45, H 2, HEL 60	LED	930	1000	14	5,4	DALI
641324.0025.2	L 155, B 45, H 2, HEL 60	LED	940	1100	14	5,9	on/off
641324.0025.2.76	L 155, B 45, H 2, HEL 60	LED	940	1100	14	5,9	DALI
Length L 295 mm, LA 290 x BA 40 mm, HE 110 mm							
641327.0025	L 295, B 45, H 2, HEL 60	LED	927	1900	25	5,7	on/off
641327.0025.76	L 295, B 45, H 2, HEL 60	LED	927	1900	25	5,7	DALI
641327.0025.1	L 295, B 45, H 2, HEL 60	LED	930	2050	25	5,4	on/off
641327.0025.1.76	L 295, B 45, H 2, HEL 60	LED	930	2050	25	5,4	DALI
641327.0025.2	L 295, B 45, H 2, HEL 60	LED	940	2150	25	5,9	on/off
641327.0025.2.76	L 295, B 45, H 2, HEL 60	LED	940	2150	25	5,9	DALI
Length L 435 mm, LA 430 x BA 40 mm, HE 110 mm							
641330.0025	L 435, B 45, H 2, HEL 60	LED	927	2800	36	5,7	on/off
641330.0025.76	L 435, B 45, H 2, HEL 60	LED	927	2800	36	5,7	DALI
641330.0025.1	L 435, B 45, H 2, HEL 60	LED	930	3050	36	5,4	on/off
641330.0025.1.76	L 435, B 45, H 2, HEL 60	LED	930	3050	36	5,4	DALI
641330.0025.2	L 435, B 45, H 2, HEL 60	LED	940	3250	36	5,9	on/off
641330.0025.2.76	L 435, B 45, H 2, HEL 60	LED	940	3250	36	5,9	DALI
Wide beam light distribution 50°							
Length L 155 mm, LA 150 x BA 40 mm, HE 110 mm							
641325.0025	L 155, B 45, H 2, HEL 60	LED	927	960	14	9,5	on/off
641325.0025.76	L 155, B 45, H 2, HEL 60	LED	927	960	14	9,5	DALI
641325.0025.1	L 155, B 45, H 2, HEL 60	LED	930	1050	14	9,5	on/off
641325.0025.1.76	L 155, B 45, H 2, HEL 60	LED	930	1050	14	9,5	DALI
641325.0025.2	L 155, B 45, H 2, HEL 60	LED	940	1100	14	9,4	on/off
641325.0025.2.76	L 155, B 45, H 2, HEL 60	LED	940	1100	14	9,4	DALI
Length L 295 mm, LA 290 x BA 40 mm, HE 110 mm							
641328.0025	L 295, B 45, H 2, HEL 60	LED	927	1900	25	9,5	on/off
641328.0025.76	L 295, B 45, H 2, HEL 60	LED	927	1900	25	9,5	DALI
641328.0025.1	L 295, B 45, H 2, HEL 60	LED	930	2050	25	9,4	on/off
641328.0025.1.76	L 295, B 45, H 2, HEL 60	LED	930	2050	25	9,4	DALI
641328.0025.2	L 295, B 45, H 2, HEL 60	LED	940	2200	25	9,4	on/off
641328.0025.2.76	L 295, B 45, H 2, HEL 60	LED	940	2200	25	9,4	DALI
Length L 435 mm, LA 430 x BA 40 mm, HE 110 mm							
641331.0025	L 435, B 45, H 2, HEL 60	LED	927	2900	36	9,5	on/off
641331.0025.76	L 435, B 45, H 2, HEL 60	LED	927	2900	36	9,5	DALI
641331.0025.1	L 435, B 45, H 2, HEL 60	LED	930	3100	36	9,5	on/off
641331.0025.1.76	L 435, B 45, H 2, HEL 60	LED	930	3100	36	9,5	DALI
641331.0025.2	L 435, B 45, H 2, HEL 60	LED	940	3350	36	9,5	on/off
641331.0025.2.76	L 435, B 45, H 2, HEL 60	LED	940	3350	36	9,5	DALI



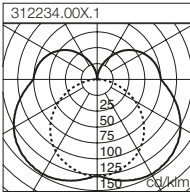


LESS IS MORE® 21

Ceiling and wall luminaires, Pendant luminaires

- LED luminaire with a minimalist design with light emission on three sides
- Profiles's surface made of anodised aluminium or white
- Luminous efficiency up to 102 lm/W
- **Diffuser** made of **non-yellowing** plastic (PMMA) opal
- LED rated life 60,000 h (L80/B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- As aesthetically sophisticated general lighting (corridors, hotels, shops, private areas) or accentuated lighting

312234.00X.1		
Floor 12 x 2,5 x 3 m (0,2m)		
100 lx	150 lx	200 lx
5	7	9
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
6	9	15



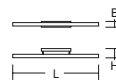
Ceiling and wall luminaires | Less is more 21

Type of Protection: IP 20

Protection Class: I

Housing: extruded aluminium profile, anodised or powder-coated. End cap anodised aluminium or powder-coated. Diffuser: plastic (non-yellowing PMMA), opal. Converter integrated in the canopy.

Available colours (X): 0 = aluminium, anodised, 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Ceiling and wall luminaires with canopy							
Price Category 21							
Length L 608 mm							
312232.00X	L 608, B 42, H 85	LED	830	1000	11	25,3	on/off
312232.00X.76	L 608, B 42, H 85	LED	830	1000	11	25,3	DALI
312232.00X.1	L 608, B 42, H 85	LED	840	1000	11	25,3	on/off
312232.00X.1.76	L 608, B 42, H 85	LED	840	1000	11	25,3	DALI
Length L 1008 mm							
312233.00X	L 1008, B 42, H 85	LED	830	1700	17	25,3	on/off
312233.00X.76	L 1008, B 42, H 85	LED	830	1700	17	25,3	DALI
312233.00X.1	L 1008, B 42, H 85	LED	840	1700	17	25,4	on/off
312233.00X.1.76	L 1008, B 42, H 85	LED	840	1700	17	25,4	on/off
Length L 1208 mm							
312234.00X	L 1208, B 42, H 85	LED	830	2050	20	25,4	on/off
312234.00X.76	L 1208, B 42, H 85	LED	830	2050	20	25,4	DALI
312234.00X.1	L 1208, B 42, H 85	LED	840	2050	20	25,4	on/off
312234.00X.1.76	L 1208, B 42, H 85	LED	840	2050	20	25,4	DALI
Length L 1508 mm							
312235.00X	L 1508, B 42, H 85	LED	830	2550	25	25,4	on/off
312235.00X.76	L 1508, B 42, H 85	LED	830	2550	25	25,4	DALI
312235.00X.1	L 1508, B 42, H 85	LED	840	2550	25	25,4	on/off
312235.00X.1.76	L 1508, B 42, H 85	LED	840	2550	25	25,4	DALI

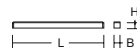
Ceiling and wall luminaires | Less is more 21

Type of Protection: IP 20

Protection Class: II

Housing: extruded aluminium profile, anodised or powder-coated. End cap anodised aluminium or powder-coated. Diffuser: plastic (non-yellowing PMMA), opal. External driver with connecting cable.

Available colours (X): 0 = aluminium, anodised, 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Ceiling and wall luminaires without canopy							
Price Category 21							
Length L 608 mm							
312236.00X	L 608, B 21, H 36	LED	830	1000	11	25,3	on/off
312236.00X.76	L 608, B 21, H 36	LED	830	1000	11	25,3	DALI
312236.00X.1	L 608, B 21, H 36	LED	840	1000	11	25,3	on/off
312236.00X.1.76	L 608, B 21, H 36	LED	840	1000	11	25,3	DALI
Length L 1008 mm							
312237.00X	L 1008, B 21, H 36	LED	830	1700	17	25,3	on/off
312237.00X.76	L 1008, B 21, H 36	LED	830	1700	17	25,3	DALI
312237.00X.1	L 1008, B 21, H 36	LED	840	1700	17	25,4	on/off
312237.00X.1.76	L 1008, B 21, H 36	LED	840	1700	17	25,4	DALI
Length L 1208 mm							
312238.00X	L 1208, B 21, H 36	LED	830	2050	20	25,4	on/off
312238.00X.76	L 1208, B 21, H 36	LED	830	2050	20	25,4	DALI
312238.00X.1	L 1208, B 21, H 36	LED	840	2050	20	25,4	on/off
312238.00X.1.76	L 1208, B 21, H 36	LED	840	2050	20	25,4	DALI
Length L 1508 mm							
312239.00X	L 1508, B 21, H 36	LED	830	2550	25	25,4	on/off
312239.00X.76	L 1508, B 21, H 36	LED	830	2550	25	25,4	DALI
312239.00X.1	L 1508, B 21, H 36	LED	840	2550	25	25,4	on/off
312239.00X.1.76	L 1508, B 21, H 36	LED	840	2550	25	25,4	DALI



Pendant luminaires | Less is more 21

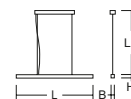
Type of Protection: IP 20

Protection Class: I

Suspension Length: 100-1500 mm

Housing: extruded aluminium profile, anodised or powder-coated. End cap anodised aluminium or powder-coated. Diffuser: plastic (non-yellowing PMMA), opal. 2-point steel cable suspension, steplessly adjustable. Special lengths available on request. Converter integrated in the canopy.

Available colours (X): 0 = aluminium, anodised, 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires with canopy							Price Category 21
Length L 1008 mm							
312226.00X	L 1008, B 21, H 36	LED	830	1700	17	25,3	on/off
312226.00X.76	L 1008, B 21, H 36	LED	830	1700	17	25,3	DALI
312226.00X.1	L 1008, B 21, H 36	LED	840	1700	17	25,4	on/off
312226.00X.1.76	L 1008, B 21, H 36	LED	840	1700	17	25,4	DALI
Length L 1208 mm							
312227.00X	L 1208, B 21, H 36	LED	830	2050	20	25,4	on/off
312227.00X.76	L 1208, B 21, H 36	LED	830	2050	20	25,4	DALI
312227.00X.1	L 1208, B 21, H 36	LED	840	2050	20	25,4	on/off
312227.00X.1.76	L 1208, B 21, H 36	LED	840	2050	20	25,4	DALI
Length L 1508 mm							
312228.00X	L 1508, B 21, H 36	LED	830	2550	25	25,4	on/off
312228.00X.76	L 1508, B 21, H 36	LED	830	2550	25	25,4	DALI
312228.00X.1	L 1508, B 21, H 36	LED	840	2550	25	25,4	on/off
312228.00X.1.76	L 1508, B 21, H 36	LED	840	2550	25	25,4	DALI



Pendant luminaires | Less is more 21

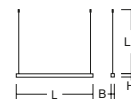
Type of Protection: IP 20

Protection Class: II

Suspension Length: 100-1500 mm

Housing: extruded aluminium profile, anodised or powder-coated. End cap anodised aluminium or powder-coated. Diffuser: plastic (non-yellowing PMMA), opal. 2-point steel cable suspension, steplessly adjustable. Special lengths available on request. External driver with connecting cable.

Available colours (X): 0 = aluminium, anodised, 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires without canopy							Price Category 21
Length L 1008 mm							
312229.00X	L 1008, B 21, H 36	LED	830	1700	17	25,3	on/off
312229.00X.76	L 1008, B 21, H 36	LED	830	1700	17	25,3	DALI
312229.00X.1	L 1008, B 21, H 36	LED	840	1700	17	25,4	on/off
312229.00X.1.76	L 1008, B 21, H 36	LED	840	1700	17	25,4	DALI
Length L 1208 mm							
312230.00X	L 1208, B 21, H 36	LED	830	2050	20	25,4	on/off
312230.00X.76	L 1208, B 21, H 36	LED	830	2050	20	25,4	DALI
312230.00X.1	L 1208, B 21, H 36	LED	840	2050	20	25,4	on/off
312230.00X.1.76	L 1208, B 21, H 36	LED	840	2050	20	25,4	DALI
Length L 1508 mm							
312231.00X	L 1508, B 21, H 36	LED	830	2550	25	25,4	on/off
312231.00X.76	L 1508, B 21, H 36	LED	830	2550	25	25,4	DALI
312231.00X.1	L 1508, B 21, H 36	LED	840	2550	25	25,4	on/off
312231.00X.1.76	L 1508, B 21, H 36	LED	840	2550	25	25,4	DALI



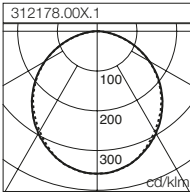


LESS IS MORE® 27

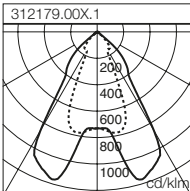
Recessed ceiling and wall luminaires, Ceiling and wall luminaires, Pendant luminaires

- LED luminaire with slim design
- **Diffuser** made of **non-yellowing** plastic (PMMA) opal, microprismatic or high polish aluminium micro-grid
- Version with micro-grid is suitable for office workplaces (UGR ≤19) and computer workstations in accordance with EN 12464-1
- LED rated life 60,000 h (L80/B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- As aesthetically sophisticated general lighting (corridors, office and conference rooms, shops) or accentuated lighting

312178.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	5	9



312179.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



Further luminaires of this series, see:
Indoor lighting | Free-standing luminaires

Recessed ceiling and wall luminaires | Less is more 27

Type of Protection: IP 20

Protection Class: II

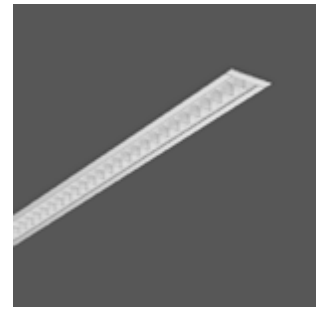
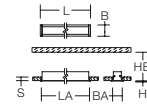
Ceiling thickness S: 10-30 mm

Housing: extruded aluminium profile, powder-coated. End cap aluminium powder-coated.

Diffuser made of non-yellowing plastic (PMMA), opal, or high polish aluminium micro grid (suitable for use in environments with computer screens in accordance with EN 12464-1).

External driver with connecting cable.

Available colours (X): 2 = white, 3 = black, 45 = white aluminium

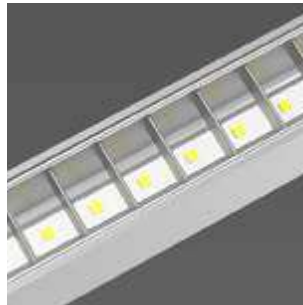


Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-able
Recessed ceiling and wall luminaires							
Diffuser: plastic (PMMA), opal							
Length L 1014 mm, LA 1006 x BA 30 mm, HE 45-60 mm							
312176.00X.1	L 1014, B 38, H 2	LED	840	1950	25	28,2	on/off
312176.00X.1.76	L 1014, B 38, H 2	LED	840	1950	25	28,2	DALI
312176.00X	L 1014, B 38, H 2	LED	830	1950	29	28,2	on/off
312176.00X.76	L 1014, B 38, H 2	LED	830	1950	29	28,2	DALI
Length L 1514 mm, LA 1506 x BA 30 mm, HE 45-60 mm							
312178.00X.1	L 1514, B 38, H 2	LED	840	2900	39	28,2	on/off
312178.00X.1.76	L 1514, B 38, H 2	LED	840	2900	39	28,2	DALI
312178.00X	L 1514, B 38, H 2	LED	830	2900	43	28,2	on/off
312178.00X.76	L 1514, B 38, H 2	LED	830	2900	43	28,2	DALI
Aluminium micro-grid							
Length L 1014 mm, LA 1006 x BA 30 mm, HE 45-60 mm							
312177.00X.1	L 1014, B 38, H 2	LED	840	2350	25	19,0	on/off
312177.00X.1.76	L 1014, B 38, H 2	LED	840	2350	25	19,0	DALI
312177.00X	L 1014, B 38, H 2	LED	830	2350	29	19,0	on/off
312177.00X.76	L 1014, B 38, H 2	LED	830	2350	29	19,0	DALI
Length L 1514 mm, LA 1506 x BA 30 mm, HE 45-60 mm							
312179.00X.1	L 1514, B 38, H 2	LED	840	3500	39	19,0	on/off
312179.00X.1.76	L 1514, B 38, H 2	LED	840	3500	39	19,0	DALI
312179.00X	L 1514, B 38, H 2	LED	830	3500	43	19,0	on/off
312179.00X.76	L 1514, B 38, H 2	LED	830	3500	43	19,0	DALI

Diffuser: plastic (PMMA): The specified luminous flux refers to the white luminaire. With black and white aluminium, the luminous flux is reduced by approx. 20%. You can find detailed information at www.rzb-lighting.com.



Diffuser: plastic (PMMA), opal



Aluminium micro-grid

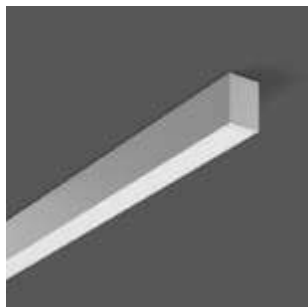
Specimen product performance comparison

Length 4,0 m | Width 3,50 m | Height 2,80 m | Maintenance factor 0,80 | Working plane 0,75 m

Office

Reference number	312177.002.1.76
Wattage	LED 25 W / 2350 lm
Number of luminaires	4
Average illuminance	Em > 533 lx





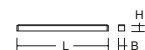
Ceiling and wall luminaires | Less is more 27

Type of Protection: IP 20

Protection Class: II

Housing: extruded aluminium profile, powder-coated. End cap aluminium powder-coated.
Diffuser made of non-yellowing plastic (PMMA) opal or microprismatic. External driver with connecting cable.

Available colours (X): 2 = white, 3 = black, 45 = white aluminium

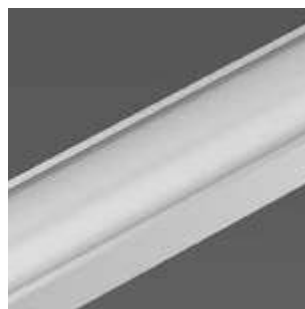


Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Ceiling and wall luminaires without canopy							Price Category 21
Diffuser: plastic (PMMA), opal							
Length L 1012 mm							
312196.00X.1	L 1012, B 28, H 38	LED	840	1950	25	28,2	on/off
312196.00X.1.76	L 1012, B 28, H 38	LED	840	1950	25	28,2	DALI
312196.00X	L 1012, B 28, H 38	LED	830	1950	29	28,2	on/off
312196.00X.76	L 1012, B 28, H 38	LED	830	1950	29	28,2	DALI
Length L 1212 mm							
312198.00X.1	L 1212, B 28, H 38	LED	840	2350	31	28,2	on/off
312198.00X.1.76	L 1212, B 28, H 38	LED	840	2350	31	28,3	DALI
312198.00X	L 1212, B 28, H 38	LED	830	2350	35	28,2	on/off
312198.00X.76	L 1212, B 28, H 38	LED	830	2350	35	28,3	DALI
Length L 1512 mm							
312200.00X.1	L 1512, B 28, H 38	LED	840	2900	39	28,2	on/off
312200.00X.1.76	L 1512, B 28, H 38	LED	840	2900	39	28,2	DALI
312200.00X	L 1512, B 28, H 38	LED	830	2900	43	28,2	on/off
312200.00X.76	L 1512, B 28, H 38	LED	830	2900	43	28,2	DALI
Diffuser plastic (PMMA) microprismatic (only ceiling luminaire)							
Length L 1012 mm							
312197.00X.1	L 1012, B 28, H 38	LED	840	2150	26	24,9	on/off
312197.00X.1.76	L 1012, B 28, H 38	LED	840	2150	26	24,9	DALI
312197.00X	L 1012, B 28, H 38	LED	830	2150	29	24,8	on/off
312197.00X.76	L 1012, B 28, H 38	LED	830	2150	29	24,8	DALI
Length L 1212 mm							
312199.00X.1	L 1212, B 28, H 38	LED	840	2600	31	24,9	on/off
312199.00X.1.76	L 1212, B 28, H 38	LED	840	2600	31	24,9	DALI
312199.00X	L 1212, B 28, H 38	LED	830	2600	34	24,9	on/off
312199.00X.76	L 1212, B 28, H 38	LED	830	2600	34	24,9	DALI
Length L 1512 mm							
312201.00X.1	L 1512, B 28, H 38	LED	840	3250	39	24,9	on/off
312201.00X.1.76	L 1512, B 28, H 38	LED	840	3250	39	24,9	DALI
312201.00X	L 1512, B 28, H 38	LED	830	3250	43	24,9	on/off
312201.00X.76	L 1512, B 28, H 38	LED	830	3250	43	24,9	DALI

The specified luminous flux refers to the white luminaire. With black and white aluminium, the luminous flux is reduced by approx. 20%.
You can find detailed information at www.rzb-lighting.com.



Diffuser: plastic (PMMA), opal



Diffuser plastic (PMMA) microprismatic

Pendant luminaires | Less is more 27

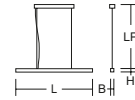
Type of Protection: IP 20

Protection Class: I

Suspension Length: 100-1500 mm

Housing: extruded aluminium profile, powder-coated. End cap aluminium powder-coated. Diffuser made of non-yellowing plastic (PMMA) opal, microprismatic or high polish aluminium micro-grid (suitable for use in environments with computer screens in accordance with EN 12464-1). Direct/indirect light emission. 2-point steel cable suspension, steplessly adjustable. Special lengths available on request. Converter integrated in the canopy.

Available colours (X): 2 = white, 3 = black, 45 = white aluminium



Pendant luminaires with canopy - Direct 60% - indirect 40% light emission

Price Category 21

Diffuser: plastic (PMMA), opal

Length L 1012 mm

312208.00X.1	L 1012, B 28, H 38	LED	840	2700	34	25,2	on/off
312208.00X.1.76	L 1012, B 28, H 38	LED	840	2700	34	25,2	DALI
312208.00X	L 1012, B 28, H 38	LED	830	2700	37	25,2	on/off
312208.00X.76	L 1012, B 28, H 38	LED	830	2700	37	25,2	DALI

Length L 1512 mm

312210.00X.1	L 1512, B 28, H 38	LED	840	4000	51	25,2	on/off
312210.00X.1.76	L 1512, B 28, H 38	LED	840	4000	51	25,2	DALI
312210.00X	L 1512, B 28, H 38	LED	830	4000	56	25,2	on/off
312210.00X.76	L 1512, B 28, H 38	LED	830	4000	56	25,2	DALI

Diffuser plastic (PMMA) microprismatic

Length L 1012 mm

312209.00X.1	L 1012, B 28, H 38	LED	840	3000	34	22,4	on/off
312209.00X.1.76	L 1012, B 28, H 38	LED	840	3000	34	22,4	DALI
312209.00X	L 1012, B 28, H 38	LED	830	3000	37	22,4	on/off
312209.00X.76	L 1012, B 28, H 38	LED	830	3000	37	22,4	DALI

Length L 1512 mm

312211.00X.1	L 1512, B 28, H 38	LED	840	4500	51	22,4	on/off
312211.00X.1.76	L 1512, B 28, H 38	LED	840	4500	51	22,4	DALI
312211.00X	L 1512, B 28, H 38	LED	830	4500	56	22,4	on/off
312211.00X.76	L 1512, B 28, H 38	LED	830	4500	56	22,4	DALI

Aluminium micro-grid

Length L 1512 mm

312212.00X *	L 1512, B 28, H 38	LED	830	2800	33	12,5	on/off
312212.00X.76 *	L 1512, B 28, H 38	LED	830	2800	33	12,5	DALI
312212.00X.1 *	L 1512, B 28, H 38	LED	840	2800	33	12,5	on/off
312212.00X.1.76 *	L 1512, B 28, H 38	LED	840	2800	33	12,5	DALI
312213.00X	L 1512, B 28, H 38	LED	830	3700	39	15,1	on/off
312213.00X.76	L 1512, B 28, H 38	LED	830	3700	39	15,1	DALI
312213.00X.1	L 1512, B 28, H 38	LED	840	3700	39	14,8	on/off
312213.00X.1.76	L 1512, B 28, H 38	LED	840	3700	39	14,8	DALI

* Light emission directly 50% - indirectly 50%

Diffuser: plastic (PMMA): The specified luminous flux refers to the white luminaire. With black and white aluminium, the luminous flux is reduced by approx. 20%. You can find detailed information at www.rzb-lighting.com.

Specimen product performance comparison

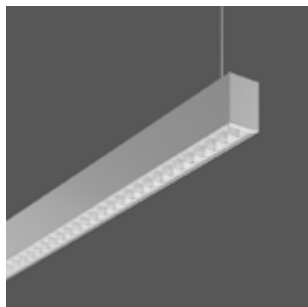
Length 4,0 m | Width 3,50 m | Height 2,80 m | Maintenance factor 0,80 |

Working plane 0,75 m | Mounting Height 1,8 m

Double workplace

Reference number	312213.002.1.76
Wattage	LED 39 W / 3700 lm
Number of luminaires	1
Average illuminance	Em > 596 lx





Pendant luminaires | Less is more 27

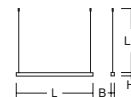
Type of Protection: IP 20

Protection Class: II

Suspension Length: 100-1500 mm

Housing: extruded aluminium profile, powder-coated. End cap aluminium powder-coated. Diffuser made of non-yellowing plastic (PMMA) opal, microprismatic or high polish aluminium micro-grid (suitable for use in environments with computer screens in accordance with EN 12464-1). Direct/indirect light emission. 2-point steel cable suspension, steplessly adjustable. Special lengths available on request. External driver with connecting cable.

Available colours (X): 2 = white, 3 = black, 45 = white aluminium



Pendant luminaires without canopy - Direct 60% - indirect 40% light emission

Price Category 21

Diffuser: plastic (PMMA), opal

Length L 1012 mm

312220.00X.1.76	L 1012, B 28, H 38	LED	840	2700	34	25,2	DALI
312220.00X.1	L 1012, B 28, H 38	LED	840	2700	34	25,2	on/off
312220.00X.76	L 1012, B 28, H 38	LED	830	2700	37	25,2	DALI
312220.00X	L 1012, B 28, H 38	LED	830	2700	37	25,2	on/off

Length L 1512 mm

312222.00X.1.76	L 1512, B 28, H 38	LED	840	4000	51	25,2	DALI
312222.00X.1	L 1512, B 28, H 38	LED	840	4000	51	25,2	on/off
312222.00X.76	L 1512, B 28, H 38	LED	830	4000	56	25,2	DALI
312222.00X	L 1512, B 28, H 38	LED	830	4000	56	25,2	on/off

Diffuser plastic (PMMA) microprismatic

Length L 1012 mm

312221.00X.1	L 1012, B 28, H 38	LED	840	3000	34	22,4	on/off
312221.00X.1.76	L 1012, B 28, H 38	LED	840	3000	34	22,4	DALI
312221.00X.76	L 1012, B 28, H 38	LED	830	3000	37	22,3	DALI
312221.00X	L 1012, B 28, H 38	LED	830	3000	37	22,4	on/off

Length L 1512 mm

312223.00X.1	L 1512, B 28, H 38	LED	840	4500	51	22,4	on/off
312223.00X.1.76	L 1512, B 28, H 38	LED	840	4500	51	22,4	DALI
312223.00X.76	L 1512, B 28, H 38	LED	830	4500	56	22,3	DALI
312223.00X	L 1512, B 28, H 38	LED	830	4500	56	22,4	on/off

Aluminium micro-grid

Length L 1512 mm

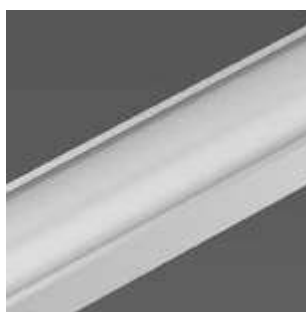
312224.00X *	L 1512, B 28, H 38	LED	830	2800	33	12,5	on/off
312224.00X.76 *	L 1512, B 28, H 38	LED	830	2800	33	12,5	DALI
312224.00X.1 *	L 1512, B 28, H 38	LED	840	2800	33	12,5	on/off
312224.00X.1.76 *	L 1512, B 28, H 38	LED	840	2800	33	12,5	DALI
312225.00X	L 1512, B 28, H 38	LED	830	3700	39	15,1	on/off
312225.00X.76	L 1512, B 28, H 38	LED	830	3700	39	15,1	DALI
312225.00X.1	L 1512, B 28, H 38	LED	840	3700	39	14,8	on/off
312225.00X.1.76	L 1512, B 28, H 38	LED	840	3700	39	14,8	DALI

* Light emission directly 50% - indirectly 50%

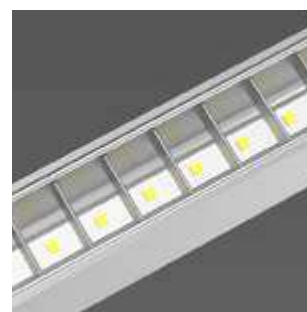
Diffuser: plastic (PMMA): The specified luminous flux refers to the white luminaire. With black and white aluminium, the luminous flux is reduced by approx. 20%. You can find detailed information at www.rzb-lighting.com.



Diffuser: plastic (PMMA), opal

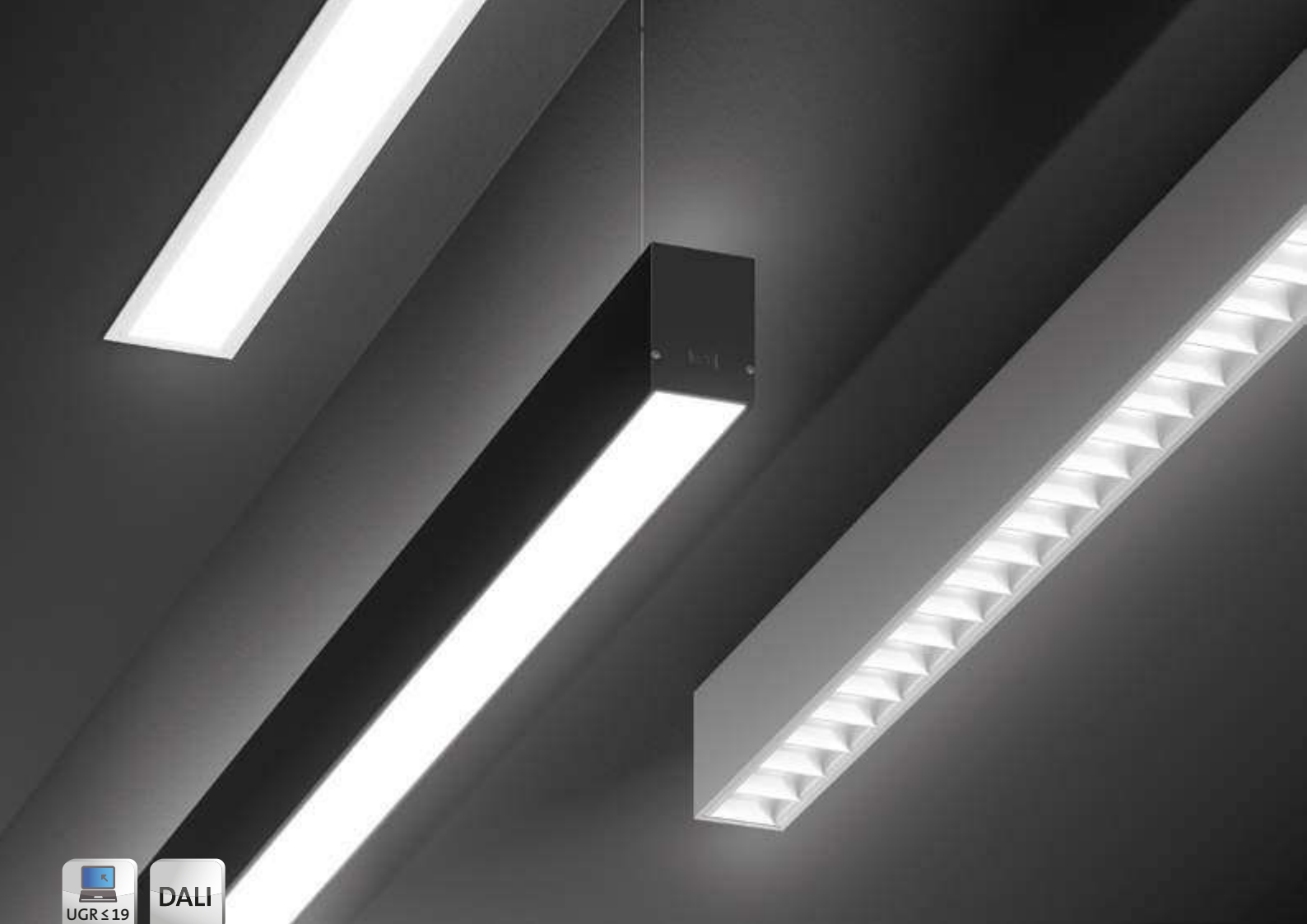


Diffuser plastic (PMMA) microprismatic



Aluminium micro-grid



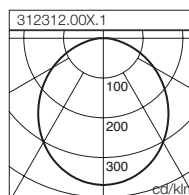


LESS IS MORE® 50

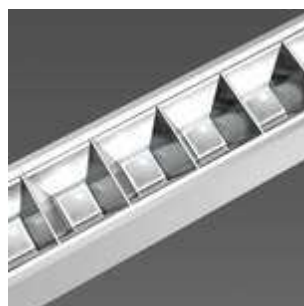
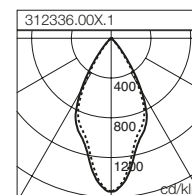
Recessed ceiling and wall luminaires, Ceiling and wall luminaires, Pendant luminaires

- Luminous efficiency of up to 130 lm/W
- With integrated converter
- Replaceable LED unit
- **Diffuser** made of **non-yellowing** plastic (PMMA) opal or Alea Optical system
- Narrow beam version
- **Alea optical system:** Ideal for office areas (UGR ≤ 19) and computer workstations in accordance with EN 12464-1
- LED rated life 50,000 h (L80/B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)

312312.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	5	8



312336.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



ALEA OPTICAL SYSTEM

A brilliant example of the power of innovation:

The Alea optical system in the Less is more 50 combines square reflector elements with a linear structure.

The integrated opal diffuser reduces direct glare, ensures excellent light quality and protects the highly efficient LEDs.

Recessed ceiling and wall luminaires | Less is more 50

Type of Protection: IP 20

Protection Class: I

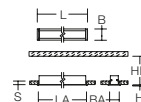
Ceiling thickness S: 10-30 mm

Impact Protection: IK03

Housing: extruded aluminium profile, powder-coated. End cap aluminium powder-coated.

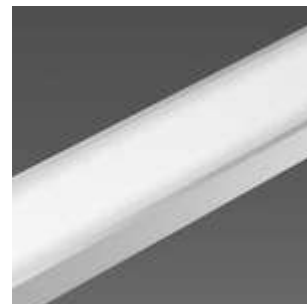
Diffuser made of non-yellowing plastic (PMMA) opal or **Alea Optical system**: Reflector structure (ABS, Aluminium-coated, highly polished) with diffuser made of non-yellowing plastic (PMMA) opal for glare-free light at the workstation (suitable for use in environments with computer screens in accordance with EN12464-1). Ceiling mounting with pre-assembled SBS clamping bracket system. LED unit with integrated converter interchangeable and removable. With sensors or as a safety luminaire on request.

Available colours (X): 2 = white, 3 = black, 45 = white aluminium

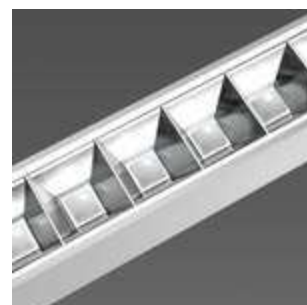


Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-able
Recessed ceiling and wall luminaires							
Diffuser: plastic (PMMA), opal							
Length L 861 mm, LA 848 x BA 60 mm, HE 100 mm							
312323.00X	L 861, B 71, H 2	LED	830	2300	22	26,2	on/off
312323.00X.76	L 861, B 71, H 2	LED	830	2300	22	26,2	DALI
312323.00X.1	L 861, B 71, H 2	LED	840	2400	22	26,4	on/off
312323.00X.1.76	L 861, B 71, H 2	LED	840	2400	22	26,4	DALI
Length L 1141 mm, LA 1128 x BA 60 mm, HE 100 mm							
312324.00X	L 1141, B 71, H 2	LED	830	3100	28	26,2	on/off
312324.00X.76	L 1141, B 71, H 2	LED	830	3100	28	26,2	DALI
312324.00X.1	L 1141, B 71, H 2	LED	840	3250	28	26,4	on/off
312324.00X.1.76	L 1141, B 71, H 2	LED	840	3250	28	26,4	DALI
Length L 1421 mm, LA 1408 x BA 60 mm, HE 100 mm							
312325.00X	L 1421, B 71, H 2	LED	830	3850	34	26,2	on/off
312325.00X.76	L 1421, B 71, H 2	LED	830	3850	34	26,2	DALI
312325.00X.1	L 1421, B 71, H 2	LED	840	4050	34	26,4	on/off
312325.00X.1.76	L 1421, B 71, H 2	LED	840	4050	34	26,4	DALI
Length L 1701 mm, LA 1688 x BA 60 mm, HE 100 mm							
312326.00X	L 1701, B 71, H 2	LED	830	4650	40	26,2	on/off
312326.00X.76	L 1701, B 71, H 2	LED	830	4650	40	26,2	DALI
312326.00X.1	L 1701, B 71, H 2	LED	840	4850	40	26,3	on/off
312326.00X.1.76	L 1701, B 71, H 2	LED	840	4850	40	26,3	DALI
Length L 1981 mm, LA 1968 x BA 60 mm, HE 100 mm							
312327.00X	L 1981, B 71, H 2	LED	830	5400	47	26,2	on/off
312327.00X.76	L 1981, B 71, H 2	LED	830	5400	47	26,2	DALI
312327.00X.1	L 1981, B 71, H 2	LED	840	5650	47	26,3	on/off
312327.00X.1.76	L 1981, B 71, H 2	LED	840	5650	47	26,3	DALI
Alea optical system							
Length L 861 mm, LA 848 x BA 60 mm, HE 100 mm							
312347.00X	L 861, B 71, H 2	LED	830	2500	22	14,7	on/off
312347.00X.76	L 861, B 71, H 2	LED	830	2500	22	14,7	DALI
312347.00X.1	L 861, B 71, H 2	LED	840	2650	22	14,9	on/off
312347.00X.1.76	L 861, B 71, H 2	LED	840	2650	22	14,9	DALI
Length L 1141 mm, LA 1128 x BA 60 mm, HE 100 mm							
312348.00X	L 1141, B 71, H 2	LED	830	3350	28	14,7	on/off
312348.00X.76	L 1141, B 71, H 2	LED	830	3350	28	14,7	DALI
312348.00X.1	L 1141, B 71, H 2	LED	840	3550	28	14,9	on/off
312348.00X.1.76	L 1141, B 71, H 2	LED	840	3550	28	14,9	DALI
Length L 1421 mm, LA 1408 x BA 60 mm, HE 100 mm							
312349.00X	L 1421, B 71, H 2	LED	830	4200	35	14,7	on/off
312349.00X.76	L 1421, B 71, H 2	LED	830	4200	35	14,7	DALI
312349.00X.1	L 1421, B 71, H 2	LED	840	4450	35	14,9	on/off
312349.00X.1.76	L 1421, B 71, H 2	LED	840	4450	35	14,9	DALI
Length L 1701 mm, LA 1688 x BA 60 mm, HE 100 mm							
312350.00X	L 1701, B 71, H 2	LED	830	5050	41	14,7	on/off
312350.00X.76	L 1701, B 71, H 2	LED	830	5050	41	14,7	DALI
312350.00X.1	L 1701, B 71, H 2	LED	840	5300	41	14,9	on/off
312350.00X.1.76	L 1701, B 71, H 2	LED	840	5300	41	14,9	DALI
Length L 1981 mm, LA 1968 x BA 60 mm, HE 100 mm							
312351.00X	L 1981, B 71, H 2	LED	830	5900	48	14,7	on/off
312351.00X.76	L 1981, B 71, H 2	LED	830	5900	48	14,7	DALI
312351.00X.1	L 1981, B 71, H 2	LED	840	6200	48	14,9	on/off
312351.00X.1.76	L 1981, B 71, H 2	LED	840	6200	48	14,9	DALI

Diffuser: plastic (PMMA): The specified luminous flux refers to the white and white aluminium luminaire. With black, the luminous flux is reduced by approx. 10%. You can find detailed information at www.rzb-lighting.com.



Diffuser: plastic (PMMA), opal



Alea optical system

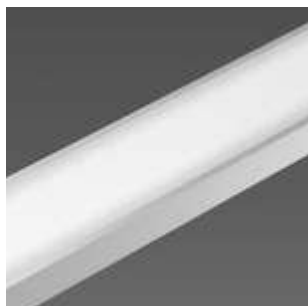
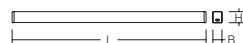


Ceiling and wall luminaires | Less is more 50

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK03

Housing: extruded aluminium profile, powder-coated. End cap aluminium powder-coated.
Diffuser made of non-yellowing plastic (PMMA) opal or **Alea Optical system**: Reflector structure (ABS, Aluminium-coated, highly polished) with diffuser made of non-yellowing plastic (PMMA) opal for glare-free light at the workstation (suitable for use in environments with computer screens in accordance with EN 12464-1). LED unit with integrated converter interchangeable and removable. With sensors or as a safety luminaire on request.

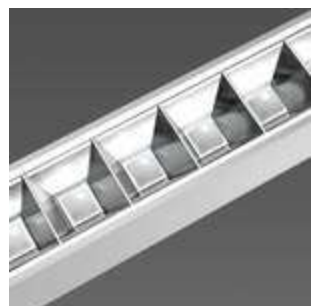
Available colours (X): 2 = white, 3 = black, 45 = white aluminium



Diffuser: plastic (PMMA), opal

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-mable
Ceiling and wall luminaires without canopy							Price Category 21
Diffuser: plastic (PMMA), opal							
Length L 847 mm							
312305.00X	L 847, B 57, H 75	LED	830	2300	22	26,2	on/off
312305.00X.76	L 847, B 57, H 75	LED	830	2300	22	26,2	DALI
312305.00X.1	L 847, B 57, H 75	LED	840	2400	22	26,4	on/off
312305.00X.1.76	L 847, B 57, H 75	LED	840	2400	22	26,4	DALI
Length L 1127 mm							
312306.00X	L 1127, B 57, H 75	LED	830	3100	28	26,2	on/off
312306.00X.76	L 1127, B 57, H 75	LED	830	3100	28	26,2	DALI
312306.00X.1	L 1127, B 57, H 75	LED	840	3250	28	26,4	on/off
312306.00X.1.76	L 1127, B 57, H 75	LED	840	3250	28	26,4	DALI
Length L 1407 mm							
312307.00X	L 1407, B 57, H 75	LED	830	3850	34	26,2	on/off
312307.00X.76	L 1407, B 57, H 75	LED	830	3850	34	26,2	DALI
312307.00X.1	L 1407, B 57, H 75	LED	840	4050	34	26,4	on/off
312307.00X.1.76	L 1407, B 57, H 75	LED	840	4050	34	26,4	DALI
Length L 1687 mm							
312308.00X	L 1687, B 57, H 75	LED	830	4650	40	26,2	on/off
312308.00X.76	L 1687, B 57, H 75	LED	830	4650	40	26,2	DALI
312308.00X.1	L 1687, B 57, H 75	LED	840	4850	40	26,3	on/off
312308.00X.1.76	L 1687, B 57, H 75	LED	840	4850	40	26,3	DALI
Length L 1967 mm							
312309.00X	L 1967, B 57, H 75	LED	830	5400	47	26,2	on/off
312309.00X.76	L 1967, B 57, H 75	LED	830	5400	47	26,2	DALI
312309.00X.1	L 1967, B 57, H 75	LED	840	5650	47	26,3	on/off
312309.00X.1.76	L 1967, B 57, H 75	LED	840	5650	47	26,3	DALI
Alea optical system							
Length L 847 mm							
312329.00X	L 847, B 57, H 75	LED	830	2500	22	14,7	on/off
312329.00X.76	L 847, B 57, H 75	LED	830	2500	22	14,7	DALI
312329.00X.1	L 847, B 57, H 75	LED	840	2650	22	14,9	on/off
312329.00X.1.76	L 847, B 57, H 75	LED	840	2650	22	14,9	DALI
Length L 1127 mm							
312330.00X	L 1127, B 57, H 75	LED	830	3350	28	14,7	on/off
312330.00X.76	L 1127, B 57, H 75	LED	830	3350	28	14,7	DALI
312330.00X.1	L 1127, B 57, H 75	LED	840	3550	28	14,9	on/off
312330.00X.1.76	L 1127, B 57, H 75	LED	840	3550	28	14,9	DALI
Length L 1407 mm							
312331.00X	L 1407, B 57, H 75	LED	830	4200	35	14,7	on/off
312331.00X.76	L 1407, B 57, H 75	LED	830	4200	35	14,7	DALI
312331.00X.1	L 1407, B 57, H 75	LED	840	4450	35	14,9	on/off
312331.00X.1.76	L 1407, B 57, H 75	LED	840	4450	35	14,9	DALI
Length L 1687 mm							
312332.00X	L 1687, B 57, H 75	LED	830	5050	41	14,7	on/off
312332.00X.76	L 1687, B 57, H 75	LED	830	5050	41	14,7	DALI
312332.00X.1	L 1687, B 57, H 75	LED	840	5300	41	14,9	on/off
312332.00X.1.76	L 1687, B 57, H 75	LED	840	5300	41	14,9	DALI
Length L 1967 mm							
312333.00X	L 1967, B 57, H 75	LED	830	5900	48	14,7	on/off
312333.00X.76	L 1967, B 57, H 75	LED	830	5900	48	14,7	DALI
312333.00X.1	L 1967, B 57, H 75	LED	840	6200	48	14,9	on/off
312333.00X.1.76	L 1967, B 57, H 75	LED	840	6200	48	14,9	DALI

Diffuser: plastic (PMMA): The specified luminous flux refers to the white and white aluminium luminaire. With black, the luminous flux is reduced by approx. 10%. You can find detailed information at www.rzb-lighting.com.



Alea optical system

Pendant luminaires | Less is more 50

Type of Protection: IP 20

Protection Class: I

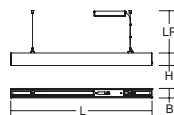
Impact Protection: IK03

Suspension Length: 2000 mm

Housing: extruded aluminium profile, powder-coated. End cap aluminium powder-coated. Diffuser made of non-yellowing plastic (PMMA) opal or **Alea Optical system**: Reflector structure (ABS, Aluminium-coated, highly polished) with diffuser made of non-yellowing plastic (PMMA) opal for glare-free light at the work-station (suitable for use in environments with computer screens in accordance with EN 12464-1). Direct light emission. LED unit with integrated converter interchangeable and removable. 2-point steel cable suspension freely positionable and infinitely height-adjustable. Special lengths available on request.

Canopy: aluminium, powder-coated. With sensors or as a safety luminaire on request.

Available colours (X): 2 = white, 3 = black, 45 = white aluminium



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
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Pendant luminaires with canopy - Direct light emission

Price Category 21

Diffuser: plastic (PMMA), opal

Length L 847 mm

312311.00X	L 847, B 57, H 75	LED	830	2300	22	26,2	on/off
312311.00X.76	L 847, B 57, H 75	LED	830	2300	22	26,2	DALI
312311.00X.1	L 847, B 57, H 75	LED	840	2400	22	26,4	on/off
312311.00X.1.76	L 847, B 57, H 75	LED	840	2400	22	26,4	DALI

Length L 1127 mm

312312.00X	L 1127, B 57, H 75	LED	830	3100	28	26,2	on/off
312312.00X.76	L 1127, B 57, H 75	LED	830	3100	28	26,2	DALI
312312.00X.1	L 1127, B 57, H 75	LED	840	3250	28	26,4	on/off
312312.00X.1.76	L 1127, B 57, H 75	LED	840	3250	28	26,4	DALI

Length L 1407 mm

312313.00X	L 1407, B 57, H 75	LED	830	3850	34	26,2	on/off
312313.00X.76	L 1407, B 57, H 75	LED	830	3850	34	26,2	DALI
312313.00X.1	L 1407, B 57, H 75	LED	840	4050	34	26,4	on/off
312313.00X.1.76	L 1407, B 57, H 75	LED	840	4050	34	26,4	DALI

Length L 1687 mm

312314.00X	L 1687, B 57, H 75	LED	830	4650	40	26,2	on/off
312314.00X.76	L 1687, B 57, H 75	LED	830	4650	40	26,2	DALI
312314.00X.1	L 1687, B 57, H 75	LED	840	4850	40	26,3	on/off
312314.00X.1.76	L 1687, B 57, H 75	LED	840	4850	40	26,3	DALI

Length L 1967 mm

312315.00X	L 1967, B 57, H 75	LED	830	5400	47	26,2	on/off
312315.00X.76	L 1967, B 57, H 75	LED	830	5400	47	26,2	DALI
312315.00X.1	L 1967, B 57, H 75	LED	840	5650	47	26,3	on/off
312315.00X.1.76	L 1967, B 57, H 75	LED	840	5650	47	26,3	DALI

Alea optical system

Length L 847 mm

312335.00X	L 847, B 57, H 75	LED	830	2500	22	14,7	on/off
312335.00X.76	L 847, B 57, H 75	LED	830	2500	22	14,7	DALI
312335.00X.1	L 847, B 57, H 75	LED	840	2650	22	14,9	on/off
312335.00X.1.76	L 847, B 57, H 75	LED	840	2650	22	14,9	DALI

Length L 1127 mm

312336.00X	L 1127, B 57, H 75	LED	830	3350	28	14,7	on/off
312336.00X.76	L 1127, B 57, H 75	LED	830	3350	28	14,7	DALI
312336.00X.1	L 1127, B 57, H 75	LED	840	3550	28	14,9	on/off
312336.00X.1.76	L 1127, B 57, H 75	LED	840	3550	28	14,9	DALI

Length L 1407 mm

312337.00X	L 1407, B 57, H 75	LED	830	4200	35	14,7	on/off
312337.00X.76	L 1407, B 57, H 75	LED	830	4200	35	14,7	DALI
312337.00X.1	L 1407, B 57, H 75	LED	840	4450	35	14,9	on/off
312337.00X.1.76	L 1407, B 57, H 75	LED	840	4450	35	14,9	DALI

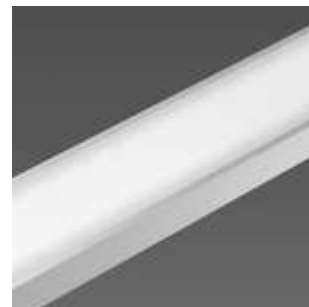
Length L 1687 mm

312338.00X	L 1687, B 57, H 75	LED	830	5050	41	14,7	on/off
312338.00X.76	L 1687, B 57, H 75	LED	830	5050	41	14,7	DALI
312338.00X.1	L 1687, B 57, H 75	LED	840	5300	41	14,9	on/off
312338.00X.1.76	L 1687, B 57, H 75	LED	840	5300	41	14,9	DALI

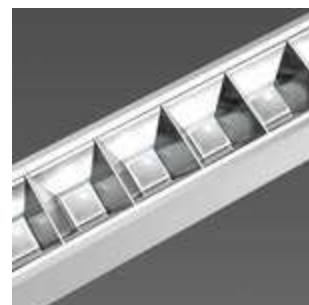
Length L 1967 mm

312339.00X	L 1967, B 57, H 75	LED	830	5900	48	14,7	on/off
312339.00X.76	L 1967, B 57, H 75	LED	830	5900	48	14,7	DALI
312339.00X.1	L 1967, B 57, H 75	LED	840	6200	48	14,9	on/off
312339.00X.1.76	L 1967, B 57, H 75	LED	840	6200	48	14,9	DALI

Diffuser: plastic (PMMA): The specified luminous flux refers to the white and white aluminium luminaire. With black, the luminous flux is reduced by approx. 10%. You can find detailed information at www.rzb-lighting.com.



Diffuser: plastic (PMMA), opal



Alea optical system



Pendant luminaires | Less is more 50

Type of Protection: IP 20

Protection Class: I

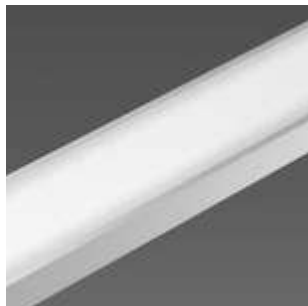
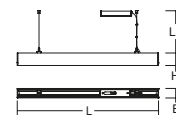
Impact Protection: IK03

Suspension Length: 2000 mm

Housing: extruded aluminium profile, powder-coated. End cap aluminium powder-coated.

Diffuser made of non-yellowing plastic (PMMA) opal or **Alea Optical system**: Reflector structure (ABS, Aluminium-coated, highly polished) with diffuser made of non-yellowing plastic (PMMA) opal for glare-free light at the workstation (suitable for use in environments with computer screens in accordance with EN 12464-1). Direct/indirect light emission. LED unit with integrated converter interchangeable and removable. 2-point steel cable suspension freely positionable and infinitely height-adjustable. Special lengths available on request. Canopy: aluminium, powder-coated. With sensors or as a safety luminaire on request.

Available colours (X): 2 = white, 3 = black, 45 = white aluminium



Diffuser: plastic (PMMA), opal



Pendant luminaires with canopy - Direct 65% - indirect 35% light emission

Price Category 21

Diffuser: plastic (PMMA), opal

Length L 847 mm

312317.00X	L 847, B 57, H 75	LED	830	3850	34	23,7	on/off
312317.00X.76	L 847, B 57, H 75	LED	830	3850	34	23,7	DALI
312317.00X.1	L 847, B 57, H 75	LED	840	4000	34	23,8	on/off
312317.00X.1.76	L 847, B 57, H 75	LED	840	4000	34	23,8	DALI

Length L 1127 mm

312318.00X	L 1127, B 57, H 75	LED	830	4600	40	23,3	on/off
312318.00X.76	L 1127, B 57, H 75	LED	830	4600	40	23,3	DALI
312318.00X.1	L 1127, B 57, H 75	LED	840	4800	40	23,5	on/off
312318.00X.1.76	L 1127, B 57, H 75	LED	840	4800	40	23,5	DALI

Length L 1407 mm

312319.00X	L 1407, B 57, H 75	LED	830	6150	52	23,5	on/off
312319.00X.76	L 1407, B 57, H 75	LED	830	6150	52	23,5	DALI
312319.00X.1	L 1407, B 57, H 75	LED	840	6450	52	23,7	on/off
312319.00X.1.76	L 1407, B 57, H 75	LED	840	6450	52	23,7	DALI

Length L 1687 mm

312320.00X	L 1687, B 57, H 75	LED	830	6900	59	23,3	on/off
312320.00X.76	L 1687, B 57, H 75	LED	830	6900	59	23,3	DALI
312320.00X.1	L 1687, B 57, H 75	LED	840	7250	59	23,5	on/off
312320.00X.1.76	L 1687, B 57, H 75	LED	840	7250	59	23,5	DALI

Length L 1967 mm

312321.00X	L 1967, B 57, H 75	LED	830	8450	74	23,5	on/off
312321.00X.76	L 1967, B 57, H 75	LED	830	8450	74	23,5	DALI
312321.00X.1	L 1967, B 57, H 75	LED	840	8850	74	23,6	on/off
312321.00X.1.76	L 1967, B 57, H 75	LED	840	8850	74	23,6	DALI

Alea optical system

Length L 847 mm

312341.00X	L 847, B 57, H 75	LED	830	3950	35	11,8	on/off
312341.00X.76	L 847, B 57, H 75	LED	830	3950	35	11,8	DALI
312341.00X.1	L 847, B 57, H 75	LED	840	4200	35	12,0	on/off
312341.00X.1.76	L 847, B 57, H 75	LED	840	4200	35	12,0	DALI

Length L 1127 mm

312342.00X	L 1127, B 57, H 75	LED	830	4800	46	11,5	on/off
312342.00X.76	L 1127, B 57, H 75	LED	830	4800	46	11,5	DALI
312342.00X.1	L 1127, B 57, H 75	LED	840	5050	46	11,7	on/off
312342.00X.1.76	L 1127, B 57, H 75	LED	840	5050	46	11,7	DALI

Length L 1407 mm

312343.00X	L 1407, B 57, H 75	LED	830	6400	58	11,7	on/off
312343.00X.76	L 1407, B 57, H 75	LED	830	6400	58	11,7	DALI
312343.00X.1	L 1407, B 57, H 75	LED	840	6700	58	11,9	on/off
312343.00X.1.76	L 1407, B 57, H 75	LED	840	6700	58	11,9	DALI

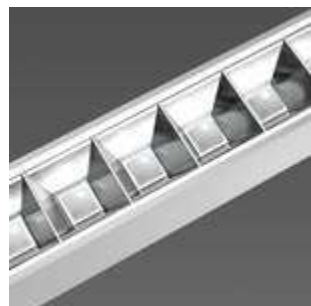
Length L 1687 mm

312344.00X	L 1687, B 57, H 75	LED	830	7200	64	11,5	on/off
312344.00X.76	L 1687, B 57, H 75	LED	830	7200	64	11,5	DALI
312344.00X.1	L 1687, B 57, H 75	LED	840	7600	64	11,7	on/off
312344.00X.1.76	L 1687, B 57, H 75	LED	840	7600	64	11,7	DALI

Length L 1967 mm

312345.00X	L 1967, B 57, H 75	LED	830	8800	76	11,6	on/off
312345.00X.76	L 1967, B 57, H 75	LED	830	8800	76	11,6	DALI
312345.00X.1	L 1967, B 57, H 75	LED	840	9250	76	11,8	on/off
312345.00X.1.76	L 1967, B 57, H 75	LED	840	9250	76	11,8	DALI

Diffuser: plastic (PMMA): The specified luminous flux refers to the white and white aluminium luminaire. With black, the luminous flux is reduced by approx. 10%. You can find detailed information at www.rzb-lighting.com.



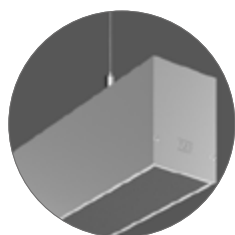
Alea optical system



LESS IS MORE® BEAMLINE

Everything at a glance

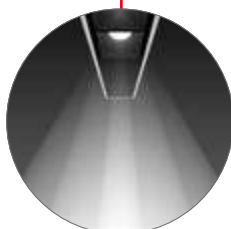
Ceiling mount with pre-assembled
SBS clamping bracket system.



2-point steel cable suspension freely
positionable and stepless height-
adjustable

Housing made of extruded
aluminium profile, anodised.

Three different light distribution options
(narrow, medium-wide and wide beam)
for maximum flexibility in use



Each LED light unit has 7 reflector
elements.

The LED unit with the integrated converter
is interchangeable and removable.



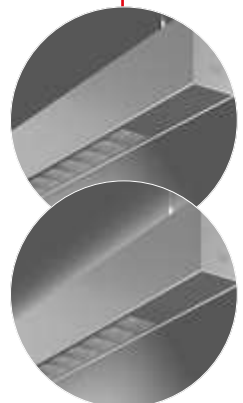
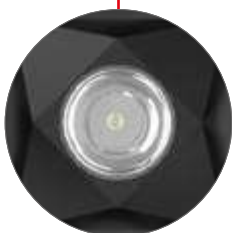
Very easy installation thanks
to plug & play connection

End caps: aluminium,
powdercoated

Two light emissions
(direct, direct/indirect)

LED light unit with MRS technology:
Mini-Reflector-System made of metallised
thermoplastic with prismatic black glare-
suppressing frame for pleasant glare-free light
(UGR < 10).

Colour rendering index
 $\text{CRI} \geq 90$ for
true-to-life colour
reproduction



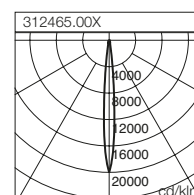


LESS IS MORE® BEAMLINE

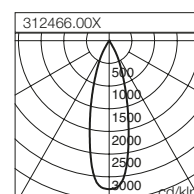
Recessed ceiling and wall luminaires, Ceiling and wall luminaires, Pendant luminaires

- Light perfectly integrated into the architectural environment
- MRS technology for pleasant, glare-free lighting (UGR < 10)
- Darklight effect
- Replaceable LED unit
- With integrated converter
- LED rated life 50,000 h (L80/B10)
- Colour rendering index Ra ≥ 90

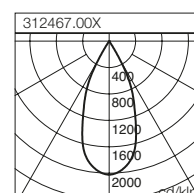
312465.00X		
h [m]	Ø [m]	E [lx]
1,0	0,15	32797
2,0	0,31	8199
3,0	0,46	3644
4,0	0,62	2050
5,0	0,77	1312



312466.00X		
h [m]	Ø [m]	E [lx]
1,0	0,52	5097
2,0	1,05	1274
3,0	1,57	566
4,0	2,10	319
5,0	2,62	204



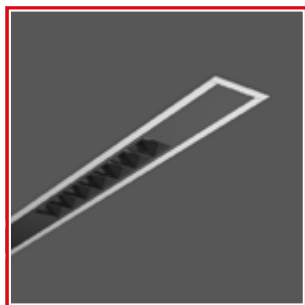
312467.00X		
h [m]	Ø [m]	E [lx]
1,0	0,80	3307
2,0	1,60	827
3,0	2,40	367
4,0	3,20	207
5,0	4,00	132



MRS technology

Mini-Reflector-System made of metallised thermoplastic with prismatic glare-suppressing frame for pleasant glare-free light (UGR < 10).





Recessed ceiling and wall luminaires | Less is more BeamLine

Type of Protection: IP 20

Protection Class: I

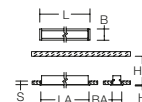
Ceiling thickness S: 10-30 mm

Impact Protection: IK03

Housing: extruded aluminium profile, powder-coated. End cap aluminium powder-coated.

LED light unit with **MRS technology**: Mini-Reflector-System made of metallised thermoplastic with prismatic black glare-suppressing frame for pleasant glare-free light (UGR < 10). Each LED light unit has 7 reflector elements. Three different light distribution options (narrow, medium-wide and wide beam) for maximum flexibility in use. Ceiling mounting with pre-assembled SBS clamping bracket system. LED unit with integrated converter interchangeable and removable.

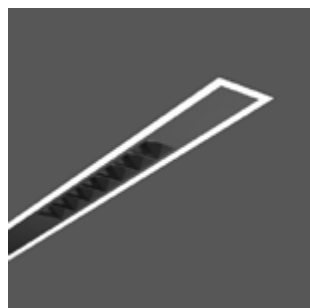
Available colours (X): 2 = white, 3 = black, 45 = white aluminium



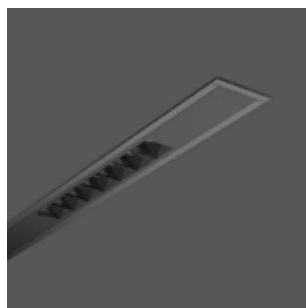
Luminaire with 2 LED light units



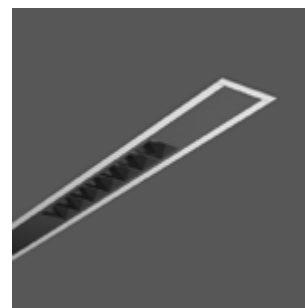
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Recessed ceiling and wall luminaires							
Luminaire with 2 LED light units - LA 1128 x BA 60 mm, HE 125 mm							
Narrow beam light distribution 10°							
312465.00X	L 1141, B 71, H 2	LED	930	2050	23	0,7	on/off
312465.00X.76	L 1141, B 71, H 2	LED	930	2050	23	0,7	DALI
312465.00X.1	L 1141, B 71, H 2	LED	940	2200	23	0,9	on/off
312465.00X.1.76	L 1141, B 71, H 2	LED	940	2200	23	0,9	DALI
312468.00X	L 1141, B 71, H 2	LED	930	3600	48	2,6	on/off
312468.00X.76	L 1141, B 71, H 2	LED	930	3600	48	2,6	DALI
312468.00X.1	L 1141, B 71, H 2	LED	940	3900	48	2,9	on/off
312468.00X.1.76	L 1141, B 71, H 2	LED	940	3900	48	2,9	DALI
Medium beam light distribution 30°							
312466.00X	L 1141, B 71, H 2	LED	930	1950	23	1,4	on/off
312466.00X.76	L 1141, B 71, H 2	LED	930	1950	23	1,4	DALI
312466.00X.1	L 1141, B 71, H 2	LED	940	2100	23	1,7	on/off
312466.00X.1.76	L 1141, B 71, H 2	LED	940	2100	23	1,7	DALI
312469.00X	L 1141, B 71, H 2	LED	930	3500	48	3,4	on/off
312469.00X.76	L 1141, B 71, H 2	LED	930	3500	48	3,4	DALI
312469.00X.1	L 1141, B 71, H 2	LED	940	3800	48	3,7	on/off
312469.00X.1.76	L 1141, B 71, H 2	LED	940	3800	48	3,7	DALI
Wide beam light distribution 50°							
312467.00X	L 1141, B 71, H 2	LED	930	2050	23	3,5	on/off
312467.00X.76	L 1141, B 71, H 2	LED	930	2050	23	3,5	DALI
312467.00X.1	L 1141, B 71, H 2	LED	940	2200	23	3,8	on/off
312467.00X.1.76	L 1141, B 71, H 2	LED	940	2200	23	3,8	DALI
312470.00X	L 1141, B 71, H 2	LED	930	3650	48	5,5	on/off
312470.00X.76	L 1141, B 71, H 2	LED	930	3650	48	5,5	DALI
312470.00X.1	L 1141, B 71, H 2	LED	940	3950	48	5,8	on/off
312470.00X.1.76	L 1141, B 71, H 2	LED	940	3950	48	5,8	DALI



2 = white

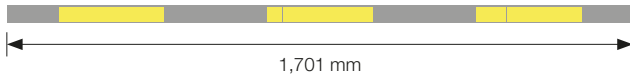


3 = black

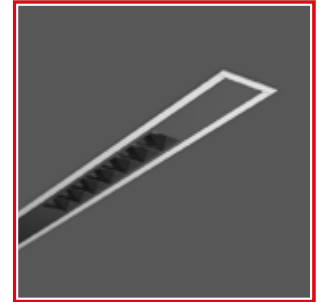


45 = white aluminium

Luminaire with 3 LED light units



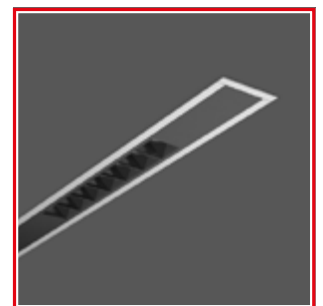
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Recessed ceiling and wall luminaires							
Luminaire with 3 LED light units - LA 1688 x BA 60 mm, HE 125 mm							
Narrow beam light distribution 10°							
312471.00X	L 1701, B 71, H 2	LED	930	3000	35	0,6	on/off
312471.00X.76	L 1701, B 71, H 2	LED	930	3000	35	0,6	DALI
312471.00X.1	L 1701, B 71, H 2	LED	940	3250	35	0,9	on/off
312471.00X.1.76	L 1701, B 71, H 2	LED	940	3250	35	0,9	DALI
312474.00X	L 1701, B 71, H 2	LED	930	5350	72	2,6	on/off
312474.00X.76	L 1701, B 71, H 2	LED	930	5350	72	2,6	DALI
312474.00X.1	L 1701, B 71, H 2	LED	940	5800	72	2,9	on/off
312474.00X.1.76	L 1701, B 71, H 2	LED	940	5800	72	2,9	DALI
Medium beam light distribution 30°							
312472.00X	L 1701, B 71, H 2	LED	930	2900	35	1,4	on/off
312472.00X.76	L 1701, B 71, H 2	LED	930	2900	35	1,4	DALI
312472.00X.1	L 1701, B 71, H 2	LED	940	3150	35	1,7	on/off
312472.00X.1.76	L 1701, B 71, H 2	LED	940	3150	35	1,7	DALI
312475.00X	L 1701, B 71, H 2	LED	930	5200	72	3,4	on/off
312475.00X.76	L 1701, B 71, H 2	LED	930	5200	72	3,4	DALI
312475.00X.1	L 1701, B 71, H 2	LED	940	5600	72	3,7	on/off
312475.00X.1.76	L 1701, B 71, H 2	LED	940	5600	72	3,7	DALI
Wide beam light distribution 50°							
312473.00X	L 1701, B 71, H 2	LED	930	3050	35	3,5	on/off
312473.00X.76	L 1701, B 71, H 2	LED	930	3050	35	3,5	DALI
312473.00X.1	L 1701, B 71, H 2	LED	940	3300	35	3,8	on/off
312473.00X.1.76	L 1701, B 71, H 2	LED	940	3300	35	3,8	DALI
312476.00X	L 1701, B 71, H 2	LED	930	5400	72	5,5	on/off
312476.00X.76	L 1701, B 71, H 2	LED	930	5400	72	5,5	DALI
312476.00X.1	L 1701, B 71, H 2	LED	940	5850	72	5,7	on/off
312476.00X.1.76	L 1701, B 71, H 2	LED	940	5850	72	5,7	DALI

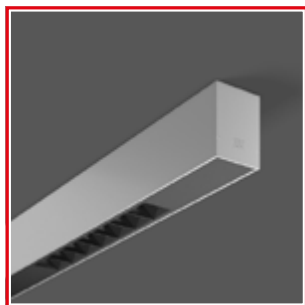


Luminaire with 4 LED light units



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Recessed ceiling and wall luminaires							
Luminaire with 4 LED light units - LA 2243 x BA 60 mm, HE 125 mm							
Narrow beam light distribution 10°							
312477.00X	L 2256, B 71, H 2	LED	930	4050	47	0,6	on/off
312477.00X.76	L 2256, B 71, H 2	LED	930	4050	47	0,6	DALI
312477.00X.1	L 2256, B 71, H 2	LED	940	4350	47	0,9	on/off
312477.00X.1.76	L 2256, B 71, H 2	LED	940	4350	47	0,9	DALI
312480.00X	L 2256, B 71, H 2	LED	930	7200	97	2,6	on/off
312480.00X.76	L 2256, B 71, H 2	LED	930	7200	97	2,6	DALI
312480.00X.1	L 2256, B 71, H 2	LED	940	7800	97	2,9	on/off
312480.00X.1.76	L 2256, B 71, H 2	LED	940	7800	97	2,9	DALI
Medium beam light distribution 30°							
312478.00X	L 2256, B 71, H 2	LED	930	3950	47	1,5	on/off
312478.00X.76	L 2256, B 71, H 2	LED	930	3950	47	1,5	DALI
312478.00X.1	L 2256, B 71, H 2	LED	940	4200	47	1,7	on/off
312478.00X.1.76	L 2256, B 71, H 2	LED	940	4200	47	1,7	DALI
312481.00X	L 2256, B 71, H 2	LED	930	6950	97	3,4	on/off
312481.00X.76	L 2256, B 71, H 2	LED	930	6950	97	3,4	DALI
312481.00X.1	L 2256, B 71, H 2	LED	940	7550	97	3,7	on/off
312481.00X.1.76	L 2256, B 71, H 2	LED	940	7550	97	3,7	DALI
Wide beam light distribution 50°							
312479.00X	L 2256, B 71, H 2	LED	930	4100	47	3,5	on/off
312479.00X.76	L 2256, B 71, H 2	LED	930	4100	47	3,5	DALI
312479.00X.1	L 2256, B 71, H 2	LED	940	4400	47	3,8	on/off
312479.00X.1.76	L 2256, B 71, H 2	LED	940	4400	47	3,8	DALI
312482.00X	L 2256, B 71, H 2	LED	930	7250	97	5,5	on/off
312482.00X.76	L 2256, B 71, H 2	LED	930	7250	97	5,5	DALI
312482.00X.1	L 2256, B 71, H 2	LED	940	7900	97	5,8	on/off
312482.00X.1.76	L 2256, B 71, H 2	LED	940	7900	97	5,8	DALI





Ceiling and wall luminaires | Less is more BeamLine

Type of Protection: IP 20

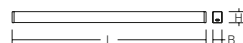
Protection Class: I

Impact Protection: IK03

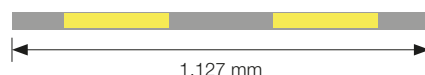
Housing: extruded aluminium profile, powder-coated. End cap aluminium powder-coated.

LED light unit with **MRS technology**: Mini-Reflector-System made of metallised thermoplastic with prismatic black glare-suppressing frame for pleasant glare-free light (UGR < 10). Each LED light unit has 7 reflector elements. Three different light distribution options (narrow, medium-wide and wide beam) for maximum flexibility in use. LED unit with integrated converter interchangeable and removable.

Available colours (X): 2 = white, 3 = black, 45 = white aluminium



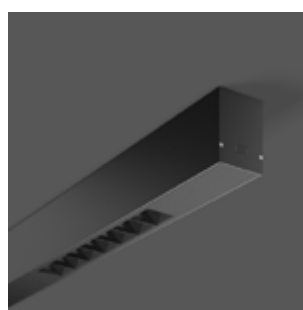
Luminaire with 2 LED light units



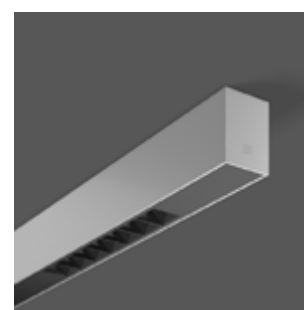
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Ceiling and wall luminaires							
Luminaire with 2 LED light units							
Narrow beam light distribution 10°							
312483.00X	L 1127, B 57, H 75	LED	930	2050	23	0,7	on/off
312483.00X.76	L 1127, B 57, H 75	LED	930	2050	23	0,7	DALI
312483.00X.1	L 1127, B 57, H 75	LED	940	2200	23	0,9	on/off
312483.00X.1.76	L 1127, B 57, H 75	LED	940	2200	23	0,9	DALI
312486.00X	L 1127, B 57, H 75	LED	930	3600	48	2,6	on/off
312486.00X.76	L 1127, B 57, H 75	LED	930	3600	48	2,6	DALI
312486.00X.1	L 1127, B 57, H 75	LED	940	3900	48	2,9	on/off
312486.00X.1.76	L 1127, B 57, H 75	LED	940	3900	48	2,9	DALI
Medium beam light distribution 30°							
312484.00X	L 1127, B 57, H 75	LED	930	1950	23	1,4	on/off
312484.00X.76	L 1127, B 57, H 75	LED	930	1950	23	1,4	DALI
312484.00X.1	L 1127, B 57, H 75	LED	940	2100	23	1,7	on/off
312484.00X.1.76	L 1127, B 57, H 75	LED	940	2100	23	1,7	DALI
312487.00X	L 1127, B 57, H 75	LED	930	3500	48	3,4	on/off
312487.00X.76	L 1127, B 57, H 75	LED	930	3500	48	3,4	DALI
312487.00X.1	L 1127, B 57, H 75	LED	940	3800	48	3,7	on/off
312487.00X.1.76	L 1127, B 57, H 75	LED	940	3800	48	3,7	DALI
Wide beam light distribution 50°							
312485.00X	L 1127, B 57, H 75	LED	930	2050	23	3,5	on/off
312485.00X.76	L 1127, B 57, H 75	LED	930	2050	23	3,5	DALI
312485.00X.1	L 1127, B 57, H 75	LED	940	2200	23	3,8	on/off
312485.00X.1.76	L 1127, B 57, H 75	LED	940	2200	23	3,8	DALI
312488.00X	L 1127, B 57, H 75	LED	930	3650	48	5,5	on/off
312488.00X.76	L 1127, B 57, H 75	LED	930	3650	48	5,5	DALI
312488.00X.1	L 1127, B 57, H 75	LED	940	3950	48	5,8	on/off
312488.00X.1.76	L 1127, B 57, H 75	LED	940	3950	48	5,8	DALI



2 = white

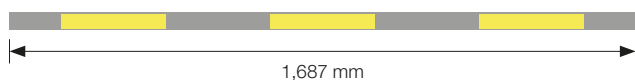


3 = black

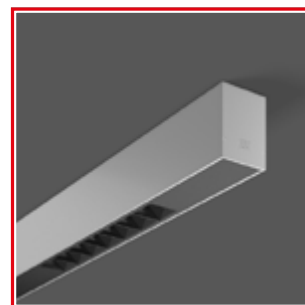


45 = white aluminium

Luminaire with 3 LED light units



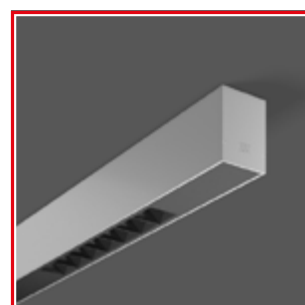
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Ceiling and wall luminaires							
Price Category 21							
Luminaire with 3 LED light units							
Narrow beam light distribution 10°							
312489.00X	L 1687, B 57, H 75	LED	930	3000	35	0,6	on/off
312489.00X.76	L 1687, B 57, H 75	LED	930	3000	35	0,6	DALI
312489.00X.1	L 1687, B 57, H 75	LED	940	3250	35	0,9	on/off
312489.00X.1.76	L 1687, B 57, H 75	LED	940	3250	35	0,9	DALI
312492.00X	L 1687, B 57, H 75	LED	930	5350	72	2,6	on/off
312492.00X.76	L 1687, B 57, H 75	LED	930	5350	72	2,6	DALI
312492.00X.1	L 1687, B 57, H 75	LED	940	5800	72	2,9	on/off
312492.00X.1.76	L 1687, B 57, H 75	LED	940	5800	72	2,9	DALI
Medium beam light distribution 30°							
312490.00X	L 1687, B 57, H 75	LED	930	2900	35	1,4	on/off
312490.00X.76	L 1687, B 57, H 75	LED	930	2900	35	1,4	DALI
312490.00X.1	L 1687, B 57, H 75	LED	940	3150	35	1,7	on/off
312490.00X.1.76	L 1687, B 57, H 75	LED	940	3150	35	1,7	DALI
312493.00X	L 1687, B 57, H 75	LED	930	5200	72	3,4	on/off
312493.00X.76	L 1687, B 57, H 75	LED	930	5200	72	3,4	DALI
312493.00X.1	L 1687, B 57, H 75	LED	940	5600	72	3,7	on/off
312493.00X.1.76	L 1687, B 57, H 75	LED	940	5600	72	3,7	DALI
Wide beam light distribution 50°							
312491.00X	L 1687, B 57, H 75	LED	930	3050	35	3,5	on/off
312491.00X.76	L 1687, B 57, H 75	LED	930	3050	35	3,5	DALI
312491.00X.1	L 1687, B 57, H 75	LED	940	3300	35	3,8	on/off
312491.00X.1.76	L 1687, B 57, H 75	LED	940	3300	35	3,8	DALI
312494.00X	L 1687, B 57, H 75	LED	930	5400	72	5,5	on/off
312494.00X.76	L 1687, B 57, H 75	LED	930	5400	72	5,5	DALI
312494.00X.1	L 1687, B 57, H 75	LED	940	5850	72	5,7	on/off
312494.00X.1.76	L 1687, B 57, H 75	LED	940	5850	72	5,7	DALI

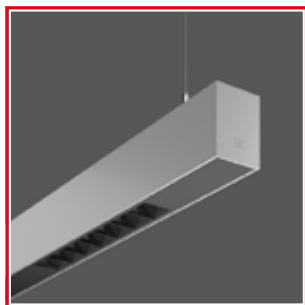


Luminaire with 4 LED light units



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Ceiling and wall luminaires							
Price Category 21							
Luminaire with 4 LED light units							
Narrow beam light distribution 10°							
312495.00X	L 2242, B 57, H 75	LED	930	4050	47	0,6	on/off
312495.00X.76	L 2242, B 57, H 75	LED	930	4050	47	0,6	DALI
312495.00X.1	L 2242, B 57, H 75	LED	940	4350	47	0,9	on/off
312495.00X.1.76	L 2242, B 57, H 75	LED	940	4350	47	0,9	DALI
312498.00X	L 2242, B 57, H 75	LED	930	7200	97	2,6	on/off
312498.00X.76	L 2242, B 57, H 75	LED	930	7200	97	2,6	DALI
312498.00X.1	L 2242, B 57, H 75	LED	940	7800	97	2,9	on/off
312498.00X.1.76	L 2242, B 57, H 75	LED	940	7800	97	2,9	DALI
Medium beam light distribution 30°							
312496.00X	L 2242, B 57, H 75	LED	930	3950	47	1,5	on/off
312496.00X.76	L 2242, B 57, H 75	LED	930	3950	47	1,5	DALI
312496.00X.1	L 2242, B 57, H 75	LED	940	4200	47	1,7	on/off
312496.00X.1.76	L 2242, B 57, H 75	LED	940	4200	47	1,7	DALI
312499.00X	L 2242, B 57, H 75	LED	930	6950	97	3,4	on/off
312499.00X.76	L 2242, B 57, H 75	LED	930	6950	97	3,4	DALI
312499.00X.1	L 2242, B 57, H 75	LED	940	7550	97	3,7	on/off
312499.00X.1.76	L 2242, B 57, H 75	LED	940	7550	97	3,7	DALI
Wide beam light distribution 50°							
312497.00X	L 2242, B 57, H 75	LED	930	4100	47	3,5	on/off
312497.00X.76	L 2242, B 57, H 75	LED	930	4100	47	3,5	DALI
312497.00X.1	L 2242, B 57, H 75	LED	940	4400	47	3,8	on/off
312497.00X.1.76	L 2242, B 57, H 75	LED	940	4400	47	3,8	DALI
312500.00X	L 2242, B 57, H 75	LED	930	7250	97	5,5	on/off
312500.00X.76	L 2242, B 57, H 75	LED	930	7250	97	5,5	DALI
312500.00X.1	L 2242, B 57, H 75	LED	940	7900	97	5,8	on/off
312500.00X.1.76	L 2242, B 57, H 75	LED	940	7900	97	5,8	DALI





Pendant luminaires | Less is more BeamLine

Type of Protection: IP 20

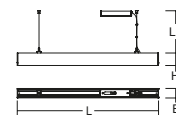
Protection Class: I

Suspension Length: 2000 mm

Housing: extruded aluminium profile, powder-coated. End cap aluminium powder-coated.




LED light unit with **MRS technology**: Mini-Reflector-System made of metallised thermoplastic with prismatic black glare-suppressing frame for pleasant glare-free light (UGR < 10). Each LED light unit has 7 reflector elements. Direct light emission. Three different light distribution options (narrow, medium-wide and wide beam) for maximum flexibility in use. LED unit with integrated converter interchangeable and removable. 2-point steel cable suspension freely positionable and infinitely height-adjustable. Special lengths available on request.

Available colours (X): 2 = white, 3 = black, 45 = white aluminium



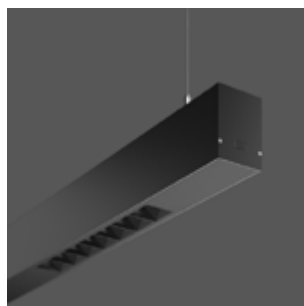
Luminaire with 2 LED light units



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimming
Pendant luminaires - Direct light emission							Price Category 21
Luminaire with 2 LED light units							
Narrow beam light distribution 10°							
 312501.00X	L 1127, B 57, H 75	LED	930	2050	23	0,7	on/off
312501.00X.76	L 1127, B 57, H 75	LED	930	2050	23	0,7	DALI
312501.00X.1	L 1127, B 57, H 75	LED	940	2200	23	0,9	on/off
312501.00X.1.76	L 1127, B 57, H 75	LED	940	2200	23	0,9	DALI
312504.00X	L 1127, B 57, H 75	LED	930	3600	48	2,6	on/off
312504.00X.76	L 1127, B 57, H 75	LED	930	3600	48	2,6	DALI
312504.00X.1	L 1127, B 57, H 75	LED	940	3900	48	2,9	on/off
312504.00X.1.76	L 1127, B 57, H 75	LED	940	3900	48	2,9	DALI
Medium beam light distribution 30°							
 312502.00X	L 1127, B 57, H 75	LED	930	1950	23	1,4	on/off
312502.00X.76	L 1127, B 57, H 75	LED	930	1950	23	1,4	DALI
312502.00X.1	L 1127, B 57, H 75	LED	940	2100	23	1,7	on/off
312502.00X.1.76	L 1127, B 57, H 75	LED	940	2100	23	1,7	DALI
312505.00X	L 1127, B 57, H 75	LED	930	3500	48	3,4	on/off
312505.00X.76	L 1127, B 57, H 75	LED	930	3500	48	3,4	DALI
312505.00X.1	L 1127, B 57, H 75	LED	940	3800	48	3,7	on/off
312505.00X.1.76	L 1127, B 57, H 75	LED	940	3800	48	3,7	DALI
Wide beam light distribution 50°							
 312503.00X	L 1127, B 57, H 75	LED	930	2050	23	3,5	on/off
312503.00X.76	L 1127, B 57, H 75	LED	930	2050	23	3,5	DALI
312503.00X.1	L 1127, B 57, H 75	LED	940	2200	23	3,8	on/off
312503.00X.1.76	L 1127, B 57, H 75	LED	940	2200	23	3,8	DALI
312506.00X	L 1127, B 57, H 75	LED	930	3650	48	5,5	on/off
312506.00X.76	L 1127, B 57, H 75	LED	930	3650	48	5,5	DALI
312506.00X.1	L 1127, B 57, H 75	LED	940	3950	48	5,8	on/off
312506.00X.1.76	L 1127, B 57, H 75	LED	940	3950	48	5,8	DALI



2 = white

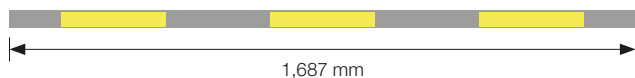


3 = black

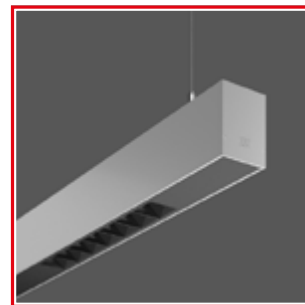


45 = white aluminium

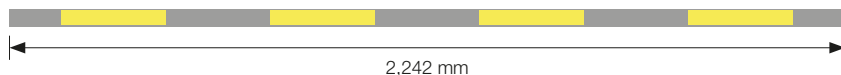
Luminaire with 3 LED light units



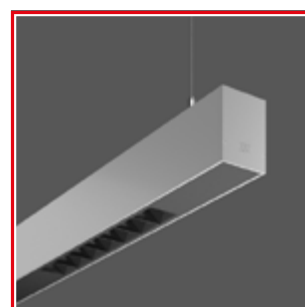
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires - Direct light emission							
Price Category 21							
Luminaire with 3 LED light units							
Narrow beam light distribution 10°							
312513.00X	L 1687, B 57, H 75	LED	930	3000	35	0,6	on/off
312513.00X.76	L 1687, B 57, H 75	LED	930	3000	35	0,6	DALI
312513.00X.1	L 1687, B 57, H 75	LED	940	3250	35	0,9	on/off
312513.00X.1.76	L 1687, B 57, H 75	LED	940	3250	35	0,9	DALI
312516.00X	L 1687, B 57, H 75	LED	930	5350	72	2,6	on/off
312516.00X.76	L 1687, B 57, H 75	LED	930	5350	72	2,6	DALI
312516.00X.1	L 1687, B 57, H 75	LED	940	5800	72	2,9	on/off
312516.00X.1.76	L 1687, B 57, H 75	LED	940	5800	72	2,9	DALI
Medium beam light distribution 30°							
312514.00X	L 1687, B 57, H 75	LED	930	2900	35	1,4	on/off
312514.00X.76	L 1687, B 57, H 75	LED	930	2900	35	1,4	DALI
312514.00X.1	L 1687, B 57, H 75	LED	940	3150	35	1,7	on/off
312514.00X.1.76	L 1687, B 57, H 75	LED	940	3150	35	1,7	DALI
312517.00X	L 1687, B 57, H 75	LED	930	5200	72	3,4	on/off
312517.00X.76	L 1687, B 57, H 75	LED	930	5200	72	3,4	DALI
312517.00X.1	L 1687, B 57, H 75	LED	940	5600	72	3,7	on/off
312517.00X.1.76	L 1687, B 57, H 75	LED	940	5600	72	3,7	DALI
Wide beam light distribution 50°							
312515.00X	L 1687, B 57, H 75	LED	930	3050	35	3,5	on/off
312515.00X.76	L 1687, B 57, H 75	LED	930	3050	35	3,5	DALI
312515.00X.1	L 1687, B 57, H 75	LED	940	3300	35	3,8	on/off
312515.00X.1.76	L 1687, B 57, H 75	LED	940	3300	35	3,8	DALI
312518.00X	L 1687, B 57, H 75	LED	930	5400	72	5,5	on/off
312518.00X.76	L 1687, B 57, H 75	LED	930	5400	72	5,5	DALI
312518.00X.1	L 1687, B 57, H 75	LED	940	5850	72	5,7	on/off
312518.00X.1.76	L 1687, B 57, H 75	LED	940	5850	72	5,7	DALI

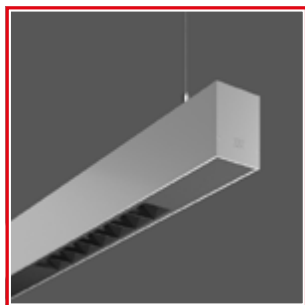


Luminaire with 4 LED light units



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires - Direct light emission							
Price Category 21							
Luminaire with 4 LED light units							
Narrow beam light distribution 10°							
312525.00X	L 2242, B 57, H 75	LED	930	4050	47	0,6	on/off
312525.00X.76	L 2242, B 57, H 75	LED	930	4050	47	0,6	DALI
312525.00X.1	L 2242, B 57, H 75	LED	940	4350	47	0,9	on/off
312525.00X.1.76	L 2242, B 57, H 75	LED	940	4350	47	0,9	DALI
312528.00X	L 2242, B 57, H 75	LED	930	7200	97	2,6	on/off
312528.00X.76	L 2242, B 57, H 75	LED	930	7200	97	2,6	DALI
312528.00X.1	L 2242, B 57, H 75	LED	940	7800	97	2,9	on/off
312528.00X.1.76	L 2242, B 57, H 75	LED	940	7800	97	2,9	DALI
Medium beam light distribution 30°							
312526.00X	L 2242, B 57, H 75	LED	930	3950	47	1,5	on/off
312526.00X.76	L 2242, B 57, H 75	LED	930	3950	47	1,5	DALI
312526.00X.1	L 2242, B 57, H 75	LED	940	4200	47	1,7	on/off
312526.00X.1.76	L 2242, B 57, H 75	LED	940	4200	47	1,7	DALI
312529.00X	L 2242, B 57, H 75	LED	930	6950	97	3,4	on/off
312529.00X.76	L 2242, B 57, H 75	LED	930	6950	97	3,4	DALI
312529.00X.1	L 2242, B 57, H 75	LED	940	7550	97	3,7	on/off
312529.00X.1.76	L 2242, B 57, H 75	LED	940	7550	97	3,7	DALI
Wide beam light distribution 50°							
312527.00X	L 2242, B 57, H 75	LED	930	4100	47	3,5	on/off
312527.00X.76	L 2242, B 57, H 75	LED	930	4100	47	3,5	DALI
312527.00X.1	L 2242, B 57, H 75	LED	940	4400	47	3,8	on/off
312527.00X.1.76	L 2242, B 57, H 75	LED	940	4400	47	3,8	DALI
312530.00X	L 2242, B 57, H 75	LED	930	7250	97	5,5	on/off
312530.00X.76	L 2242, B 57, H 75	LED	930	7250	97	5,5	DALI
312530.00X.1	L 2242, B 57, H 75	LED	940	7900	97	5,8	on/off
312530.00X.1.76	L 2242, B 57, H 75	LED	940	7900	97	5,8	DALI





Pendant luminaires | Less is more BeamLine

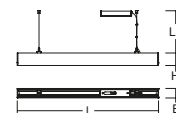
Type of Protection: IP 20

Protection Class: I

Suspension Length: 2000 mm

Housing: extruded aluminium profile, powder-coated. End cap aluminium powder-coated. LED light unit with **MRS technology**: Mini-Reflector-System made of metallised thermoplastic with prismatic black glare-suppressing frame for pleasant glare-free light (UGR < 10). Each LED light unit has 7 reflector elements. Direct/indirect light emission. Three different light distribution options (narrow, medium-wide and wide beam) for maximum flexibility in use. LED unit with integrated converter interchangeable and removable. 2-point steel cable suspension freely positionable and infinitely height-adjustable. Special lengths available on request.

Available colours (X): 2 = white, 3 = black, 45 = white aluminium



Luminaire with 2 LED light units



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires - Direct/indirect light emission							
Luminaire with 2 LED light units							
Narrow beam light distribution 10° - Direct 55%, indirect 45% light emission							
	312507.00X	L 1127, B 57, H 75	LED	930	3650	38	0,7 on/off
	312507.00X.76	L 1127, B 57, H 75	LED	930	3650	38	0,7 DALI
	312507.00X.1	L 1127, B 57, H 75	LED	940	3850	38	0,9 on/off
	312507.00X.1.76	L 1127, B 57, H 75	LED	940	3850	38	0,9 DALI
Narrow beam light distribution 10° - Direct 67%, indirect 33% light emission							
	312510.00X	L 1127, B 57, H 75	LED	930	5200	63	3,6 on/off
	312510.00X.76	L 1127, B 57, H 75	LED	930	5200	63	3,6 DALI
	312510.00X.1	L 1127, B 57, H 75	LED	940	5600	63	3,8 on/off
	312510.00X.1.76	L 1127, B 57, H 75	LED	940	5600	63	3,8 DALI
Medium beam light distribution 30° - Direct 55%, indirect 45% light emission							
	312508.00X	L 1127, B 57, H 75	LED	930	3600	38	1,1 on/off
	312508.00X.76	L 1127, B 57, H 75	LED	930	3600	38	1,1 DALI
	312508.00X.1	L 1127, B 57, H 75	LED	940	3800	38	1,3 on/off
	312508.00X.1.76	L 1127, B 57, H 75	LED	940	3800	38	1,3 DALI
Medium beam light distribution 30° - Direct 67%, indirect 33% light emission							
	312511.00X	L 1127, B 57, H 75	LED	930	5100	63	4,3 on/off
	312511.00X.76	L 1127, B 57, H 75	LED	930	5100	63	4,3 DALI
	312511.00X.1	L 1127, B 57, H 75	LED	940	5450	63	4,5 on/off
	312511.00X.1.76	L 1127, B 57, H 75	LED	940	5450	63	4,5 DALI
Wide beam light distribution 50° - Direct 55%, indirect 45% light emission							
	312509.00X	L 1127, B 57, H 75	LED	930	3650	38	3,7 on/off
	312509.00X.76	L 1127, B 57, H 75	LED	930	3650	38	3,7 DALI
	312509.00X.1	L 1127, B 57, H 75	LED	940	3900	38	4,0 on/off
	312509.00X.1.76	L 1127, B 57, H 75	LED	940	3900	38	4,0 DALI
Wide beam light distribution 50° - Direct 67%, indirect 33% light emission							
	312512.00X	L 1127, B 57, H 75	LED	930	5250	63	6,9 on/off
	312512.00X.76	L 1127, B 57, H 75	LED	930	5250	63	6,9 DALI
	312512.00X.1	L 1127, B 57, H 75	LED	940	5600	63	7,1 on/off
	312512.00X.1.76	L 1127, B 57, H 75	LED	940	5600	63	7,1 DALI



2 = white

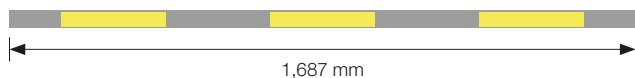


3 = black

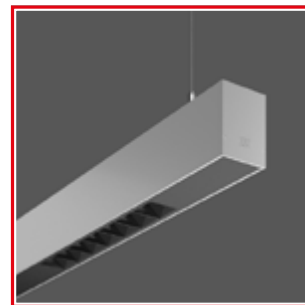


45 = white aluminium

Luminaire with 3 LED light units



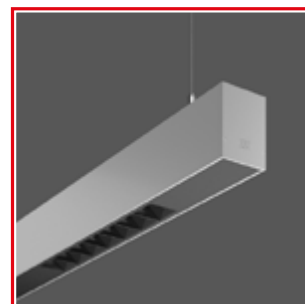
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires - Direct/indirect light emission							
Price Category 21							
Luminaire with 3 LED light units							
Narrow beam light distribution 10° - Direct 55%, indirect 45% light emission							
312519.00X	L 1687, B 57, H 75	LED	930	5450	55	2,6	on/off
312519.00X.76	L 1687, B 57, H 75	LED	930	5450	55	2,6	DALI
312519.00X.1	L 1687, B 57, H 75	LED	940	5800	55	2,8	on/off
312519.00X.1.76	L 1687, B 57, H 75	LED	940	5800	55	2,8	DALI
Narrow beam light distribution 10° - Direct 67%, indirect 33% light emission							
312522.00X	L 1687, B 57, H 75	LED	930	7700	93	3,8	on/off
312522.00X.76	L 1687, B 57, H 75	LED	930	7700	93	3,8	DALI
312522.00X.1	L 1687, B 57, H 75	LED	940	8250	93	4,0	on/off
312522.00X.1.76	L 1687, B 57, H 75	LED	940	8250	93	4,0	DALI
Medium beam light distribution 30° - Direct 55%, indirect 45% light emission							
312520.00X	L 1687, B 57, H 75	LED	930	5300	55	3,0	on/off
312520.00X.76	L 1687, B 57, H 75	LED	930	5300	55	3,0	DALI
312520.00X.1	L 1687, B 57, H 75	LED	940	5650	55	3,2	on/off
312520.00X.1.76	L 1687, B 57, H 75	LED	940	5650	55	3,2	DALI
Medium beam light distribution 30° - Direct 67%, indirect 33% light emission							
312523.00X	L 1687, B 57, H 75	LED	930	7500	93	4,2	on/off
312523.00X.76	L 1687, B 57, H 75	LED	930	7500	93	4,2	DALI
312523.00X.1	L 1687, B 57, H 75	LED	940	8050	93	4,4	on/off
312523.00X.1.76	L 1687, B 57, H 75	LED	940	8050	93	4,4	DALI
Wide beam light distribution 50° - Direct 55%, indirect 45% light emission							
312521.00X	L 1687, B 57, H 75	LED	930	5450	55	4,4	on/off
312521.00X.76	L 1687, B 57, H 75	LED	930	5450	55	4,4	DALI
312521.00X.1	L 1687, B 57, H 75	LED	940	5850	55	4,6	on/off
312521.00X.1.76	L 1687, B 57, H 75	LED	940	5850	55	4,6	DALI
Wide beam light distribution 50° - Direct 67%, indirect 33% light emission							
312524.00X	L 1687, B 57, H 75	LED	930	7750	93	5,6	on/off
312524.00X.76	L 1687, B 57, H 75	LED	930	7750	93	5,6	DALI
312524.00X.1	L 1687, B 57, H 75	LED	940	8300	93	5,8	on/off
312524.00X.1.76	L 1687, B 57, H 75	LED	940	8300	93	5,8	DALI



Luminaire with 4 LED light units



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires - Direct/indirect light emission							
Price Category 21							
Luminaire with 4 LED light units							
Narrow beam light distribution 10° - Direct 55%, indirect 45% light emission							
312531.00X	L 2242, B 57, H 75	LED	930	7300	76	0,7	on/off
312531.00X.76	L 2242, B 57, H 75	LED	930	7300	76	0,7	DALI
312531.00X.1	L 2242, B 57, H 75	LED	940	7700	76	0,9	on/off
312531.00X.1.76	L 2242, B 57, H 75	LED	940	7700	76	0,9	DALI
Narrow beam light distribution 10° - Direct 67%, indirect 33% light emission							
312534.00X	L 2242, B 57, H 75	LED	930	10400	126	2,0	on/off
312534.00X.76	L 2242, B 57, H 75	LED	930	10400	126	2,0	DALI
312534.00X.1	L 2242, B 57, H 75	LED	940	11200	126	2,2	on/off
312534.00X.1.76	L 2242, B 57, H 75	LED	940	11200	126	2,2	DALI
Medium beam light distribution 30° - Direct 55%, indirect 45% light emission							
312532.00X	L 2242, B 57, H 75	LED	930	7150	76	1,1	on/off
312532.00X.76	L 2242, B 57, H 75	LED	930	7150	76	1,1	DALI
312532.00X.1	L 2242, B 57, H 75	LED	940	7550	76	1,3	on/off
312532.00X.1.76	L 2242, B 57, H 75	LED	940	7550	76	1,3	DALI
Medium beam light distribution 30° - Direct 67%, indirect 33% light emission							
312535.00X	L 2242, B 57, H 75	LED	930	10200	126	2,4	on/off
312535.00X.76	L 2242, B 57, H 75	LED	930	10200	126	2,4	DALI
312535.00X.1	L 2242, B 57, H 75	LED	940	10900	126	2,6	on/off
312535.00X.1.76	L 2242, B 57, H 75	LED	940	10900	126	2,6	DALI
Wide beam light distribution 50° - Direct 55%, indirect 45% light emission							
312533.00X	L 2242, B 57, H 75	LED	930	7350	76	3,8	on/off
312533.00X.76	L 2242, B 57, H 75	LED	930	7350	76	3,8	DALI
312533.00X.1	L 2242, B 57, H 75	LED	940	7750	76	4,0	on/off
312533.00X.1.76	L 2242, B 57, H 75	LED	940	7750	76	4,0	DALI
Wide beam light distribution 50° - Direct 67%, indirect 33% light emission							
312536.00X	L 2242, B 57, H 75	LED	930	10400	126	5,0	on/off
312536.00X.76	L 2242, B 57, H 75	LED	930	10400	126	5,0	DALI
312536.00X.1	L 2242, B 57, H 75	LED	940	11200	126	5,2	on/off
312536.00X.1.76	L 2242, B 57, H 75	LED	940	11200	126	5,2	DALI





LESS IS MORE® - SYSTEMS

Pendant luminaires, recessed ceiling and wall luminaires, ceiling and wall luminaires

- Continuous line of light up to 50 m
- Gapless, mechanical and electrical connection
- Configurator for planning linear luminaire systems
- Different forms can be configured
- As aesthetically sophisticated general lighting (corridors, hotel, shops, private areas) or accentuated lighting
- Colour consistency within 3-steps MacAdam (3 SDCM)



LESS IS MORE® - SYSTEMS

Configurator

1



First step: Choose your Less is more version. Than...

2



...LOUI design...

3

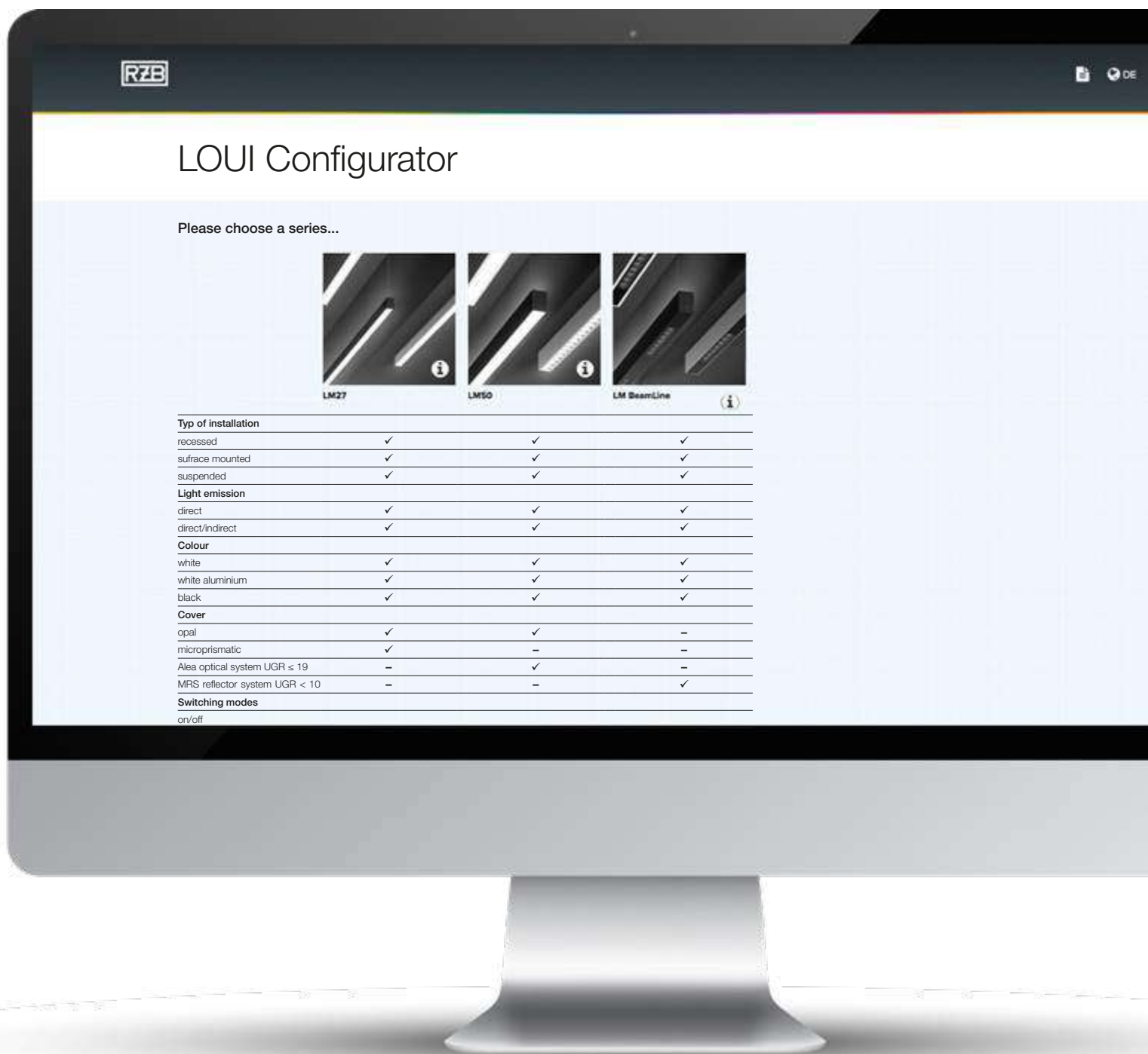


...installation type...

4



...profile colour...



5



...cover/diffuser...

6



...LED Power...

7



...switching mode...

8



...and colour temperature.

9



Determine dimensions for the desired design - only feasible dimensions are suggested.

10

The LOUI configurator

Planning was never so easy!

With the RZB configurator you can plan your luminaire system quickly, safely and creatively.

- ✓ Free configuration of your luminaire system
- ✓ Direct price information and material configuration
- ✓ Including an installation drawing of your luminaire system in DXF format
- ✓ Including the ROLFZ file of your configured system for your planning in RELUX!

Result

Art. no. 1K-LM1034-00000001

2.382,00 € net

excl. 19% VAT (shipping costs may apply)

2.834,58 €

Show price information for Deutschland +

INQUIRE

PRINT

DXF DRAWING

ROLFZ

INSTRUCTION

To view the DXF-file, you can use these online viewers:

[Autodesk A360](#)

[etoolbox Mobile CAD Viewer](#)

DESCRIPTION

Less is more BeamLine Systems
Ceiling luminaire, MRS-Technology
Color: black
Anti glare frame: black
Light distribution: medium wide 30°
CRI: > 90
Luminous flux: ca. 2000 lm/m
Type of protection: IP 20
Protection class: I
Color temperature: 4000 K
Dimmable: DALI
LED rated life: 50.000 L80B10

Housing: extruded aluminium profile, powder-coated. End cap aluminium powder-coated. LED light unit with MRS technology: Mini-Reflector-System made of metallised thermoplastic with prismatic black glare-suppressing frame for pleasant glare-free light (UGR < 10).

...ready for planning!

▶ Start playing: rzb.de/loui



LESS IS MORE® 27 - SYSTEMS

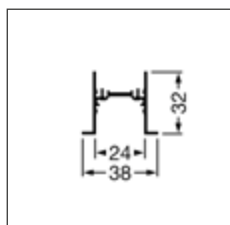
Details at a glance



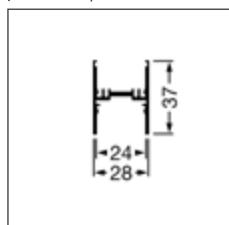
The LED system with slim design

- Continuous line of light up to 50 m
- Version with micro-grid is suitable for office areas (UGR ≤ 19) and environments with computer screens in accordance with EN 12464-1
- External driver with connecting cable
- Luminous fluxes up to 3000 lm/m
- LED rated life 60,000 h (L80, B10)

recessed



pendant | surface mounted



Less is more 27 - Systems

Type of installation

recessed	✓
surface mounted	✓
suspended	✓

Light emission

direct	✓
direct/indirect	✓

Colour

white	✓
white aluminium	✓
black	✓

Cover

opal	✓
microprismatic	✓
micro-grid (UGR ≤ 19)	✓
Alea optical system (UGR ≤ 19)	-
MRS technology (UGR < 10)	-

Switching modes

on/off	✓
DALI	✓

Light colours

830, 840	✓
930, 940	-

Driver

external	✓
internally	-

Forms

„LOUI“	✓
„ΔZ“	on request

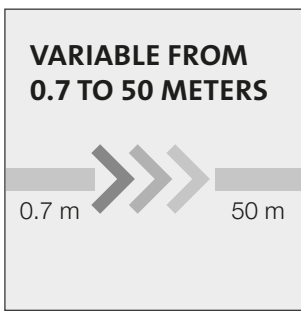
Types of installation



Pendant, surface mounted and recessed

The three types of installation, pendant, surface mounting and flush mounting, offer very much freedom of design in your planning.

Modules



Through sub-modules, which are available from 700 - 2,000 mm, all system sizes (divisible every 100 mm) can be put together to a total length of 50 m.

This would always offer you the desired length in the project.

End cap



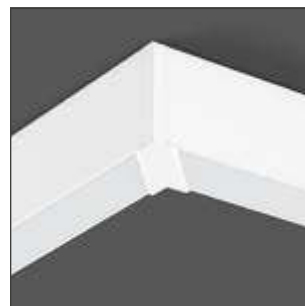
Since the end cap is suitable for all profiles and covers, your system has a finish without any light leakage.

Connection



Gapless, mechanical and electrical connection

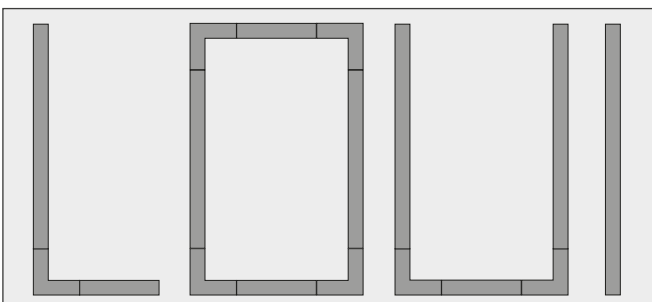
The mechanical connection between the individual profiles guarantees stability and safety. This is invisibly integrated in the profile, so that an uninterrupted light line without light leakage is created.



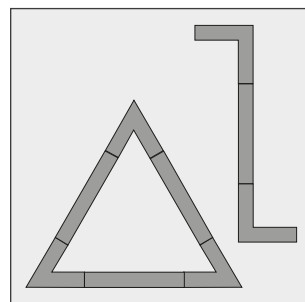
Cross-profile corner mounting

The prefabricated corner element with an aluminium ridge across all covers prevents light leakage and thus guarantees a harmonious and fully illuminated corner situation.

Design examples



On request



60° angle for triangle or 90° for Z form

LESS IS MORE® 50 - SYSTEMS

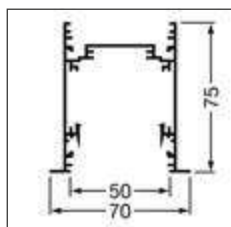
Details at a glance



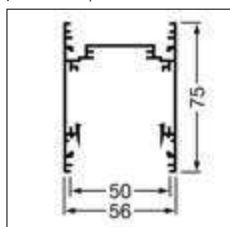
The LED system reduced to the essentials

- Continuous line of light up to 50 m
- Integral driver
- Replaceable LED unit
- Internal through-wiring
- Luminous fluxes up to 4700 lm/m
- LED rated life 50,000 h (L80, B10)
- **Alea optical system:** Ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1

recessed



pendant | surface mounted



Less is more 50 - Systems

Type of installation	
recessed	✓
surface mounted	✓
suspended	✓
Light emission	
direct	✓
direct/indirect	✓
Colour	
white	✓
white aluminium	✓
black	✓
Cover	
opal	✓
microprismatic	-
micro-grid ($UGR \leq 19$)	-
Alea optical system ($UGR \leq 19$)	✓
MRS technology ($UGR < 10$)	-
Switching modes	
on/off	✓
DALI	✓
Light colours	
830, 840	✓
930, 940	-
Driver	
extea external rn	-
internally	✓
Forms	
„LOUI“	✓
„ΔZ“	-

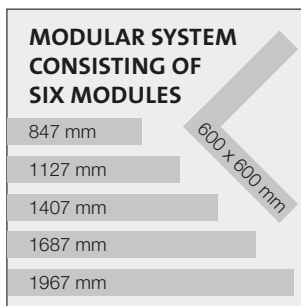
Types of installation



Pendant, surface mounted and recessed

The three types of installation, pendant, surface mounting and flush mounting, offer very much freedom of design in your planning.

Modules



With the help of part-modules available in six different lengths, all system sizes can be assembled.

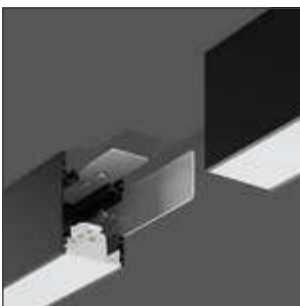
This means that you always get the length you need for your project.

End cap



The profile flush end cap gives the system a smooth and elegant finish.

Connection



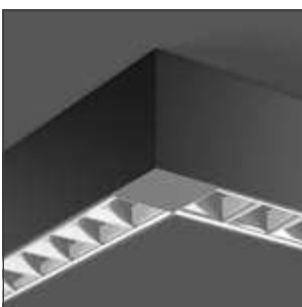
Gapless, mechanical and electrical connection

The mechanical connection between the individual profiles guarantees stability and safety. This is invisibly integrated in the profile, so that an uninterrupted light line without light leakage is created.



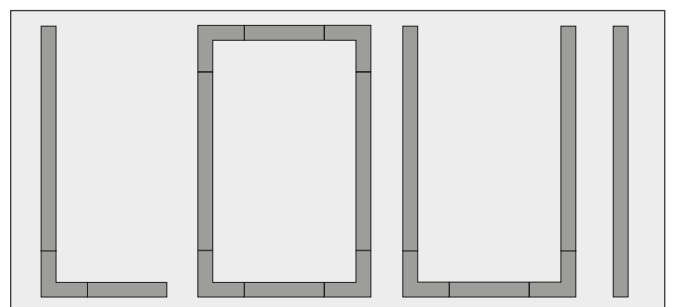
Cross-profile corner mounting

The prefabricated corner element with an aluminium ridge across all covers prevents light leakage and thus guarantees a harmonious and fully illuminated corner situation.



Cross-profile corner mounting with Alea optical system

Design examples



LESS IS MORE® BEAMLINE - SYSTEMS

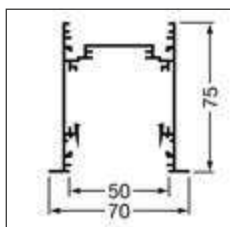
Details at a glance



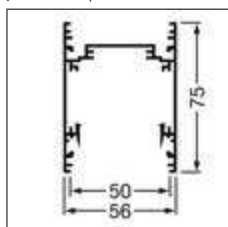
The LED system for aesthetically sophisticated lighting

- Light line up to 50 m
- MRS technology for pleasant, glare-free lighting ($UGR < 10$)
- Three different light distribution options (narrow, medium-wide and wide beam) for maximum flexibility in use
- Darklight effect
- Replaceable LED unit
- Integrierte Durchgangsverdrahtung
- Integral driver
- Luminous fluxes up to 5000 lm/m
- LED rated life 50,000 h (L80, B10)
- Colour rendering index $Ra \geq 90$

recessed



pendant | surface mounted



Less is more BeamLine - Systems

Type of installation

recessed	✓
surface mounted	✓
suspended	✓

Light emission

direct	✓
direct/indirect	✓

Colour (Profile/Optic)

white/black	✓
white aluminium/black	✓
black/black	✓
white/white	✓

Cover

opal	-
microprismatic	-
micro-grid ($UGR \leq 19$)	-
Alea optical system ($UGR \leq 19$)	-
MRS technology ($UGR < 10$)	✓

Switching modes

on/off	✓
DALI	✓

Light colours

830, 840	-
930, 940	✓

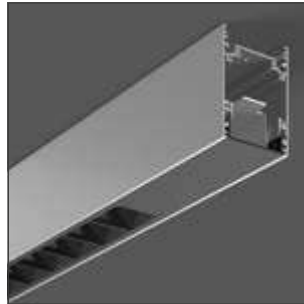
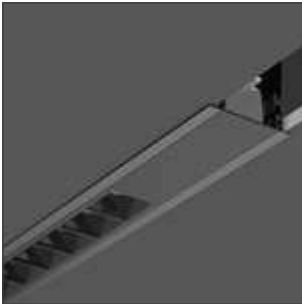
Driver

external	-
internally	✓

Forms

„LOUJ“	✓
„ΔZ“	-

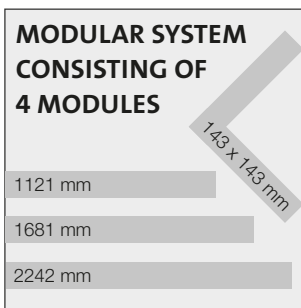
Types of installation



Pendant, surface mounted and recessed

The three types of installation, pendant, surface mounting and flush mounting, offer very much freedom of design in your planning.

Modules



With the help of part-modules available in four different lengths, all system sizes can be assembled.

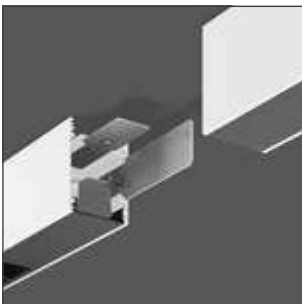
This means that you always get the length you need for your project.

End cap



The profile flush end cap gives the system a smooth and elegant finish.

Connection



Gapless, mechanical and electrical connection

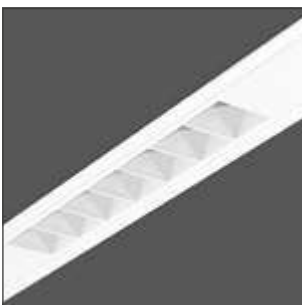
The mechanical connection between the individual profiles guarantees stability and safety. This is invisibly integrated in the profile.

Lighting technology



MRS technology

Mini-Reflector-System made of metallised thermoplastic with prismatic black glare-suppressing frame for pleasant glare-free light (UGR < 10).



MRS technology

Mini-Reflector-System with white glare-suppressing frame.



Light distribution

Three different light distribution options (narrow, medium-wide and wide beam) for maximum flexibility in use.

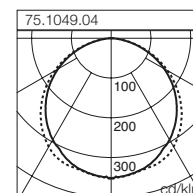


LINEAR SYSTEM

LED profile strip lights

- Can be made to order on a project specific basis
- LED rated life 40,000 h (L80/B10)
- Provides powerful accent lighting (e.g. for vaults, handrails, shelves, counters) as well as background lighting for glass ceilings and walls
- We can implement individual customised solutions on request

75.1049.04		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
6	8	11
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
8	12	19



LED profile strip lights | Linear system

Type of Protection: **IP 67** / ballasts IP20

Protection Class: III

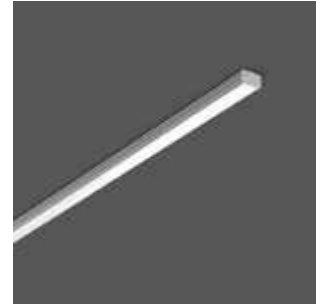
Impact Protection: IK02


Housing: extruded aluminium profile, anodised, IP 67 resin coated LED element with opaque resin coating. 1.5 m connection cable, double insulated, with open ends. Exit from behind via groove to the side, end cap without groove. End cap without groove. Fastening: M4 stainless steel nuts and two magnetic holders.

Modular design: driver for LED profiles to be ordered separately.

We can offer special project solutions according to customers' specifications. The profiles can be manufactured in different lengths, other light colours, with different controls such as DMX, DALI a.s.o. Please do not hesitate to contact us for information and individual planning advice.


Available colour: 4 = aluminium, anodised



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	Price Category 21
LED profile light strips							
Length L 603 mm							
75.1039.04	L 603, B 18, H 10	LED	830	250	4	112	
75.1040.04	L 603, B 18, H 10	LED	840	250	4	112	
75.1041.04	L 603, B 18, H 10	LED	830	500	7	112	
75.1042.04	L 603, B 18, H 10	LED	840	500	7	112	
75.1043.04	L 603, B 18, H 10	LED	830	700	10	112	
75.1044.04	L 603, B 18, H 10	LED	840	700	10	112	
Length L 1003 mm							
75.1045.04	L 1003, B 18, H 10	LED	830	450	7	112	
75.1046.04	L 1003, B 18, H 10	LED	840	450	7	112	
75.1047.04	L 1003, B 18, H 10	LED	830	850	12	112	
75.1048.04	L 1003, B 18, H 10	LED	840	850	12	112	
75.1049.04	L 1003, B 18, H 10	LED	830	1250	18	112	
75.1050.04	L 1003, B 18, H 10	LED	840	1250	18	112	

Converter 24 V, IP 20							Price Category 21
982233.002	L 188, B 30, H 21	max. 33 W, on/off					
982233.002.76	L 188, B 30, H 21	max. 33 W, TouchDim, DALI					



Reference number	Dimensions [mm]	Lamp	Light colour	System power [W]	 [°]	Price Category 21
LED profile light strips for RGBW						
75.1067.04	L 510, B 18, H 10	LED	RGBW	5	112	
75.1068.04	L 910, B 18, H 10	LED	RGBW	8	112	

System rating with colour temperature 3000 K



Converter 24 V, IP 20							Price Category 21
For RGB and RGBW control							
982097.002.76	L 220, B 47, H 44	max. 80 W, TouchDim, DALI					

Accessories | pivoting element for LED track lighting luminaires

Mounting bracket: aluminium, for Linear System and High Power, ceiling and wall mounting; swivel range: 225°; flexibly adjustable on the profile. We recommend to mount two pivoting elements per meter.

Pivoting element for LED profile							Price Category 21
75.1034.00	L 63, B 18, H 40						



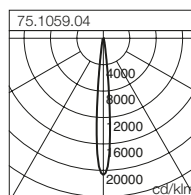


HIGH POWER

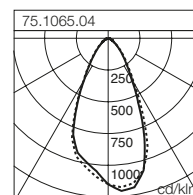
LED profile strip lights

- Can be made to order on a project specific basis
- LED rated life 40,000 h (L80/B10)
- Can be controlled via DMX or DALI
- Provides powerful accent lighting for facades, portals and objects, as well as background lighting for glass ceilings/walls and shelves
- We can implement individual customised solutions on request

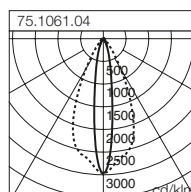
75.1059.04		
h [m]	Ø [m]	E [lx]
1,0	0,18	20554
2,0	0,36	5139
3,0	0,55	2284
4,0	0,73	1285
5,0	0,91	822



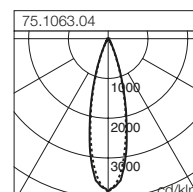
75.1065.04		
h [m]	Ø [m]	E [lx]
1,0	0,93	1057
2,0	1,86	264
3,0	2,79	117
4,0	3,71	66
5,0	4,64	42



75.1061.04		
h [m]	Ø [m]	E [lx]
1,0	0,27 / 0,87	2729
2,0	0,54 / 1,75	682
3,0	0,81 / 2,62	303
4,0	1,08 / 3,50	171
5,0	1,35 / 4,37	109



75.1063.04		
h [m]	Ø [m]	E [lx]
1,0	0,47	3839
2,0	0,95	960
3,0	1,42	427
4,0	1,89	240
5,0	2,36	154



LED profile strip lights | High Power

Type of Protection: **IP 67** / ballasts IP20

Protection Class: II

Impact Protection: IK03


Housing: extruded aluminium profile, anodised. LED element with 6 LED modules, resin coated.

End cap, fastening: M4 stainless steel nuts. Different optics, two light colours and RGBW. Ready for installation, including required driver and Schuko-plug, with 1.5 m connection cable. Connected cable between driver and LED profile: 1.5 m. Cable inlet: on the rear side.

We can offer special project solutions according to customers' specifications. The profiles can be manufactured in different lengths, other light colours, with different controls such as DMX, DALI a.s.o. Please do not hesitate to contact us for information and individual planning advice.

Available colour: 4 = aluminium, anodised



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 dimmable	
LED profile light strips							Price Category 21
Type of protection: IP 67 (profile)							
75.1059.04	L 900, B 32, H 20	LED	830	1400	15	10	on/off
75.1061.04	L 900, B 32, H 20	LED	830	1400	15	10/50	on/off
75.1063.04	L 900, B 32, H 20	LED	830	1400	15	30	on/off
75.1065.04	L 900, B 32, H 20	LED	830	1400	15	60	on/off
75.1060.04	L 900, B 32, H 20	LED	840	1400	15	10	on/off
75.1062.04	L 900, B 32, H 20	LED	840	1400	15	10/50	on/off
75.1064.04	L 900, B 32, H 20	LED	840	1400	15	30	on/off
75.1066.04	L 900, B 32, H 20	LED	840	1400	15	60	on/off
RGBW version							
75.1069.04 *	L 900, B 32, H 20	LED	RGBW		18	20/50	on/off

* System rating with light colour 3000 K

Accessories | pivoting element for LED track lighting luminaires

Mounting bracket: aluminium, for Linear System and High Power, ceiling and wall mounting; swivel range: 225°; flexibly adjustable on the profile. We recommend to mount two pivoting elements per meter.

Pivoting element for LED profile

75.1034.00	L 63, B 18, H 40						Price Category 21
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LED IT STRIP

LED strip

- Flexible, fully encapsulated LED strip
- Suitable for indoor and outdoor use
- Easy connection of the system thanks to a variety of accessories
- No need for silicone sealing
- Plug & Play connectors (solderless connections)
- Easily separable with commercially available tools
- Very low mounting height of only 3 mm
- Up to 20 metres LED strip length possible with just one mains infeed
- Colour consistency within 3-steps MacAdam (3 SDCM)



LED strip | LED it Strip


Type of Protection: **IP 65**

Impact Protection: **IK00**

Flexible fully encapsulated LED strip for indoor and outdoor use. UV/IR resistant TPU potting. Solderless connection technology by means of Plug & Play connector system. Easy separability with commercially available tools (1100 lm/m every 130 mm, 400 lm/m every 250 mm). Up to 20 meters LED strip length with only one power supply. Up to 46 LEDs per meter. LED Pitch 18 mm at 1100 lm/m, 35.7 mm at 400 lm/m. Smallest bending radius 60 mm. Operating temperature: -20°C to +50°C. One power feed and one end cap included, other accessories can be ordered separately. Supply voltage 24 V DC.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux per meter	Lamps rating per meter	 [°]	EEC
LED Strip							Price Category 12
4 W/m max. 400 lm/m max. LED strip length 20 m per supply							
982520.002	L 5000, B 12, H 3	LED	830	370 lm	4 W	110	A++
982520.002.1	L 5000, B 12, H 3	LED	840	400 lm	4 W	110	A++
982521.002	L 20000, B 12, H 3	LED	830	370 lm	4 W	110	A++
982521.002.1	L 20000, B 12, H 3	LED	840	400 lm	4 W	110	A++
12 W/m max. 1.100 lm/m max. LED strip length 5 m per supply							
982522.002	L 5000, B 12, H 3	LED	830	950 lm	12 W	107	A++
982522.002.1	L 5000, B 12, H 3	LED	840	1100 lm	12 W	107	A++

Converter 24 V, IP 20

Price Category 21

982235.002.76	L 305, B 30, H 24	max. 100 W, TouchDim, DALI
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Converter 24 V, IP 67, Plug & Play

Price Category 12

5441103017	L 120, B 43, H 32	Constant voltage converter 30 W
5442106017	L 245, B 48, H 38	Constant voltage converter 60 W
5443110017	L 245, B 48, H 38	Constant voltage converter 100 W



Accessories

Price Category 12

①	Power supply		
	6401407305	L 150	with plug 2-pole
②	End cap		
	6401406805	L 15, B 19, H 12	End cap, 10 pieces
③	Conduit		
	6200800603	L 1000, B 15, H 8	Flat duct system, White plastic, 2 units per pack
④	Duct mounting		
	6200800403	L 40, B 40, H 30	Bracket ±60° adjustable stepwise, 2 units per pack
⑤	Clip fixing (one bag contains 10 pieces; 2 bags are needed for 5 m)		
	6401409205	L 10, B 14, H 9	Clip fixing, 10 pieces
	Connectors		
⑥	6401406605	L 15, B 37, H 14	U-shaped connector
⑦	6401403905	L 170, B 30, H 15	4-way splitter
⑧	6401406705	L 28, B 22, H 21	I-connector
⑨	6401406505	L 33, B 33, H 14	L-shaped connector
⑩	Connecting cable		
	6401407005	L 150	Flexible connector with 150 mm cable
	6401407205	L 600	Flexible connector with 600 mm cable



LESS IS MORE® FLEX

Modular LED system with maximum flexibility

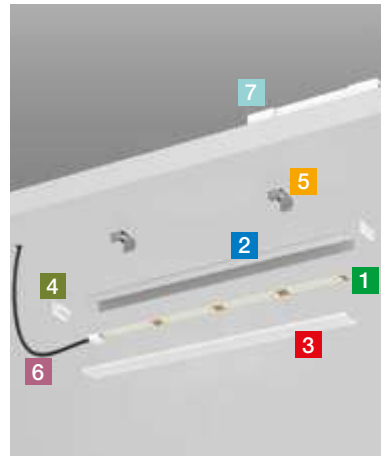
- LED system in slim design and huge diversity
- Luminous efficiency up to 132 lm/W
- Extremely slim LED strip with a width of 8 mm only
- Very easy installation thanks to plug & play connection
- LED rated life: 50,000 h (L70/B50), tunable white 60,000 h (L70/B50)
- Different aluminium profiles and plastic diffusers are available for various applications

Modular system

Planning has never been so simple!

The colour-coded components in the Less is more® Flex system guide you to a complete luminaire system in just a few steps. You will need a maximum of seven components for your lighting solution:

- ☒ LED strip
- ☒ Aluminium profile
- ☒ Plastic diffuser
- ☒ End caps
- ☒ Mounting accessories
- ☒ Feeds and connectors
- ☒ Converters and light control



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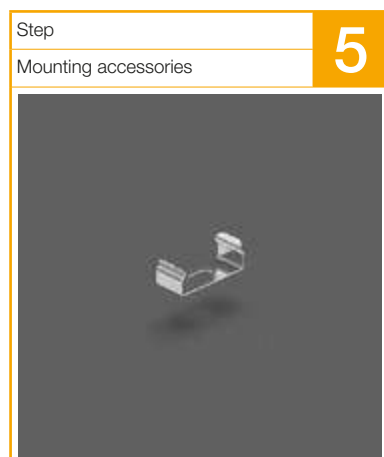
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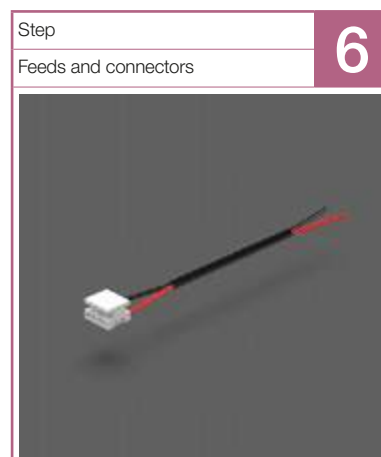
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1

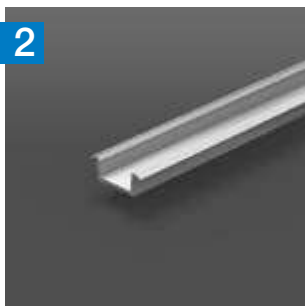
**Less is more® Flex | LED strip**

Type of Protection: IP 20
Impact Protection: IK00

Flexible, energy-saving LED strip. Luminous flux from 360 to 1950 lm/m. Separable every 100 mm (TW 75 mm, RGB 150 mm). Light colour 830, 840 and TW: Pre-wired with 500 mm feeder. RGB: Feeders must be ordered separately. Mounting using thermal double-sided tape. Voltage 24 V.

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm/m]	Lamps rating [W/m]	EEC
LED Strip						Price Category 21
2,8 W/m max. 370 lm/m max. LED strip length 5 m per supply						
982740.000	L 5000, B 8, H 2	LED	830	360	2,8	A++
982740.000.1	L 5000, B 8, H 2	LED	840	370	2,8	A++
9,5 W/m max. 1210 lm/m max. LED strip length 5 m per supply						
982741.000	L 5000, B 8, H 2	LED	830	1200	9,5	A+
982741.000.1	L 5000, B 8, H 2	LED	840	1210	9,5	A+
15,5 W/m max. 1950 lm/m max. LED strip length 5 m per supply						
982742.000	L 5000, B 8, H 2	LED	830	1940	15,5	A+
982742.000.1	L 5000, B 8, H 2	LED	840	1950	15,5	A+
Tunable White (TW) 18,5 W/m 2000 lm/m max. LED strip length 4,5 m per supply						
982542.000	L 4500, B 8, H 1	LED	827-865	2000	18,5	A+
RGB 6,5 W/m 209 lm/m max. LED strip length 6 m per supply						
982543.000	L 6000, B 8, H 2	LED	RGB	209	6,5	

2

**Less is more® Flex | Aluminium profiles**

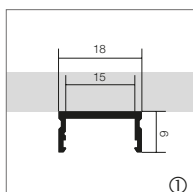
Extruded anodised aluminium profile.

Available colour: 4 = aluminium, anodised

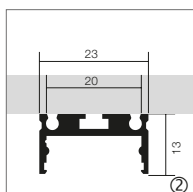
Reference number	Dimensions [mm]	
Aluminium profiles		
① Surface profile 18		
925374.004	L 3000, B 18, H 9	For lamp output of up to 12 W/m
② Surface profile 23		
925377.004	L 3000, B 23, H 13	For lamp output of up to 29 W/m
③ Corner profile 18		
925375.004	L 3000, B 25, H 15	For lamp output of up to 14 W/m
④ Recessed profile 18		
925373.004	L 3000, B 24, H 2, BA 18, HE 8	For lamp output of up to 12 W/m
⑤ Pendant profile 18		
925376.004	L 3000, B 18, H 25	For lamp output of up to 20 W/m

Please take into account that aluminium profiles are likely to expand by 0.5 mm per metre at most within a temperature deviation of 20°C.

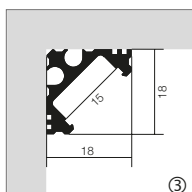
Surface profile 18
up to 12 W/m



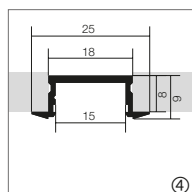
Surface profile 23
up to 29 W/m



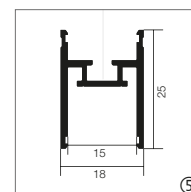
Corner profile 18
up to 14 W/m



Recessed profile 18
up to 12 W/m



Pendant profile 18
up to 20 W/m



Less is more® Flex | Plastic diffusers

Diffuser made of non-yellowing plastic (PMMA).

Reference number Dimensions [mm]

Diffuser: plastic (PMMA)

Price Category 21

For profile 18

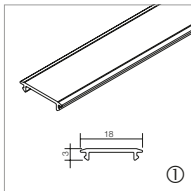
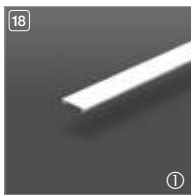
①	925378.002	L 3000, B 17, H 3	plain opal
②	925378.000	L 3000, B 17, H 3	plan transparent
③	925379.002	L 3000, B 18, H 10	U opal

For profile 23

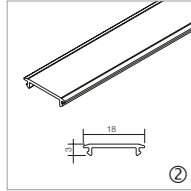
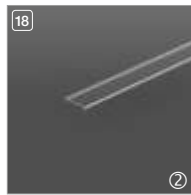
④	925380.002	L 3000, B 24, H 5	concave opal
⑤	925380.000	L 3000, B 24, H 5	concave transparent
⑥	925381.002	L 3000, B 23, H 13	U opal

Please take into account that plastic diffusers are likely to expand by 1.4 mm per metre at most within a temperature deviation of 20°C.

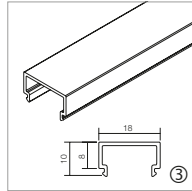
plain opal diffuser
for profiles 18



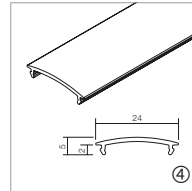
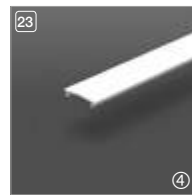
plan transparent dif.
for profiles 18



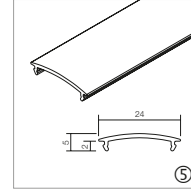
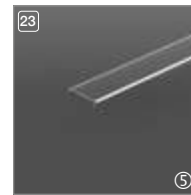
U opal diffuser
for profiles 18



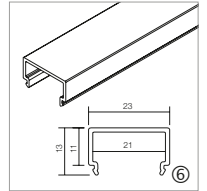
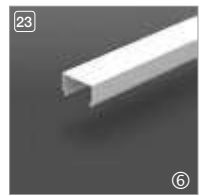
concave opal diffuser
for profile 23



concave transparent
for profile 23



U opal diffuser
for profile 23



Less is more® Flex | End caps

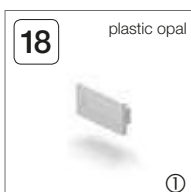
Package 1 piece.

Reference number Dimensions [mm]

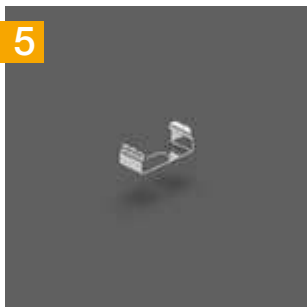
End caps

Price Category 21

①	982196.002	L 18, B 10, H 4	Surface profile 18
②	982197.000	L 18, B 16, H 4	Surface profile 18 with U-diffuser
③	982200.000	L 23, B 15, H 2	Surface profile 23
④	982201.000	L 23, B 24, H 7	Surface profile 23 with U-diffuser
⑤	982198.000	L 24, B 10, H 8	Recessed profile 18
⑥	982204.000	L 24, B 16, H 4	Corner profile 18
⑦	982199.000	L 26, B 18, H 6	Pendant profile 18



5

**Less is more® Flex | Installation accessories**

Package 1 piece.

Reference number	Dimensions [mm]
------------------	-----------------

Installation accessories

Price Category 21

Spring clip

- | | | |
|-----------------|-----------------|---|
| ① 982207.000 .Q | L 20, B 10, H 9 | Recessed, surface and corner profile 18 |
| ② 982208.000 | L 24, B 10, H 7 | Surface profile 23 |

Mounting connector 0-25°

- | | | |
|--------------|------------------|--------------------|
| ③ 982205.000 | L 10, B 16, H 14 | Surface profile 23 |
|--------------|------------------|--------------------|

Adjustable connector 0-90°

- | | | |
|--------------|------------|--------------------|
| ④ 982206.000 | D 30, H 32 | Surface profile 23 |
|--------------|------------|--------------------|

Suspension kit

- | | | |
|--------------|---------------|--------------------|
| ⑤ 982210.000 | D 11, LP 2000 | Pendant profile 18 |
|--------------|---------------|--------------------|

Mechanical connector

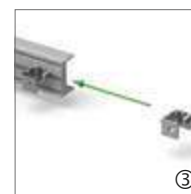
- | | | |
|--------------|----------------|---|
| ⑥ 982203.000 | L 50, B 6, H 4 | Pendant profile 18, recessed profile 65 |
|--------------|----------------|---|



①-⑥

A distance of 1.5 m between two mounting elements is recommended

Corner angle
installation for
profile 23



6

**Less is more® Flex | Electrical connector**

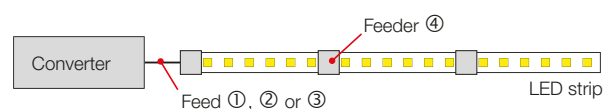
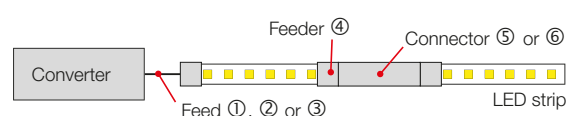
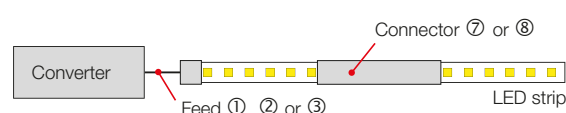
Package 1 piece.

Reference number	Dimensions [mm]
------------------	-----------------

Feeds and connectors

Price Category 21

- | | | |
|--------------|------------------|--|
| ① 982545.002 | L 500, B 9, H 6 | Feed 2-pole feeder for a single colour (male plug, open end) |
| ② 982546.002 | L 500, B 9, H 6 | Feed 3-pole feeder for TW (male plug, open end) |
| ③ 982547.002 | L 500, B 9, H 6 | Feed 4-pole feeder for RGB (male plug, open end) |
| ④ 982550.002 | L 10, B 9, H 6 | 4-pole feeder for a single light colour, TW and jumper |
| ⑤ 982548.002 | L 150, B 8, H 1 | Connector, 4-pin, for one light colour and TW |
| ⑥ 982549.002 | L 300, B 8, H 1 | Connector, 4-pin, for one light colour and TW |
| ⑦ 982668.003 | L 36, B 14, H 6 | Connector for RGB |
| ⑧ 982669.003 | L 178, B 14, H 6 | Connector for RGB |

Example with gapless connector**Example with connector (rigid), 2/4-pole for single light colour and TW****Example with connector (rigid), 2/4-pole for RGB**

Less is more® Flex | Converters

Type of Protection: IP 20

Protection Class: II

Constant voltage converters.

The converters must be installed externally.

Reference number Dimensions [mm]

Converter 24 V, IP 20

Price Category 21

①	982232.002	L 153, B 30, H 21	max. 21 W, on/off
②	982232.002.76	L 153, B 30, H 21	max. 21 W, TouchDim, DALI
③	982233.002	L 188, B 30, H 21	max. 33 W, on/off
④	982233.002.76	L 188, B 30, H 21	max. 33 W, TouchDim, DALI
⑤	982234.002	L 240, B 30, H 21	max. 60 W, on/off
⑥	982234.002.76	L 240, B 30, H 21	max. 60 W, TouchDim, DALI
⑦	982235.002	L 305, B 30, H 24	max. 100 W, on/off
⑧	982235.002.76	L 305, B 30, H 24	max. 100 W, TouchDim, DALI

For RGB and RGBW control

⑨	982097.002.76	L 220, B 47, H 44	max. 80 W, TouchDim, DALI
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For Tunable White control

⑩	982382.002	L 346, B 32, H 22	max. 50 W, TouchDim, DALI (Device Type 8)
⑪	982383.002	L 346, B 32, H 22	max. 80 W, TouchDim, DALI (Device Type 8)
⑫	982694.002	L 300, B 50, H 35	max. 160 W, TouchDim, DALI (Device Type 8)



Light management | 4-channel PWM dimmer

Type of Protection: IP 20

Bluetooth®-controllable, Casambi-enabled 4-channel PWM dimmer for LED loads with constant voltage, e.g. LED strips and LED modules with constant voltage. A 12-24 VDC power supply is required for the supply. The module can control up to four channels and is therefore suitable for RGBW and TW (Tunable White) applications. The maximum combined output current is 6 A and can be freely divided between 1 to 4 channels. Control possible using Android / iOS device. Free app available for download. Thanks to its small size it is ideal for luminaire installation.

Housing: plastic.

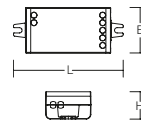
Available colour: 2 = white

Reference number Dimensions [mm]

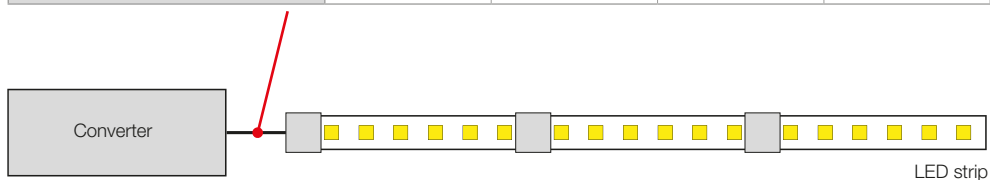
Casambi smart+free 4-channel PWM dimmer

Price Category 21

982677.002	L 73, B 30, H 18
------------	------------------



Cable cross-section	Converter 24 V			
	21 W	33 W	60 W	100 W
0,50 mm²	13 m	10 m	6 m	3,5 m
0,75 mm²	20 m	15 m	9 m	5 m
1,00 mm²	26 m	20 m	12 m	7 m
1,50 mm²	40 m	30 m	17 m	10 m





The application image shows:
Cyllo
Flat Polymero Kreis

© Daniel Vieser . Architekturfotografie, Karlsruhe, www.dv-a.de



Glasdownlight
178-179

Cyllo
180-181

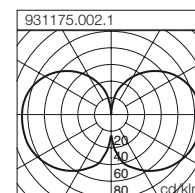


GLASDOWNLIGHT

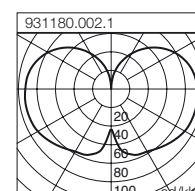
Ceiling luminaires

- A sleekly designed surface mount ceiling luminaire for interiors
- Mouth blown 3-layer opal glass (Triplex glass) with satin finish
- Triplex glass produces particularly homogeneous, soft and glare free lighting
- LED rated life 50,000 h (L80/B10)

931175.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
8	12	16
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
11	17	28



931180.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	6	8
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	8	13



Further luminaires of this series, see:
Indoor lighting | Pendant luminaires

Ceiling luminaires | Glasdownlight

Type of Protection: IP 20

Protection Class: I

Impact Protection: IK02

Base: aluminium, powder-coated. Opal glass: mouth-blown, satin finish.

Glass fastening: retaining screws.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling luminaires						
Glass D 120 mm						
931175.002	D 120, H 300	LED	830	1200	9,5	on/off
931175.002.1	D 120, H 300	LED	840	1250	9,5	on/off
931176.002	D 120, H 470	LED	830	2400	19	on/off
931176.002.1	D 120, H 470	LED	840	2500	19	on/off
Glass D 150 mm						
931178.002	D 150, H 300	LED	830	2500	21	on/off
931178.002.76	D 150, H 300	LED	830	2900	24	DALI
931178.002.1	D 150, H 300	LED	840	2600	21	on/off
931178.002.1.76	D 150, H 300	LED	840	3000	24	DALI
931180.002	D 150, H 470	LED	830	2600	20	on/off
931180.002.76	D 150, H 470	LED	830	3350	26	DALI
931180.002.1	D 150, H 470	LED	840	2750	20	on/off
931180.002.1.76	D 150, H 470	LED	840	3550	26	DALI

Price Category 11

Comparison LED vs. conventional lamps

LED 9,5 W ≈

1 x 32 W TC-TEL (36 W Psys)

LED 19 / 20 / 21 W ≈

1 x 57 W TC-TEL (59 W Psys)

LED 24 / 26 W ≈

2 x 42 W TC-TEL (90 W Psys)

Replacement glasses

05-931174.012	D 120, H 250
05-931176.012	D 120, H 420
05-931177.012	D 150, H 250
05-931179.012	D 150, H 420

Price Category 13



CYLIO®

Ceiling luminaires

- Comprehensive range featuring a number of glass designs, consisting of:
Surface mounted ceiling luminaires,
Pendant luminaires
- A sleekly designed surface mounted and pendant luminaire for interiors
- Made of top-notch components:
 - Base and canopy made of anodised aluminium with brushed stainless steel finish
 - Handmade glass elements
- Each glass fixture is one of a kind



Further luminaires of this series, see:
Indoor lighting | Pendant luminaires

Ceiling luminaires | Cylio

Type of Protection: IP 20


Protection Class: I

Base: anodised aluminium with brushed stainless steel finish.

Glass fastening: bayonet fixing.

Available colour: stainless steel, brushed



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	dimmable
Ceiling luminaires							Price Category 21
Short white opal glass							
311963.002 *	D 100, H 127	LED ⁽¹⁾	830	450	10	162	on/off
311963.002.1 *	D 100, H 127	LED ⁽¹⁾	840	470	10	162	on/off
Opal glass white							
311721.002 *	D 100, H 230	LED ⁽¹⁾	830	560	10	180	on/off
311721.002.1 *	D 100, H 230	LED ⁽¹⁾	840	580	10	180	on/off
311862.002	D 100, H 230	1 x QA60 (klar) max. 46 W					
Opal glass sphere							
311965.002 *	D 180, H 252	LED ⁽¹⁾	830	690	10	180	on/off
311965.002.1 *	D 180, H 252	LED ⁽¹⁾	840	720	10	180	on/off

* Suitable for phase cut dimming (10-100%)

Comparison LED vs. conventional lamps

LED 10 W ≈
1 x 50 W QT12 (60 W Psys)

Replacement glasses			Price Category 13
05-1953.002	D 100, H 57	Short white opal glass	
05-1952.002	D 100, H 160	White opal glass	
05-1954.002	D 180, H 182	Opal glass sphere	



Short white opal glass



Opal glass white



Opal glass sphere

Ceiling luminaires | Cylio

Type of Protection: IP 20


Protection Class: I

Base: anodised aluminium with brushed stainless steel finish.

Glass fastening: bayonet fixing.

Available colour: stainless steel, brushed



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	dimmable
Ceiling luminaires							
Short white opal glass							
311969.002 *	D 150, H 155	LED ⁽¹⁾	830	810	16	156	on/off
311969.002.1 *	D 150, H 155	LED ⁽¹⁾	840	830	16	156	on/off
Opal glass white							
311701.002 *	D 150, H 262	LED ⁽¹⁾	830	1050	16	180	on/off
311701.002.1 *	D 150, H 262	LED ⁽¹⁾	840	1100	16	180	on/off
311866.002	D 150, H 262	1 x QA60 (klar) max. 46 W					

* Suitable for phase cut dimming (10-100%)

Comparison LED vs. conventional lamps

LED 16 W ≈
1 x 50 W QT12 (60 W Psys)
1 x 75 W QT12 (105 W Psys)

Replacement glasses			Price Category 13
05-1955.002	D 150, H 67	Short white opal glass	
05-1940.002	D 150, H 172	Opal glass white	



Short white opal glass



Opal glass white



The application image shows:
Ring of Fire
Less is more



184

Ring of Fire
184-185



186

Coros Kristall
186



187



187

Colonna IP 44
187



Comparison LED vs. conventional lamps

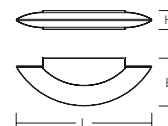
LED 11 W ≈
2 x 13 W TC-DEL (29 W Psys)

LED 22 W ≈
2 x 26 W TC-DEL (56 W Psys)

Wall luminaires | Ring of Fire

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK02

Base: lacquered die-cast aluminium. Mouth-blown opal glass, satin finish, with transparent glass end caps. Luminaire body fixing with countersunk bolts.
Available colour: 4 = aluminium, anodised



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Wall luminaires						
Length L 423 mm						
311672.004	L 423, B 144, H 60	LED	830	850	11	on/off
311672.004.1	L 423, B 144, H 60	LED	840	890	11	on/off
Length L 595 mm						
311673.004	L 595, B 210, H 83	LED	830	1950	22	on/off
311673.004.76	L 595, B 210, H 83	LED	830	1950	22	DALI
311673.004.1	L 595, B 210, H 83	LED	840	2050	22	on/off
311673.004.1.76	L 595, B 210, H 83	LED	840	2050	22	DALI

Light colour 827 on request.

Replacement glasses		Price Category 13				
05-1941.022	L 423, B 119, H 48					
05-1936.022	L 595, B 175, H 75					



Kundenterminal
und
Kontoauszüge

Kontoauszüge

The application image shows:
Ring of Fire



Wall luminaires | Coros Kristall

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK02

Base: anodised aluminium with brushed stainless steel finish.
Cubic crystal glass: transparent, frosted inside. Diffuser fastening: spring system.
Available colour: 0 = stainless steel, brushed



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 21
621081.000	L 200, B 82, H 115	LED ⁽¹⁾	840	540	15	on/off	

Comparison LED vs. conventional lamps

LED 15 W ≈
1 x 10 W TC-D (16 W Psys)
1 x 60 W A60 (60 W Psys)

Replacement glasses	Price Category 13
05-2022.000 L 200, B 65, H 95	



Wall luminaires | Colonna IP 44

Type of Protection: **IP 44**

Protection Class: I, II = E14/E27

Impact Protection: IK02

Base: plastic. Opal glass: mouth-blown, satin finish. Diffuser fastening: spring system.

Available colour: 2 = white






















Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able		
Wall luminaires							Price Category 11	
Length L 245 mm								
211423.002	L 245, B 145, H 110	LED	830	900	9	on/off		
211423.002.1	L 245, B 145, H 110	LED	840	900	9	on/off		
211324.002	L 245, B 145, H 110	1 x E27® max. 60 W						
Length L 340 mm								
211424.002	L 340, B 110, H 102	LED	830	900	9	on/off		
211424.002.1	L 340, B 110, H 102	LED	840	900	9	on/off		
211289.002	L 340, B 110, H 102	2 x E14® max. 40 W						
Replacement glasses							Price Category 13	
05-211324.002	L 245, B 145, H 96							
05-211289.002	L 340, B 110, H 88							

Comparison LED vs. conventional lamps

LED 9 W ≈
1 x 18 W TC-DEL (20 W P_{sys})



















The application image shows:
Flat Slim
Deecos





			Douala 192-193
			Flat Slim 194-201
			Flat Slim+ 202-207
			Scapha 208-209
			Flat Polymero Kreis Slim 210-217
			Flat Polymero Kreis 210-213, 218-223
			Flat Polymero 210-211, 224-231
			Flat Polymero IP44 210-211, 232-235
			Flat Basic 236-239

Overview - Decorative ceiling and wall luminaires

This table provides an overview of the variety of decorative ceiling and wall luminaire series from RZB: made of fine glass or robust plastic, in different sizes and with different fittings, there is a suitable luminaire in the range for almost every application.

		Douala		Flat Slim+		Flat Basic						Flat Slim			
															
Diffuser		opal glass matt		crystal glass matt/high-polish		opal glass matt						opal glass matt / PMMA / PC			
Shockproof diffuser (polycarbonate)												✓			
Base		stainless steel		pressure die-cast aluminium		plastic						pressure die-cast aluminium			
Type of protection		IP 40		IP 65 / IP 40		IP 44 / IP 43						IP 65			
Diameter [mm]		300	400	300x300	430x430	250	300	370	420	500	630	230	300	400	480
Movement sensor		✓		✓		✓						✓			
Corridor Function		✓		✓		✓						✓			
Master-Slave system		✓		✓		✓						✓			
Bluetooth® Mesh				✓											
Casambi smart+free*				✓								✓			
App control				✓								✓			
TouchDIM		✓	✓	✓	✓	✓						✓	✓	✓	✓
Phase-cut		✓	✓			✓						✓	✓	✓	
MultiLumen				✓											
MultiColour				✓											
Available as emergency luminaire				✓											
More information on page		192-193		202-207		236-239						194-201			

* Module, for retrofitting DALI luminaires, also available separately in the chapter on lighting management.

Flat Polymero Kreis Slim					Flat Polymero Kreis					Flat Polymero						Flat Polymero IP44		
																		
PMMA / PC					PMMA / PC					PMMA / PC						PMMA / PC		
✓					✓					✓						✓		
metal					metal					metal						plastic		
IP 40					IP 40					IP 40						IP 44 / IP 43		
300	360	460	515		300	360	460	515	1040	300	360	460	515	620	1040	305	420	580
✓	✓				✓	✓	✓	✓		✓	✓	✓	✓			✓	✓	
✓	✓				✓	✓				✓	✓					✓	✓	
✓	✓				✓	✓				✓	✓					✓	✓	
✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓
✓	✓	✓			✓	✓	✓	✓		✓	✓	✓				✓	✓	
✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓	✓				
210-217					210-213 218-223					210-211 224-231						210-211 232-235		

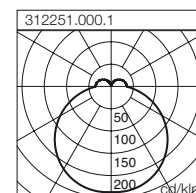


DOUALA®

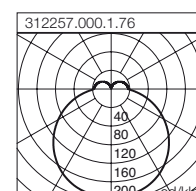
Ceiling and wall luminaires

- Comprehensive range consisting of: Pendant luminaires, Ceiling and wall luminaires
- The stainless steel base and the glass create an impression of unity
- The cover made of mouth-blown, satin-finished three-layer opal glass is available in two different sizes
- Colour consistency within 3-steps MacAdam (3 SDCM)
- LED rated life 50,000 h (L70/B10)

312251.000.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	6	8
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
6	9	14



312257.000.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	6
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	6	10



Further luminaires of this series, see:
Indoor lighting | Pendant luminaires

Ceiling and wall luminaires | Douala

Type of Protection: **IP 40**

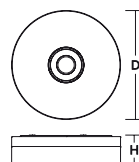
Protection Class: I

Impact Protection: IK02

Base: brushed stainless steel. Mouth-blown, 3-layer opal glass, satin finish.

Patented spring fastening system.

Available colour: 0 = stainless steel, brushed



Functional parameters of a master luminaire with a ceiling height of approx. 2.8 m:

- HF detector 24 GHz with integrated corridor function
- Detection range approx. 130° radial
- Easy adjustment of functions via 3 associated push button switches
- Sensitivity/Range 0.5-5 m radial, adjustable from 10-100%
- Time control 1 second to 15 minutes in 8 different levels
- Daylight detection with 5 brightness levels and learning mode
- Up to 9 slave luminaires can be operated with one master luminaire (max. up to 150 W / 230 W)
- Suitable for outdoor use to a limited extent only, as it is sensitive to all movements

AC movement sensor luminaires with 24 GHz technology (Master / Slave) are not compatible with other movement sensor luminaires.



Applies to versions with .76



Applies to versions with .19


Comparison LED vs. conventional lamps

LED 21 / 27 W ≈

2 x 26 W TC-D (68 W Psys)

LED 31 / 32 W ≈

3 x 26 W TC-D (102 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]		dim-able
Ceiling and wall luminaires							
Glass D 300 mm							
312251.000 *	D 300, H 95	LED ⁽¹⁾	830	1750	21		on/off
312251.000.76 **	D 300, H 95	LED ⁽¹⁾	830	1750	21		DALI
312251.000.1 *	D 300, H 95	LED ⁽¹⁾	840	1850	21		on/off
312251.000.1.76 **	D 300, H 95	LED ⁽¹⁾	840	1850	21		DALI
Glass D 400 mm							
312257.000 *	D 400, H 102	LED ⁽¹⁾	830	2300	27		on/off
312257.000.76 **	D 400, H 102	LED ⁽¹⁾	830	2700	32		DALI
312257.000.1 *	D 400, H 102	LED ⁽¹⁾	840	2400	27		on/off
312257.000.1.76 **	D 400, H 102	LED ⁽¹⁾	840	2800	31		DALI
Ceiling and wall luminaires with integrated movement sensor							
Glass D 300 mm							
312251.000.19	D 300, H 95	LED ⁽¹⁾	830	1750	21	Master	on/off
312251.000.191	D 300, H 95	LED ⁽¹⁾	830	1750	21	Slave	on/off
312251.000.1.19	D 300, H 95	LED ⁽¹⁾	840	1850	21	Master	on/off
312251.000.1.191	D 300, H 95	LED ⁽¹⁾	840	1850	21	Slave	on/off

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Replacement glasses							
05-1934.012	D 300, H 76						
05-2018.032	D 400, H 87						

FLAT SLIM

Everything at a glance



Mouth-blown opal glass or diffusers made of non-yellowing PMMA plastic or shockproof PC

The intelligent fastening concept allows to open and close the luminaire at any time without any tools

The LED unit is attached to the luminaire housing using a snap-in mechanism so that it can be replaced at any time without any tools

Very flat housing made of die cast aluminium

The large connection compartment on the back for convenient connections is also ideal for through wiring

The movement sensor with daylight sensor integrated on the board regulates the lighting according to individual settings. Thanks to Corridor function, light is switched on only when it is really needed.



Corridor Function

Easy adjustment of the following functions via three push button switches:

- 🕒 **A** Detection range 0.5 - 5m radial (10 to 100% adjustable)
- 🕒 **H** Hold time 1s up to 15 min (in 8 different levels)
- ✳️ **L** Daylight detection with 5 brightness levels and learning mode



TouchDim

TouchDim offers the simple option of cost-effective and efficient light control without any additional control device. TouchDim means the device can be operated via standard push button, whilst control is taken over by the DALI board.



Corridor function

The Corridor function allows the luminaires to be configured so that they maintain a residual brightness of 10% if no movement is detected. This is recommended for applications without any ambient light, especially in corridors or stairwells without any daylight.

You can choose the following operation scenarios:

Option 0 (factory setting):

100% (hold time) -> 10% (10s) residual brightness -> 0%

Option 1:

100% (hold time) -> 10% residual brightness (permanently until further movement detection)

Option 2:

100% (hold time) -> 10% (Xs*) residual brightness -> 0%

*Xs = 1s, 10s, 30s, 60s, 3min, 5min, 10min, 15min



The touch protection (cover) forms a single unit with the LED board. This ensures the required safety during installation and at the same time protects the LED board against dirt and damage

IP65

Due to the high IP rate of 65, the luminaire is protected against water and dust from the outside



The electrical connection of LED boards to the mains supply is very quick thanks to the Quick-Connector



D 230 mm
H 63 mm



D 300 mm
H 63 mm



D 400 mm
H 70 mm



D 480 mm
H 70 mm



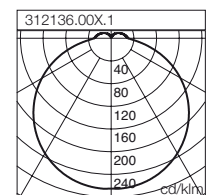


FLAT SLIM

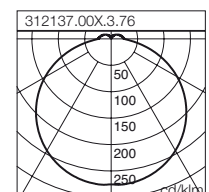
Ceiling and wall luminaires

- Comprehensive range consisting of: Pendant luminaires, Ceiling and wall luminaires
- Base made of die-cast aluminium
- Mouth-blown three layer (triplex) opal glass satin finish or plastic diffuser (PMMA/PC) opal satin finish
- Diffuser mounting without use of tools, thanks to bayonet fixing
- Particularly homogeneous, soft and glare-free light thanks to the use of AC boards
- High ingress protection rating: IP 65
- Standard Gore™ Protective Vents diaphragm valve to avoid condensation
- Very easy installation thanks to plug & play connection
- LED module can be replaced without use of tools
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download
- Colour consistency within 3-steps MacAdam (3 SDCM)
- LED rated life 50,000 h (L70/B10)
- DALI and master boards suitable for DC voltage from 176-276 V; luminaire flux in DC mode 25%

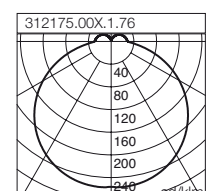
312136.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	6	8
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
6	8	14



312137.00X.3.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	7



312175.00X.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	6	9



Further luminaires of this series, see:
Indoor lighting | Pendant luminaires





Applies to versions with .76

Comparison

LED vs. conventional lamps

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 21 W ≈

2 x 18 W TC-D (52 W Psys)

LED 27 W ≈

2 x 26 W TC-D (68 W Psys)

LED 31 / 32 / 33 W ≈

3 x 26 W TC-D (102 W Psys)

LED 38 / 40 W ≈

4 x 26 W TC-D (136 W Psys)

Ceiling and wall luminaires | Flat Slim

Type of Protection: IP 65

Protection Class: I

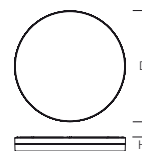
Impact Protection: IK03

Base: pressure die-cast aluminium, powder-coated. Opal glass: mouth-blown, satin finish.

Diffuser fastening: bayonet system. LED module can be connected without use of tools.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Ceiling and wall luminaires						
Glass						
D 230 mm						
312132.00X *	D 230, H 63	LED ⁽¹⁾	830	1000	13	on/off
312132.00X.76 **	D 230, H 63	LED ⁽¹⁾	830	1000	13	DALI
312132.00X.1 *	D 230, H 63	LED ⁽¹⁾	840	1000	13	on/off
312132.00X.1.76 **	D 230, H 63	LED ⁽¹⁾	840	1000	13	DALI
D 300 mm						
312133.00X *	D 300, H 63	LED ⁽¹⁾	830	1500	21	on/off
312133.00X.76 **	D 300, H 63	LED ⁽¹⁾	830	1500	21	DALI
312133.00X.730	D 300, H 63	LED ⁽¹⁾	830	1500	21	smart+free
312133.00X.1 *	D 300, H 63	LED ⁽¹⁾	840	1600	21	on/off
312133.00X.1.76 **	D 300, H 63	LED ⁽¹⁾	840	1600	21	DALI
312133.00X.1.730	D 300, H 63	LED ⁽¹⁾	840	1600	21	smart+free
D 400 mm						
312174.00X *	D 400, H 70	LED ⁽¹⁾	830	2200	27	on/off
312174.00X.76 **	D 400, H 70	LED ⁽¹⁾	830	2550	32	DALI
312174.00X.730	D 400, H 70	LED ⁽¹⁾	830	2200	27	smart+free
312174.00X.1 *	D 400, H 70	LED ⁽¹⁾	840	2300	27	on/off
312174.00X.1.76 **	D 400, H 70	LED ⁽¹⁾	840	2700	31	DALI
312174.00X.1.730	D 400, H 70	LED ⁽¹⁾	840	2300	27	smart+free
D 480 mm						
312134.00X	D 480, H 70	LED ⁽¹⁾	830	2600	33	on/off
312134.00X.76 **	D 480, H 70	LED ⁽¹⁾	830	3100	40	DALI
312134.00X.1	D 480, H 70	LED ⁽¹⁾	840	2700	33	on/off
312134.00X.1.76 **	D 480, H 70	LED ⁽¹⁾	840	3200	38	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Replacement glasses		Price Category 13
05-312132.002	D 230, H 51	
05-312133.002	D 300, H 51	
05-312174.022	D 400, H 58	
05-312134.002	D 480, H 59	

Replacement LED module for Flat Slim		Price Category 11
E90-6706.000	1 x LED 13 W 3000 K	
E90-6706.010	1 x LED 13 W 4000 K	
E90-6843.020	1 x LED 13 W 3000 K, DALI	
E90-6843.020.1	1 x LED 13 W 4000 K, DALI	
E90-6707.000	1 x LED 21 W 3000 K	
E90-6707.010	1 x LED 21 W 4000 K	
E90-6844.020	1 x LED 21 W 3000 K, DALI	
E90-6844.020.1	1 x LED 21 W 4000 K, DALI	
E90-6823.000	1 x LED 27 W 3000 K	
E90-6823.000.76	1 x LED 32 W 3000 K, DALI	
E90-6823.010	1 x LED 27 W 4000 K	
E90-6823.010.76	1 x LED 31 W 4000 K, DALI	
E90-6708.000	1 x LED 33 W 3000 K	
E90-6708.000.76	1 x LED 40 W 3000 K, DALI	
E90-6708.010	1 x LED 33 W 4000 K	
E90-6708.010.76	1 x LED 38 W 4000 K, DALI	

Ceiling and wall luminaires | Flat Slim with movement sensor

Type of Protection: **IP 65**

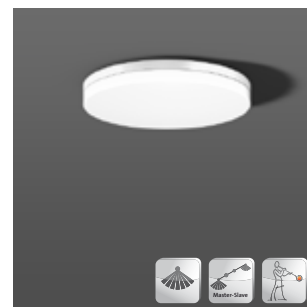
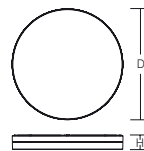
Protection Class: I

Impact Protection: IK03

Base: pressure die-cast aluminium, powder-coated. Opal glass: mouth-blown, satin finish.

Diffuser fastening: bayonet system. LED module can be connected without use of tools.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Applies to versions with .19

Functional parameters of a master luminaire with a ceiling height of approx. 2.8 m:

- HF detector 24 GHz with integrated corridor function
- Detection range approx. 130° radial
- Easy adjustment of functions via 3 associated push button switches
- Sensitivity/Range 0.5-5 m radial, adjustable from 10-100%
- Time control 1 second to 15 minutes in 8 different levels
- Daylight detection with 5 brightness levels and learning mode
- Up to 9 slave luminaires can be operated with one master luminaire (max. up to 150 W / 230 W)
- Suitable for outdoor use to a limited extent only, as it is sensitive to all movements

AC movement sensor luminaires with 24 GHz technology (Master / Slave) are not compatible with other movement sensor luminaires.

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]		dimmable
Ceiling and wall luminaires with integrated movement sensor							
Glass							
D 230 mm							
312132.00X.19	D 230, H 63	LED ⁽¹⁾	830	1000	13	Master	on/off
312132.00X.191	D 230, H 63	LED ⁽¹⁾	830	1000	13	Slave	on/off
312132.00X.1.19	D 230, H 63	LED ⁽¹⁾	840	1000	13	Master	on/off
312132.00X.1.191	D 230, H 63	LED ⁽¹⁾	840	1000	13	Slave	on/off
D 300 mm							
312133.00X.19	D 300, H 63	LED ⁽¹⁾	830	1500	21	Master	on/off
312133.00X.191	D 300, H 63	LED ⁽¹⁾	830	1500	21	Slave	on/off
312133.00X.1.19	D 300, H 63	LED ⁽¹⁾	840	1600	21	Master	on/off
312133.00X.1.191	D 300, H 63	LED ⁽¹⁾	840	1600	21	Slave	on/off

Replacement glasses

05-312132.002	D 230, H 51
05-312133.002	D 300, H 51

Replacement LED module for Flat Slim with movement sensor

E90-6843.000	1 x LED 13 W 3000 K, Slave
E90-6843.000.1	1 x LED 13 W 4000 K, Slave
E90-6843.010	1 x LED 13 W 3000 K, Master
E90-6843.010.1	1 x LED 13 W 4000 K, Master
E90-6844.000	1 x LED 21 W 3000 K, Slave
E90-6844.000.1	1 x LED 21 W 4000 K, Slave
E90-6844.010	1 x LED 21 W 3000 K, Master
E90-6844.010.1	1 x LED 21 W 4000 K, Master

Comparison

LED vs. conventional lamps

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 21 W ≈

2 x 18 W TC-D (52 W Psys)



Applies to
versions
with .76

Comparison

LED vs. conventional lamps

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 21 W ≈

2 x 18 W TC-D (52 W Psys)

LED 27 W ≈

2 x 26 W TC-D (68 W Psys)

LED 31 / 32 / 33 W ≈

3 x 26 W TC-D (102 W Psys)

LED 38 / 40 W ≈

4 x 26 W TC-D (136 W Psys)

Ceiling and wall luminaires | Flat Slim

Type of Protection: **IP 65**

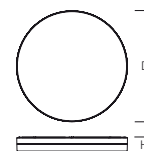
Protection Class: I

Impact Protection: IK02 (PMMA), IK08 (Polycarbonate)

Base: pressure die-cast aluminium, powder-coated. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof. Diffuser fastening: bayonet system. LED module can be connected without use of tools.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						
Diffuser: plastic (PMMA)						
D 230 mm						
312135.00X *	D 230, H 63	LED ⁽¹⁾	830	1150	13	on/off
312135.00X.76 **	D 230, H 63	LED ⁽¹⁾	830	1150	13	DALI
312135.00X.1 *	D 230, H 63	LED ⁽¹⁾	840	1100	13	on/off
312135.00X.1.76 **	D 230, H 63	LED ⁽¹⁾	840	1100	13	DALI
D 300 mm						
312136.00X *	D 300, H 63	LED ⁽¹⁾	830	1800	21	on/off
312136.00X.76 **	D 300, H 63	LED ⁽¹⁾	830	1800	21	DALI
312136.00X.730	D 300, H 63	LED ⁽¹⁾	830	1800	21	smart+free
312136.00X.1 *	D 300, H 63	LED ⁽¹⁾	840	1900	21	on/off
312136.00X.1.76 **	D 300, H 63	LED ⁽¹⁾	840	1900	21	DALI
312136.00X.1.730	D 300, H 63	LED ⁽¹⁾	840	1900	21	smart+free
D 400 mm						
312175.00X *	D 400, H 70	LED ⁽¹⁾	830	2350	27	on/off
312175.00X.76 **	D 400, H 70	LED ⁽¹⁾	830	2750	32	DALI
312175.00X.730	D 400, H 70	LED ⁽¹⁾	830	2350	27	smart+free
312175.00X.1 *	D 400, H 70	LED ⁽¹⁾	840	2500	27	on/off
312175.00X.1.76 **	D 400, H 70	LED ⁽¹⁾	840	2900	31	DALI
312175.00X.1.730	D 400, H 70	LED ⁽¹⁾	840	2500	27	smart+free
D 480 mm						
312137.00X	D 480, H 70	LED ⁽¹⁾	830	3000	33	on/off
312137.00X.76 **	D 480, H 70	LED ⁽¹⁾	830	3550	40	DALI
312137.00X.1	D 480, H 70	LED ⁽¹⁾	840	3100	33	on/off
312137.00X.1.76 **	D 480, H 70	LED ⁽¹⁾	840	3700	38	DALI
Diffuser: plastic (polycarbonate)						
D 230 mm						
312135.00X.2 *	D 230, H 63	LED ⁽¹⁾	830	1300	13	on/off
312135.00X.2.76 **	D 230, H 63	LED ⁽¹⁾	830	1300	13	DALI
312135.00X.3 *	D 230, H 63	LED ⁽¹⁾	840	1300	13	on/off
312135.00X.3.76 **	D 230, H 63	LED ⁽¹⁾	840	1300	13	DALI
D 300 mm						
312136.00X.2 *	D 300, H 63	LED ⁽¹⁾	830	1900	21	on/off
312136.00X.2.76 **	D 300, H 63	LED ⁽¹⁾	830	1900	21	DALI
312136.00X.2.730	D 300, H 63	LED ⁽¹⁾	830	1900	21	smart+free
312136.00X.3 *	D 300, H 63	LED ⁽¹⁾	840	2000	21	on/off
312136.00X.3.76 **	D 300, H 63	LED ⁽¹⁾	840	2000	21	DALI
312136.00X.3.730	D 300, H 63	LED ⁽¹⁾	840	2000	21	smart+free
D 400 mm						
312175.00X.2 *	D 400, H 70	LED ⁽¹⁾	830	2650	27	on/off
312175.00X.2.76 **	D 400, H 70	LED ⁽¹⁾	830	3100	32	DALI
312175.00X.2.730	D 400, H 70	LED ⁽¹⁾	830	2650	27	smart+free
312175.00X.3 *	D 400, H 70	LED ⁽¹⁾	840	2800	27	on/off
312175.00X.3.76 **	D 400, H 70	LED ⁽¹⁾	840	3250	31	DALI
312175.00X.3.730	D 400, H 70	LED ⁽¹⁾	840	2800	27	smart+free
D 480 mm						
312137.00X.2	D 480, H 70	LED ⁽¹⁾	830	3300	33	on/off
312137.00X.2.76 **	D 480, H 70	LED ⁽¹⁾	830	3950	40	DALI
312137.00X.3	D 480, H 70	LED ⁽¹⁾	840	3400	33	on/off
312137.00X.3.76 **	D 480, H 70	LED ⁽¹⁾	840	4050	38	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Replacement diffusers			Price Category 13			
08-2118.002	D 230, H 55	Plastic (PMMA)				
08-2118.022	D 230, H 55	Plastic (polycarbonate)				
08-2119.002	D 300, H 55	Plastic (PMMA)				
08-2119.022	D 300, H 55	Plastic (polycarbonate)				
08-312175.002	D 400, H 62	Plastic (PMMA)				
08-312175.022	D 400, H 62	Plastic (polycarbonate)				
08-2120.002	D 480, H 62	Plastic (PMMA)				
08-2120.022	D 480, H 62	Plastic (polycarbonate)				

Ceiling and wall luminaires | Flat Slim with movement sensor

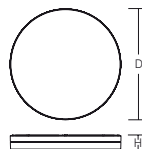
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK02 (PMMA), IK08 (Polycarbonate)

Base: pressure die-cast aluminium, powder-coated. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof. Diffuser fastening: bayonet system. LED module can be connected without use of tools.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Applies to versions with .19

Functional parameters of a master luminaire with a ceiling height of approx. 2.8 m:

- HF detector 24 GHz with integrated corridor function
- Detection range approx. 130° radial
- Easy adjustment of functions via 3 associated push button switches
- Sensitivity/Range 0.5-5 m radial, adjustable from 10-100%
- Time control 1 second to 15 minutes in 8 different levels
- Daylight detection with 5 brightness levels and learning mode
- Up to 9 slave luminaires can be operated with one master luminaire (max. up to 150 W / 230 W)
- Suitable for outdoor use to a limited extent only, as it is sensitive to all movements

AC movement sensor luminaires with 24 GHz technology (Master / Slave) are not compatible with other movement sensor luminaires.

Comparison


LED vs. conventional lamps

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 21 W ≈

2 x 18 W TC-D (52 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]		dimmable
Ceiling and wall luminaires with integrated movement sensor							
Diffuser: plastic (PMMA)							
D 230 mm							
312135.00X.19	D 230, H 63	LED ⁽¹⁾	830	1150	13	Master	on/off
312135.00X.191	D 230, H 63	LED ⁽¹⁾	830	1150	13	Slave	on/off
312135.00X.1.19	D 230, H 63	LED ⁽¹⁾	840	1100	13	Master	on/off
312135.00X.1.191	D 230, H 63	LED ⁽¹⁾	840	1100	13	Slave	on/off
D 300 mm							
312136.00X.19	D 300, H 63	LED ⁽¹⁾	830	1800	21	Master	on/off
312136.00X.191	D 300, H 63	LED ⁽¹⁾	830	1800	21	Slave	on/off
312136.00X.1.19	D 300, H 63	LED ⁽¹⁾	840	1900	21	Master	on/off
312136.00X.1.191	D 300, H 63	LED ⁽¹⁾	840	1900	21	Slave	on/off
Diffuser: plastic (polycarbonate)							
D 230 mm							
312135.00X.2.19	D 230, H 63	LED ⁽¹⁾	830	1300	13	Master	on/off
312135.00X.2.191	D 230, H 63	LED ⁽¹⁾	830	1300	13	Slave	on/off
312135.00X.3.19	D 230, H 63	LED ⁽¹⁾	840	1300	13	Master	on/off
312135.00X.3.191	D 230, H 63	LED ⁽¹⁾	840	1300	13	Slave	on/off
D 300 mm							
312136.00X.2.19	D 300, H 63	LED ⁽¹⁾	830	1900	21	Master	on/off
312136.00X.2.191	D 300, H 63	LED ⁽¹⁾	830	1900	21	Slave	on/off
312136.00X.3.19	D 300, H 63	LED ⁽¹⁾	840	2000	21	Master	on/off
312136.00X.3.191	D 300, H 63	LED ⁽¹⁾	840	2000	21	Slave	on/off



Replacement LED module for Flat Slim with movement sensor

Price Category 11

E90-6843.000	1 x LED 13 W 3000 K, Slave
E90-6843.000.1	1 x LED 13 W 4000 K, Slave
E90-6843.010	1 x LED 13 W 3000 K, Master
E90-6843.010.1	1 x LED 13 W 4000 K, Master
E90-6844.000	1 x LED 21 W 3000 K, Slave
E90-6844.000.1	1 x LED 21 W 4000 K, Slave
E90-6844.010	1 x LED 21 W 3000 K, Master
E90-6844.010.1	1 x LED 21 W 4000 K, Master

Replacement LED module for Flat Slim

Price Category 11

E90-6706.000	1 x LED 13 W 3000 K
E90-6706.010	1 x LED 13 W 4000 K
E90-6843.020	1 x LED 13 W 3000 K, DALI
E90-6843.020.1	1 x LED 13 W 4000 K, DALI
E90-6707.000	1 x LED 21 W 3000 K
E90-6707.010	1 x LED 21 W 4000 K
E90-6844.020	1 x LED 21 W 3000 K, DALI
E90-6844.020.1	1 x LED 21 W 4000 K, DALI
E90-6823.000	1 x LED 27 W 3000 K
E90-6823.000.76	1 x LED 32 W 3000 K, DALI
E90-6823.010	1 x LED 27 W 4000 K
E90-6823.010.76	1 x LED 31 W 4000 K, DALI
E90-6708.000	1 x LED 33 W 3000 K
E90-6708.000.76	1 x LED 40 W 3000 K, DALI
E90-6708.010	1 x LED 33 W 4000 K
E90-6708.010.76	1 x LED 38 W 4000 K, DALI

FLAT SLIM+

Everything at a glance

Membrane valve for pressure equalisation to avoid condensation

Housing: pressure die-cast aluminium, powder coated



TouchDim means the device can be operated via standard push button, whilst control is taken over by the DALI board.



MultiLumen version:

2 steps adjustable luminous flux

Thanks to the switch in the luminaire the lumen output can easily be changed even after installation.



HF motion detector with **Bluetooth® interfaces** and DALI broadcast interfaces for switching, dimming and networking from individual luminaires up to complex light installations

Mesh sensors create a wireless connection between each other. This allows for flexible configuration via smartphone or tablet.

Fixing points outside the gasketed space guarantee a steady mounting quality

Fixing the diffuser with clip system

IP65

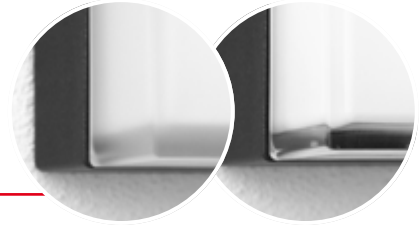
Due to the high IP rate of 65, the luminaire is protected against water and dust from the outside.



Very easy plug-in installation

Diffuser: **matt or high-polish crystal glass**, painted inside, with fixing device

Diffuser with frame made of pressure die-cast aluminium, powder coated, bonded



The large connection compartment on the back for convenient connections is also ideal for through wiring



Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download

The LED unit is attached to the luminaire housing using a snap-in mechanism so that it can be replaced at any time without any tools



MultiColour version:

Colour temperature adjustable via jumper



Connector for emergency light function (optional)

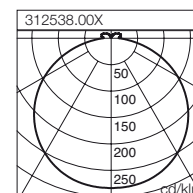


FLAT SLIM+

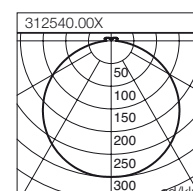
Ceiling and wall luminaires

- **MultiLumen:** 2 steps adjustable luminous flux
- **MultiColour:** Colour temperature adjustable via jumper
- HF motion detector with DALI and Bluetooth® interfaces for switching, dimming and networking from individual luminaires up to complex light installations.
- Big terminal block; ideal for through-wiring
- Diffuser mounting without use of tools, with clip system
- Very easy installation thanks to plug & play connection
- LED module can be replaced without use of tools
- Standard Gore™ Protective Vents diaphragm valve to avoid condensation
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download
- Connector for emergency light function (optional)

312538.00X		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	5	7
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	7	12



312540.00X		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	7



Further luminaires of this series, see:
Indoor lighting | Pendant luminaires



The application image shows:
Flat Slim+



Comparison LED vs. conventional lamps

LED 14 W ≈

2 x 18 W TC-D (52 W Psys)

LED 22 W ≈

2 x 26 W TC-D (68 W Psys)

LED 28 W ≈

3 x 26 W TC-D (102 W Psys)

LED 41 W ≈

4 x 26 W TC-D (136 W Psys)

Ceiling and wall luminaires | Flat Slim+

Type of Protection: **IP 65** wall mounting, **IP 40** ceiling mounting

Protection Class: I

Impact Protection: IK07

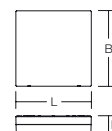
Base: pressure die-cast aluminium, powder-coated. Diffuser: matt or high-polish crystal glass, painted inside, with fixing device. Diffuser with frame made of pressure die-cast aluminium, powder coated, bonded. Diffuser attached with clip system. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to avoid condensed water. LED module can be connected without use of tools. The large connection compartment on the back for convenient connections is also ideal for through wiring.

MultiLumen version: 2 steps adjustable luminous flux.

MultiColour function: Colour temperature adjustable in 2 steps.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic

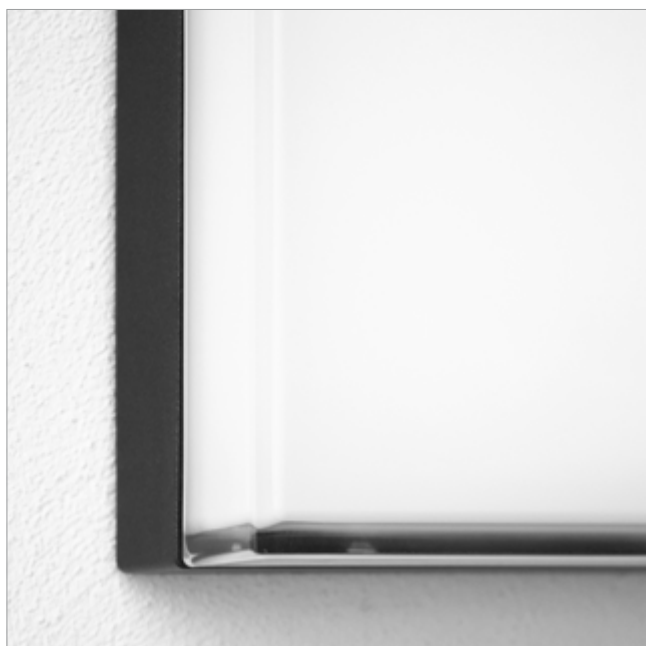
Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



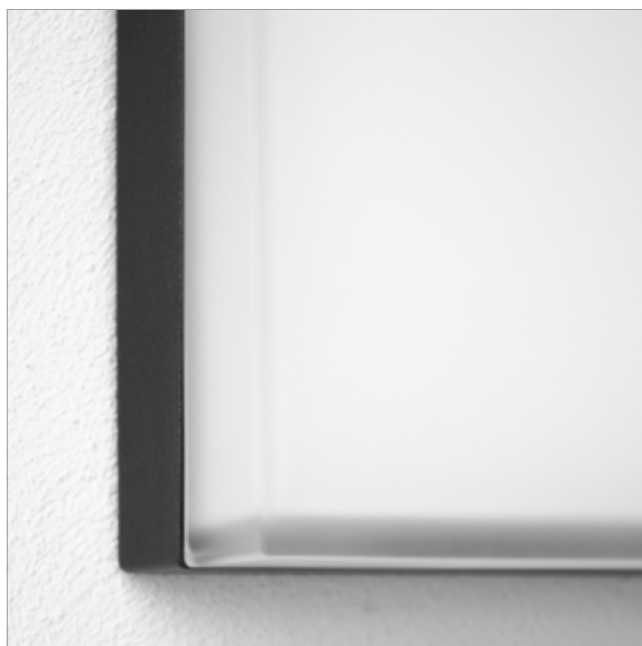
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Ceiling and wall luminaires						
Diffuser: high-polish crystal glass						
L 300 x B 300 mm						
312538.00X	L 300, B 300, H 67	LED	830, 840	1200...2100	14...22	on/off
312538.00X.76	L 300, B 300, H 67	LED	830, 840	1200...2100	14...22	DALI
312538.00X.730	L 300, B 300, H 67	LED	830, 840	1200...2100	14...22	smart+free
L 430 x B 430 mm						
312540.00X	L 430, B 430, H 67	LED	830, 840	2600...3800	28...41	on/off
312540.00X.76	L 430, B 430, H 67	LED	830, 840	2600...3800	28...41	DALI
312540.00X.730	L 430, B 430, H 67	LED	830, 840	2600...3800	28...41	smart+free
Diffuser: matt crystal glass						
L 300 x B 300 mm						
312537.00X	L 300, B 300, H 67	LED	830, 840	1200...2100	14...22	on/off
312537.00X.76	L 300, B 300, H 67	LED	830, 840	1200...2100	14...22	DALI
312537.00X.730	L 300, B 300, H 67	LED	830, 840	1200...2100	14...22	smart+free
L 430 x B 430 mm						
312539.00X	L 430, B 430, H 67	LED	830, 840	2050...3250	28...41	on/off
312539.00X.76	L 430, B 430, H 67	LED	830, 840	2050...3250	28...41	DALI
312539.00X.730	L 430, B 430, H 67	LED	830, 840	2050...3250	28...41	smart+free

MultiLumen/MultiColour version: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Replacement glasses			Price Category 13
982675.00X	L 300, B 300, H 67	High-polish crystal glass	
982675.01X	L 300, B 300, H 67	Matt crystal glass	
982676.00X	L 430, B 430, H 67	High-polish crystal glass	
982676.01X	L 430, B 430, H 67	Matt crystal glass	



Diffuser: high-polish crystal glass



Diffuser: matt crystal glass

Ceiling and wall luminaires | Flat Slim+ with movement sensor

Type of Protection: **IP 65** wall mounting, **IP 40** ceiling mounting
Protection Class: I
Impact Protection: IK07

Base: pressure die-cast aluminium, powder-coated. Diffuser: matt or high-polish crystal glass, painted inside, with fixing device. Diffuser with frame made of pressure die-cast aluminium, powder coated, bonded. Diffuser attached with clip system. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to avoid condensed water. LED module can be connected without use of tools. The large connection compartment on the back for convenient connections is also ideal for through wiring.

MultiLumen version: 2 steps adjustable luminous flux.

MultiColour function: Colour temperature adjustable in 2 steps.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Functional parameters of the movement sensor installed on a ceiling at a height of max. 4 m or on a wall at a height of approx. 2.7 m:

- HF detector 5.8 GHz
- Holding time 5 sec. - 60 min.; adjustable in 13 steps
- Detection angle 120°
- Range up to 5 m
- Speed detection: 0.3-3 m/s (1-10 km/h)
- Sensitivity 0–100% in 10 steps
- Daylight sensor 1-350 lx
- Factory setting: sensitivity 70%, hold time 30 seconds, daylight threshold value ∞, dim level 30%, program mode on/off, soft dim off
- Functions adjustable via MICAS Autolight app on tablet or smartphone
- Master-master via Bluetooth® mesh and master-slave wired

Comparison LED vs. conventional lamps	
LED 14 W ≈	2 x 18 W TC-D (52 W Psys)
LED 22 W ≈	2 x 26 W TC-D (68 W Psys)
LED 28 W ≈	3 x 26 W TC-D (102 W Psys)
LED 41 W ≈	4 x 26 W TC-D (136 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]		dim-able
Ceiling and wall luminaires with integrated HF movement sensor							
Diffuser: high-polish crystal glass							
L 300 x B 300 mm							
312538.00X.19	L 300, B 300, H 67	LED	830, 840	1200...2100	14...22	Yes	on/off
L 430 x B 430 mm							
312540.00X.19	L 430, B 430, H 67	LED	830, 840	2600...3800	28...41	Yes	on/off
Diffuser: matt crystal glass							
L 300 x B 300 mm							
312537.00X.19	L 300, B 300, H 67	LED	830, 840	1200...2100	14...22	Yes	on/off
L 430 x B 430 mm							
312539.00X.19	L 430, B 430, H 67	LED	830, 840	2050...3250	28...41	Yes	on/off

MultiLumen/MultiColour version: Specification of the lowest and highest possible lumen output.
You will find more detailed information on www.rzb-lighting.com.



MICAS Autolight App - download now!

Replacement glasses			Price Category 13
982675.00X	L 300, B 300, H 67	High-polish crystal glass	
982675.01X	L 300, B 300, H 67	Matt crystal glass	
982676.00X	L 430, B 430, H 67	High-polish crystal glass	
982676.01X	L 430, B 430, H 67	Matt crystal glass	

Adjustable luminous flux MultiLumen

312537.00X... 312538.00X...			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	1200	1300	14
2	1900	2100	22

312539.00X...			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	2050	2250	28
2	2950	3250	41

312540.00X...			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	2600	2800	28
2	3500	3800	41



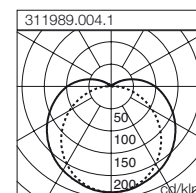
SCAPHA®

Ceiling and wall luminaires

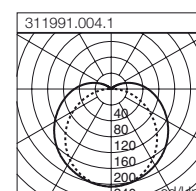
- Handmade glass using the countersinking process, matt on the outside, painted white on the inside
- Uniform and glare-free illumination of the small boat shaped corpus by specially adapted LED panel boards
- The luminaire is timelessly elegant and fully integrates in architectural surroundings
- The luminaire is available in two different sizes

- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download
- Colour consistency within 3-steps MacAdam (3 SDCM)
- LED rated life 50,000 h (L80/B10)

311989.004.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	5	7
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	7	11



311991.004.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	5	8



Further luminaires of this series, see:
Indoor lighting | Pendant luminaires

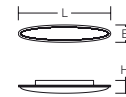
Ceiling and wall luminaires | Scapha

Type of Protection: IP 20
Protection Class: I

Base: aluminium, powder-coated. Ceiling/wall canopy and glass fixture steel powder-coated.
Handmade concave glass, matt finish on the outside, painted white on the inside.

Available colour: 4 = silver metallic

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						
Length L 714 mm						
311989.004	L 714, B 134, H 100	LED	830	2350	35	on/off
311989.004.1	L 714, B 134, H 100	LED	840	2500	35	on/off
Length L 1264 mm						
311991.004	L 1264, B 174, H 104	LED	830	3400	51	on/off
311991.004.76	L 1264, B 174, H 104	LED	830	3400	51	DALI
311991.004.730	L 1264, B 174, H 104	LED	830	3400	51	smart+free
311991.004.1	L 1264, B 174, H 104	LED	840	3550	51	on/off
311991.004.1.76	L 1264, B 174, H 104	LED	840	3550	51	DALI
311991.004.1.730	L 1264, B 174, H 104	LED	840	3550	51	smart+free

Replacement glasses						
05-1956.002	L 696, B 116, H 56					
05-1957.002	L 1246, B 156, H 60					



Applies to versions with .76

Comparison LED vs. conventional lamps

LED 35 W ≈

1 x 58 W T26 (67 W Psys)

LED 51 W ≈

2 x 36 W T26 (86 W Psys)

FLAT POLYMERO® KREIS SLIM | FLAT POLYMERO® KREIS | FLAT POLYMERO® | FLAT POLYMERO® IP 44

Everything at a glance



The movement sensor with daylight sensor integrated on the board regulates the lighting according to individual settings. Thanks to the Corridor function, light is switched on only when it is really needed.

The touch protection (cover) forms a single unit with the LED board. This ensures the required safety during installation and at the same time protects the LED board against dirt and damage.



Corridor Function

The Corridor function allows the luminaires to be configured so that they maintain a residual brightness of 10% if no movement is detected. This is recommended for applications without any ambient light, especially in corridors or stairwells without any daylight.

You can choose from the following operation scenarios:

Option 0 (factory setting):

100% (hold time) -> 10% (10s) residual brightness -> 0%

Option 1:

100% (hold time) -> 10% residual brightness
(permanently until further movement detection)

Option 2:

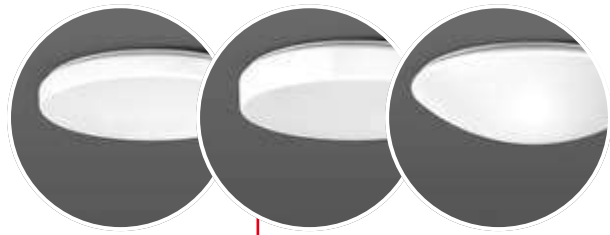
100% (hold time) -> 10% (Xs*) residual brightness -> 0%

*Xs = 1s, 10s, 30s, 60s, 3min, 5min, 10min, 15min

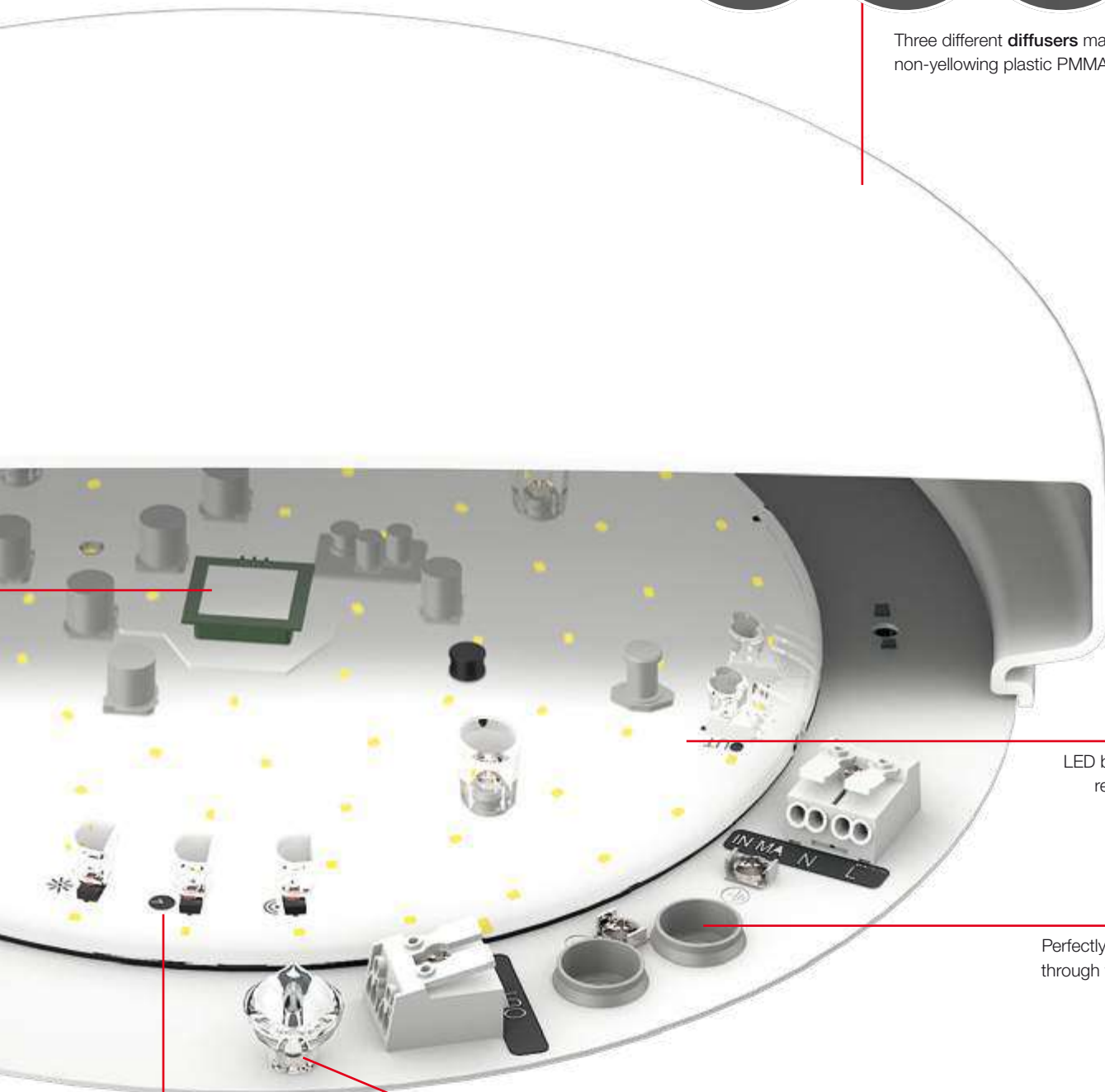


TouchDim

TouchDim offers the simple option of cost-effective and efficient light control without any additional control device. TouchDim means the device can be operated via standard push button, whilst control is taken over by the DALI board.



Three different **diffusers** made of non-yellowing plastic PMMA or PC



LED board can be easily replaced at any time

Perfectly fit for through wiring

Easy adjustment of the following functions via three push button switches:

- 🌀 **A** Detection range 0.5 - 5 m radial (10 to 100% adjustable)
- 🕒 **H** Hold time 1 s up to 15 min (in 8 different levels)
- ☀️ **L** Daylight detection with 5 brightness levels and learning mode

Thanks to the patented fastening technology the fitting can be opened and closed without any tools at any time

FLAT POLYMERO® KREIS

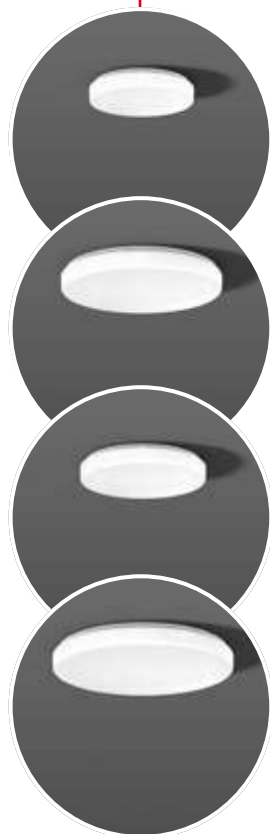
Everything at a glance



Diffusers made of non-yellowing PMMA plastic or shockproof PC

Flat Polymero® Kreis Slim

Type of Protection: IP 40



D 300 mm
H 65 mm



D 360 mm
H 65 mm



D 460 mm
H 70 mm

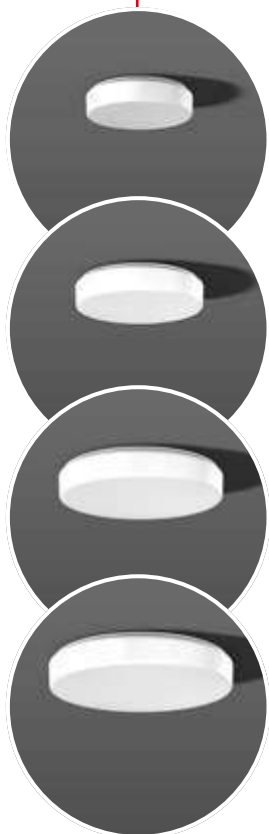


D 515 mm
H 70 mm



Flat Polymero® Kreis

Type of Protection: IP 40



D 300 mm
H 80 mm



D 360 mm
H 87 mm



D 460 mm
H 93 mm



D 515 mm
H 98 mm





Flat Polymero® Kreis XXL

Type of Protection: IP 40



D 1040 mm
H 150 mm

PMMA diffuser

RZB offers more than standard PMMA

PMMA also known as Plexiglas®:

- Robust and scratch-resistant - substitute for glass
- Transparency and shade similar to opal glass
- UV resistant (colour-true; no yellowing)
- Completely weathering resistant
- For 0-90 °C operating temperatures
- 92 percent light transmission (for 1 mm-thick Plexiglas®)
- Can be cleaned with tap water, soft soap or a pH neutral cleaning agent
- Can be disposed of without residual waste



PC diffuser

RZB offers more than standard polycarbonate high quality UV stabilized plastic - PC:

- Hard, stiff, shockproof, extremely high impact strength
- Transparency and shade similar to opal glass
- UV stabilized
- Largely weathering resistant
- Can be used at ambient temperatures ranging from -40° to +135°C
- 88 percent light transmission (for 1 mm-thick material)
- Can be cleaned with tap water



FLAT POLYMERO® KREIS SLIM

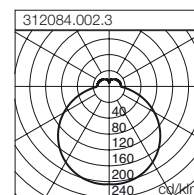
Ceiling and wall luminaires

- Comprehensive range consisting of: Pendant luminaires, Ceiling and wall luminaires
- Uniform lighting achieved by the use of LED panel boards
- Depending on the version, high-quality polycarbonate or PMMA are available as diffusers
- PMMA diffuser:
 - sturdy, scratch resistant (substitute for glass)
 - UV-resistant (non-fade - no yellowing)
 - totally weatherproof
- PC diffuser:
 - hard, stiff, shatterproof, extremely shockproof
 - UV-stabilised
- With patented fastening technology
- Luminaire can be opened without tools
- LED exchangeable
- LED rated life 50,000 h (L70/B10)

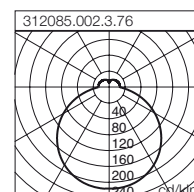


Further luminaires of this series, see:
Indoor lighting | Pendant luminaires

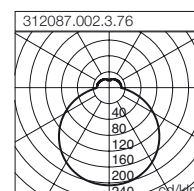
312084.002.3		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
6	9	12
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
9	13	22



312085.002.3.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	6	8
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	8	13



312087.002.3.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	5	7



Ceiling and wall luminaires | Flat Polymero Kreis Slim

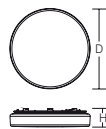
Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK03 (PMMA), IK10 (polycarbonate)

Base: metal, powder-coated. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof. Diffuser fastening: patented push system.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmm-able	
Ceiling and wall luminaires							
Diffuser: plastic (PMMA)							
Diameter D 300 mm							
312084.002.1 *	D 300, H 65	LED ⁽¹⁾	830	1200	13	on/off	✓
312084.002.1.76 **	D 300, H 65	LED ⁽¹⁾	830	1200	13	DALI	
312084.002.3 *	D 300, H 65	LED ⁽¹⁾	840	1200	13	on/off	✓
312084.002.3.76 **	D 300, H 65	LED ⁽¹⁾	840	1200	13	DALI	
Diameter D 360 mm							
312085.002.1 *	D 360, H 65	LED ⁽¹⁾	830	1900	21	on/off	✓
312085.002.1.76 **	D 360, H 65	LED ⁽¹⁾	830	1900	21	DALI	
312085.002.3 *	D 360, H 65	LED ⁽¹⁾	840	2000	21	on/off	✓
312085.002.3.76 **	D 360, H 65	LED ⁽¹⁾	840	2000	21	DALI	
Diameter D 460 mm							
312240.002.1 *	D 460, H 70	LED ⁽¹⁾	830	2600	27	on/off	✓
312240.002.1.76 **	D 460, H 70	LED ⁽¹⁾	830	3050	32	DALI	
312240.002.3 *	D 460, H 70	LED ⁽¹⁾	840	2750	27	on/off	✓
312240.002.3.76 **	D 460, H 70	LED ⁽¹⁾	840	3200	31	DALI	
Diameter D 515 mm							
312087.002.1	D 515, H 70	LED ⁽¹⁾	830	3100	33	on/off	✓
312087.002.1.76 **	D 515, H 70	LED ⁽¹⁾	830	3700	40	DALI	
312087.002.3	D 515, H 70	LED ⁽¹⁾	840	3200	33	on/off	✓
312087.002.3.76 **	D 515, H 70	LED ⁽¹⁾	840	3700	38	DALI	
Diffuser: plastic (polycarbonate)							
Diameter D 300 mm							
312084.002.2 *	D 300, H 65	LED ⁽¹⁾	830	1300	13	on/off	
312084.002.2.76 **	D 300, H 65	LED ⁽¹⁾	830	1300	13	DALI	
312084.002.4 *	D 300, H 65	LED ⁽¹⁾	840	1300	13	on/off	
312084.002.4.76 **	D 300, H 65	LED ⁽¹⁾	840	1300	13	DALI	
Diameter D 360 mm							
312085.002.2 *	D 360, H 65	LED ⁽¹⁾	830	2000	21	on/off	
312085.002.2.76 **	D 360, H 65	LED ⁽¹⁾	830	2000	21	DALI	
312085.002.4 *	D 360, H 65	LED ⁽¹⁾	840	2050	21	on/off	
312085.002.4.76 **	D 360, H 65	LED ⁽¹⁾	840	2050	21	DALI	
Diameter D 460 mm							
312240.002.2 *	D 460, H 70	LED ⁽¹⁾	830	2850	27	on/off	
312240.002.2.76 **	D 460, H 70	LED ⁽¹⁾	830	3350	32	DALI	
312240.002.4 *	D 460, H 70	LED ⁽¹⁾	840	3000	27	on/off	
312240.002.4.76 **	D 460, H 70	LED ⁽¹⁾	840	3500	31	DALI	
Diameter D 515 mm							
312087.002.2	D 515, H 70	LED ⁽¹⁾	830	3400	33	on/off	
312087.002.2.76 **	D 515, H 70	LED ⁽¹⁾	830	3400	40	DALI	
312087.002.4	D 515, H 70	LED ⁽¹⁾	840	3500	33	on/off	
312087.002.4.76 **	D 515, H 70	LED ⁽¹⁾	840	4150	38	DALI	

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Replacement diffusers			Price Category 13				
08-312084.002	D 300, H 60	Plastic (PMMA)					
08-312084.022	D 300, H 60	Plastic (polycarbonate)					
08-312085.002	D 360, H 61	Plastic (PMMA)					
08-312085.022	D 360, H 61	Plastic (polycarbonate)					
08-312086.002	D 460, H 68	Plastic (PMMA)					
08-312086.022	D 460, H 67	Plastic (polycarbonate)					
08-312087.002	D 515, H 69	Plastic (PMMA)					
08-312087.022	D 515, H 69	Plastic (polycarbonate)					



Applies to versions with .76

Comparison LED vs. conventional lamps

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 21 W ≈

2 x 26 W TC-D (68 W Psys)

LED 27 W ≈

3 x 26 W TC-D (102 W Psys)

LED 31 / 32 / 33 / 38 / 40 W ≈

4 x 26 W TC-D (136 W Psys)





Applies to versions with .19

Comparison LED vs. conventional lamps

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 21 W ≈

2 x 26 W TC-D (68 W Psys)



Ceiling and wall luminaires | Flat Polymero Kreis Slim with movement sensor

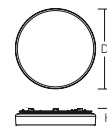
Type of Protection: IP 40

Protection Class: I

Impact Protection: IK03 (PMMA), IK10 (polycarbonate)

Base: metal, powder-coated. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof. Diffuser fastening: patented push system.


Available colour: 2 = white



Functional parameters of a master luminaire with a ceiling height of approx. 2.8 m:

- HF detector 24 GHz with integrated corridor function
- Detection range approx. 130° radial
- Easy adjustment of functions via 3 associated push button switches
- Sensitivity/Range 0.5-5 m radial, adjustable from 10-100%
- Time control 1 second to 15 minutes in 8 different levels
- Daylight detection with 5 brightness levels and learning mode
- Up to 9 slave luminaires can be operated with one master luminaire (max. up to 150 W / 230 W)
- Suitable for outdoor use to a limited extent only, as it is sensitive to all movements

AC movement sensor luminaires with 24 GHz technology (Master / Slave) are not compatible with other movement sensor luminaires.

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]		dimmable
Ceiling and wall luminaires with integrated movement sensor							
Diffuser: plastic (PMMA)							
Diameter D 300 mm							
312084.002.1.191	D 300, H 65	LED ⁽¹⁾	830	1200	13	Slave	on/off
312084.002.1.19	D 300, H 65	LED ⁽¹⁾	830	1200	13	Master	on/off
312084.002.3.191	D 300, H 65	LED ⁽¹⁾	840	1200	13	Slave	on/off
312084.002.3.19	D 300, H 65	LED ⁽¹⁾	840	1200	13	Master	on/off
Diameter D 360 mm							
312085.002.1.191	D 360, H 65	LED ⁽¹⁾	830	1900	21	Slave	on/off
312085.002.1.19	D 360, H 65	LED ⁽¹⁾	830	1900	21	Master	on/off
312085.002.3.191	D 360, H 65	LED ⁽¹⁾	840	2000	21	Slave	on/off
312085.002.3.19	D 360, H 65	LED ⁽¹⁾	840	2000	21	Master	on/off
Diffuser: plastic (polycarbonate)							
Diameter D 300 mm							
312084.002.2.191	D 300, H 65	LED ⁽¹⁾	830	1300	13	Slave	on/off
312084.002.2.19	D 300, H 65	LED ⁽¹⁾	830	1300	13	Master	on/off
312084.002.4.191	D 300, H 65	LED ⁽¹⁾	840	1300	13	Slave	on/off
312084.002.4.19	D 300, H 65	LED ⁽¹⁾	840	1300	13	Master	on/off
Diameter D 360 mm							
312085.002.2.191	D 360, H 65	LED ⁽¹⁾	830	2000	21	Slave	on/off
312085.002.2.19	D 360, H 65	LED ⁽¹⁾	830	2000	21	Master	on/off
312085.002.4.191	D 360, H 65	LED ⁽¹⁾	840	2050	21	Slave	on/off
312085.002.4.19	D 360, H 65	LED ⁽¹⁾	840	2050	21	Master	on/off

Replacement diffusers

08-312084.002	D 300, H 60	Plastic (PMMA)
08-312084.022	D 300, H 60	Plastic (polycarbonate)
08-312085.002	D 360, H 61	Plastic (PMMA)
08-312085.022	D 360, H 61	Plastic (polycarbonate)

Price Category 13



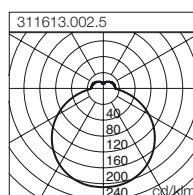


FLAT POLYMERO® KREIS

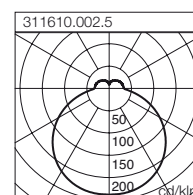
Ceiling and wall luminaires

- Comprehensive range consisting of: Pendant luminaires, Ceiling and wall luminaires
- Depending on the version, high-quality polycarbonate or PMMA are available as diffusers
- Individual design possible with foil print

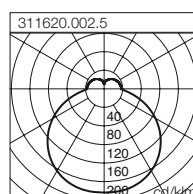
311613.002.5		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	5	6
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	6	10



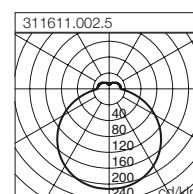
311610.002.5		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
5	7	10
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
7	10	17



311620.002.5		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
5	8	10
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
7	11	18



311611.002.5		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	6	7
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	8	13



Further luminaires of this series, see:
Indoor lighting | Pendant luminaires
Emergency lighting | Escape route illumination

Ceiling and wall luminaires | Flat Polymero Kreis XXL

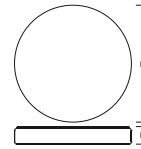
Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK07 (PMMA), IK10 (polycarbonate)

Base: metal, powder-coated. Diffuser: plastic (PMMA), opal or plastic (polycarbonate), opal and shockproof. Diffuser fastening: sash lock.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						
Diffuser: plastic (PMMA) D 1040 mm						
311695.002.76	D 1040, H 150	LED	830	9600	100	DALI
311695.002.1.76	D 1040, H 150	LED	840	10400	100	DALI
Diffuser: plastic (polycarbonate) D 1040 mm						
311695.002.2.76	D 1040, H 150	LED	830	10400	100	DALI
311695.002.3.76	D 1040, H 150	LED	840	11300	100	DALI



Replacement diffusers						
08-311292.002	D 1040, H 150	Plastic (PMMA)				
08-311292.022	D 1040, H 150	Plastic (polycarbonate)				

Price Category 21

Comparison LED vs. conventional lamps

LED 100 W ≈
4 x 55 W TC-L (232 W Psys)





Applies to versions with .76

Comparison

LED vs. conventional lamps

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 14 W ≈

2 x 18 W TC-D (52 W Psys)

LED 19 / 21 W ≈

2 x 26 W TC-D (68 W Psys)

LED 24 / 27 W ≈

3 x 26 W TC-D (102 W Psys)

LED 31 / 32 / 33 / 38 / 40 W ≈

3 x 26 W TC-D (102 W Psys)



LED ⁽¹⁾ = with mains voltage boards also available for DALI control and with movement sensor (master and slave)

LED rated life 50,000 h (L70/B10)



With individual LEDs and separate converter - ideal for use in emergency lighting modules

LED rated life 50,000 h (L80/B10)

Ceiling and wall luminaires | Flat Polymero Kreis

Type of Protection: IP 40

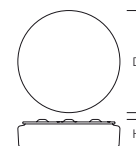
Protection Class: I

Impact Protection: IK03 (PMMA)

Base: metal, powder-coated. Diffuser: plastic (PMMA), opal.

Diffuser fastening: patented push system.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able	
Ceiling and wall luminaires							
Diffuser: plastic (PMMA)							
Diameter D 300 mm							
311949.002.1 *	D 300, H 80	LED ⁽¹⁾	830	1200	13	on/off	✓
311949.002.1.76 **	D 300, H 80	LED ⁽¹⁾	830	1200	13	DALI	
311949.002.3 *	D 300, H 80	LED ⁽¹⁾	840	1250	13	on/off	✓
311949.002.3.76 **	D 300, H 80	LED ⁽¹⁾	840	1250	13	DALI	
311620.002.7	D 300, H 80	LED	830	1500	14	on/off	✓
311620.002.7.76	D 300, H 80	LED	830	1500	14	DALI	
311620.002.5	D 300, H 80	LED	840	1500	14	on/off	✓
311620.002.5.76	D 300, H 80	LED	840	1500	14	DALI	
Diameter D 360 mm							
311950.002.1 *	D 360, H 87	LED ⁽¹⁾	830	1200	13	on/off	✓
311950.002.1.76 **	D 360, H 87	LED ⁽¹⁾	830	1200	13	DALI	
311950.002.3 *	D 360, H 87	LED ⁽¹⁾	840	1250	13	on/off	✓
311950.002.3.76 **	D 360, H 87	LED ⁽¹⁾	840	1250	13	DALI	
311610.002.7	D 360, H 87	LED	830	1600	14	on/off	✓
311610.002.7.76	D 360, H 87	LED	830	1600	14	DALI	
311610.002.5	D 360, H 87	LED	840	1600	14	on/off	✓
311610.002.5.76	D 360, H 87	LED	840	1600	14	DALI	
311951.002.1 *	D 360, H 87	LED ⁽¹⁾	830	1950	21	on/off	✓
311951.002.1.76 **	D 360, H 87	LED ⁽¹⁾	830	1950	21	DALI	
311951.002.3 *	D 360, H 87	LED ⁽¹⁾	840	2000	21	on/off	✓
311951.002.3.76 **	D 360, H 87	LED ⁽¹⁾	840	2000	21	DALI	
Diameter D 460 mm							
311611.002.7	D 460, H 93	LED	830	2050	19	on/off	✓
311611.002.7.76	D 460, H 93	LED	830	2050	19	DALI	
311611.002.5	D 460, H 93	LED	840	2050	19	on/off	✓
311611.002.5.76	D 460, H 93	LED	840	2050	19	DALI	
312242.002.1 *	D 460, H 93	LED ⁽¹⁾	830	2750	27	on/off	✓
312242.002.1.76 **	D 460, H 93	LED ⁽¹⁾	830	3200	32	DALI	
312242.002.3 *	D 460, H 93	LED ⁽¹⁾	840	2900	27	on/off	✓
312242.002.3.76 **	D 460, H 93	LED ⁽¹⁾	840	3500	31	DALI	
Diameter D 515 mm							
311613.002.7	D 515, H 98	LED	830	2550	24	on/off	✓
311613.002.7.76	D 515, H 98	LED	830	2550	24	DALI	✓
311613.002.5	D 515, H 98	LED	840	2550	24	on/off	✓
311613.002.5.76	D 515, H 98	LED	840	2550	24	DALI	✓
312088.002.1 *	D 515, H 98	LED ⁽¹⁾	830	3200	33	on/off	
312088.002.1.76 **	D 515, H 98	LED ⁽¹⁾	830	3800	40	DALI	
312088.002.3 *	D 515, H 98	LED ⁽¹⁾	840	3200	33	on/off	
312088.002.3.76 **	D 515, H 98	LED ⁽¹⁾	840	3800	38	DALI	

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Replacement diffusers

08-311616.002	D 300, H 75	Plastic (PMMA)
08-311595.002	D 360, H 81	Plastic (PMMA)
08-311600.002	D 460, H 88	Plastic (PMMA)
08-311604.002	D 515, H 93	Plastic (PMMA)

Price Category 13

Ceiling and wall luminaires | Flat Polymero Kreis

Type of Protection: **IP 40**

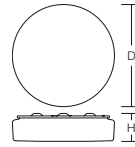
Protection Class: **I**

Impact Protection: **IK10** (polycarbonate)

Base: metal, powder-coated. Diffuser: plastic (polycarbonate), opal and shockproof.

Diffuser fastening: patented push system.

Available colour: 2 = white



Ceiling and wall luminaires

Diffuser: plastic (polycarbonate)

Diameter D 300 mm

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
311949.002.2 *	D 300, H 80	LED ⁽¹⁾	830	1200	13	on/off
311949.002.2.76 **	D 300, H 80	LED ⁽¹⁾	830	1200	13	DALI
311949.002.4 *	D 300, H 80	LED ⁽¹⁾	840	1300	13	on/off
311949.002.4.76 **	D 300, H 80	LED ⁽¹⁾	840	1300	13	DALI
311620.002.8	D 300, H 80	LED	830	1550	14	on/off
311620.002.8.76	D 300, H 80	LED	830	1550	14	DALI
311620.002.6	D 300, H 80	LED	840	1550	14	on/off
311620.002.6.76	D 300, H 80	LED	840	1550	14	DALI
Diameter D 360 mm						
311950.002.2 *	D 360, H 87	LED ⁽¹⁾	830	1200	13	on/off
311950.002.2.76 **	D 360, H 87	LED ⁽¹⁾	830	1200	13	DALI
311950.002.4 *	D 360, H 87	LED ⁽¹⁾	840	1300	13	on/off
311950.002.4.76 **	D 360, H 87	LED ⁽¹⁾	840	1300	13	DALI
311610.002.8	D 360, H 87	LED	830	1650	14	on/off
311610.002.8.76	D 360, H 87	LED	830	1650	14	DALI
311610.002.6	D 360, H 87	LED	840	1650	14	on/off
311610.002.6.76	D 360, H 87	LED	840	1650	14	DALI
311951.002.2 *	D 360, H 87	LED ⁽¹⁾	830	2000	21	on/off
311951.002.2.76 **	D 360, H 87	LED ⁽¹⁾	830	2000	21	DALI
311951.002.4 *	D 360, H 87	LED ⁽¹⁾	840	2150	21	on/off
311951.002.4.76 **	D 360, H 87	LED ⁽¹⁾	840	2150	21	DALI
Diameter D 460 mm						
311611.002.8	D 460, H 93	LED	830	2100	19	on/off
311611.002.8.76	D 460, H 93	LED	830	2100	19	DALI
311611.002.6	D 460, H 93	LED	840	2100	19	on/off
311611.002.6.76	D 460, H 93	LED	840	2100	19	DALI
312242.002.2 *	D 460, H 93	LED ⁽¹⁾	830	3000	27	on/off
312242.002.2.76 **	D 460, H 93	LED ⁽¹⁾	830	3500	32	DALI
312242.002.4 *	D 460, H 93	LED ⁽¹⁾	840	3050	27	on/off
312242.002.4.76 **	D 460, H 93	LED ⁽¹⁾	840	3600	31	DALI
Diameter D 515 mm						
311613.002.8	D 515, H 98	LED	830	2650	24	on/off
311613.002.8.76	D 515, H 98	LED	830	2650	24	DALI
311613.002.6	D 515, H 98	LED	840	2650	24	on/off
311613.002.6.76	D 515, H 98	LED	840	2650	24	DALI
312088.002.2	D 515, H 98	LED ⁽¹⁾	830	3400	33	on/off
312088.002.2.76 **	D 515, H 98	LED ⁽¹⁾	830	4050	40	DALI
312088.002.4	D 515, H 98	LED ⁽¹⁾	840	3400	33	on/off
312088.002.4.76 **	D 515, H 98	LED ⁽¹⁾	840	4050	38	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Replacement diffusers

Reference number	Dimensions [mm]	Material
08-311616.022	D 300, H 75	Plastic (polycarbonate)
08-311595.022	D 360, H 81	Plastic (polycarbonate)
08-311600.022	D 460, H 87	Plastic (polycarbonate)
08-311604.022	D 515, H 92	Plastic (polycarbonate)



Applies to versions with .76

Comparison

LED vs. conventional lamps

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 14 W ≈

2 x 18 W TC-D (52 W Psys)

LED 19 / 21 W ≈

2 x 26 W TC-D (68 W Psys)

LED 24 / 27 W ≈

3 x 26 W TC-D (102 W Psys)

LED 31 / 32 / 33 / 38 / 40 W ≈

3 x 26 W TC-D (102 W Psys)



Comparison LED vs. conventional lamps

LED 14 W ≈

2 x 18 W TC-D (52 W Psys)

LED 19 W ≈

2 x 26 W TC-D (68 W Psys)



Ceiling and wall luminaires | Flat Polymero Kreis with movement sensor

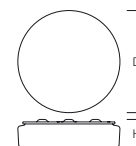
Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK03 (PMMA), IK10 (polycarbonate)

Base: metal, powder-coated. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof. Diffuser fastening: patented push system.

Available colour: 2 = white



Functional parameters of the movement sensor installed on a ceiling at a height of max. 4 m or on a wall at a height of approx. 2.7 m:

- HF detector 5.8 GHz ISM frequency band
- Sensitivity/Range: 1-8 m in diameter (20-100%), adjustable
- Time control between 10 seconds and 30 minutes, adjustable
- Detection angle: 120°
- Can be used as master luminaire up to 800 W (ohmic load), 500 W (fluorescent lamp, LED) / 400 A, 200 µs
- Suitable for outdoor use to a limited extent only, as it is sensitive to all movements

Movement sensor luminaires are not compatible with AC movement sensor luminaires with 24 GHz technology (Master / Slave).

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	
Ceiling and wall luminaires with integrated movement sensor							Price Category 11
Diffuser: plastic (PMMA)							
Diameter D 300 mm							
311620.002.7.19	D 300, H 80	LED	830	1500	14	on/off	
311620.002.5.19	D 300, H 80	LED	840	1500	14	on/off	
Diameter D 360 mm							
311610.002.7.19	D 360, H 87	LED	830	1600	14	on/off	
311610.002.5.19	D 360, H 87	LED	840	1600	14	on/off	
Diameter D 460 mm							
311611.002.7.19	D 460, H 93	LED	830	2050	19	on/off	✓
311611.002.5.19	D 460, H 93	LED	840	2050	19	on/off	✓
Diameter D 515 mm							
311612.002.7.19	D 515, H 98	LED	830	2100	19	on/off	
311612.002.5.19	D 515, H 98	LED	840	2100	19	on/off	
Diffuser: plastic (polycarbonate)							
Diameter D 300 mm							
311620.002.8.19	D 300, H 80	LED	830	1550	14	on/off	
311620.002.6.19	D 300, H 80	LED	840	1550	14	on/off	
Diameter D 360 mm							
311610.002.8.19	D 360, H 87	LED	830	1650	14	on/off	
311610.002.6.19	D 360, H 87	LED	840	1650	14	on/off	
Diameter D 460 mm							
311611.002.8.19	D 460, H 93	LED	830	2100	19	on/off	
311611.002.6.19	D 460, H 93	LED	840	2100	19	on/off	
Diameter D 515 mm							
311612.002.8.19	D 515, H 98	LED	830	2150	19	on/off	
311612.002.6.19	D 515, H 98	LED	840	2150	19	on/off	



Replacement diffusers			Price Category 13	
08-311616.002	D 300, H 75	Plastic (PMMA)		
08-311616.022	D 300, H 75	Plastic (polycarbonate)		
08-311595.002	D 360, H 81	Plastic (PMMA)		
08-311595.022	D 360, H 81	Plastic (polycarbonate)		
08-311600.002	D 460, H 88	Plastic (PMMA)		
08-311600.022	D 460, H 87	Plastic (polycarbonate)		
08-311604.002	D 515, H 93	Plastic (PMMA)		
08-311604.022	D 515, H 92	Plastic (polycarbonate)		

Ceiling and wall luminaires | Flat Polymero Kreis with movement sensor

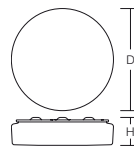
Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK03 (PMMA), IK10 (polycarbonate)

Base: metal, powder-coated. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof. Diffuser fastening: patented push system.

Available colour: 2 = white



Applies to versions with .19

Functional parameters of a master luminaire with a ceiling height of approx. 2.8 m:

- HF detector 24 GHz with integrated corridor function
- Detection range approx. 130° radial
- Easy adjustment of functions via 3 associated push button switches
- Sensitivity/Range 0.5-5 m radial, adjustable from 10-100%
- Time control 1 second to 15 minutes in 8 different levels
- Daylight detection with 5 brightness levels and learning mode
- Up to 9 slave luminaires can be operated with one master luminaire (max. up to 150 W / 230 W)
- Suitable for outdoor use to a limited extent only, as it is sensitive to all movements

AC movement sensor luminaires with 24 GHz technology (Master / Slave) are not compatible with other movement sensor luminaires.

Comparison LED vs. conventional lamps

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 21 W ≈

2 x 26 W TC-D (68 W Psys)



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]		dimmable
Ceiling and wall luminaires with integrated movement sensor							
Diffuser: plastic (PMMA)							
Diameter D 300 mm							
311949.002.1.191	D 300, H 80	LED ⁽¹⁾	830	1200	13	Slave	on/off
311949.002.1.19	D 300, H 80	LED ⁽¹⁾	830	1200	13	Master	on/off
311949.002.3.191	D 300, H 80	LED ⁽¹⁾	840	1250	13	Slave	on/off
311949.002.3.19	D 300, H 80	LED ⁽¹⁾	840	1250	13	Master	on/off
Diameter D 360 mm							
311950.002.1.191	D 360, H 87	LED ⁽¹⁾	830	1200	13	Slave	on/off
311950.002.1.19	D 360, H 87	LED ⁽¹⁾	830	1200	13	Master	on/off
311950.002.3.191	D 360, H 87	LED ⁽¹⁾	840	1250	13	Slave	on/off
311950.002.3.19	D 360, H 87	LED ⁽¹⁾	840	1250	13	Master	on/off
311951.002.1.191	D 360, H 87	LED ⁽¹⁾	830	1950	21	Slave	on/off
311951.002.1.19	D 360, H 87	LED ⁽¹⁾	830	1950	21	Master	on/off
311951.002.3.191	D 360, H 87	LED ⁽¹⁾	840	2000	21	Slave	on/off
311951.002.3.19	D 360, H 87	LED ⁽¹⁾	840	2000	21	Master	on/off
Diffuser: plastic (polycarbonate)							
Diameter D 300 mm							
311949.002.2.191	D 300, H 80	LED ⁽¹⁾	830	1200	13	Slave	on/off
311949.002.2.19	D 300, H 80	LED ⁽¹⁾	830	1200	13	Master	on/off
311949.002.4.191	D 300, H 80	LED ⁽¹⁾	840	1300	13	Slave	on/off
311949.002.4.19	D 300, H 80	LED ⁽¹⁾	840	1300	13	Master	on/off
Diameter D 360 mm							
311950.002.2.191	D 360, H 87	LED ⁽¹⁾	830	1200	13	Slave	on/off
311950.002.2.19	D 360, H 87	LED ⁽¹⁾	830	1200	13	Master	on/off
311950.002.4.191	D 360, H 87	LED ⁽¹⁾	840	1300	13	Slave	on/off
311950.002.4.19	D 360, H 87	LED ⁽¹⁾	840	1300	13	Master	on/off
311951.002.2.191	D 360, H 87	LED ⁽¹⁾	830	2000	21	Slave	on/off
311951.002.2.19	D 360, H 87	LED ⁽¹⁾	830	2000	21	Master	on/off
311951.002.4.191	D 360, H 87	LED ⁽¹⁾	840	2150	21	Slave	on/off
311951.002.4.19	D 360, H 87	LED ⁽¹⁾	840	2150	21	Master	on/off

Replacement diffusers			Price Category 13	
08-311616.002	D 300, H 75	Plastic (PMMA)		
08-311616.022	D 300, H 75	Plastic (polycarbonate)		
08-311595.002	D 360, H 81	Plastic (PMMA)		
08-311595.022	D 360, H 81	Plastic (polycarbonate)		

FLAT POLYMERO®

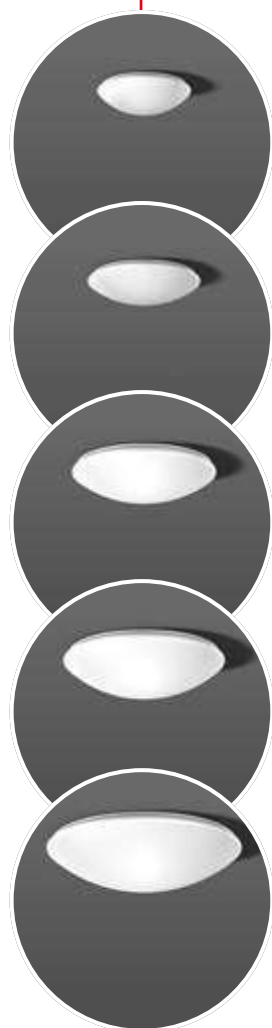
Everything at a glance



Diffusers made of non-yellowing
PMMA plastic or shockproof PC

Flat Polymero®

Type of Protection: IP 40



D 300 mm
H 100 mm



D 360 mm
H 100 mm



D 460 mm
H 120 mm



D 515 mm
H 150 mm



D 620 mm
H 160 mm



Flat Polymero® IP 44

Type of Protection: IP 43 ceiling mounting
IP 44 wall mounting

Also for E27



D 305 mm
H 115 mm



D 420 mm
H 150 mm



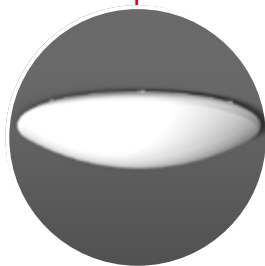
D 580 mm
H 160 mm





Flat Polymero® XXL

Type of Protection: IP 40



D 1040 mm
H 230 mm

PMMA diffuser

RZB offers more than standard PMMA

PMMA also known as Plexiglas®:

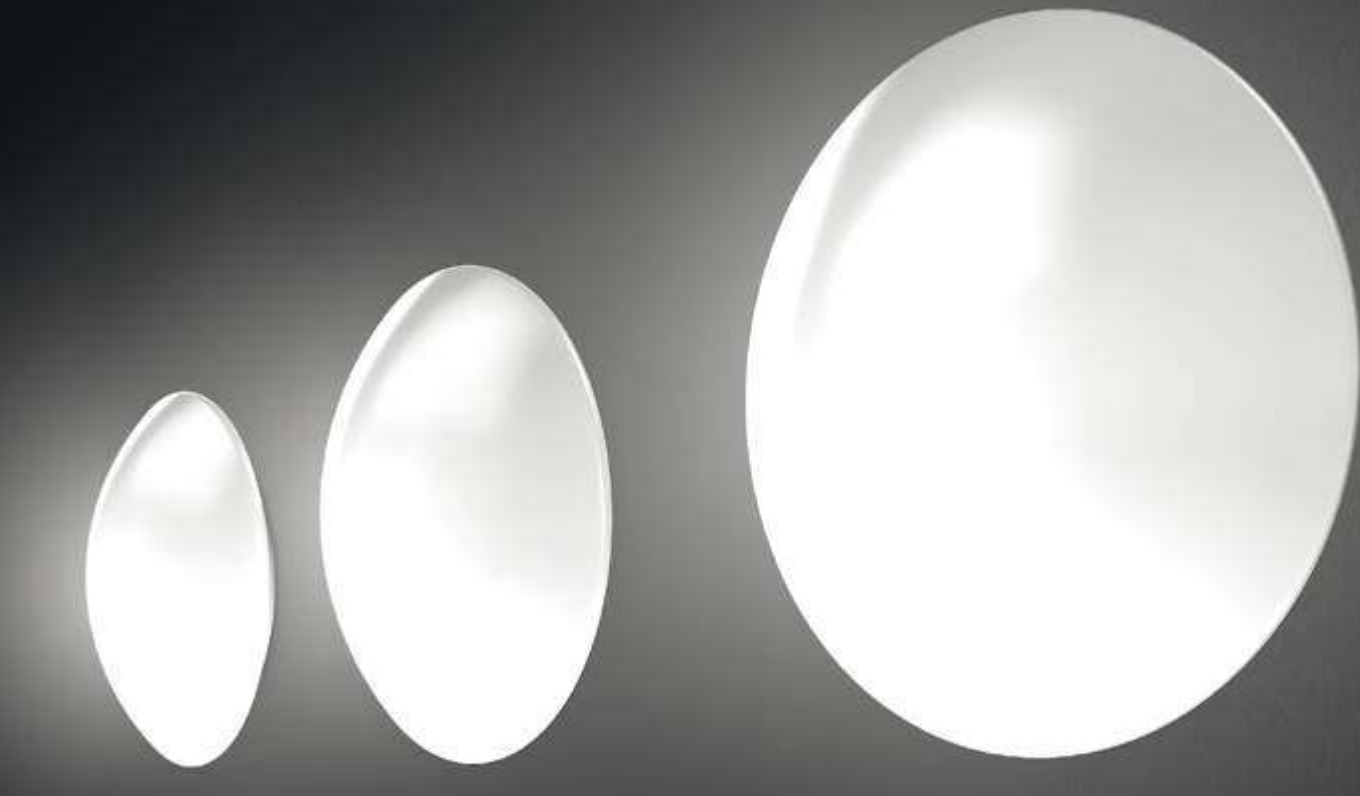
- Robust and scratch-resistant - substitute for glass
- Transparency and shade similar to opal glass
- UV resistant (colour-true; no yellowing)
- Completely weathering resistant
- For 0–90 °C operating temperatures
- 92 percent light transmission (for 1 mm-thick Plexiglas®)
- Can be cleaned with tap water, soft soap or a pH neutral cleaning agent
- Can be disposed of without residual waste



PC diffuser

RZB offers more than standard polycarbonate high quality UV stabilized plastic - PC:

- Hard, stiff, shockproof, extremely high impact strength
- Transparency and shade similar to opal glass
- UV stabilized
- Largely weathering resistant
- Can be used at ambient temperatures ranging from -40° to +135°C
- 88 percent light transmission (for 1 mm-thick material)
- Can be cleaned with tap water

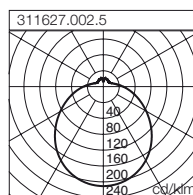


FLAT POLYMERO®

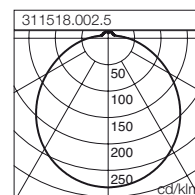
Ceiling and wall luminaires

- A range with outstanding variety of types, consisting of: Pendant luminaires, ceiling and wall luminaires
- Quick and easy to install
- Pleasing homogeneous visual appearance thanks to the large size LED board
- LED board can be replaced individually
- Diffuser made of quality polycarbonate or PMMA

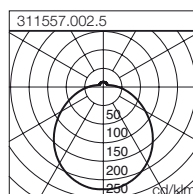
311627.002.5		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
6	8	11
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
8	11	18



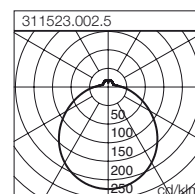
311518.002.5		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	5	7
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	8	12



311557.002.5		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	7

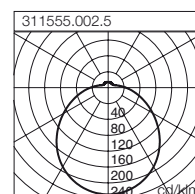


311523.002.5		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
5	8	10
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
7	11	18



Further luminaires of this series, see:
Indoor lighting | Pendant luminaires
Emergency lighting | Escape route illumination

311555.002.5		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	5	6
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	6	10



Ceiling and wall luminaires | Flat Polymero XXL

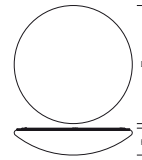
Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK07 (PMMA), IK10 (polycarbonate)

Base: metal, powder-coated. Diffuser: plastic (PMMA), opal or plastic (polycarbonate), opal and shockproof. Diffuser fastening: sash lock.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Ceiling and wall luminaires						
Diffuser: plastic (PMMA) D 1040 mm						
311694.002.76	D 1040, H 230	LED	830	9450	100	DALI
311694.002.1.76	D 1040, H 230	LED	840	10300	100	DALI
Diffuser: plastic (polycarbonate) D 1040 mm						
311694.002.2.76	D 1040, H 230	LED	830	10000	100	DALI
311694.002.3.76	D 1040, H 230	LED	840	10900	100	DALI



Replacement diffusers						
08-311183.022	D 1040, H 230	Plastic (PMMA)				
08-311183.042	D 1040, H 230	Plastic (polycarbonate)				

Price Category 21

Comparison LED vs. conventional lamps

LED 100 W ≈
4 x 55 W TC-L (232 W Psys)





Applies to versions with .76

Comparison

LED vs. conventional lamps

LED 10 / 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 14 W ≈

2 x 18 W TC-D (52 W Psys)

LED 19 / 21 W ≈

2 x 26 W TC-D (68 W Psys)

LED 24 / 27 W ≈

3 x 26 W TC-D (102 W Psys)

LED 31 / 32 / 33 / 38 / 40 W ≈

4 x 26 W TC-D (136 W Psys)



With individual LEDs and separate converter - ideal for use in emergency lighting modules

LED rated life 50,000 h (L80/B10)



LED ⁽¹⁾ = with mains voltage boards also available for DALI control and with movement sensor (master and slave)

LED rated life 50,000 h (L70/B10)

Ceiling and wall luminaires | Flat Polymero

Type of Protection: IP 40

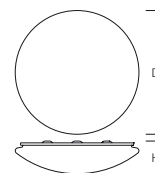
Protection Class: I

Impact Protection: IK03 (PMMA)

Base: metal, powder-coated. Diffuser: plastic (PMMA), opal.

Diffuser fastening: patented push system.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able	
Ceiling and wall luminaires							
Diffuser: plastic (PMMA)							
Diameter D 300 mm							
311626.002.7	D 300, H 100	LED	830	1050	10	on/off	
311626.002.7.76	D 300, H 100	LED	830	1050	10	DALI	
311626.002.5	D 300, H 100	LED	840	1050	10	on/off	
311626.002.5.76	D 300, H 100	LED	840	1050	10	DALI	
311943.002.1 *	D 300, H 100	LED ⁽¹⁾	830	1150	13	on/off	✓
311943.002.1.76 **	D 300, H 100	LED ⁽¹⁾	830	1150	13	DALI	
311943.002.3 *	D 300, H 100	LED ⁽¹⁾	840	1200	13	on/off	✓
311943.002.3.76 **	D 300, H 100	LED ⁽¹⁾	840	1200	13	DALI	
311627.002.7	D 300, H 100	LED	830	1450	14	on/off	✓
311627.002.7.76	D 300, H 100	LED	830	1450	14	DALI	
311627.002.5	D 300, H 100	LED	840	1450	14	on/off	✓
311627.002.5.76	D 300, H 100	LED	840	1450	14	DALI	
Diameter D 360 mm							
311945.002.1 .Q*	D 360, H 100	LED ⁽¹⁾	830	1150	13	on/off	✓
311945.002.1.76 **	D 360, H 100	LED ⁽¹⁾	830	1150	13	DALI	
311945.002.3 *	D 360, H 100	LED ⁽¹⁾	840	1200	13	on/off	✓
311945.002.3.76 **	D 360, H 100	LED ⁽¹⁾	840	1200	13	DALI	
311523.002.7 .Q	D 360, H 100	LED	830	1450	14	on/off	✓
311523.002.7.76	D 360, H 100	LED	830	1450	14	DALI	
311523.002.5 .Q	D 360, H 100	LED	840	1450	14	on/off	✓
311523.002.5.76	D 360, H 100	LED	840	1450	14	DALI	
311946.002.1 *	D 360, H 100	LED ⁽¹⁾	830	1850	21	on/off	✓
311946.002.1.76 **	D 360, H 100	LED ⁽¹⁾	830	1850	21	DALI	
311946.002.3 *	D 360, H 100	LED ⁽¹⁾	840	1950	21	on/off	✓
311946.002.3.76 **	D 360, H 100	LED ⁽¹⁾	840	1950	21	DALI	
Diameter D 460 mm							
311518.002.7	D 460, H 120	LED	830	2100	19	on/off	✓
311518.002.7.76	D 460, H 120	LED	830	2100	19	DALI	
311518.002.5	D 460, H 120	LED	840	2100	19	on/off	✓
311518.002.5.76	D 460, H 120	LED	840	2100	19	DALI	
311947.002.1 *	D 460, H 120	LED ⁽¹⁾	830	1950	21	on/off	✓
311947.002.1.76 **	D 460, H 120	LED ⁽¹⁾	830	1950	21	DALI	
311947.002.3 *	D 460, H 120	LED ⁽¹⁾	840	2050	21	on/off	✓
311947.002.3.76 **	D 460, H 120	LED ⁽¹⁾	840	2050	21	DALI	
312244.002.1 *	D 460, H 120	LED ⁽¹⁾	830	2750	27	on/off	✓
312244.002.1.76 **	D 460, H 120	LED ⁽¹⁾	830	3200	32	DALI	
312244.002.3 *	D 460, H 120	LED ⁽¹⁾	840	2850	27	on/off	✓
312244.002.3.76 **	D 460, H 120	LED ⁽¹⁾	840	3350	31	DALI	
Diameter D 515 mm							
311555.002.7	D 515, H 150	LED	830	2600	24	on/off	✓
311555.002.7.76	D 515, H 150	LED	830	2600	24	DALI	
311555.002.5	D 515, H 150	LED	840	2600	24	on/off	✓
311555.002.5.76	D 515, H 150	LED	840	2600	24	DALI	
312092.002.1	D 515, H 150	LED ⁽¹⁾	830	3200	33	on/off	
312092.002.1.76 **	D 515, H 150	LED ⁽¹⁾	830	3800	40	DALI	
312092.002.3	D 515, H 150	LED ⁽¹⁾	840	3200	33	on/off	
312092.002.3.76 **	D 515, H 150	LED ⁽¹⁾	840	3800	38	DALI	
Diameter D 620 mm							
312096.002.1	D 620, H 160	LED ⁽¹⁾	830	3200	33	on/off	
312096.002.1.76 **	D 620, H 160	LED ⁽¹⁾	830	3800	40	DALI	
312096.002.3	D 620, H 160	LED ⁽¹⁾	840	3200	33	on/off	
312096.002.3.76 **	D 620, H 160	LED ⁽¹⁾	840	3800	38	DALI	
311557.002.7	D 620, H 160	LED	830	4050	38	on/off	✓
311557.002.7.76	D 620, H 160	LED	830	4050	38	DALI	
311557.002.5	D 620, H 160	LED	840	4050	38	on/off	✓
311557.002.5.76	D 620, H 160	LED	840	4050	38	DALI	

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Replacement diffusers

08-311623.002	D 300, H 90	Plastic (PMMA)
08-311623.022	D 300, H 90	Plastic (polycarbonate)
08-311161.012	D 360, H 88	Plastic (PMMA)
08-311161.032	D 360, H 88	Plastic (polycarbonate)
08-311165.012	D 460, H 113	Plastic (PMMA)
08-311165.032	D 460, H 113	Plastic (polycarbonate)
08-311170.012	D 515, H 137	Plastic (PMMA)
08-311170.032	D 515, H 137	Plastic (polycarbonate)
08-311173.012	D 620, H 150	Plastic (PMMA)
08-311173.042	D 620, H 150	Plastic (polycarbonate)

Price Category 13

Ceiling and wall luminaires | Flat Polymero

Type of Protection: **IP 40**

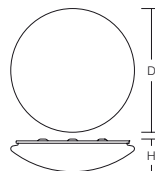
Protection Class: I

Impact Protection: IK10 (polycarbonate)

Base: metal, powder-coated. Diffuser: plastic (polycarbonate), opal and shockproof.

Diffuser fastening: patented push system.

Available colour: 2 = white



Ceiling and wall luminaires

Price Category 11

Diffuser: plastic (polycarbonate)

Diameter D 300 mm

311626.002.8	D 300, H 100	LED	830	1100	10	on/off
311626.002.8.76	D 300, H 100	LED	830	1100	10	DALI
311626.002.6	D 300, H 100	LED	840	1100	10	on/off
311626.002.6.76	D 300, H 100	LED	840	1100	10	DALI
311943.002.2 *	D 300, H 100	LED ⁽¹⁾	830	1150	13	on/off
311943.002.2.76 **	D 300, H 100	LED ⁽¹⁾	830	1150	13	DALI
311943.002.4 *	D 300, H 100	LED ⁽¹⁾	840	1200	13	on/off
311943.002.4.76 **	D 300, H 100	LED ⁽¹⁾	840	1200	13	DALI
311627.002.8	D 300, H 100	LED	830	1500	14	on/off
311627.002.8.76	D 300, H 100	LED	830	1500	14	DALI
311627.002.6	D 300, H 100	LED	840	1500	14	on/off
311627.002.6.76	D 300, H 100	LED	840	1500	14	DALI

Diameter D 360 mm

311945.002.2 *	D 360, H 100	LED ⁽¹⁾	830	1150	13	on/off
311945.002.2.76 **	D 360, H 100	LED ⁽¹⁾	830	1150	13	DALI
311945.002.4 *	D 360, H 100	LED ⁽¹⁾	840	1200	13	on/off
311945.002.4.76 **	D 360, H 100	LED ⁽¹⁾	840	1200	13	DALI
311523.002.8	D 360, H 100	LED	830	1500	14	on/off
311523.002.8.76	D 360, H 100	LED	830	1500	14	DALI
311523.002.6	D 360, H 100	LED	840	1500	14	on/off
311523.002.6.76	D 360, H 100	LED	840	1500	14	DALI
311946.002.2 *	D 360, H 100	LED ⁽¹⁾	830	1900	21	on/off
311946.002.2.76 **	D 360, H 100	LED ⁽¹⁾	830	1900	21	DALI
311946.002.4 *	D 360, H 100	LED ⁽¹⁾	840	2000	21	on/off
311946.002.4.76 **	D 360, H 100	LED ⁽¹⁾	840	2000	21	DALI

Diameter D 460 mm

311518.002.8	D 460, H 120	LED	830	2150	19	on/off
311518.002.8.76	D 460, H 120	LED	830	2150	19	DALI
311518.002.6	D 460, H 120	LED	840	2150	19	on/off
311518.002.6.76	D 460, H 120	LED	840	2150	19	DALI
311947.002.2 *	D 460, H 120	LED ⁽¹⁾	830	2000	21	on/off
311947.002.2.76 **	D 460, H 120	LED ⁽¹⁾	830	2000	21	DALI
311947.002.4 *	D 460, H 120	LED ⁽¹⁾	840	2050	21	on/off
311947.002.4.76 **	D 460, H 120	LED ⁽¹⁾	840	2050	21	DALI
312244.002.2 *	D 460, H 120	LED ⁽¹⁾	830	2800	27	on/off
312244.002.2.76 **	D 460, H 120	LED ⁽¹⁾	830	2816	32	DALI
312244.002.4 *	D 460, H 120	LED ⁽¹⁾	840	2950	27	on/off
312244.002.4.76 **	D 460, H 120	LED ⁽¹⁾	840	3450	31	DALI

Diameter D 515 mm

311555.002.8	D 515, H 150	LED	830	2650	24	on/off
311555.002.8.76	D 515, H 150	LED	830	2650	24	DALI
311555.002.6	D 515, H 150	LED	840	2650	24	on/off
311555.002.6.76	D 515, H 150	LED	840	2650	24	DALI
312092.002.2	D 515, H 150	LED ⁽¹⁾	830	3250	33	on/off
312092.002.2.76 **	D 515, H 150	LED ⁽¹⁾	830	3850	40	DALI
312092.002.4	D 515, H 150	LED ⁽¹⁾	840	3250	33	on/off
312092.002.4.76 **	D 515, H 150	LED ⁽¹⁾	840	3850	38	DALI

Diameter D 620 mm

312096.002.2	D 620, H 160	LED ⁽¹⁾	830	3250	33	on/off
312096.002.2.76 **	D 620, H 160	LED ⁽¹⁾	830	3800	40	DALI
312096.002.4	D 620, H 160	LED ⁽¹⁾	840	3250	33	on/off
312096.002.4.76 **	D 620, H 160	LED ⁽¹⁾	840	3900	38	DALI
311557.002.8	D 620, H 160	LED	830	4250	38	on/off
311557.002.8.76	D 620, H 160	LED	830	4250	38	DALI
311557.002.6	D 620, H 160	LED	840	4250	38	on/off
311557.002.6.76	D 620, H 160	LED	840	4250	38	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Accessories | Decorative metal rings for the Flat Polymero

Not suitable for luminaires with mains voltage LED (LED ⁽¹⁾)

Lacquered decorative rings are available in the following colours: 2 = white, 4 = silver, further RAL colours are available on request.

Metallised decorative rings are available in the following colour: 42 = nickel, matt

Decorative rings Flat Polymero

Price Category 11

981804.00X	D 380 mm	for diffuser D 360 mm
981805.00X	D 490 mm	for diffuser D 460 mm
981806.00X	D 551 mm	for diffuser D 515 mm



Applies to versions with .76

Comparison

LED vs. conventional lamps

LED 10 / 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 14 W ≈

2 x 18 W TC-D (52 W Psys)

LED 19 / 21 W ≈

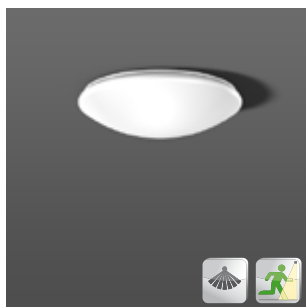
2 x 26 W TC-D (68 W Psys)

LED 24 / 27 W ≈

3 x 26 W TC-D (102 W Psys)

LED 31 / 32 / 33 / 38 / 40 W ≈

4 x 26 W TC-D (136 W Psys)



Comparison LED vs. conventional lamps

LED 14 W ≈

2 x 18 W TC-D (52 W Psys)

LED 19 W ≈

2 x 26 W TC-D (68 W Psys)



Ceiling and wall luminaires | Flat Polymero with movement sensor

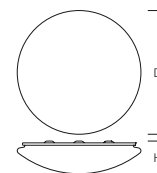
Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK03 (PMMA), IK10 (polycarbonate)

Base: metal, powder-coated. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof. Diffuser fastening: patented push system.

Available colour: 2 = white



Functional parameters of the movement sensor installed on a ceiling at a height of max. 4 m or on a wall at a height of approx. 2.7 m:

- HF detector 5.8 GHz ISM frequency band
- Sensitivity/Range: 1-8 m in diameter (20-100%), adjustable
- Time control between 10 seconds and 30 minutes, adjustable
- Detection angle: 120°
- Can be used as master luminaire up to 800 W (ohmic load), 500 W (fluorescent lamp, LED) / 400 A, 200 µs
- Suitable for outdoor use to a limited extent only, as it is sensitive to all movements

Movement sensor luminaires are not compatible with AC movement sensor luminaires with 24 GHz technology (Master / Slave).

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	
Ceiling and wall luminaires with integrated movement sensor							Price Category 11
Diffuser: plastic (PMMA)							
Diameter D 300 mm							
311627.002.7.19	D 300, H 100	LED	830	1450	14	on/off	
311627.002.5.19	D 300, H 100	LED	840	1450	14	on/off	
Diameter D 360 mm							
311523.002.7.19	D 360, H 100	LED	830	1450	14	on/off	✓
311523.002.5.19	D 360, H 100	LED	840	1450	14	on/off	✓
Diameter D 460 mm							
311518.002.7.19	D 460, H 120	LED	830	2100	19	on/off	✓
311518.002.5.19	D 460, H 120	LED	840	2100	19	on/off	✓
Diameter D 515 mm							
311525.002.7.19	D 515, H 150	LED	830	2100	19	on/off	
311525.002.5.19	D 515, H 150	LED	840	2100	19	on/off	
Diffuser: plastic (polycarbonate)							
Diameter D 300 mm							
311627.002.8.19	D 300, H 100	LED	830	1500	14	on/off	
311627.002.6.19	D 300, H 100	LED	840	1500	14	on/off	
Diameter D 360 mm							
311523.002.8.19	D 360, H 100	LED	830	1500	14	on/off	
311523.002.6.19	D 360, H 100	LED	840	1500	14	on/off	
Diameter D 460 mm							
311518.002.8.19	D 460, H 120	LED	830	2150	19	on/off	
311518.002.6.19	D 460, H 120	LED	840	2150	19	on/off	
Diameter D 515 mm							
311525.002.8.19	D 515, H 150	LED	830	2200	19	on/off	
311525.002.6.19	D 515, H 150	LED	840	2200	19	on/off	



Replacement diffusers			Price Category 13
08-311623.002	D 300, H 90	Plastic (PMMA)	
08-311623.022	D 300, H 90	Plastic (polycarbonate)	
08-311161.012	D 360, H 88	Plastic (PMMA)	
08-311161.032	D 360, H 88	Plastic (polycarbonate)	
08-311165.012	D 460, H 113	Plastic (PMMA)	
08-311165.032	D 460, H 113	Plastic (polycarbonate)	
08-311170.012	D 515, H 137	Plastic (PMMA)	
08-311170.032	D 515, H 137	Plastic (polycarbonate)	

Accessories | Decorative metal rings for the Flat Polymero

Not suitable for luminaires with mains voltage LED (LED "I")

Lacquered decorative rings are available in the following colours: 2 = white, 4 = silver, further RAL colours are available on request.

Metallised decorative rings are available in the following colour: 42 = nickel, matt

Decorative rings Flat Polymero			Price Category 11
981804.00X	D 380 mm	for diffuser D 360 mm	
981805.00X	D 490 mm	for diffuser D 460 mm	
981806.00X	D 551 mm	for diffuser D 515 mm	

Ceiling and wall luminaires | Flat Polymero with movement sensor

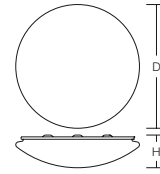
Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK03 (PMMA), IK10 (polycarbonate)

Base: metal, powder-coated. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof. Diffuser fastening: patented push system.

Available colour: 2 = white



Functional parameters of a master luminaire with a ceiling height of approx. 2.8 m:

- HF detector 24 GHz with integrated corridor function
- Detection range approx. 130° radial
- Easy adjustment of functions via 3 associated push button switches
- Sensitivity/Range 0.5-5 m radial, adjustable from 10-100%
- Time control 1 second to 15 minutes in 8 different levels
- Daylight detection with 5 brightness levels and learning mode
- Up to 9 slave luminaires can be operated with one master luminaire (max. up to 150 W / 230 W)
- Suitable for outdoor use to a limited extent only, as it is sensitive to all movements

AC movement sensor luminaires with 24 GHz technology (Master / Slave) are not compatible with other movement sensor luminaires.



Comparison LED vs. conventional lamps

LED 13 W ≈
1 x 26 W TC-D (34 W Psys)

LED 21 W ≈
2 x 26 W TC-D (68 W Psys)



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Ceiling and wall luminaires with integrated movement sensor						
Diffuser: plastic (PMMA)						
Diameter D 300 mm						
311943.002.1.191	D 300, H 100	LED ⁽¹⁾	830	1150	13	Slave on/off
311943.002.1.19	D 300, H 100	LED ⁽¹⁾	830	1150	13	Master on/off
311943.002.3.191	D 300, H 100	LED ⁽¹⁾	840	1200	13	Slave on/off
311943.002.3.19	D 300, H 100	LED ⁽¹⁾	840	1200	13	Master on/off
Diameter D 360 mm						
311945.002.1.191	D 360, H 100	LED ⁽¹⁾	830	1150	13	Slave on/off
311945.002.1.19	D 360, H 100	LED ⁽¹⁾	830	1150	13	Master on/off
311945.002.3.191	D 360, H 100	LED ⁽¹⁾	840	1200	13	Slave on/off
311945.002.3.19	D 360, H 100	LED ⁽¹⁾	840	1200	13	Master on/off
311946.002.1.191	D 360, H 100	LED ⁽¹⁾	830	1850	21	Slave on/off
311946.002.1.19	D 360, H 100	LED ⁽¹⁾	830	1850	21	Master on/off
311946.002.3.191	D 360, H 100	LED ⁽¹⁾	840	1950	21	Slave on/off
311946.002.3.19	D 360, H 100	LED ⁽¹⁾	840	1950	21	Master on/off
Diffuser: plastic (polycarbonate)						
Diameter D 300 mm						
311943.002.2.191	D 300, H 100	LED ⁽¹⁾	830	1150	13	Slave on/off
311943.002.2.19	D 300, H 100	LED ⁽¹⁾	830	1150	13	Master on/off
311943.002.4.191	D 300, H 100	LED ⁽¹⁾	840	1200	13	Slave on/off
311943.002.4.19	D 300, H 100	LED ⁽¹⁾	840	1200	13	Master on/off
Diameter D 360 mm						
311945.002.2.191	D 360, H 100	LED ⁽¹⁾	830	1150	13	Slave on/off
311945.002.2.19	D 360, H 100	LED ⁽¹⁾	830	1150	13	Master on/off
311945.002.4.191	D 360, H 100	LED ⁽¹⁾	840	1200	13	Slave on/off
311945.002.4.19	D 360, H 100	LED ⁽¹⁾	840	1200	13	Master on/off
311946.002.2.191	D 360, H 100	LED ⁽¹⁾	830	1900	21	Slave on/off
311946.002.2.19	D 360, H 100	LED ⁽¹⁾	830	1900	21	Master on/off
311946.002.4.191	D 360, H 100	LED ⁽¹⁾	840	2000	21	Slave on/off
311946.002.4.19	D 360, H 100	LED ⁽¹⁾	840	2000	21	Master on/off

Replacement diffusers			Price Category 13			
08-311623.002	D 300, H 90	Plastic (PMMA)				
08-311623.022	D 300, H 90	Plastic (polycarbonate)				
08-311161.012	D 360, H 88	Plastic (PMMA)				
08-311161.032	D 360, H 88	Plastic (polycarbonate)				

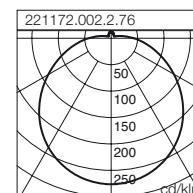


FLAT POLYMER[®] IP44

Ceiling and wall luminaires

- For indoor and outdoor lighting
- PMMA diffuser:
 - sturdy, scratch resistant (substitute for glass)
 - UV-resistant (non-fade - no yellowing)
 - totally weatherproof
- PC diffuser:
 - hard, stiff, shatterproof, extremely shockproof
 - UV-stabilised
- Integrated HF movement sensor option
- LED rated life 50,000 h (L70/B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)

221172.002.2.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	5	8



Ceiling and wall luminaires | Flat Polymero IP44

Type of Protection: **IP 43** ceiling mounting, **IP 44** wall mounting

Protection Class: I, II = E27

Impact Protection: IK02 (PMMA), IK10 (polycarbonate)

Base: plastic. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof.

Diffuser fastening: spring system.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
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Ceiling and wall luminaires

Price Category 11

Diffuser: plastic (PMMA)

Diffuser D 305 mm

221153.002.1 **	D 305, H 115	LED ⁽¹⁾	830	1250	13	on/off
221153.002.1.76 *	D 305, H 115	LED ⁽¹⁾	830	1250	13	DALI
221153.002.3 **	D 305, H 115	LED ⁽¹⁾	840	1250	13	on/off
221153.002.3.76 *	D 305, H 115	LED ⁽¹⁾	840	1250	13	DALI

221023.002.1 D 305, H 115 1 x E27* max. 75 W

221105.002 D 305, H 115 2 x E27* max. 40 W

Diffuser D 420 mm

221154.002.1 **	D 420, H 150	LED ⁽¹⁾	830	1900	21	on/off
221154.002.1.76 *	D 420, H 150	LED ⁽¹⁾	830	1900	21	DALI
221154.002.3 **	D 420, H 150	LED ⁽¹⁾	840	2000	21	on/off
221154.002.3.76 *	D 420, H 150	LED ⁽¹⁾	840	2000	21	DALI

221106.002 D 420, H 150 3 x E27* max. 40 W

Diffuser D 580 mm

221172.002.1	D 580, H 160	LED ⁽¹⁾	830	2950	33	on/off
221172.002.1.76 *	D 580, H 160	LED ⁽¹⁾	830	3550	40	DALI
221172.002.3	D 580, H 160	LED ⁽¹⁾	840	2950	33	on/off
221172.002.3.76 *	D 580, H 160	LED ⁽¹⁾	840	3550	38	DALI

221114.002.1 D 580, H 160 3 x E27* max. 40 W

Diffuser: plastic (polycarbonate)

Diffuser D 305 mm

221153.002 **	D 305, H 115	LED ⁽¹⁾	830	1350	13	on/off
221153.002.76 *	D 305, H 115	LED ⁽¹⁾	830	1350	13	DALI
221153.002.2 **	D 305, H 115	LED ⁽¹⁾	840	1350	13	on/off
221153.002.2.76 *	D 305, H 115	LED ⁽¹⁾	840	1350	13	DALI

221023.002 D 305, H 115 1 x E27* max. 75 W

221022.002 D 305, H 115 2 x E27* max. 60 W

Diffuser D 420 mm

221154.002 **	D 420, H 150	LED ⁽¹⁾	830	2050	21	on/off
221154.002.76 *	D 420, H 150	LED ⁽¹⁾	830	2050	21	DALI
221154.002.2 **	D 420, H 150	LED ⁽¹⁾	840	2200	21	on/off
221154.002.2.76 *	D 420, H 150	LED ⁽¹⁾	840	2200	21	DALI

221026.002 D 420, H 150 3 x E27* max. 60 W

Diffuser D 580 mm

221172.002	D 580, H 160	LED ⁽¹⁾	830	3250	33	on/off
221172.002.76 *	D 580, H 160	LED ⁽¹⁾	830	3850	40	DALI
221172.002.2	D 580, H 160	LED ⁽¹⁾	840	3250	33	on/off
221172.002.2.76 *	D 580, H 160	LED ⁽¹⁾	840	3850	38	DALI

221114.002 D 580, H 160 3 x E27* max. 75 W

* DALI dimmable (10-100%) | ** Suitable for phase cut dimming (10-100%)

Replacement diffusers

Price Category 13

08-5145.012	D 305, H 96	Plastic (PMMA)
08-5145.032	D 305, H 96	Plastic (polycarbonate)
08-5146.012	D 420, H 130	Plastic (PMMA)
08-5146.022	D 420, H 130	Plastic (polycarbonate)
08-5229.012	D 580, H 140	Plastic (PMMA)
08-5229.022	D 580, H 140	Plastic (polycarbonate)



Applies to versions with .76

Comparison

LED vs. conventional lamps

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 21 W ≈

2 x 26 W TC-D (68 W Psys)

LED 33 W ≈

3 x 26 W TC-D (102 W Psys)

LED 38 / 40 W ≈

4 x 26 W TC-D (136 W Psys)





Ceiling and wall luminaires | Flat Polymero IP44

Type of Protection: **IP 43** ceiling mounting, **IP 44** wall mounting
Protection Class: I
Impact Protection: IK02 (PMMA), IK10 (polycarbonate)
Base: plastic. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof.
Diffuser fastening: spring system.
Available colour: 2 = white



Functional parameters of the movement sensor installed on a ceiling at a height of max. 4 m or on a wall at a height of approx. 2.7 m:

- HF detector 5.8 GHz ISM frequency band
- Sensitivity/Range: 1-8 m in diameter (20-100%), adjustable
- Time control between 10 seconds and 30 minutes, adjustable
- Detection angle: 120°
- Can be used as master luminaire up to 800 W (ohmic load), 500 W (fluorescent lamp, LED) / 400 A, 200 µs
- Suitable for outdoor use to a limited extent only, as it is sensitive to all movements

Movement sensor luminaires are not compatible with AC movement sensor luminaires with 24 GHz technology (Master / Slave).

Reference number	Dimensions [mm]	Lamp	
Ceiling and wall luminaires with integrated movement sensor			Price Category 11
Diffuser: plastic (PMMA)			
Diffuser D 305 mm			
221126.002.4.19	D 305, H 115	1 x E27* max. 60 W	
Diffuser: plastic (polycarbonate)			
Diffuser D 305 mm			
221126.002.3.19	D 305, H 115	1 x E27* max. 60 W	



Replacement diffusers			Price Category 13
08-5145.012	D 305, H 96	Plastic (PMMA)	
08-5145.032	D 305, H 96	Plastic (polycarbonate)	



The application image shows:
Flat Polymero

Ceiling and wall luminaires | Flat Polymero IP44

Type of Protection: **IP 43** ceiling mounting, **IP 44** wall mounting

Protection Class: I

Impact Protection: IK02 (PMMA), IK10 (polycarbonate)

Base: plastic. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof.

Diffuser fastening: spring system.



Applies to versions with .19

Available colour: 2 = white

Functional parameters of a master luminaire with a ceiling height of approx. 2.8 m:

- HF detector 24 GHz with integrated corridor function
- Detection range approx. 130° radial
- Easy adjustment of functions via 3 associated push button switches
- Sensitivity/Range 0.5-5 m radial, adjustable from 10-100%
- Time control 1 second to 15 minutes in 8 different levels
- Daylight detection with 5 brightness levels and learning mode
- Up to 9 slave luminaires can be operated with one master luminaire (max. up to 150 W / 230 W)
- Suitable for outdoor use to a limited extent only, as it is sensitive to all movements

AC movement sensor luminaires with 24 GHz technology (Master / Slave) are not compatible with other movement sensor luminaires.

Comparison LED vs. conventional lamps


LED 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 21 W ≈

2 x 26 W TC-D (68 W Psys)



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]		dimm-able
Ceiling and wall luminaires with integrated movement sensor							
Diffuser: plastic (PMMA)							
Diffuser D 305 mm							
221153.002.1.191	D 305, H 115	LED ⁽¹⁾	830	1250	13	Slave	on/off
221153.002.1.19	D 305, H 115	LED ⁽¹⁾	830	1250	13	Master	on/off
221153.002.3.191	D 305, H 115	LED ⁽¹⁾	840	1250	13	Slave	on/off
221153.002.3.19	D 305, H 115	LED ⁽¹⁾	840	1250	13	Master	on/off
Diffuser D 420 mm							
221154.002.1.191	D 420, H 150	LED ⁽¹⁾	830	1900	21	Slave	on/off
221154.002.1.19	D 420, H 150	LED ⁽¹⁾	830	1900	21	Master	on/off
221154.002.3.191	D 420, H 150	LED ⁽¹⁾	840	2000	21	Slave	on/off
221154.002.3.19	D 420, H 150	LED ⁽¹⁾	840	2000	21	Master	on/off
Diffuser: plastic (polycarbonate)							
Diffuser D 305 mm							
221153.002.191	D 305, H 115	LED ⁽¹⁾	830	1350	13	Slave	on/off
221153.002.19	D 305, H 115	LED ⁽¹⁾	830	1350	13	Master	on/off
221153.002.2.191	D 305, H 115	LED ⁽¹⁾	840	1350	13	Slave	on/off
221153.002.2.19	D 305, H 115	LED ⁽¹⁾	840	1350	13	Master	on/off
Diffuser D 420 mm							
221154.002.191	D 420, H 150	LED ⁽¹⁾	830	2050	21	Slave	on/off
221154.002.19	D 420, H 150	LED ⁽¹⁾	830	2050	21	Master	on/off
221154.002.2.191	D 420, H 150	LED ⁽¹⁾	840	2200	21	Slave	on/off
221154.002.2.19	D 420, H 150	LED ⁽¹⁾	840	2200	21	Master	on/off

Replacement diffusers			Price Category 13				
08-5145.012	D 305, H 96	Plastic (PMMA)					
08-5145.032	D 305, H 96	Plastic (polycarbonate)					
08-5146.012	D 420, H 130	Plastic (PMMA)					
08-5146.022	D 420, H 130	Plastic (polycarbonate)					

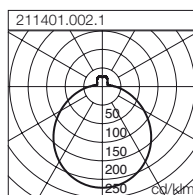


FLAT BASIC

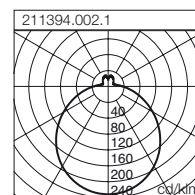
Ceiling and wall luminaires

- Very extensive line of wall and ceiling luminaires for interiors
- Mouth blown 3-layer opal glass (Triplex glass) with satin finish
- Triplex glass produces particularly homogeneous, soft and glare free lighting

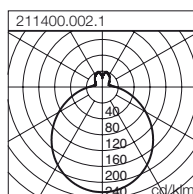
211401.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	5	7
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	7	12



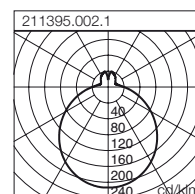
211394.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
6	9	12
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
8	13	21



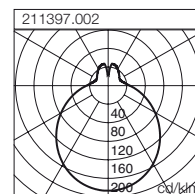
211400.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
6	9	12
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
9	13	21



211395.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
13	19	25
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
18	27	45



211397.002		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
16	24	32
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
23	34	56



Ceiling and wall luminaires | Flat Basic

Type of Protection: **IP 43** ceiling mounting, **IP 44** wall mounting

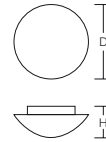
Protection Class: I, II = E27

Impact Protection: IK02 (Diffuser fastening: spring system)
IK03 (Diffuser fastening: bayonet fixing)

Base: plastic. Opal glass: mouth-blown, satin finish.

Diffuser fastening: spring system or bayonet fixing.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Ceiling and wall luminaires						Price Category 11
Diffuser fastening: spring system						
Glass D 250 mm						
211397.002.1	D 250, H 106	LED ⁽¹⁾	830	470	6	on/off
211397.002	D 250, H 106	LED ⁽¹⁾	840	480	6	on/off
211005.002 .Q	D 250, H 106	1 x E27® max. 60 W				
Glass D 300 mm						
211395.002	D 300, H 106	LED ⁽¹⁾	830	550	9	on/off
211395.002.1	D 300, H 106	LED ⁽¹⁾	840	580	9	on/off
211006.002 .Q	D 300, H 106	1 x E27® max. 75 W				
Glass D 370 mm						
211394.002 ***	D 370, H 118	LED	830	1200	11	on/off
211394.002.1 ***	D 370, H 118	LED	840	1250	11	on/off
211399.002 *	D 370, H 118	LED ⁽¹⁾	830	1150	13	on/off
211399.002.76 **	D 370, H 118	LED ⁽¹⁾	830	1150	13	DALI
211399.002.1 *	D 370, H 118	LED ⁽¹⁾	840	1150	13	on/off
211399.002.1.76 **	D 370, H 118	LED ⁽¹⁾	840	1150	13	DALI
211060.002	D 370, H 118	1 x E27® max. 100 W				
211059.002 .Q	D 370, H 118	2 x E27® max. 60 W				
Glass D 420 mm						
211400.002 *	D 420, H 124	LED ⁽¹⁾	830	1200	13	on/off
211400.002.76 **	D 420, H 124	LED ⁽¹⁾	830	1200	13	DALI
211400.002.1 *	D 420, H 124	LED ⁽¹⁾	840	1200	13	on/off
211400.002.1.76 **	D 420, H 124	LED ⁽¹⁾	840	1200	13	DALI
211011.002	D 420, H 124	2 x E27® max. 75 W				
Diffuser fastening: bayonet fixing						
Glass D 500 mm						
211401.002 *	D 500, H 150	LED ⁽¹⁾	830	2150	21	on/off
211401.002.76 **	D 500, H 150	LED ⁽¹⁾	830	2150	21	DALI
211401.002.1 *	D 500, H 150	LED ⁽¹⁾	840	2200	21	on/off
211401.002.1.76 **	D 500, H 150	LED ⁽¹⁾	840	2200	21	DALI
211071.002	D 500, H 150	3 x E27® max. 60 W				
Glass D 630 mm						
211425.002	D 630, H 160	LED ⁽¹⁾	830	2800	33	on/off
211425.002.76 **	D 630, H 160	LED ⁽¹⁾	830	3050	40	DALI
211425.002.1	D 630, H 160	LED ⁽¹⁾	840	2800	33	on/off
211425.002.1.76 **	D 630, H 160	LED ⁽¹⁾	840	3300	38	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%) | *** Dimmable versions are available on request

Price Category 11



Applies to versions with .76

Comparison LED vs. conventional lamps

LED 6 / 9 W ≈

1 x 13 W TC-D (19 W Psys)

LED 11 / 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 21 W ≈

2 x 26 W TC-D (68 W Psys)

LED 33 / 38 / 40 W ≈

3 x 26 W TC-D (102 W Psys)

Replacement glasses			Price Category 13
05-211005.002	D 250, H 96	for diffuser fastening: spring system	
05-211006.022	D 300, H 96	for diffuser fastening: spring system	
05-211059.002	D 370, H 108	for diffuser fastening: spring system	
05-211011.002	D 420, H 114	for diffuser fastening: spring system	
05-211071.002	D 500, H 129	for diffuser fastening: bayonet fixing	
05-211250.012	D 630, H 144	for diffuser fastening: bayonet fixing	



Ceiling and wall luminaires | Flat Basic with movement sensor

Type of Protection: **IP 43** ceiling mounting, **IP 44** wall mounting
Protection Class: I
Impact Protection: IK02
Base: plastic. Opal glass: mouth-blown, satin finish. Diffuser fastening: spring system.
Available colour: 2 = white



Functional parameters of the movement sensor installed on a ceiling at a height of max. 4 m or on a wall at a height of approx. 2.7 m:

- HF detector 5.8 GHz ISM frequency band
- Sensitivity/Range: 1-8 m in diameter (20-100%), adjustable
- Time control between 10 seconds and 30 minutes, adjustable
- Detection angle: 120°
- Can be used as master luminaire up to 800 W (ohmic load), 500 W (fluorescent lamp, LED) / 400 A, 200 µs
- Suitable for outdoor use to a limited extent only, as it is sensitive to all movements

Movement sensor luminaires are not compatible with AC movement sensor luminaires with 24 GHz technology (Master / Slave).

Reference number	Dimensions [mm]	Lamp		
Ceiling and wall luminaires with integrated movement sensor				Price Category 11
Glass D 370 mm				
211344.002.3.19	D 370, H 118	1 x E27* max. 60 W	Yes	
Glass D 420 mm				
211355.002.3.19	D 420, H 124	1 x E27* max. 60 W	Yes	
Replacement glasses				Price Category 13
05-211059.002	D 370, H 108	for diffuser fastening: spring system		
05-211011.002	D 420, H 114	for diffuser fastening: spring system		



The application image shows:
Flat Basic

Ceiling and wall luminaires | Flat Basic with movement sensor

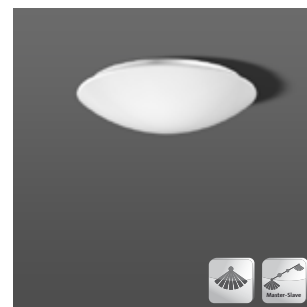
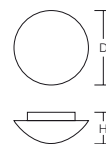
Type of Protection: **IP 43** ceiling mounting, **IP 44** wall mounting

Protection Class: I

Impact Protection: IK02

Base: plastic. Opal glass: mouth-blown, satin finish. Diffuser fastening: spring system.

Available colour: 2 = white



Applies to versions with .19

Functional parameters of a master luminaire with a ceiling height of approx. 2.8 m:


- HF detector 24 GHz with integrated corridor function
- Detection range approx. 130° radial
- Easy adjustment of functions via 3 associated push button switches
- Sensitivity/Range 0.5-5 m radial, adjustable from 10-100%
- Time control 1 second to 15 minutes in 8 different levels
- Daylight detection with 5 brightness levels and learning mode
- Up to 9 slave luminaires can be operated with one master luminaire (max. up to 150 W / 230 W)
- Suitable for outdoor use to a limited extent only, as it is sensitive to all movements

AC movement sensor luminaires with 24 GHz technology (Master / Slave) are not compatible with other movement sensor luminaires.

Comparison LED vs. conventional lamps

LED 13 W ≈
1 x 26 W TC-D (34 W Psys)

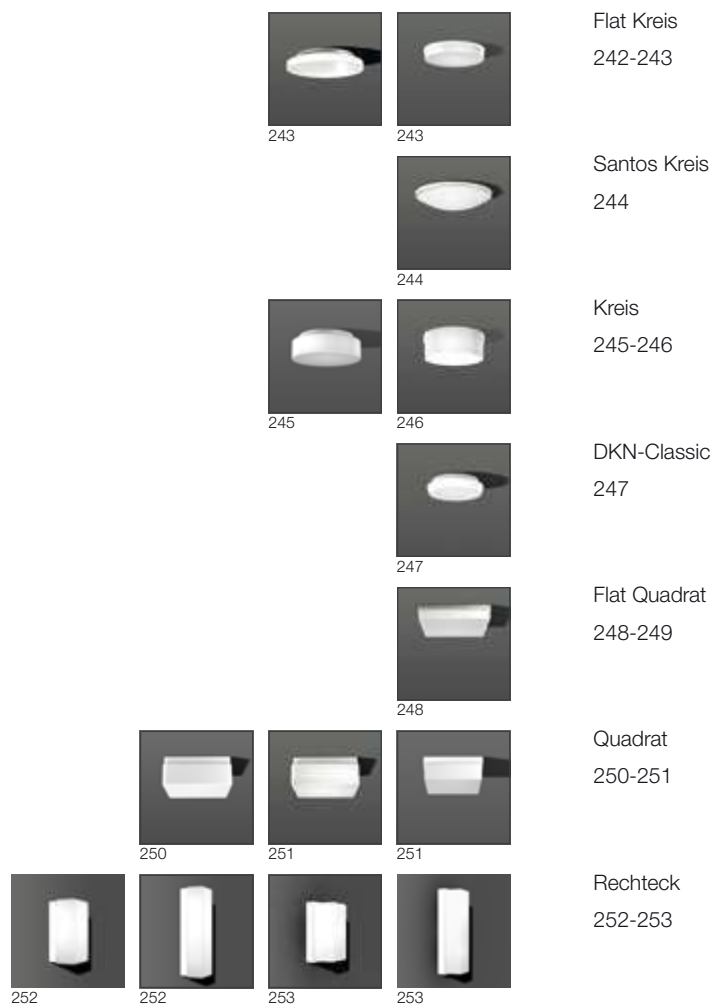


Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]		dim-able
Ceiling and wall luminaires with integrated movement sensor							
Glass D 370 mm							
211399.002.191	D 370, H 118	LED ⁽¹⁾	830	1150	13	Slave	on/off
211399.002.19	D 370, H 118	LED ⁽¹⁾	830	1150	13	Master	on/off
211399.002.1.191	D 370, H 118	LED ⁽¹⁾	840	1150	13	Slave	on/off
211399.002.1.19	D 370, H 118	LED ⁽¹⁾	840	1150	13	Master	on/off
Glass D 420 mm							
211400.002.191	D 420, H 124	LED ⁽¹⁾	830	1200	13	Slave	on/off
211400.002.19	D 420, H 124	LED ⁽¹⁾	830	1200	13	Master	on/off
211400.002.1.191	D 420, H 124	LED ⁽¹⁾	840	1200	13	Slave	on/off
211400.002.1.19	D 420, H 124	LED ⁽¹⁾	840	1200	13	Master	on/off

Replacement glasses			Price Category 13
05-211059.002	D 370, H 108	for diffuser fastening: spring system	
05-211011.002	D 420, H 114	for diffuser fastening: spring system	



The application image shows:
Flat Kreis Glas



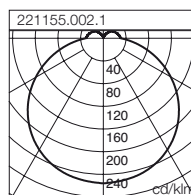


FLAT KREIS

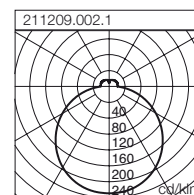
Ceiling and wall luminaires

- High protection type versions allow for outdoor applications; since it is proof against dust and insects - this luminaire is ideal for hard-to-access installations
- Mouth blown 3-layer opal glass (Triplex glass) with satin finish
- Triplex glass produces particularly homogeneous, soft and glare free lighting
- Diffuser fastening: spring system or bayonet fixing
- LED rated life 50,000 h (L70/B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)

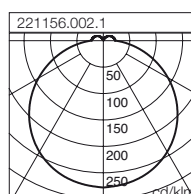
221155.002.1			
Floor 12 x 2,5 x 3m (0,2m)			
100 lx	150 lx	200 lx	
8	12	16	
Room 6 x 4 x 3 m (0,75 m)			
200 lx	300 lx	500 lx	
12	17	29	



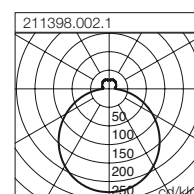
211209.002.1			
Floor 12 x 2,5 x 3m (0,2m)			
100 lx	150 lx	200 lx	
7	10	14	
Room 6 x 4 x 3 m (0,75 m)			
200 lx	300 lx	500 lx	
10	15	24	



221156.002.1			
Floor 12 x 2,5 x 3m (0,2m)			
100 lx	150 lx	200 lx	
6	8	11	
Room 6 x 4 x 3 m (0,75 m)			
200 lx	300 lx	500 lx	
8	12	19	



211398.002.1			
Floor 12 x 2,5 x 3m (0,2m)			
100 lx	150 lx	200 lx	
4	6	8	
Room 6 x 4 x 3 m (0,75 m)			
200 lx	300 lx	500 lx	
6	8	13	



Ceiling and wall luminaires | Flat Kreis Glas

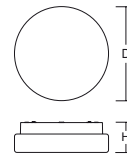
Type of Protection: **IP 43** ceiling mounting, **IP 44** wall mounting

Protection Class: I

Impact Protection: IK02 (Diffuser fastening: spring system)
IK03 (Diffuser fastening: bayonet fixing)

Base: plastic. Opal glass: mouth-blown, satin finish. Diffuser fastening: spring system or bayonet fixing.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						
Diffuser fastening: spring system						
Glass D 300 mm						
211209.002 *	D 300, H 75	LED ⁽¹⁾	830	1050	13	on/off
211209.002.76 **	D 300, H 75	LED ⁽¹⁾	830	1050	13	DALI
211209.002.1 *	D 300, H 75	LED ⁽¹⁾	840	1050	13	on/off
211209.002.1.76 **	D 300, H 75	LED ⁽¹⁾	840	1050	13	DALI
Diffuser fastening: bayonet fixing						
Glass D 500 mm						
211398.002 *	D 500, H 100	LED ⁽¹⁾	830	2100	21	on/off
211398.002.76 **	D 500, H 100	LED ⁽¹⁾	830	2100	21	DALI
211398.002.1 *	D 500, H 100	LED ⁽¹⁾	840	1900	21	on/off
211398.002.1.76 **	D 500, H 100	LED ⁽¹⁾	840	1900	21	DALI
Glass D 630 mm						
211426.002	D 630, H 110	LED ⁽¹⁾	830	2800	33	on/off
211426.002.76 **	D 630, H 110	LED ⁽¹⁾	830	3350	40	DALI
211426.002.1	D 630, H 110	LED ⁽¹⁾	840	2800	33	on/off
211426.002.1.76 **	D 630, H 110	LED ⁽¹⁾	840	3300	38	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Price Category 11



Comparison LED vs. conventional lamps

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 21 W ≈

2 x 26 W TC-D (68 W Psys)

LED 33 W ≈

3 x 26 W TC-D (102 W Psys)

LED 38 / 40 W ≈

4 x 26 W TC-D (136 W Psys)

Replacement glasses

Reference number	Dimensions [mm]	for diffuser fastening:
05-2003.002	D 300, H 59	spring system
05-2005.002	D 500, H 79	bayonet fixing
05-2007.002	D 630, H 89	bayonet fixing

Price Category 13

Ceiling and wall luminaires | Flat Kreis Kunststoff

Type of Protection: **IP 43** ceiling mounting, **IP 44** wall mounting

Protection Class: I

Impact Protection: IK08

Base: plastic. Diffuser: plastic (PMMA), opal. Diffuser fastening: spring system.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						
Diffuser D 262 mm						
221155.002 *	D 262, H 70	LED ⁽¹⁾	830	900	13	on/off
221155.002.76 **	D 262, H 70	LED ⁽¹⁾	830	900	13	DALI
221155.002.1 *	D 262, H 70	LED ⁽¹⁾	840	900	13	on/off
221155.002.1.76 **	D 262, H 70	LED ⁽¹⁾	840	900	13	DALI
Diffuser D 380 mm						
221156.002 *	D 380, H 78	LED ⁽¹⁾	830	1200	21	on/off
221156.002.76 **	D 380, H 78	LED ⁽¹⁾	830	1200	21	DALI
221156.002.1 *	D 380, H 78	LED ⁽¹⁾	840	1300	21	on/off
221156.002.1.76 **	D 380, H 78	LED ⁽¹⁾	840	1300	21	DALI
Diffuser D 537 mm						
221173.002	D 537, H 100	LED ⁽¹⁾	830	2350	33	on/off
221173.002.76 **	D 537, H 100	LED ⁽¹⁾	830	2850	40	DALI
221173.002.1	D 537, H 100	LED ⁽¹⁾	840	2350	33	on/off
221173.002.1.76 **	D 537, H 100	LED ⁽¹⁾	840	2850	38	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Price Category 11



Comparison LED vs. conventional lamps

LED 13 / 21 W ≈

1 x 26 W TC-D (34 W Psys)

LED 33 W ≈

2 x 26 W TC-D (68 W Psys)

LED 38 / 40 W ≈

3 x 26 W TC-D (102 W Psys)

Replacement diffusers

Reference number	Dimensions [mm]
08-221057.002	D 262, H 58
08-221061.002	D 380, H 60
08-221083.002	D 534, H 76

Price Category 13



Comparison LED vs. conventional lamps

LED 10 W ≈
1 x 18 W TC-D (26 W P_{sys})

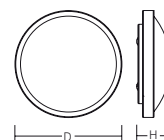
LED 19 W ≈
2 x 18 W TC-D (52 W P_{sys})

Ceiling and wall luminaires | Santos Kreis

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK00

Base: white coated metal. Glass: domed, opal, frosted. Decorative ring, metal.
Glass and decorative ring fastening: spring system.

Available colours (X): 42 = nickel brushed, 44 = chrome coloured



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						Price Category 11
Diameter D 310 mm						
311879.00X	D 310, H 87	LED	830	680	10	on/off
311879.00X.1	D 310, H 87	LED	840	680	10	on/off
311488.00X	D 310, H 87	1 x E27® max. 60 W				
Diameter D 410 mm						
311880.00X	D 410, H 95	LED	830	1550	19	on/off
311880.00X.1	D 410, H 95	LED	840	1550	19	on/off
311489.00X	D 410, H 95	2 x E27® max. 60 W				
Replacement glasses						Price Category 13
05-311488.012	D 300, H 60					
05-311489.012	D 400, H 70					



Ceiling and wall luminaires | Kreis

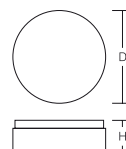
Type of Protection: **IP 43** ceiling mounting, **IP 44** wall mounting

Protection Class: I, II = E27

Impact Protection: IK02

Base: plastic. Opal glass: mouth-blown, satin finish. Diffuser fastening: spring system.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Ceiling and wall luminaires						Price Category 11
Glass D 230 mm						
211415.002	D 230, H 110	LED ⁽¹⁾	830	680	9	on/off
211415.002.1	D 230, H 110	LED ⁽¹⁾	840	720	9	on/off
21101.002	D 230, H 110	1 x E27® max. 75 W				
Glass D 280 mm						
211416.002 *	D 280, H 120	LED ⁽¹⁾	830	1150	13	on/off
211416.002.1 *	D 280, H 120	LED ⁽¹⁾	840	1200	13	on/off
21171.002	D 280, H 120	1 x E27® max. 100 W				
* Suitable for phase cut dimming (10-100%)						
Replacement glasses						Price Category 13
05-21101	D 230, H 95					
05-21102	D 280, H 99					

Price Category 11

Price Category 13

Comparison LED vs. conventional lamps

LED 9 W ≈

1 x 18 W TC-D (26 W Psys)

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)



Comparison LED vs. conventional lamps

LED 9 W ≈
1 x 18 W TC-D (26 W Psys)

LED 13 W ≈
1 x 26 W TC-D (34 W Psys)

Ceiling and wall luminaires | Kreis

Type of Protection: **IP 43** ceiling mounting, **IP 44** wall mounting
Protection Class: I, II = E27
Impact Protection: IK08

Base: plastic. Diffuser: plastic, opal, satin finish. Diffuser fastening: spring system.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Ceiling and wall luminaires						Price Category 11
Luminaire D 200 mm						
221168.002	D 200, H 100	LED ⁽¹⁾	830	680	9	on/off
221168.002.1	D 200, H 100	LED ⁽¹⁾	840	710	9	on/off
22141.002	D 200, H 100	1 x E27® max. 60 W				
Luminaire D 260 mm						
221169.002 *	D 260, H 110	LED ⁽¹⁾	830	1100	13	on/off
221169.002.1 *	D 260, H 110	LED ⁽¹⁾	840	1200	13	on/off
22150.00X	D 260, H 110	1 x E27® max. 100 W				
22142.002	D 260, H 110	2 x E27® max. 60 W				
* Suitable for phase cut dimming (10-100%)						
Replacement diffusers						Price Category 13
08-22141	D 201, H 88					
08-22142	D 262, H 88					



Ceiling and wall luminaires | DKN Classic

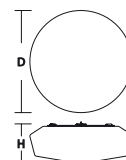
Type of Protection: **IP 40**

Protection Class: **I**

Impact Protection: **IK02**

Base: metal, galvanised. Opal glass: mouth blown, silk finish. Glass fastening: DKN system.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimm-able
Ceiling and wall luminaires						Price Category 11
Glass D 250 mm						
10122.002.1	D 250, H 105	LED ⁽¹⁾	830	440	6	on/off
10122.002	D 250, H 105	LED ⁽¹⁾	840	500	6	on/off
10120.002 .Q	D 250, H 105	1 x E27® max. 60 W				
Glass D 300 mm						
10138.002.1	D 300, H 115	LED ⁽¹⁾	830	940	12	on/off
10138.002	D 300, H 115	LED ⁽¹⁾	840	1100	12	on/off
10130.002	D 300, H 115	1 x E27® max. 75 W				
Replacement glasses						Price Category 13
05-10120	D 250, H 100					
05-10130	D 300, H 110					

Price Category 11

Price Category 13

Comparison LED vs. conventional lamps

LED 6 W ≈

1 x 13 W TC-D (19 W P_{sys})

LED 12 W ≈

1 x 26 W TC-D (34 W P_{sys})



Ceiling and wall luminaires | Flat Quadrat Kunststoff

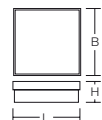
Type of Protection: **IP 43** ceiling mounting, **IP 44** wall mounting

Protection Class: I

Impact Protection: IK06

Base: plastic. Diffuser: plastic, opal, satin finish. Diffuser fastening: spring system.

Available colour: 2 = white



Comparison LED vs. conventional lamps

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 21 W ≈

2 x 18 W TC-D (52 W Psys)

LED 37 W ≈

2 x 26 W TC-T (58 W Psys)

LED 54 W ≈

2 x 42 W TC-TEL (90 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmm-able
Ceiling and wall luminaires						
Diffuser L 270 x B 270 mm						
221160.002 *	L 270, B 270, H 70	LED ⁽¹⁾	830	800	13	on/off
221160.002.1 *	L 270, B 270, H 70	LED ⁽¹⁾	840	790	13	on/off
Diffuser L 380 x B 380 mm						
221161.002 *	L 380, B 380, H 78	LED ⁽¹⁾	830	1500	21	on/off
221161.002.76 **	L 380, B 380, H 78	LED ⁽¹⁾	830	1500	21	DALI
221161.002.1 *	L 380, B 380, H 78	LED ⁽¹⁾	840	1500	21	on/off
221161.002.1.76 **	L 380, B 380, H 78	LED ⁽¹⁾	840	1500	21	DALI
221166.002	L 380, B 380, H 78	LED	830	2250	37	on/off
221166.002.1	L 380, B 380, H 78	LED	840	2300	37	on/off
Diffuser L 470 x B 470 mm						
221162.002	L 470, B 470, H 100	LED	830	3500	54	on/off
221162.002.76	L 470, B 470, H 100	LED	830	3500	54	DALI
221162.002.1	L 470, B 470, H 100	LED	840	3650	54	on/off
221162.002.1.76	L 470, B 470, H 100	LED	840	3650	54	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Replacement diffusers		Price Category 13	
08-221069.002	L 270, B 270, H 58		
08-221073.002	L 380, B 380, H 62		
08-221080.002	L 470, B 470, H 77		





Comparison LED vs. conventional lamps

LED 6 W ≈
1 x 13 W TC-D (19 W Psys)

LED 13 W ≈
1 x 26 W TC-D (34 W Psys)

Ceiling and wall luminaires | Quadrat

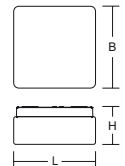
Type of Protection: **IP 43** ceiling mounting, **IP 44** wall mounting

Protection Class: I, II = E27

Impact Protection: IK02

Base: plastic. Opal glass: mouth-blown, satin finish. Diffuser fastening: spring system.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Ceiling and wall luminaires						Price Category 11
Glass L 240 x B 240 mm, round glass neck						
211410.002	L 240, B 240, H 110	LED ⁽¹⁾	830	440	6	on/off
211410.002.1	L 240, B 240, H 110	LED ⁽¹⁾	840	500	6	on/off
21128.002	L 240, B 240, H 110	1 x E27® max. 75 W				
Glass L 280 x B 280 mm, round glass neck						
211412.002 *	L 280, B 280, H 120	LED ⁽¹⁾	830	990	13	on/off
211412.002.1 *	L 280, B 280, H 120	LED ⁽¹⁾	840	1100	13	on/off
21129.002	L 280, B 280, H 120	2 x E27® max. 60 W				

* Suitable for phase cut dimming (10-100%)

Replacement glasses		Price Category 13				
05-21128	L 240, B 240, H 95					
05-21129	L 280, B 280, H 106					

Ceiling and wall luminaires | Quadrat

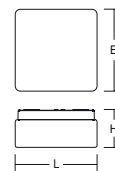
Type of Protection: **IP 43** ceiling mounting, **IP 44** wall mounting

Protection Class: I, II = E27

Impact Protection: IK02

Base: plastic. Opal glass: mouth blown, silk finish. Diffuser fastening: spring system.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able	
Ceiling and wall luminaires							Price Category 11
Glass L 240 x B 240 mm, round glass neck							
201410.002	L 240, B 240, H 110	LED ⁽¹⁾	830	440	6	on/off	
201410.002.1	L 240, B 240, H 110	LED ⁽¹⁾	840	500	6	on/off	
20128.002	L 240, B 240, H 110	1 x E27® max. 75 W					
Glass L 280 x B 280 mm, round glass neck							
201412.002 *	L 280, B 280, H 120	LED ⁽¹⁾	830	990	13	on/off	
201412.002.1 *	L 280, B 280, H 120	LED ⁽¹⁾	840	1100	13	on/off	
20172.002	L 280, B 280, H 120	1 x E27® max. 100 W					
20129.002	L 280, B 280, H 120	2 x E27® max. 60 W					

* Suitable for phase cut dimming (10-100%)

Replacement glasses						
05-20128	L 240, B 240, H 95					
05-20129	L 280, B 280, H 106					

Price Category 11

Price Category 13

Ceiling and wall luminaires | Quadrat

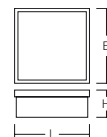
Type of Protection: **IP 43** ceiling mounting, **IP 44** wall mounting

Protection Class: I, II = E27

Impact Protection: IK08

Base: plastic. Diffuser: plastic, opal, satin finish. Diffuser fastening: spring system.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Ceiling and wall luminaires						Price Category 11
Luminaire L 226 x B 226 mm						
221164.002	L 226, B 226, H 110	LED ⁽¹⁾	830	450	6	on/off
221164.002.1	L 226, B 226, H 110	LED ⁽¹⁾	840	450	6	on/off
22146.002	L 226, B 226, H 110	1 x E27® max. 75 W				
Luminaire L 270 x B 270 mm						
221165.002 *	L 270, B 270, H 115	LED ⁽¹⁾	830	1000	13	on/off
221165.002.1 *	L 270, B 270, H 115	LED ⁽¹⁾	840	1050	13	on/off
22130.002	L 270, B 270, H 115	1 x E27® max. 100 W				
22148.002	L 270, B 270, H 115	2 x E27® max. 60 W				

* Suitable for phase cut dimming (10-100%)

Replacement diffusers						
08-22146	L 226, B 226, H 88					
08-22148	L 270, B 270, H 94					

Price Category 11

Price Category 13

Comparison LED vs. conventional lamps

LED 6 W ≈

1 x 13 W TC-D (19 W Psys)

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)

Comparison LED vs. conventional lamps

LED 6 W ≈

1 x 13 W TC-D (19 W Psys)

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)



Comparison LED vs. conventional lamps

LED 9 W ≈
1 x 18 W TC-D (26 W Psys)

Ceiling and wall luminaires | Rechteck

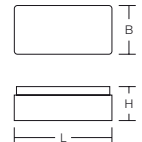
Type of Protection: **IP 43** ceiling mounting, **IP 44** wall mounting

Protection Class: I, II = E27

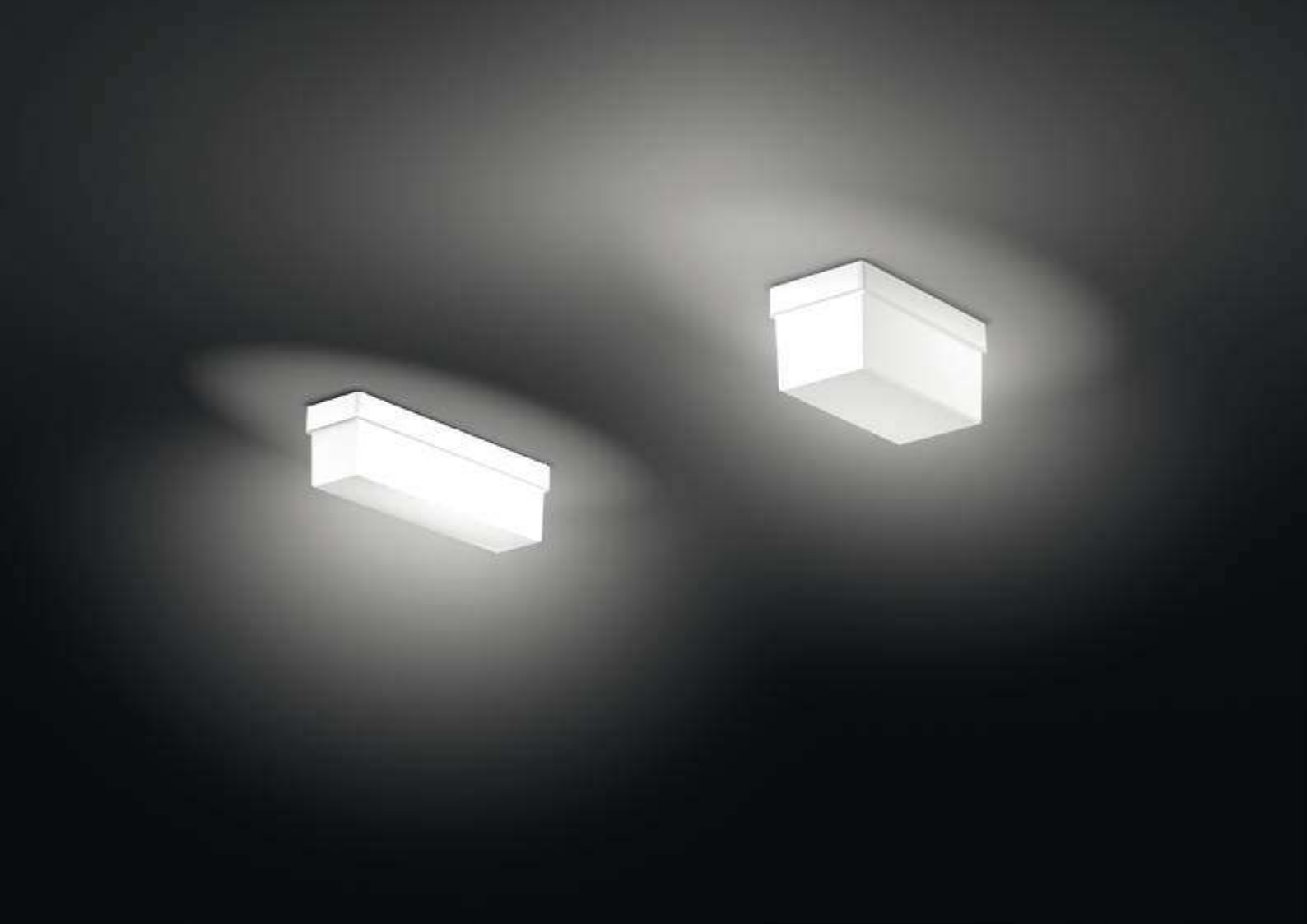
Impact Protection: IK02

Base: plastic. Opal glass: mouth-blown, satin finish. Diffuser fastening: spring system.

Available colour: 2 = white

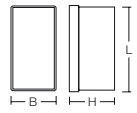


Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Ceiling and wall luminaires						Price Category 11
Glass L 220 x B 120 mm						
211421.002	L 220, B 120, H 105	LED	830	850	9	on/off
211421.002.1	L 220, B 120, H 105	LED	840	850	9	on/off
21146.002	L 220, B 120, H 105	1 x E27* max. 60 W				
Glass L 315 x B 85 mm						
211422.002	L 315, B 85, H 90	LED	830	900	9	on/off
211422.002.1	L 315, B 85, H 90	LED	840	900	9	on/off
Replacement glasses						Price Category 13
05-21136	L 225, B 120, H 82	Opal glass, satin finish				
05-21157	L 315, B 85, H 71	Opal glass, satin finish				



Ceiling and wall luminaires | Rechteck

Type of Protection: **IP 44**
 Protection Class: I, II = E14/E27
 Impact Protection: IK06
 Base: plastic. Diffuser: plastic, opal, satin finish. Diffuser fastening: spring system.
 Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Wall luminaires						Price Category 11
Luminaire L 215 x B 115 mm						
221170.002	L 215, B 115, H 110	LED	830	900	9	on/off
221170.002.1	L 215, B 115, H 110	LED	840	900	9	on/off
22144.002	L 215, B 115, H 110	1 x E27® max. 60 W				
Luminaire L 310 x B 80 mm						
221171.002	L 310, B 80, H 95	LED	830	800	9	on/off
221171.002.1	L 310, B 80, H 95	LED	840	800	9	on/off
22143.002	L 310, B 80, H 95	2 x E14® max. 25 W				
Replacement diffusers						Price Category 13
08-22144	L 215, B 115, H 86					
08-22243	L 310, B 80, H 74					

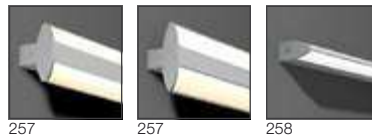


Comparison
LED vs. conventional lamps

LED 9 W ≈
 1 x 18 W TC-D (26 W Psys)



The application image shows:
Aluminium striplights



257

257

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Lavano | Lavano Wing
Lavano Uno
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RT 44
260-261

Baleva
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Polymero Long
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R40
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Strip-Light
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ISO and aluminium
striplights
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ISO lampholders
for linear lamps
269



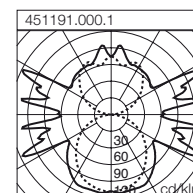
LAVANO®

Ceiling and wall luminaires

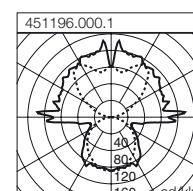
- Comprehensive range consisting of: Pendant luminaires, ceiling and wall luminaires
- The technical features of these luminaires with their LEDs and two diffusers for dual light direction guarantee high levels of visual comfort and lighting intensity

- Lavano Uno with single-side light output
- The special design of the diffuser generates brightly sparkling direct light along the contour of the ellipse
- LED rated life 50,000 h (L90/B10)

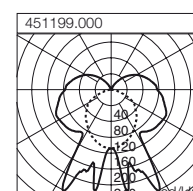
451191.000.1		
Floor 12 x 2,5 x 3 m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



451196.000.1		
Floor 12 x 2,5 x 3 m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



451199.000		
Floor 12 x 2,5 x 3 m (0,2m)		
100 lx	150 lx	200 lx
4	5	7
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	7	12



Further luminaires of this series, see:
Indoor lighting | Pendant luminaires

Ceiling and wall luminaires | Lavano

Type of Protection: **IP 40**

Protection Class: I

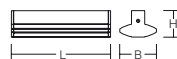
Impact Protection: IK02

Extruded aluminium profile base, lacquered. End caps aluminium, painted.

Diffuser: plastic, opal, allows for brilliant glittering light along the lines of the ellipse.

Available colours for decorative element: stainless steel, mirror finish (.0); aluminium, brushed (.1)

Available colour: 0 = white aluminium



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						
Length L 580 mm						
451189.000.0	L 580, B 109, H 80	LED	830	2350	23	on/off
451189.000.1	L 580, B 109, H 80	LED	830	2350	23	on/off
451189.000.0.76	L 580, B 109, H 80	LED	830	2350	23	DALI
451189.000.1.76	L 580, B 109, H 80	LED	830	2350	23	DALI
Length L 860 mm						
451190.000.0	L 860, B 109, H 80	LED	830	3800	35	on/off
451190.000.1	L 860, B 109, H 80	LED	830	3800	35	on/off
451190.000.0.76	L 860, B 109, H 80	LED	830	3800	35	DALI
451190.000.1.76	L 860, B 109, H 80	LED	830	3800	35	DALI
Length L 1140 mm						
451191.000.1	L 1140, B 109, H 80	LED	830	5150	47	on/off
451191.000.1.76	L 1140, B 109, H 80	LED	830	5150	47	DALI

Price Category 21

Two parallel diffusers with prismatic structure at the side for excellent light distribution.



Comparison LED vs. conventional lamps

LED 23 W ≈

1 x 36 W T26 (43 W Psys)

LED 35 W ≈

1 x 58 W T26 (67 W Psys)

LED 47 W ≈

1 x 80 W T16 (86 W Psys)

Ceiling and wall luminaires | Lavano Wing

Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK02

Extruded aluminium profile base, lacquered. End caps aluminium, painted.

Diffuser (tapering at the sides): plastic (PMMA), opal, allows for brilliant glittering light.

Available colours for decorative element: stainless steel, mirror finish (.0); aluminium, brushed (.1)

Available colour: 0 = white aluminium



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						
Length L 580 mm						
451194.000.0	L 580, B 150, H 80	LED	830	2550	23	on/off
451194.000.1	L 580, B 150, H 80	LED	830	2550	23	on/off
451194.000.0.76	L 580, B 150, H 80	LED	830	2550	23	DALI
451194.000.1.76	L 580, B 150, H 80	LED	830	2550	23	DALI
Length L 860 mm						
451195.000.0	L 860, B 150, H 80	LED	830	4150	35	on/off
451195.000.1	L 860, B 150, H 80	LED	830	4150	35	on/off
451195.000.0.76	L 860, B 150, H 80	LED	830	4150	35	DALI
451195.000.1.76	L 860, B 150, H 80	LED	830	4150	35	DALI
Length L 1140 mm						
451196.000.1	L 1140, B 150, H 80	LED	830	5700	47	on/off
451196.000.1.76	L 1140, B 150, H 80	LED	830	5700	47	DALI

Price Category 21

The conical diffusers generate a brightly sparkling amount of direct light along the contour of the ellipse.



Comparison LED vs. conventional lamps

LED 23 W ≈

1 x 36 W T26 (43 W Psys)

LED 35 W ≈

1 x 58 W T26 (67 W Psys)

LED 47 W ≈

1 x 80 W T16 (86 W Psys)



Comparison
LED vs. conventional lamps

LED 13 W ≈
1 x 15 W T26 (23 W Psys)

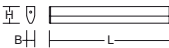
LED 23 W ≈
1 x 36 W T26 (43 W Psys)

Ceiling and wall luminaires | Lavano Uno

Type of Protection: **IP 40**
Protection Class: I
Impact Protection: IK02

Extruded aluminium profile base, lacquered. End caps aluminium, painted.
Diffuser: plastic, opal, allows for brilliant glittering light along the lines of the ellipse.

Available colour: 0 = white aluminium



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						
Price Category 21						
Length L 580 mm						
451198.000	L 580, B 40, H 83	LED	830	1250	13	on/off
451198.000.76	L 580, B 40, H 83	LED	830	1250	13	DALI
Length L 1140 mm						
451199.000	L 1140, B 40, H 83	LED	830	2500	23	on/off
451199.000.76	L 1140, B 40, H 83	LED	830	2500	23	DALI

Light colour 840 on request.



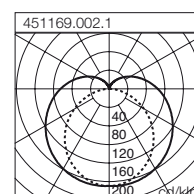
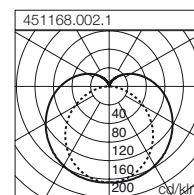




RT 44

Linear light fittings

- Timeless design
- Very easy installation thanks to plug & play connection
- High degree of protection: IP 44 for use in wet areas
- Basic luminaire measuring 600 mm is the ideal size for mirrors
- Can be installed horizontally and vertically
- LED rated life 50,000 h (L70/B10)



Linear light fittings | RT 44

Type of Protection: **IP 44**, IP 21, if European flat plugs are used

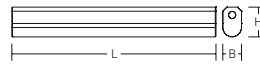
Protection Class: I

Impact Protection: IK03

Base: metal, powder-coated. Diffuser: plastic (polycarbonate), opal.

End caps: plastic (polycarbonate), shock-resistant.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 11
Wall and mirror luminaires							
451168.002 .Q	L 600, B 55, H 87	LED	830	920	10	on/off	
451168.002.1	L 600, B 55, H 87	LED	840	970	10	on/off	
451169.002	L 900, B 55, H 87	LED	830	1400	15	on/off	
451169.002.1	L 900, B 55, H 87	LED	840	1500	15	on/off	
with push button switch and Schukoplug socket							
451174.002	L 721, B 55, H 87	LED	830	920	10	on/off	
451174.002.1	L 721, B 55, H 87	LED	840	970	10	on/off	
451175.002	L 1021, B 55, H 87	LED	830	1400	15	on/off	
451175.002.1	L 1021, B 55, H 87	LED	840	1500	15	on/off	

Comparison LED vs. conventional lamps

LED 10 W ≈

1 x 24 W T16 (26 W Psys)

LED 15 W ≈

1 x 36 W T26 (43 W Psys)



Push button switch



Schukoplug socket

Linear light fittings | RT 44 with movement sensor

Type of Protection: **IP 44**

Protection Class: I

Impact Protection: IK02

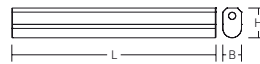
Base: metal, powder-coated. Diffuser: plastic (polycarbonate), opal.

End caps: plastic (polycarbonate), shock-resistant.

Available colour: 2 = white

Functional parameters of the IR movement sensor installed on a ceiling at a height of max. 4 m or on a wall at a height of approx. 2.7 m.

- Range 1-8 m, diameter, adjustable
- Time control approx. 1 - 30 minutes, adjustable
- Range: horizontal 360° and vertical approx. 110°



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 11
Wall and mirror luminaires with integrated movement sensor							
451168.002.19	L 657, B 55, H 87	LED	830	920	10	on/off	
451168.002.1.19	L 657, B 55, H 87	LED	840	970	10	on/off	



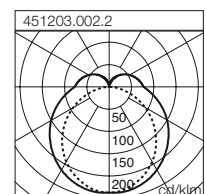
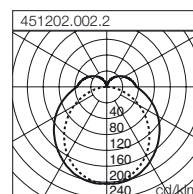
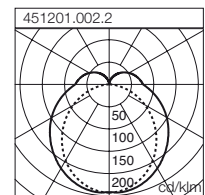
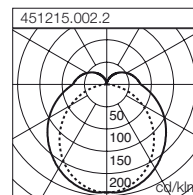
Movement sensor



BALEVA®

Ceiling and wall luminaires

- Timeless and functional design
- **MultiColour:** colour temperature variable via rear switching element
- Soft and homogeneous illumination through opal diffuser
- High protection class IP 44 (wall mounting) for use in wet areas
- Quick and easy to install
- 2 central cable inlets for looping the cable
- Diffuser can be assembled without the use of tools
- Horizontal and vertical mounting allows you to find a suitable solution for most applications
- LED rated life 50,000 h (L80/B10)
- Ideal for sanitary areas, corridors, waiting areas, nursing homes, patient rooms



Ceiling and wall luminaires | Baleva

Type of Protection: **IP 40** Ceiling mounting, **IP 44** wall mounting

Protection Class: II

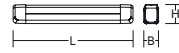
Impact Protection: IK07

Body and end caps made of white plastic. Diffuser: plastic, opal.

Converter integrated and encapsulated.

Available colour: 2 = white

Multicolour function: colour temperature variable via rear switching element. Factory-set to 4000 K.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 11
Linear luminaires							
451215.002.2 *	L 500, B 46, H 60	LED	830, 840	950	9	on/off	
451201.002.2 .Q*	L 600, B 46, H 60	LED	830, 840	1050	10	on/off	
451202.002.2 *	L 900, B 46, H 60	LED	830, 840	1550	15	on/off	
451203.002.2 *	L 1200, B 46, H 60	LED	830, 840	2100	19	on/off	

* **MultiColour version:** luminous flux and system power can vary depends on the light color. You will find more detailed information on www.rzb-lighting.com.

Comparison LED vs. conventional lamps

LED 9 / 10 W ≈

1 x 21 W T16 (24 W Psys)

LED 15 W ≈

1 x 28 W T16 (31 W Psys)

LED 19 W ≈

1 x 39 W T16 (42 W Psys)



DALI



Comparison LED vs. conventional lamps

LED 21 W ≈
1 x 24 W T16 (26 W Psys)

LED 28 W ≈
1 x 39 W T16 (42 W Psys)

LED 40 W ≈
1 x 54 W T16 (58 W Psys)

LED 49 W ≈
1 x 80 W T16 (86 W Psys)

Ceiling and wall luminaires | Polymero Long

Type of Protection: IP 20

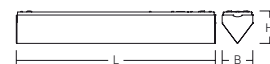
Protection Class: I

Impact Protection: IK02

Housing: sheet steel, powder-coated. Diffuser: frosted PMMA plastic, with prisms.

Diffuser fastening: spring system.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						
Length L 585 mm						
312128.002	L 585, B 90, H 102	LED	830	2400	21	on/off
312128.002.76	L 585, B 90, H 102	LED	830	2400	21	DALI
312128.002.1	L 585, B 90, H 102	LED	840	2500	21	on/off
312128.002.1.76	L 585, B 90, H 102	LED	840	2500	21	DALI
Length L 885 mm						
312129.002	L 885, B 90, H 102	LED	830	3450	28	on/off
312129.002.76	L 885, B 90, H 102	LED	830	3450	28	DALI
312129.002.1	L 885, B 90, H 102	LED	840	3600	28	on/off
312129.002.1.76	L 885, B 90, H 102	LED	840	3600	28	DALI
Length L 1185 mm						
312130.002	L 1185, B 90, H 102	LED	830	4800	40	on/off
312130.002.76	L 1185, B 90, H 102	LED	830	4800	40	DALI
312130.002.1	L 1185, B 90, H 102	LED	840	5000	40	on/off
312130.002.1.76	L 1185, B 90, H 102	LED	840	5000	40	DALI
Length L 1485 mm						
312131.002	L 1485, B 90, H 102	LED	830	5900	49	on/off
312131.002.76	L 1485, B 90, H 102	LED	830	5900	49	DALI
312131.002.1	L 1485, B 90, H 102	LED	840	6150	49	on/off
312131.002.1.76	L 1485, B 90, H 102	LED	840	6150	49	DALI

Price Category 11



Linear light fittings | R40

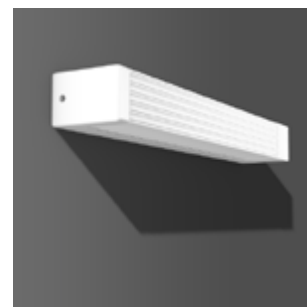
Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK02

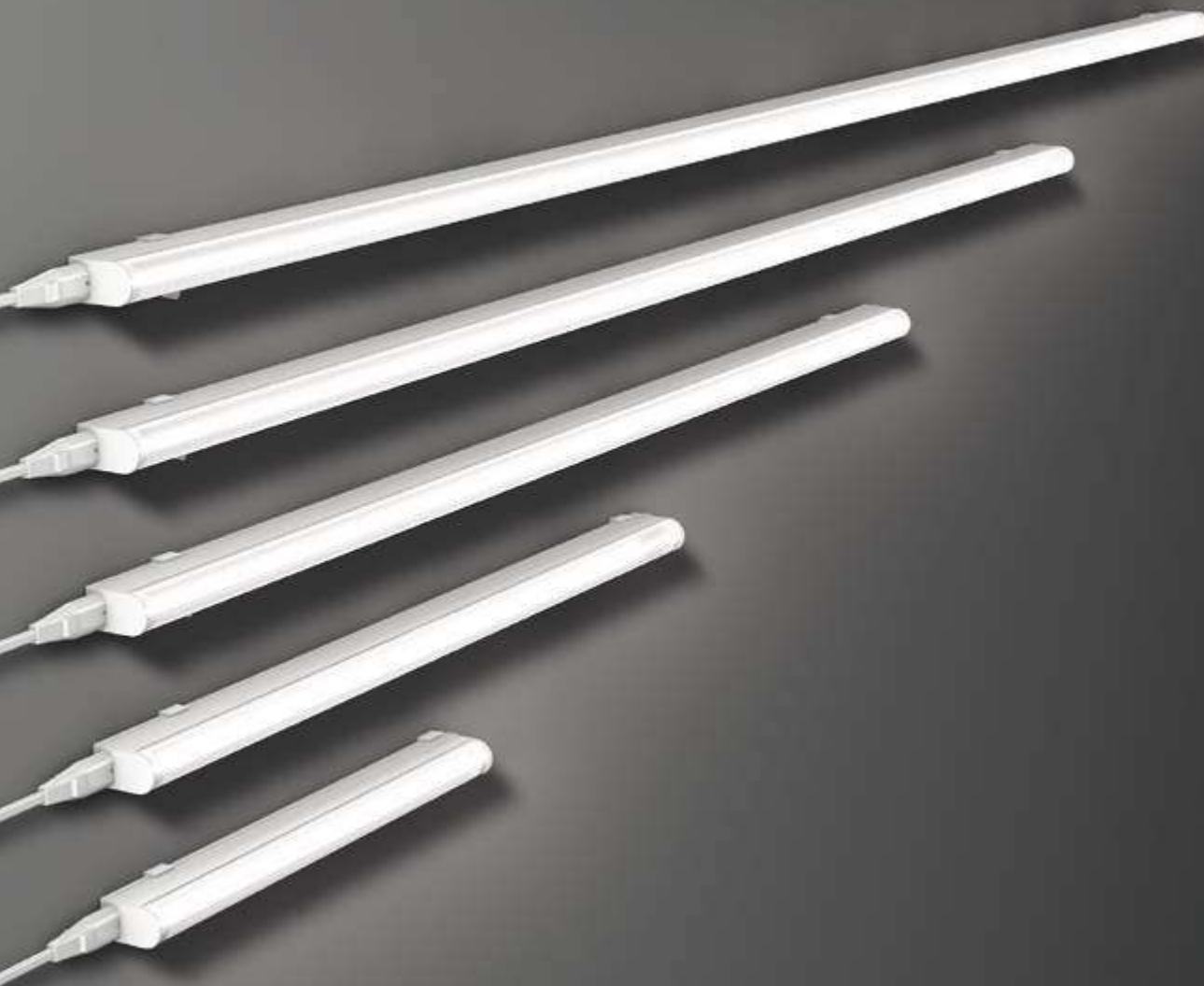
Base: plastic. Opal glass: mouth blown, silk finish.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Price Category 11
Linear luminaires			
40120.002.1	L 315, B 55, H 80	2 x E14 [®] max. 40 W	
40130.002.1	L 457, B 55, H 80	3 x E14 [®] max. 40 W	
with push button switch			
40122.002.1	L 315, B 55, H 80	2 x E14 [®] max. 40 W	
40132.002.1	L 457, B 55, H 80	3 x E14 [®] max. 40 W	
with Schukoplug socket			
40123.002.1	L 355, B 55, H 80	2 x E14 [®] max. 40 W	
40133.002.1	L 500, B 55, H 80	3 x E14 [®] max. 40 W	
with push button switch and Schukoplug socket			
40125.002.1	L 355, B 55, H 80	2 x E14 [®] max. 40 W	
40135.002.1	L 500, B 55, H 80	3 x E14 [®] max. 40 W	

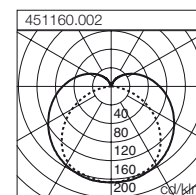
Replacement glasses	Price Category 13	
05-40120	for lengths 315 mm and 355 mm	
05-40130	for lengths 457 mm and 500 mm	



STRIP-LIGHT

Ceiling and wall luminaires

- Universally suitable for store lighting, vault lighting, kitchen and bathroom lighting
- Excellent light distribution thanks to prismatic lamp cover
- Easy to mount with clips
- Suitable for light channel (12 luminaires) and furniture lighting
- Suitable for mounting on or in furniture
- Included in delivery: 1.80 m power cable, 150 mm connecting cable, straight rigid coupling and 2 brackets each for wall and ceiling mounting
- LED rated life 25,000 h (L70/B50)



Ceiling and wall luminaires | Strip-Light LED

Type of Protection: IP 20

Protection Class: II

Impact Protection: IK02

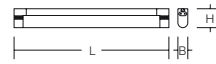
Base: plastic. Diffuser: transparent plastic, prismatic. Connecting cables for through-wiring without tools. With rocker switch.

Suitable for mounting on or into furniture.

Included in delivery: 1.80 m power supply cable, 150 mm connecting cable, straight rigid coupling and 2 brackets each for wall and ceiling mounting.

Max. 12 luminaires can be mounted as a light channel.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 11
Linear luminaires							
Length L 275 mm							
451156.002	L 275, B 23, H 37	LED	830	380	4	on/off	
451156.002.1	L 275, B 23, H 37	LED	840	420	4	on/off	
Length L 503 mm							
451157.002	L 503, B 23, H 37	LED	830	680	7	on/off	
451157.002.1	L 503, B 23, H 37	LED	840	740	7	on/off	
Length L 536 mm							
451181.002	L 536, B 23, H 37	LED	830	800	8	on/off	
451181.002.1	L 536, B 23, H 37	LED	840	900	8	on/off	
Length L 836 mm							
451158.002	L 836, B 23, H 37	LED	830	1200	13	on/off	
451158.002.1	L 836, B 23, H 37	LED	840	1250	13	on/off	
Length L 1136 mm							
451159.002 .Q	L 1136, B 23, H 37	LED	830	1750	18	on/off	
451159.002.1	L 1136, B 23, H 37	LED	840	1850	18	on/off	
Length L 1436 mm							
451160.002	L 1436, B 23, H 37	LED	830	2100	22	on/off	
451160.002.1	L 1436, B 23, H 37	LED	840	2400	22	on/off	
Accessories							Price Category 11
981464.002	L 300	Connecting cable					
981466.002	L 600	Connecting cable					
981467.002	L 900	Connecting cable					
981457.002	L 1800	Power supply cable (Europlug with socket)					

Comparison LED vs. conventional lamps

LED 4 W ≈

1 x 13 W T16 (15 W Psys)

LED 7 W ≈

1 x 14 W T16 (18 W Psys)

LED 8 W ≈

1 x 21 W T16 (24 W Psys)

LED 13 W ≈

1 x 24 W T16 (26 W Psys)

LED 18 W ≈

1 x 35 W T16 (38 W Psys)

LED 22 W ≈

1 x 39 W T16 (42 W Psys)





Striplights | Set of ISO striplights with LED lamp

Type of Protection: **IP 40**

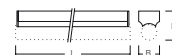
Protection Class: II

Impact Protection: IK02

Base: plastic. With push button switch. **LED lamp included.**

Lamp contacts disconnection during lamp replacement.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Striplights						Price Category 11
411015.002.1	L 300, B 35, H 58	LED	827	400	5	on/off
411016.002.1	L 500, B 35, H 58	LED	827	610	8	on/off



Striplights | Set of aluminium striplights with LED lamp

Type of Protection: **IP 40**

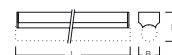
Protection Class: I

Impact Protection: IK02

Base: aluminium extrusion profile. End caps: plastic. With push button switch.

LED lamp included. Lamp contacts disconnection during lamp replacement.

Available colour: 4 = aluminium, anodised



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Striplights						Price Category 11
411017.004.1	L 300, B 35, H 58	LED	827	390	5	on/off
411018.004.1	L 500, B 35, H 58	LED	827	620	8	on/off
411019.004.1	L 1000, B 35, H 58	LED	827	1200	16	on/off

Striplights | ISO striplights for linear lamps

Type of Protection: **IP 40**

Protection Class: II

Impact Protection: IK02

Base: plastic. Lamp contacts disconnection during lamp replacement.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	dimmable
Striplights			Price Category 11
without push button switch			
41110.002.1	L 300, B 35, H 58	1 x L-DE 35 W	on/off
41120.002.1	L 500, B 35, H 58	1 x L-DE 60 W	on/off
with push button switch			
41111.002.1	L 300, B 35, H 58	1 x L-DE 35 W	on/off
41121.002.1	L 500, B 35, H 58	1 x L-DE 60 W	on/off

Striplights | Aluminium striplights for linear lamps

Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK02

Base: aluminium, powder-coated / anodised. End caps: plastic.

Lamp contacts disconnection during lamp replacement.

Available colours (X): 2 = white, 4 = aluminium, anodised



Reference number	Dimensions [mm]	Lamp	dimmable
Striplights			Price Category 11
without push button switch			
41530.00X	L 300, B 35, H 58	1 x L-DE 35 W	on/off
41510.00X	L 500, B 35, H 58	1 x L-DE 60 W	on/off
41520.00X	L 1000, B 35, H 58	1 x L-DE 120 W	on/off
with push button switch			
41531.00X	L 300, B 35, H 58	1 x L-DE 35 W	on/off
41511.00X	L 500, B 35, H 58	1 x L-DE 60 W	on/off
41521.00X	L 1000, B 35, H 58	1 x L-DE 120 W	on/off

ISO lampholders for linear lamps

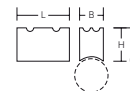
Type of Protection: **IP 20**

Protection Class: II

Impact Protection: IK02

Individual lampholder. Without strain relief for connecting cable.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	dimmable
Individual lampholder			Price Category 11
for lamps with central sockets			
41401.002	L 60, B 23, H 38	1 x L 35 W (S14d)	on/off
Individual lampholder (pair)			Price Category 11
for lamps with sockets at both ends			
41402.002	L 60, B 23, H 38	1 x L-DE 35/60/120 W (S14s)	on/off

LED linear lamp			Price Category 11
single socket S14d			
10-2334	L 300, D 30	LED L, 300 lm, 5 W, 2700 K, A+	
10-2335	L 500, D 30	LED L, 500 lm, 8 W, 2700 K, A+	
double socket S14s			
10-2331	L 300, D 30	LED L-DE, 300 lm, 5 W, 2700 K, A+	
10-2332	L 500, D 30	LED L-DE, 500 lm, 8 W, 2700 K, A+	
10-2333	L 1000, D 30	LED L-DE, 1000 lm, 16 W, 2700 K, A	

Comparison LED vs. conventional lamps

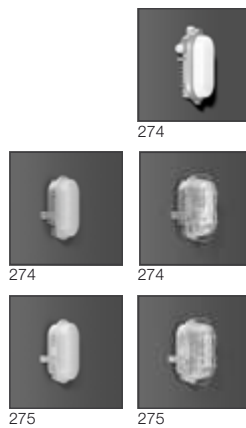
LED 5 W ≈
1 x 8 W T16 (11 W Psys)

LED 8 W ≈
1 x 13 W T16 (15 W Psys)

LED 16 W ≈
1 x 24 W T16 (26 W Psys)



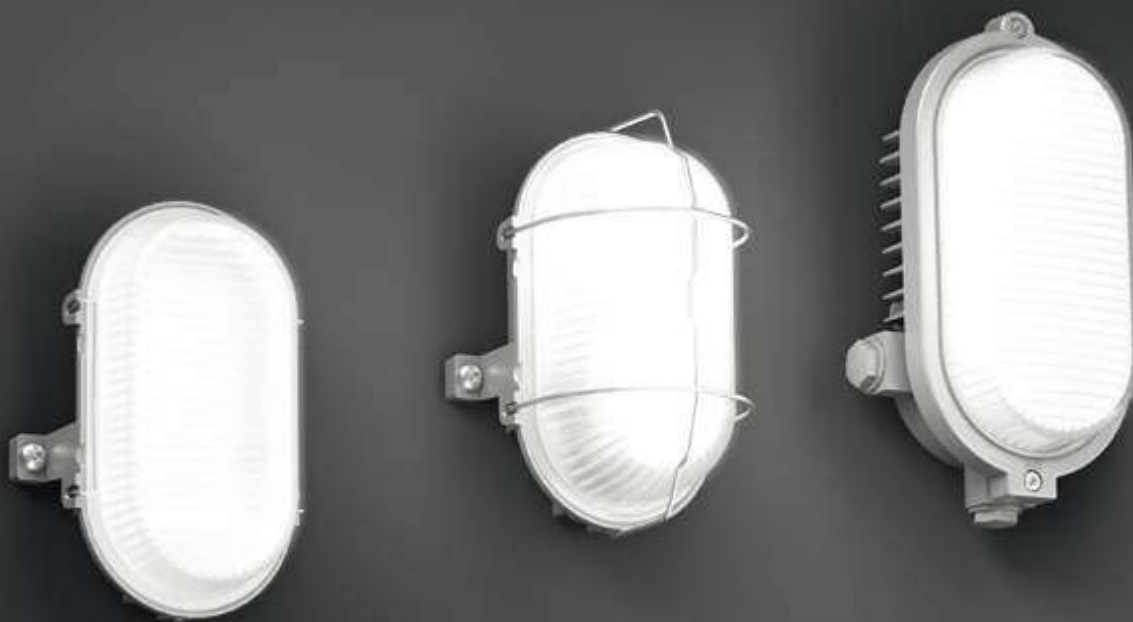
The application image shows:
Alu-Standard LED



Areno
272, 274

Alu oval bulkheads
272, 274

Plastic oval bulkheads
272, 275



OVAL BULKHEAD LUMINAIRES

Die-cast aluminium oval bulkhead luminaires, Oval bulkhead luminaires, plastic

- A reinterpretation of the oval bulkhead luminaire – a classic with a new design
- Diffuser made of textured tempered crystal glass
- Full-surface homogeneous illumination
- Replaceable LED unit
- LED rated life 35,000 h (L70/B50)
- Suitable for use in harsh environments





Die-cast aluminium oval bulkhead luminaires | Areno

Type of Protection: **IP 66**

Protection Class: I

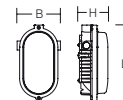
Impact Protection: IK03

High-quality housing made of pressure die-cast aluminium, powder coated.

Diffuser: textured tempered crystal glass, coated white on one side. Full-surface homogeneous illumination. Bezel ring: powder coated die-cast aluminium, screwed on the luminaire.

Drill holes at the inside, with silicone. With three cable inlets: M20x1.5. Replaceable LED unit.

Available colour: 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 11
501047.004	L 227, B 141, H 87	LED	840	500	8,5	on/off	



Die-cast aluminium oval bulkhead luminaires | Alu-Standard LED

Type of Protection: **IP 66**

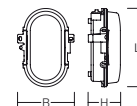
Protection Class: I

Impact Protection: IK04

Robust housing: pressure die-cast aluminium, powder coated. Diffuser: textured tempered crystal glass, opal. Diffuser attached with lateral spring clips. Full-surface homogeneous illumination.

Speedy installation thanks to external fastening clips. Three cable inlets. Replaceable LED unit.

Available colour: 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 11
501045.004	L 171, B 123, H 70	LED	840	740	8,5	on/off	



Die-cast aluminium oval bulkhead luminaires | Alu-Standard E27

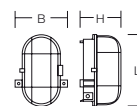
Type of Protection: **IP 44**

Protection Class: I

Impact Protection: IK04

Robust housing: pressure die-cast aluminium, powder coated. Diffuser: textured tempered crystal glass, transparent. Protective guard: steel wire, galvanised. Mounting of the diffuser by means of snap fasteners. Speedy installation thanks to external fastening clips. Three cable inlets.

Available colour: 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Price Category 11
501046.004	L 176, B 122, H 110	1 x E27* max. 60 W	

Oval bulkhead luminaires, plastic | Standard LED

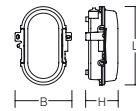
Type of Protection: **IP 43** ceiling mounting, **IP 44** wall mounting

Protection Class: I

Impact Protection: IK04

Housing: plastic. Diffuser: textured tempered crystal glass, opal. Diffuser attached with lateral spring clips. Full-surface homogeneous illumination. Speedy installation thanks to external fastening clips. Three cable inlets. Replaceable LED unit.

Available colour: 9 = grey



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						Price Category 11
501044.009	L 171, B 123, H 70	LED	840	740	8,5	on/off

Oval bulkhead luminaires, plastic | Standard E27

Type of Protection: **IP 44**

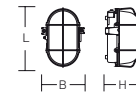
Protection Class: II

Impact Protection: IK04

Housing: plastic. Diffuser: textured tempered crystal glass, transparent. Protective guard: steel wire, galvanised. Mounting of the diffuser by means of snap fasteners. Speedy installation thanks to external fastening clips. Three cable inlets.

The lampholder must be pointed downwards for wall mounting (lamp upright).

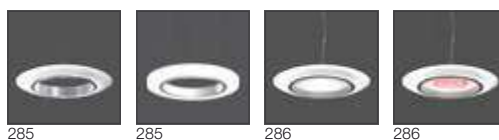
Available colour: 9 = grey



Reference number	Dimensions [mm]	Lamp
Ceiling and wall luminaires		
50500.009.1 .Q	L 176, B 122, H 110	1 x E27* max. 60 W

Price Category 11

Ring of Fire
282-287



Sidelite Ellipsoid
288-289



Scapha
290-291



Flat Slim
292-295



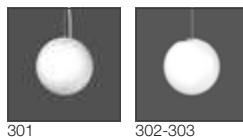
Flat Slim+
296-297

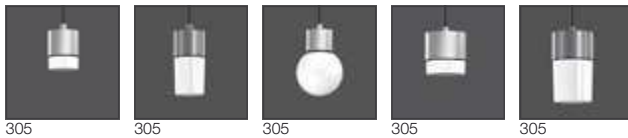


Douala
298-299



Basic Ball
300-303





305

305

305

305

305

Cyllo
304-305



307

Glasdownlight
307



309-310



311

Deecos P
308-311



313

Toledo Flat
312-313



315



318



319

Flat Polymero Kreis
314-319



322



323

Flat Polymero
320-323



324

Less is more 27 Kristall
324-325



327



327



327

Lavano
326-327

DECORATIVE BUILT-IN PENDANT SET

At a glance

Flush-integrated ceiling connection for pendant luminaires

Minimalist ceiling outlets create new possibilities for elegantly hanging pendant luminaires. Suspension and electrical connection are reduced to just 28 mm and integrated flush into the ceiling.

The canopy outlet not only improves the aesthetics of the room but is also very user friendly and easy to install.

Design: Georg Bechter Licht, Langenegg | AT

Available for



Deecos P
309, 311



TWINDOT K
83



EXPOSED CONCRETE CAPSULE 28

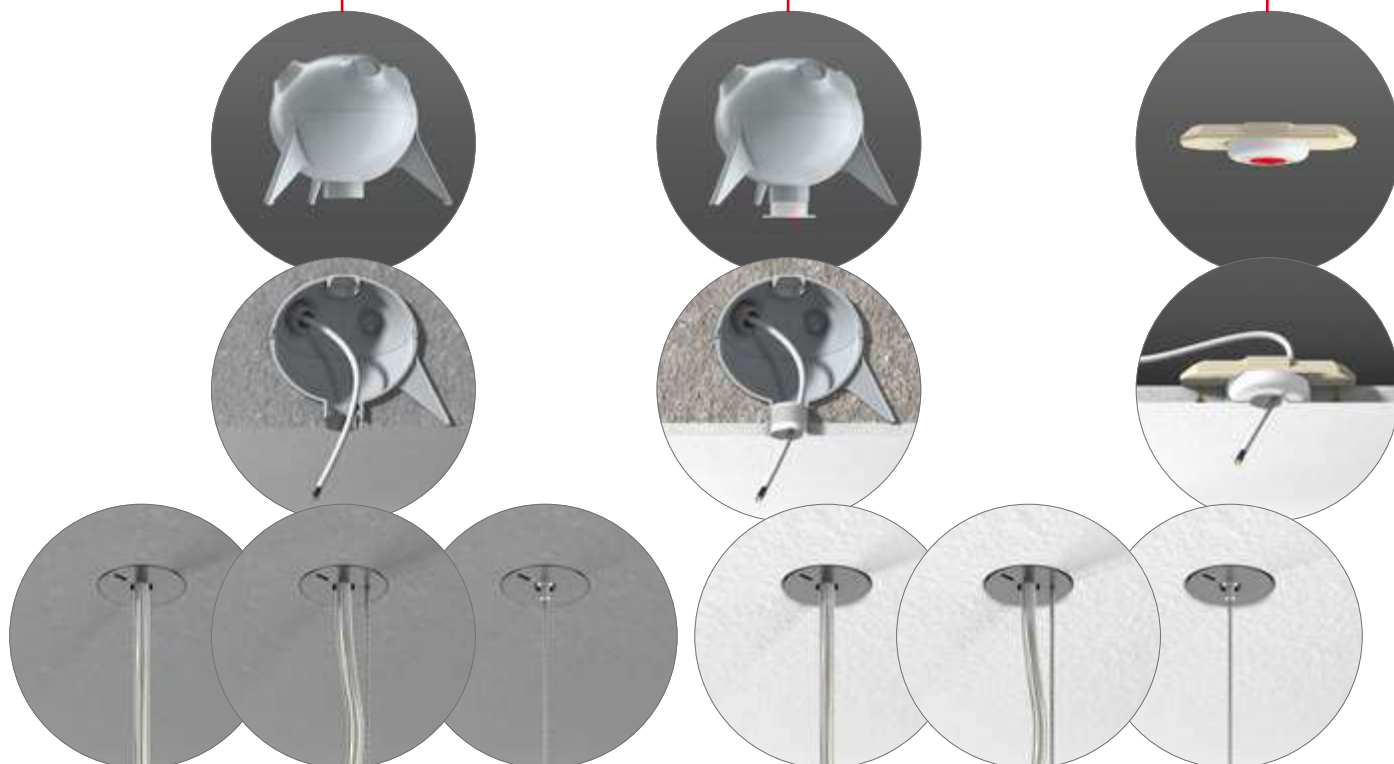
The concrete capsule can be placed on the formwork simply and practically without the use of tools. The distance between the capsule neck and the front edge of the concrete means the capsule remains invisible.

PLASTER CAPSULE 28 (for concrete ceilings to be plastered)

The plaster capsule can be adjusted to the desired plaster or filler thickness with the help of the plaster ring.

FILLER INSERT 28 (for suspended ceilings)

The filler insert can be threaded into a standard 68-mm hole, screwed on and filled.





M1:1

Canopy outlet
The frameless
ceiling connection
for every pendant
luminaire in original size.

The application image shows:
Standard canopy and
decorative recessed pendant
set for Deecos P pendant luminaires

MURANO GLASS

VENICE LEGEND

The venetian art of glassmaking is considered legendary to this day. Pioneers of this craft, like the world famous company Ferro from Murano, have been keeping this tradition carefully over many generations and share their know-how advisedly selected. The cooperation of the old master Guido Ferro and RZB unite the venetian art of glassmaking and the high standards in design and technology of RZB; it is cross-border appreciation and synergy at the same time. The result is a liaison between glass and light that definitely can be regarded as epic work.

More than 700 years of craftsmanship, tradition and passion "a la Ferro" make each of the hand-blown glass panels a touchingly beautiful individual item. Each millimetre of this "levitating" circle is steeped in light; the seamless, almost playful colouring of the Murano glass is brought to life in a fascinating way. Great designing skills, construction expertise that has been perfected over decades and pathbreaking LED technology were required to create such even light control and luminance. Through this, the quality and substance of RZB LUMINAIRES FerroMurano are rationally explained - but not its almost magic aesthetics. It remains a secret.

Each legend lives through one...

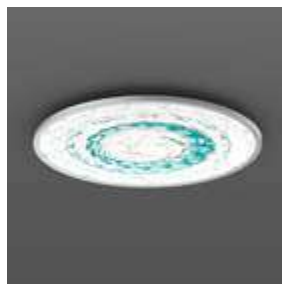


Luminaires with glass FerroMurano:



Triona FerroMurano
Surface mounted modular
luminaires

Page 61



Sidelite Round FerroMurano
Surface mounted modular
luminaires

Page 67



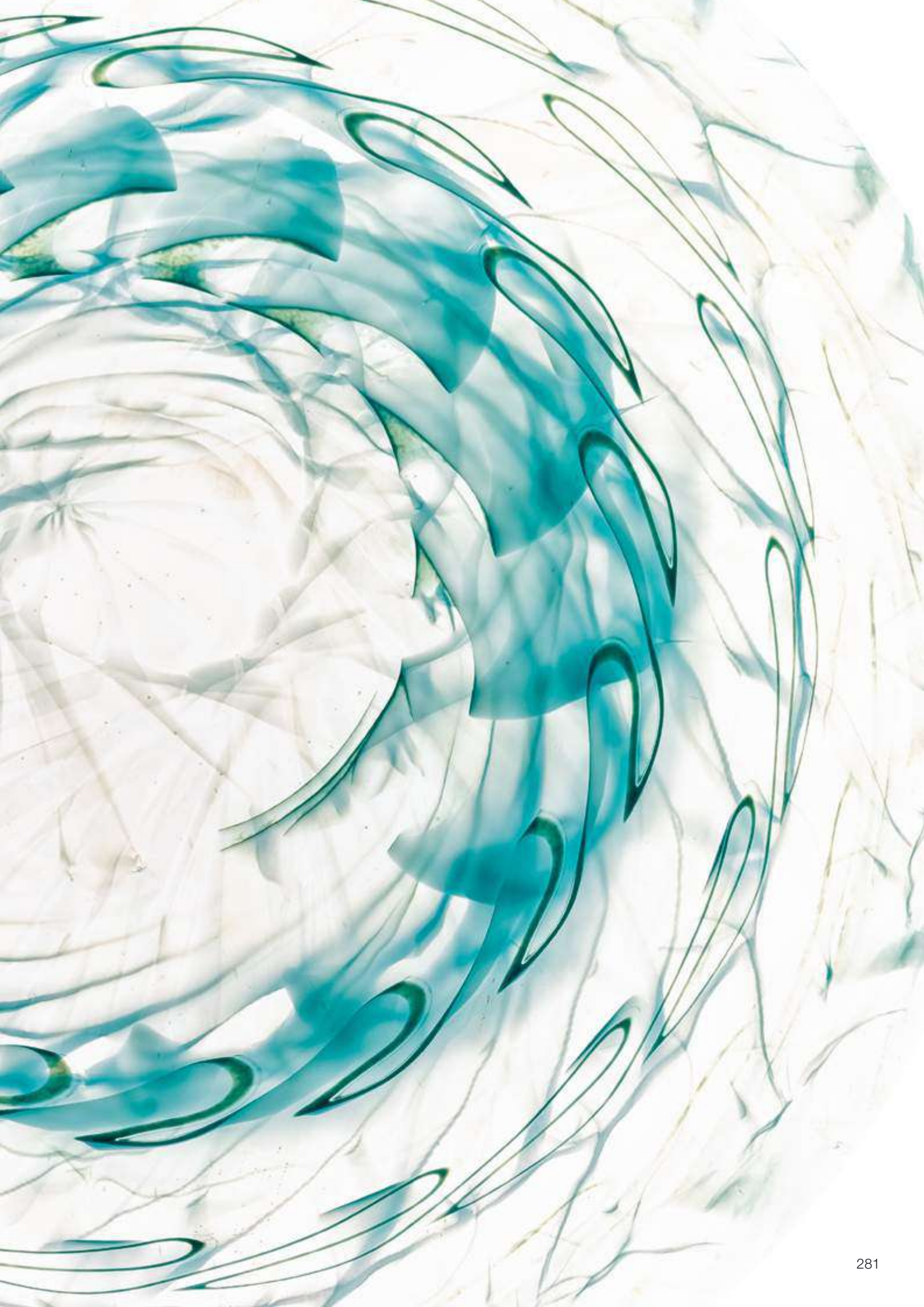
Triona FerroMurano
Suspended modular luminaires
Page 93



Sidelite Round FerroMurano
Suspended modular luminaires
Page 101



Ring of Fire FerroMurano
Pendant luminaire
Page 286



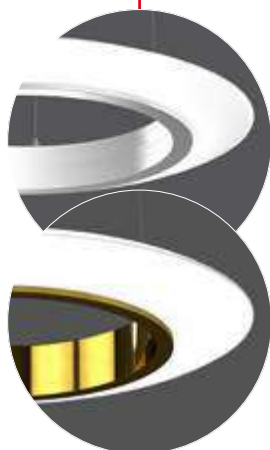
RING OF FIRE®

Everything at a glance

Versions with Casambi smart+free
Bluetooth® control for wireless
network and operation using
Android / iOS devices, free app
available for download



Ring made of anodised aluminium or gold
(Powder coating in different RAL colours
on request)



Two glass forms



Steel cable suspension,
steplessly adjustable

Power supply through suspension cable
or through separate cable



Tunable white versions, dynamically
adjustable from 2700 K to 6500 K

Ideal for use as part of a
Human Centric Lighting concept



Mouth-blown opal glass,
satin finish.



HANDMADE MASTERPIECE

⊕ Mouth-blown opal glass

The ring is made of mouth-blown three-layer glass comprising a layer of opal glass sandwiched between layers of transparent glass. This structure protects the fragile opal glass from breakage.

⊕ Glass mass

The glassblower then forms the gob (the 16 kg heavy molten glass) by blowing into the blowpipe and rotating it. This element is then blown further in a special ring mould.

⊕ Perceived value

The ring is then finished in an etching bath, which deposits a matt surface on the outer transparent-glass layer. This underscores additionally the perceived value of the luminaire with regard to haptics and appearance.

⊕ Unique

The minute air inlets here and there in the glass are a very special feature of RZB's Ring of Fire luminaires, attesting as they do to the individual, handcrafted quality of these products. These various steps ensure that each RING OF FIRE luminaire is a unique, mouth-blown glass object.



RING OF FIRE®

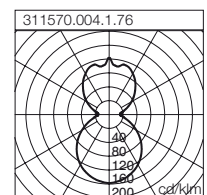
Pendant luminaires

- An interior luminaire that is in a class of its own
- With outstanding design and durability attributes:
 - In the ring version as pendant luminaire
 - As a variant with opal or Murano glass diffuser in the inner circle
 - In the half ring version as wall luminaire
- Power supply through the suspension cable
- Steplessly adjustable steel cable suspension
- Provides a large amount of indirect light
- Lighting technology and design lend themselves to long service life as a stylish element for interior decoration
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download
- Tunable white versions dynamically adjustable from 2700 K to 6500 K
- Colour consistency within 3-steps MacAdam (3 SDCM)
- LED rated life 50,000 h (L70/B10)

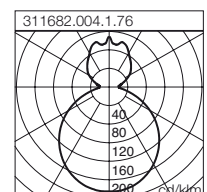


Further luminaires of this series, see:
Indoor lighting | Wall luminaires

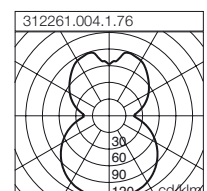
311570.004.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	5	8



311682.004.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



312261.004.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	5	7
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	7	11



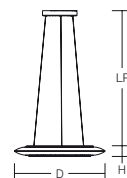
Pendant luminaires | Ring of Fire

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK02
Suspension Length: 500-1200 mm

Supporting ring made of anodised aluminium. Opal glass: mouth-blown, satin finish.
Canopy aluminium anodised. For pendant lengths of up to 2 m, power is supplied through a suspension cable. For pendant lengths of 2 m and more, and for all tunable white versions, power must be supplied through a separate cable. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colours: 4 = aluminium, anodised, 5 = gold

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 29 / 30 W ≈

1 x 55 W T16-R (60 W Psys)

LED 38 / 39 W ≈

3 x 26 W TC-D (102 W Psys)
1 x 22 + 40 W T16-R (70 W Psys)

LED 76 W ≈

2 x 55 W T16-R (120 W Psys)



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires							
Price Category 21							
Diameter D 495 mm, canopy Ø 220 mm, h 36 mm							
311669.004.76	D 495, H 55	LED	830	2670	30	22,5	DALI
311669.004.730	D 495, H 55	LED	830	2670	30	22,5	smart+free
311669.004.1.76	D 495, H 55	LED	840	2750	30	22,8	DALI
311669.004.1.730	D 495, H 55	LED	840	2750	30	22,8	smart+free
Tunable White - 2700 K to 6500 K							
311669.004.2.730	D 495, H 55	LED	827-865	2100	29	22,0	smart+free
Diameter D 690 mm, canopy Ø 260 mm, h 40 mm							
311570.004.76	D 690, H 81	LED	830	3800	39	22,3	DALI
311570.004.730	D 690, H 81	LED	830	3800	39	22,3	smart+free
311570.004.1.76	D 690, H 81	LED	840	3900	39	22,4	DALI
311570.004.1.730	D 690, H 81	LED	840	3900	39	22,4	smart+free
311570.005.76 *	D 690, H 81	LED	830	3800	39	22,3	DALI
312546.004.76	D 690, H 81	LED	830	5250	76	23,2	DALI
312546.004.730	D 690, H 81	LED	830	5250	76	23,2	smart+free
312546.004.1.76	D 690, H 81	LED	840	5450	76	23,3	DALI
312546.004.1.730	D 690, H 81	LED	840	5450	76	23,3	smart+free
Tunable White - 2700 K to 6500 K							
311570.004.2.730	D 690, H 81	LED	827-865	3250	38	21,8	smart+free

* Canopy, bezel ring and supporting ring 24 carat gold-plated

Replacement glasses							
Price Category 13							
05-1941.002	D 495, H 48						
05-1936.002	D 690, H 75						

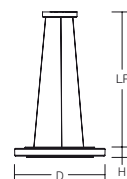
Pendant luminaires | Ring of Fire

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK02
Suspension Length: 500-1200 mm

Supporting ring made of anodised aluminium. Opal glass: mouth-blown, satin finish.
Canopy aluminium anodised. For pendant lengths of up to 2 m, power is supplied through a suspension cable. For pendant lengths of 2 m and more, and for all tunable white versions, power must be supplied through a separate cable. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 4 = aluminium, anodised

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 29 / 30 W ≈

1 x 55 W T16-R (60 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires							
Price Category 21							
Diameter D 495 mm, canopy Ø 220 mm, h 36 mm							
312261.004.76	D 495, H 55	LED	830	2650	30	24,0	DALI
312261.004.730	D 495, H 55	LED	830	2650	30	24,0	smart+free
312261.004.1.76	D 495, H 55	LED	840	2750	30	24,2	DALI
312261.004.1.730	D 495, H 55	LED	840	2750	30	24,2	smart+free
Tunable White - 2700 K to 6500 K							
312261.004.2.730	D 495, H 55	LED	827-865	2300	29	23,6	smart+free

Replacement glasses							
Price Category 13							
05-2038.002	D 495, H 48						



Comparison LED vs. conventional lamps

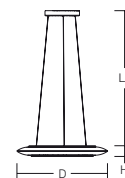
LED 63 W ≈
4 x 21 W T16 (90 W Psys)

Pendant luminaires | Ring of Fire

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK02
Suspension Length: 500-1200 mm

Supporting ring made of anodised aluminium. Opal glass: mouth-blown, satin finish. Inner circle surface: 417 mm in diameter opal white glass insert, for additional direct light output, which can be controlled separately. Canopy aluminium anodised. Power supply through separate cable. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 4 = aluminium, anodised



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Pendant luminaires						
Diameter D 690 mm, canopy Ø 260 mm, h 40 mm						
311682.004.76	D 690, H 81	LED	830	5450	63	DALI
311682.004.1.76	D 690, H 81	LED	840	5550	63	DALI

Price Category 21

Replacement glasses						
05-1936.002	D 690, H 75					

Price Category 13



Comparison LED vs. conventional lamps

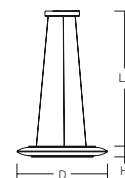
LED 63 W ≈
4 x 26 W TC-D (136 W Psys)
1 x 55 W T16-R (60 W Psys)

Pendant luminaires | Ring of Fire

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK02
Suspension Length: 500-1200 mm

Supporting ring made of anodised aluminium. Opal glass: mouth-blown, satin finish. Inner circle surface: 417 mm in diameter coloured Murano glass insert, for additional direct light output, which can be controlled separately. Canopy aluminium anodised. Power supply through separate cable. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 4 = aluminium, anodised



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Pendant luminaires						
Diameter D 690 mm, canopy Ø 260 mm, h 40 mm						
Glass FerroMurano red						
311674.004.76	D 690, H 81	LED	830	4850	63	DALI
311674.004.1.76	D 690, H 81	LED	840	4950	63	DALI
Glass FerroMurano blue						
311675.004.76	D 690, H 81	LED	830	4850	63	DALI
311675.004.1.76	D 690, H 81	LED	840	4950	63	DALI
Glass FerroMurano white						
311691.004.76	D 690, H 81	LED	830	5350	63	DALI
311691.004.1.76	D 690, H 81	LED	840	5450	63	DALI

Price Category 21

The luminaire flux of each luminaire varies due to the difference in colour intensity and structure of the glass. Light colour 827 on request.

Replacement glasses						
05-1936.002	D 690, H 75					

Price Category 13



Further information on coloured FerroMurano glass as well as an overview of additional FerroMurano RZB luminaires can be found on page 280 of this catalogue or at www.rzb-lighting.com



Glass FerroMurano red



Glass FerroMurano blue



Glass FerroMurano white



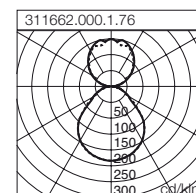


SIDELITE® ELLYPSOID

Pendant luminaires

- Lateral light emission with LED
- This lighting fixture's prismatic plastic diffuser is incorporated into a merely 15 mm thick extruded aluminium profile
- Ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1
- **Lightguide** and plastic **diffuser** made of **non-yellowing PMMA**
- Sleek design featuring an eye-catching elliptical shape allows for unique interior lighting that creates a feeling of spaciousness
- Colour consistency within 3-steps MacAdam (3 SDCM)
- LED rated life 50,000 h (L70/B10)
- Tunable white versions dynamically adjustable from 2700 K to 6500 K
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download

311662.000.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	2	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	2	3



Pendant luminaires | Sidelite Ellypsoid

Type of Protection: IP 20

Protection Class: I

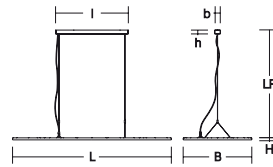
Impact Protection: IK03

Suspension Length: 500-1200 mm

Anodised aluminium frame. Diffuser: PMMA plastic, opal/microprismatic. Canopy aluminium anodised (l 540, b 42, h 29 mm). Power supply through separate cable. 2-point steel cable suspension, steplessly adjustable. Special lengths available on request. Driver included in canopy. Lateral light emission thanks to LED.

Available colour: 0 = aluminium, anodised

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



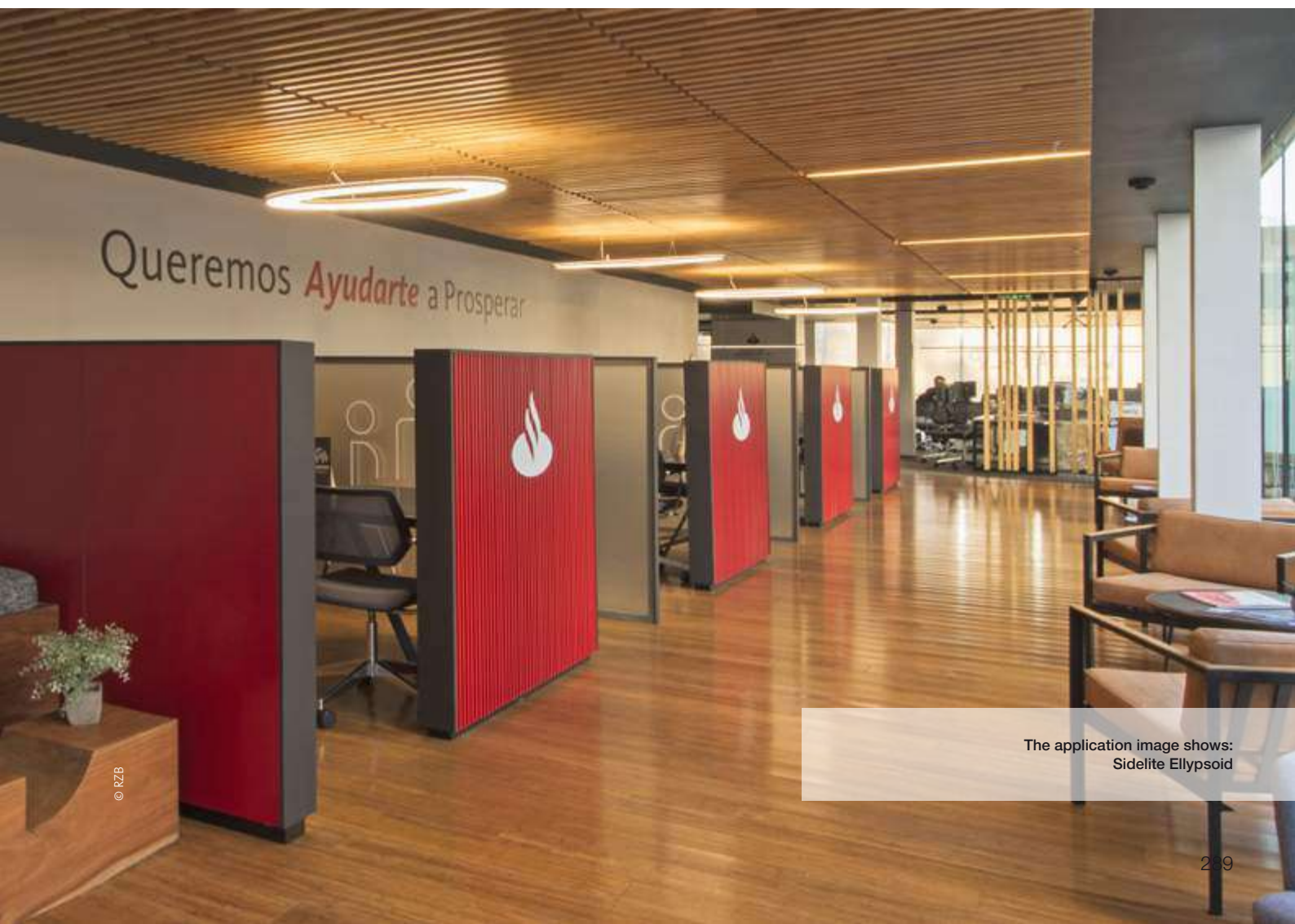
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Pendant luminaires							
60% direct and 40% indirect light emission							
311662.000.76	L 1204, B 521, H 15	LED	830	7900	76	16,6	DALI
311662.000.730	L 1204, B 521, H 15	LED	830	7900	76	16,6	smart+free
311662.000.1.76	L 1204, B 521, H 15	LED	840	8450	76	16,8	DALI
311662.000.1.730	L 1204, B 521, H 15	LED	840	8450	76	16,8	smart+free
Tunable White - 2700 K to 6500 K							
311662.000.2.730	L 1204, B 521, H 15	LED	827-865	5200	50	15,8	smart+free

Light colour 827 on request.

Comparison
LED vs. conventional lamps

LED 50 W ≈
3 x 28 W T16 (92 W Psys)

LED 76 W ≈
4 x 28 W T16 (122 W Psys)



The application image shows:
Sidelite Ellypsoid

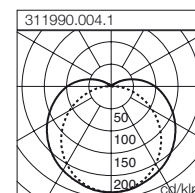


SCAPHA®

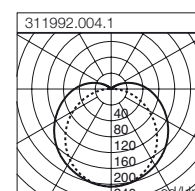
Pendant luminaires

- A range of luminaires for indoor lighting, consisting of: Pendant luminaires, Ceiling and wall luminaires
- Handmade glass using the countersinking process, matt on the outside, painted white on the inside
- Uniform and glare-free illumination of the small boat shaped corpus by specially adapted LED panel boards
- The luminaire is timelessly elegant and fully integrates in architectural surroundings
- The luminaire is available in two different sizes
- Steplessly adjustable 2-point steel cable suspension
- Colour consistency within 3-steps MacAdam (3 SDCM)
- LED rated life 50,000 h (L80/B10)
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download

311990.004.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	5	7
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	7	11



311992.004.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	5	8



Further luminaires of this series, see:
Indoor lighting | Ceiling and wall luminaires - decorative

Pendant luminaires | Scapha

Type of Protection: IP 20

Protection Class: I

Suspension Length: 500-1200 mm

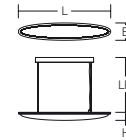
Base: aluminium, powder-coated. Canopy and glass fixture steel powder-coated.

Handmade concave glass, matt finish on the outside, painted white on the inside.

2-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 4 = silver metallic

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Pendant luminaires						
Length L 714 mm						
311990.004	L 714, B 134, H 62	LED	830	2350	35	on/off
311990.004.1	L 714, B 134, H 62	LED	840	2500	35	on/off
Length L 1264 mm						
311992.004	L 1264, B 174, H 66	LED	830	3400	51	on/off
311992.004.76	L 1264, B 174, H 66	LED	830	3400	51	DALI
311992.004.730	L 1264, B 174, H 66	LED	830	3400	51	smart+free
311992.004.1	L 1264, B 174, H 66	LED	840	3550	51	on/off
311992.004.1.76	L 1264, B 174, H 66	LED	840	3550	51	DALI
311992.004.1.730	L 1264, B 174, H 66	LED	840	3550	51	smart+free

Price Category 21



Comparison LED vs. conventional lamps

LED 35 W ≈

1 x 58 W T26 (67 W Psys)

LED 51 W ≈

2 x 36 W T26 (86 W Psys)

Replacement glasses

Price Category 13

05-1956.002	L 696, B 116, H 56
05-1957.002	L 1246, B 156, H 60





FLAT SLIM

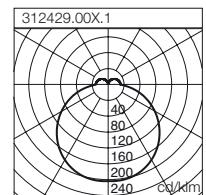
Pendant luminaires

- Comprehensive range consisting of: Pendant luminaires, Ceiling and wall luminaires
- Mouth-blown three layer (triplex) opal glass satin finish or plastic diffuser (PMMA/PC) opal satin finish
- Diffuser mounting without use of tools, thanks to bayonet fixing
- Particularly homogeneous, soft and glare-free light thanks to the use of AC boards
- Standard Gore™ Protective Vents diaphragm valve to avoid condensation
- Very easy installation thanks to plug & play connection
- LED module can be replaced without use of tools
- Colour consistency within 3-steps MacAdam (3 SDCM)
- LED rated life 50,000 h (L70/B10)
- DALI and master boards suitable for DC voltage from 176-276 V; luminaire flux in DC mode 25%

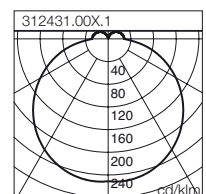


Further luminaires of this series, see:
Indoor lighting | Ceiling and wall luminaires - decorative

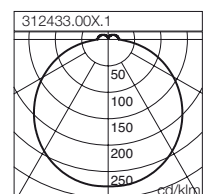
312429.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
5	7	9
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
7	10	16



312431.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	5	7
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	7	12



312433.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	6
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	6	10







Applies to
versions
with .76

Comparison

LED vs. conventional lamps

LED 21 W ≈

2 x 18 W TC-D (52 W Psys)

LED 27 W ≈

2 x 26 W TC-D (68 W Psys)

LED 31 / 32 / 33 W ≈

3 x 26 W TC-D (102 W Psys)

LED 38 / 40 W ≈

4 x 26 W TC-D (136 W Psys)

Pendant luminaires | Flat Slim

Type of Protection: IP 30

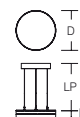
Protection Class: I

Impact Protection: IK03

Suspension Length: 500-1500 mm

Base: pressure die-cast aluminium, powder-coated. Canopy: aluminium, powder-coated. Opal glass: mouth-blown, satin finish. Diffuser fastening: bayonet system. LED module can be connected without use of tools. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request. Transparent connecting cable.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Pendant luminaires						
Glass						
D 300 mm						
312429.00X	D 300, H 63	LED ⁽¹⁾	830	1500	21	on/off
312429.00X.76 *	D 300, H 63	LED ⁽¹⁾	830	1500	21	DALI
312429.00X.1	D 300, H 63	LED ⁽¹⁾	840	1600	21	on/off
312429.00X.1.76 *	D 300, H 63	LED ⁽¹⁾	840	1600	21	DALI
D 400 mm						
312431.00X	D 400, H 70	LED ⁽¹⁾	830	2200	27	on/off
312431.00X.76 *	D 400, H 70	LED ⁽¹⁾	830	2550	32	DALI
312431.00X.1	D 400, H 70	LED ⁽¹⁾	840	2300	27	on/off
312431.00X.1.76 *	D 400, H 70	LED ⁽¹⁾	840	2700	31	DALI
D 480 mm						
312433.00X	D 480, H 70	LED ⁽¹⁾	830	2600	33	on/off
312433.00X.76 *	D 480, H 70	LED ⁽¹⁾	830	3100	40	DALI
312433.00X.1	D 480, H 70	LED ⁽¹⁾	840	2700	33	on/off
312433.00X.1.76 *	D 480, H 70	LED ⁽¹⁾	840	3200	38	DALI

* DALI dimmable (10-100%)

Replacement glasses		Price Category 13
05-1970.002	D 300, H 51	
05-312174.002	D 400, H 58	
05-1971.002	D 480, H 59	

Pendant luminaires | Flat Slim

Type of Protection: IP 30

Protection Class: I

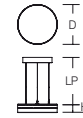
Impact Protection: IK02 (PMMA), IK08 (Polycarbonate)

Suspension Length: 500-1500 mm

Base: pressure die-cast aluminium, powder-coated. Canopy: aluminium, powder-coated.

Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof. Diffuser fastening: bayonet system. LED module can be connected without use of tools. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request. Transparent connecting cable.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Pendant luminaires						
Diffuser: plastic (PMMA)						
D 300 mm						

312430.00X	D 300, H 63	LED ⁽¹⁾	830	1800	21	on/off
312430.00X.76 *	D 300, H 63	LED ⁽¹⁾	830	1800	21	DALI
312430.00X.1	D 300, H 63	LED ⁽¹⁾	840	1900	21	on/off
312430.00X.1.76 *	D 300, H 63	LED ⁽¹⁾	840	1900	21	DALI
D 400 mm						
312432.00X	D 400, H 70	LED ⁽¹⁾	830	2350	27	on/off
312432.00X.76 *	D 400, H 70	LED ⁽¹⁾	830	2750	32	DALI
312432.00X.1	D 400, H 70	LED ⁽¹⁾	840	2500	27	on/off
312432.00X.1.76 *	D 400, H 70	LED ⁽¹⁾	840	2900	31	DALI
D 480 mm						
312434.00X	D 480, H 70	LED ⁽¹⁾	830	3000	33	on/off
312434.00X.76 *	D 480, H 70	LED ⁽¹⁾	830	3550	40	DALI
312434.00X.1	D 480, H 70	LED ⁽¹⁾	840	3100	33	on/off
312434.00X.1.76 *	D 480, H 70	LED ⁽¹⁾	840	3700	38	DALI

Diffuser: plastic (polycarbonate)

D 300 mm						
312430.00X.2	D 300, H 63	LED ⁽¹⁾	830	1900	21	on/off
312430.00X.2.76 *	D 300, H 63	LED ⁽¹⁾	830	1900	21	DALI
312430.00X.3	D 300, H 63	LED ⁽¹⁾	840	2000	21	on/off
312430.00X.3.76 *	D 300, H 63	LED ⁽¹⁾	840	2000	21	DALI
D 400 mm						
312432.00X.2	D 400, H 70	LED ⁽¹⁾	830	2650	27	on/off
312432.00X.2.76 *	D 400, H 70	LED ⁽¹⁾	830	3100	32	DALI
312432.00X.3	D 400, H 70	LED ⁽¹⁾	840	2800	27	on/off
312432.00X.3.76 *	D 400, H 70	LED ⁽¹⁾	840	3300	31	DALI
D 480 mm						
312434.00X.2	D 480, H 70	LED	830	3050	33	on/off
312434.00X.2.76 *	D 480, H 70	LED	830	3650	40	DALI
312434.00X.3	D 480, H 70	LED	840	3150	33	on/off
312434.00X.3.76 *	D 480, H 70	LED	840	3750	38	DALI

* DALI dimmable (10-100%)

Replacement diffusers						
08-2119.002	D 300, H 55	Plastic (PMMA)				
08-2119.022	D 300, H 55	Plastic (polycarbonate)				
08-312175.002	D 400, H 62	Plastic (PMMA)				
08-312175.022	D 400, H 62	Plastic (polycarbonate)				
08-2120.002	D 480, H 62	Plastic (PMMA)				
08-2120.022	D 480, H 62	Plastic (polycarbonate)				



Comparison LED vs. conventional lamps

LED 21 W ≈

3 x 18 W TC-D (78 W Psys)

LED 27 W ≈

3 x 26 W TC-D (102 W Psys)

LED 31 / 32 W ≈

2 x 32 W TC-TEL (69 W Psys)

LED 33 W ≈

4 x 26 W TC-D (136 W Psys)

LED 38 / 40 W ≈

3 x 32 W TC-TEL (105 W Psys)

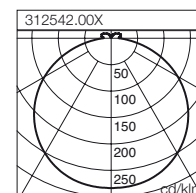


FLAT SLIM+

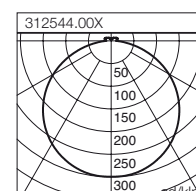
Pendant luminaires

- **MultiColour:** Colour temperature adjustable via jumper
- **MultiLumen:** 2 steps adjustable luminous flux
- HF motion detector with DALI and Bluetooth® interfaces for switching, dimming and networking from individual luminaires up to complex light installations.
- Diffuser mounting without use of tools, with clip system
- Very easy installation thanks to plug & play connection
- LED module can be replaced without use of tools
- LED rated life 50,000 h (L90/B50)
- Standard Gore™ Protective Vents diaphragm valve to avoid condensation
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download
- Connector for emergency light function (optional)

312542.00X		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
6	9	12
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
9	13	21



312544.00X		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	6
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	6	10



Further luminaires of this series, see:
Indoor lighting | Ceiling and wall luminaires - decorative

Pendant luminaires | Flat Slim+

Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK07

Suspension Length: 500-1200 mm

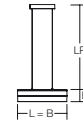
Base: pressure die-cast aluminium, powder-coated. Canopy: aluminium, powder-coated. Diffuser: matt or high-polish crystal glass, painted inside, with fixing device. Diffuser with frame made of pressure die-cast aluminium, powder coated, bonded. Diffuser attached with clip system. With membrane valve as a standard to prevent condensed water. LED module can be connected without use of tools. 4-point steel cable suspension, steplessly adjustable. Special lengths available on request. Transparent connecting cable.

MultiLumen version: 2 steps adjustable luminous flux.

MultiColour version: Colour temperature adjustable in 2 steps. Factory-set to 3000 K.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Applies to versions with .76

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Pendant luminaires						
Diffuser: high-polish crystal glass						
L 300 x B 300 mm						
312542.00X	L 300, B 300, H 70	LED	830, 840	1200...2100	14...22	on/off
312542.00X.76	L 300, B 300, H 70	LED	830, 840	1200...2100	14...22	DALI
312542.00X.730	L 300, B 300, H 70	LED	830, 840	1200...2100	14...22	smart+free
L 430 x B 430 mm						
312544.00X	L 430, B 430, H 72	LED	830, 840	2600...3800	28...41	on/off
312544.00X.76	L 430, B 430, H 72	LED	830, 840	2600...3800	28...41	DALI
312544.00X.730	L 430, B 430, H 72	LED	830, 840	2600...3800	28...41	smart+free
Diffuser: matt crystal glass						
L 300 x B 300 mm						
312541.00X	L 300, B 300, H 70	LED	830, 840	1200...2100	14...22	on/off
312541.00X.76	L 300, B 300, H 70	LED	830, 840	1200...2100	14...22	DALI
312541.00X.730	L 300, B 300, H 70	LED	830, 840	1200...2100	14...22	smart+free
L 430 x B 430 mm						
312543.00X	L 430, B 430, H 72	LED	830, 840	2050...3250	28...41	on/off
312543.00X.76	L 430, B 430, H 72	LED	830, 840	2050...3250	28...41	DALI
312543.00X.730	L 430, B 430, H 72	LED	830, 840	2050...3250	28...41	smart+free

MultiLumen/MultiColour version: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Replacement glasses			Price Category 13			
982675.00X	L 300, B 300, H 67	High-polish crystal glass				
982675.01X	L 300, B 300, H 67	Matt crystal glass				
982676.00X	L 430, B 430, H 67	High-polish crystal glass				
982676.01X	L 430, B 430, H 67	Matt crystal glass				

Comparison LED vs. conventional lamps

LED 14 W ≈

2 x 18 W TC-D (52 W Psys)

LED 22 W ≈

2 x 26 W TC-D (68 W Psys)

LED 28 W ≈

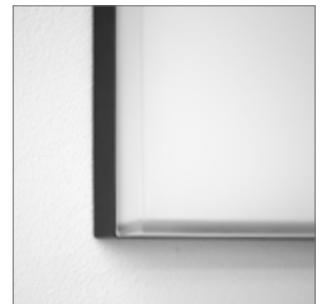
3 x 26 W TC-D (102 W Psys)

LED 41 W ≈

4 x 26 W TC-D (136 W Psys)



Diffuser: high-polish crystal glass



Diffuser: matt crystal glass

Adjustable luminous flux MultiLumen

312541.00X... 312542.00X...			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	1200	1300	14
2	1900	2100	22

312543.00X...			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	2050	2250	28
2	2950	3250	41

312544.00X...			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	2600	2800	28
2	3500	3800	41

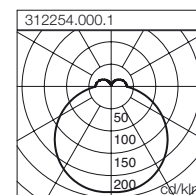


DOUALA®

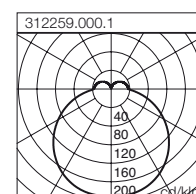
Pendant luminaires

- Comprehensive range consisting of:
Pendant luminaires, Ceiling and wall luminaires
- The stainless steel base and the glass create an impression of unity
- The cover made of mouth-blown, satin-finished three-layer opal glass is available in two different sizes
- Steplessly adjustable 3-point steel cable suspension
- Colour consistency within 3-steps MacAdam (3 SDCM)
- LED rated life 50,000 h (L70/B10)

312254.000.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	6	8
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
6	9	14



312259.000.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	5	7
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	7	11



Further luminaires of this series, see:
Indoor lighting | Ceiling and wall luminaires - decorative

Pendant luminaires | Douala

Type of Protection: **IP 40**

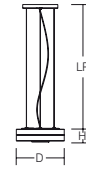
Protection Class: I

Impact Protection: IK02

Suspension Length: 500-1200 mm

Base: brushed stainless steel. Mouth-blown, 3-layer opal glass, satin finish. Patented spring fastening system. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 0 = stainless steel, brushed



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Pendant luminaires						
						Price Category 21
Diameter D 300 mm						
312254.000 *	D 300, H 95	LED ⁽¹⁾	830	1750	21	on/off
312254.000.76 **	D 300, H 95	LED ⁽¹⁾	830	1750	21	DALI
312254.000.1 *	D 300, H 95	LED ⁽¹⁾	840	1850	21	on/off
312254.000.1.76 **	D 300, H 95	LED ⁽¹⁾	840	1850	21	DALI
Diameter D 400 mm						
312259.000 *	D 400, H 102	LED ⁽¹⁾	830	2300	27	on/off
312259.000.76 **	D 400, H 102	LED ⁽¹⁾	830	2700	32	DALI
312259.000.1 *	D 400, H 102	LED ⁽¹⁾	840	2400	27	on/off
312259.000.1.76 **	D 400, H 102	LED ⁽¹⁾	840	2800	31	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Replacement glasses						
						Price Category 13
05-1934.012	D 300, H 76					
05-2018.032	D 400, H 87					



Comparison LED vs. conventional lamps

LED 21 W ≈

2 x 26 W TC-D (68 W Psys)

LED 27 / 31 / 32 W ≈

3 x 26 W TC-D (102 W Psys)



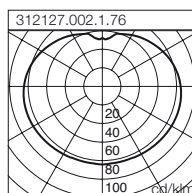


BASIC BALL

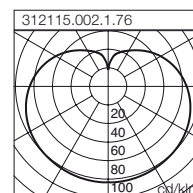
Pendant luminaires

- Pendant luminaire in timelessly classic sphere design
- Spheres in four different diameters
- Mouth-blown opal glass or shockproof plastic sphere
- Shadow-free, homogeneous and soft illumination
- Steplessly adjustable single-point steel cable suspension (special lengths available on request) or chrome-plated pendant tubes
- Luminous efficiency up to 111 lm/W
- Colour consistency within 3-steps MacAdam (3 SDCM)
- LED rated life 50,000 h (L80/B10)

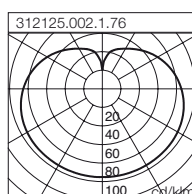
312127.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4



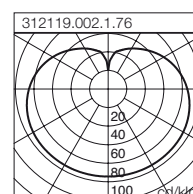
312115.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	6	8
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
6	8	13



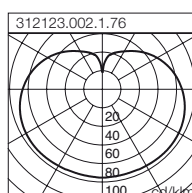
312125.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4



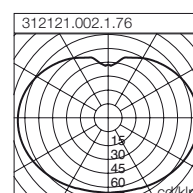
312119.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4



312123.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



312121.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4



Pendant luminaires | Basic Ball

Type of Protection: **IP 40**

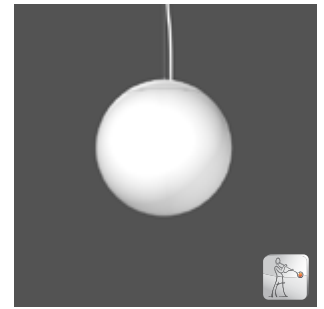
Protection Class: I

Impact Protection: IK02 (Glass sphere), IK10 (Plastic sphere)

Suspension Length: 4000 mm

Mouth-blown opal glass ball, satin finish or impact-resistant plastic ball made of UV-stabilized polyethylene (PE), opal, satin finish. Canopy: metal, white. White cap. Power supply cable: white. Single-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Pendant luminaires						
Glass sphere						
D 350 mm						
312105.002.76	D 350, H 350	LED	830	2400	28	DALI
312105.002.1.76	D 350, H 350	LED	840	2500	28	DALI
312094.002.76	D 350, H 350	LED	830	5800	55	DALI
312094.002.1.76	D 350, H 350	LED	840	5950	55	DALI
D 400 mm						
312095.002.76	D 400, H 400	LED	830	7900	79	DALI
312095.002.1.76	D 400, H 400	LED	840	8100	79	DALI
D 500 mm						
312107.002.76	D 500, H 500	LED	830	8150	79	DALI
312107.002.1.76	D 500, H 500	LED	840	8400	79	DALI
D 600 mm						
312108.002.76	D 600, H 600	LED	830	8200	79	DALI
312108.002.1.76	D 600, H 600	LED	840	8450	79	DALI
Plastic sphere						
D 350 mm						
312109.002.76	D 350, H 350	LED	830	2550	28	DALI
312109.002.1.76	D 350, H 350	LED	840	2650	28	DALI
312110.002.76	D 350, H 350	LED	830	6150	55	DALI
312110.002.1.76	D 350, H 350	LED	840	6350	55	DALI
D 400 mm						
312112.002.76	D 400, H 400	LED	830	8550	79	DALI
312112.002.1.76	D 400, H 400	LED	840	8850	79	DALI
D 500 mm						
312113.002.76	D 500, H 500	LED	830	8650	79	DALI
312113.002.1.76	D 500, H 500	LED	840	8900	79	DALI
D 630 mm						
312114.002.76	D 630, H 630	LED	830	8600	79	DALI
312114.002.1.76	D 630, H 630	LED	840	8900	79	DALI

Replacement glasses		Price Category 13
05-311012.002	D 350, H 331	
05-311015.002	D 400, H 384	
05-311044.002	D 500, H 488	
05-311469.002	D 600, H 590	

Replacement diffusers		Price Category 13
08-311050.012	D 350, H 331	Plastic (polyethylene)
08-311053.012	D 400, H 380	Plastic (polyethylene)
08-311056.012	D 500, H 488	Plastic (polyethylene)
08-311378.012	D 630, H 621	Plastic (polyethylene)

Comparison LED vs. conventional lamps

LED 28 W ≈

3 x 26 W TC-D (102 W Psys)

LED 55 W ≈

3 x 42 W TC-TEL (137 W Psys)

LED 79 W ≈

4 x 42 W TC-TEL (180 W Psys)



Canopy with suspension cable



Comparison LED vs. conventional lamps

LED 28 W ≈

3 x 26 W TC-D (102 W P_{sys})

LED 55 W ≈

3 x 42 W TC-TEL (137 W P_{sys})

LED 79 W ≈

4 x 42 W TC-TEL (180 W P_{sys})

Pendant luminaires | Basic Ball

Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK02

Sphere: opal glass, mouth-blown, satin finish. Canopy: metal, chrome-plated. Chrome cap.

Modular design: Pendant tube must be ordered separately!

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Pendant luminaires						
Price Category 21						
D 350 mm						
312115.002.76	D 350, H 350	LED	830	2400	28	DALI
312115.002.1.76	D 350, H 350	LED	840	2500	28	DALI
312116.002.76	D 350, H 350	LED	830	5800	55	DALI
312116.002.1.76	D 350, H 350	LED	840	5950	55	DALI
D 400 mm						
312119.002.76	D 400, H 400	LED	830	7900	79	DALI
312119.002.1.76	D 400, H 400	LED	840	8100	79	DALI
D 500 mm						
312120.002.76	D 500, H 500	LED	830	8150	79	DALI
312120.002.1.76	D 500, H 500	LED	840	8400	79	DALI
D 600 mm						
312121.002.76	D 600, H 600	LED	830	8200	79	DALI
312121.002.1.76	D 600, H 600	LED	840	8450	79	DALI



Canopy with pendant tube

Pendant tube (can be shortened on site) - To be ordered separately			Price Category 21
982229.0044	D 13, LP 1000	Pendant tube chrome-plated, incl. power supply cable and mounting material. Special pendant lengths available on request.	
982230.0044	D 13, LP 1500	Pendant tube chrome-plated, incl. power supply cable and mounting material. Special pendant lengths available on request.	
982231.0044	D 13, LP 2000	Pendant tube chrome-plated, incl. power supply cable and mounting material. Special pendant lengths available on request.	

Adaptor, aluminium			Price Category 21
981222.000	D 35, H 15	For mounting a pendant tube shortened on site (incl. mounting material)	

Connection sleeve, M13 x 1, chrome-plated, for pendant tube extension			Price Category 21
981230.0044	D 18, H 40	Accessories for connecting two pendant tubes	

Replacement glasses			Price Category 13
05-311012.002	D 350, H 331		
05-311015.002	D 400, H 384		
05-311044.002	D 500, H 488		
05-311469.002	D 600, H 590		



Chrome cap

Pendant luminaires | Basic Ball

Type of Protection: **IP 40**

Protection Class: I

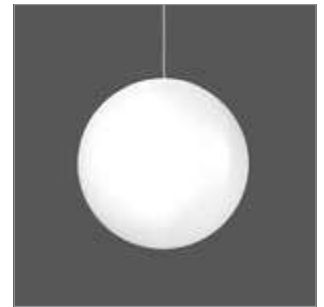
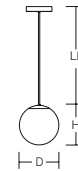
Impact Protection: IK10

Impact-resistant plastic ball made of UV-stabilized polyethylene (PE), opal, satin finish.

Canopy: metal, chrome-plated. White cap.

Modular design: Pendant tube must be ordered separately!

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Pendant luminaires						
D 350 mm						
312122.002.76	D 350, H 350	LED	830	2550	28	DALI
312122.002.1.76	D 350, H 350	LED	840	2650	28	DALI
312123.002.76	D 350, H 350	LED	830	6150	55	DALI
312123.002.1.76	D 350, H 350	LED	840	6350	55	DALI
D 400 mm						
312125.002.76	D 400, H 400	LED	830	8550	79	DALI
312125.002.1.76	D 400, H 400	LED	840	8850	79	DALI
D 500 mm						
312126.002.76	D 500, H 500	LED	830	8650	79	DALI
312126.002.1.76	D 500, H 500	LED	840	8900	79	DALI
D 630 mm						
312127.002.76	D 630, H 630	LED	830	8600	79	DALI
312127.002.1.76	D 630, H 630	LED	840	8900	79	DALI

Price Category 21

Comparison LED vs. conventional lamps

LED 28 W ≈

3 x 26 W TC-D (102 W Psys)

LED 55 W ≈

3 x 42 W TC-TEL (137 W Psys)

LED 79 W ≈

4 x 42 W TC-TEL (180 W Psys)

Pendant tube (can be shortened on site) - To be ordered separately			Price Category 21
982229.0044	D 13, LP 1000	Pendant tube chrome-plated, incl. power supply cable and mounting material. Special pendant lengths available on request.	
982230.0044	D 13, LP 1500	Pendant tube chrome-plated, incl. power supply cable and mounting material. Special pendant lengths available on request.	
982231.0044	D 13, LP 2000	Pendant tube chrome-plated, incl. power supply cable and mounting material. Special pendant lengths available on request.	

Adaptor, aluminium			Price Category 21
981222.000	D 35, H 15	For mounting a pendant tube shortened on site (incl. mounting material)	

Connection sleeve, M13 x 1, chrome-plated, for pendant tube extension			Price Category 21
981230.0044	D 18, H 40	Accessories for connecting two pendant tubes	

Replacement diffusers			Price Category 13
08-311050.012	D 350, H 331	Plastic (polyethylene)	
08-311053.012	D 400, H 380	Plastic (polyethylene)	
08-311056.012	D 500, H 488	Plastic (polyethylene)	
08-311378.012	D 630, H 621	Plastic (polyethylene)	



Canopy with pendant tube



White cap

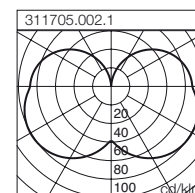


CYLIO®

Pendant luminaires

- A sleekly designed surface mounted and pendant luminaire for interiors
- Made of top-notch components:
 - Base and canopy made of anodised aluminium with brushed stainless steel finish
 - Handmade glass elements
- Each glass fixture is one of a kind
- Exceptionally good and uniform light distribution
- Dimmable with standard trailing or leading edge dimmers

311705.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
8	12	16
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
11	16	27



Further luminaires of this series, see:
Indoor lighting | Ceiling luminaires

Pendant luminaires | Cyllo

Type of Protection: IP 20

Protection Class: I

Suspension Length: 800 mm

Base: anodised aluminium with brushed stainless steel finish. Glass fastening: bayonet fixing.

Suspension cord with integrated steel cable. Canopy aluminium anodised.

Available colour: stainless steel, brushed



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Pendant luminaires						
Base: D 100 mm, Canopy: d 60 mm, h 88 mm						
Opal glass, short, white						
311964.002 *	D 100, H 127	LED ⁽¹⁾	830	520	10	on/off
311964.002.1 *	D 100, H 127	LED ⁽¹⁾	840	540	10	on/off
Opal glass white						
311725.002 *	D 100, H 230	LED ⁽¹⁾	830	650	10	on/off
311725.002.1 *	D 100, H 230	LED ⁽¹⁾	840	670	10	on/off
Opal glass sphere, white						
311966.002 *	D 180, H 252	LED ⁽¹⁾	830	800	10	on/off
311966.002.1 *	D 180, H 252	LED ⁽¹⁾	840	840	10	on/off

* Suitable for phase cut dimming (10-100%)

Price Category 21

Comparison LED vs. conventional lamps

LED 10 W ≈
1 x 50 W QT12 (60 W Psys)

Replacement glasses

05-1953.002	D 100, H 57	Short white opal glass
05-1952.002	D 100, H 160	White opal glass
05-1954.002	D 180, H 182	Opal glass sphere

Price Category 13



Short white opal glass



Opal glass white



Opal glass sphere

Pendant luminaires | Cyllo

Type of Protection: IP 20

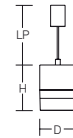
Protection Class: I

Suspension Length: 800 mm

Base: anodised aluminium with brushed stainless steel finish. Glass fastening: bayonet fixing.

Suspension cord with integrated steel cable. Canopy aluminium anodised.

Available colour: stainless steel, brushed



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Pendant luminaires						
Base: D 150 mm, Canopy: d 60 mm, h 88 mm						
Short white opal glass						
311970.002 *	D 150, H 155	LED ⁽¹⁾	830	940	16	on/off
311970.002.1 *	D 150, H 155	LED ⁽¹⁾	840	960	16	on/off
Opal glass white						
311705.002 *	D 150, H 262	LED ⁽¹⁾	830	1200	16	on/off
311705.002.1 *	D 150, H 262	LED ⁽¹⁾	840	1250	16	on/off
311874.002 *	D 150, H 262	1 x QA60 (clear) max. 46 W				

* Suitable for phase cut dimming (10-100%)

Price Category 21

Comparison LED vs. conventional lamps

LED 16 W ≈
1 x 75 W QT12 (105 W Psys)
1 x 50 W QT12 (60 W Psys)

Replacement glasses

05-1955.002	D 150, H 67	Short white opal glass
05-1940.002	D 150, H 172	Opal glass white

Price Category 13



Short white opal glass



Opal glass white



The application image shows:
Cyllo



Pendant luminaires | Glasdownlight

Type of Protection: IP 20

Protection Class: I

Impact Protection: IK02

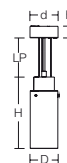
Suspension Length: 500-1250 mm

Base: aluminium, powder-coated. Opal glass: mouth-blown, satin finish.

Glass fastening: retaining screws. Canopy: aluminium, powder-coated.

3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Pendant luminaires						
Diameter D 120 mm, canopy d 122 mm, h 50 mm						
931181.002	D 120, H 300	LED	830	1200	9,5	on/off
931181.002.1	D 120, H 300	LED	840	1250	9,5	on/off
931182.002	D 120, H 470	LED	830	2400	19	on/off
931182.002.1	D 120, H 470	LED	840	2500	19	on/off
Diameter D 150 mm, canopy d 122 mm, h 50 mm						
931183.002	D 150, H 300	LED	830	2500	21	on/off
931183.002.76	D 150, H 300	LED	830	2900	24	DALI
931183.002.1	D 150, H 300	LED	840	2600	21	on/off
931183.002.1.76	D 150, H 300	LED	840	3000	24	DALI
931184.002	D 150, H 470	LED	830	2600	20	on/off
931184.002.76	D 150, H 470	LED	830	3350	26	DALI
931184.002.1	D 150, H 470	LED	840	2750	20	on/off
931184.002.1.76	D 150, H 470	LED	840	3550	26	DALI

Replacement glasses		Price Category 13				
05-931174.012	D 120, H 250					
05-931176.012	D 120, H 420					
05-931177.012	D 150, H 250					
05-931179.012	D 150, H 420					

Comparison LED vs. conventional lamps

LED 9,5 W ≈

1 x 32 W TC-TEL (36 W Psys)

LED 19 / 20 / 21 W ≈

1 x 57 W TC-TEL (59 W Psys)

LED 24 / 26 W ≈

2 x 42 W TC-TEL (90 W Psys)



DEECOS® P

Pendant luminaires

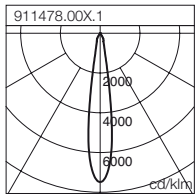
- High quality die-cast aluminium housing in two sizes
- Easy installation with transparent, adjustable pendant cable and canopy with magnetic fixing
- Excellent light quality thanks to flicker-free light, homogeneous light distribution, glare limitation and light colour quality
- Suitable for reflector as well as lens technologies
- MIRO-SILVER® reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone
- Black plastic ring and recessed LED to prevent glare from the side



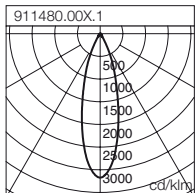
Further luminaires of this series, see:
 Indoor lighting | Recessed projectors
 Indoor lighting | Surface mounted projectors

- Additional light colours 927, 930, 935, 940 with Ra 95 and 832 with Ra 85 as well as for Maxi special food LEDs: champagne with Ra 97, meat and meat fresh available on request
- LED rated life 50,000 h (L90/B10)
- Colour consistency within 2-steps MacAdam (2 SDCM)
- High quality converter without flickering and stroboscopic effect
- The following accessories can be mounted without use of tools: interchangeable lenses, honeycomb louvre, clear and frosted diffusers, white interchangeable plastic ring
- Version with 5-m pendant cable suitable for accessory Deecos P Tube cylinder extensions 0.5 m, 0.75 m or 1 m
- Decorative recessed suspension set available as accessory

911478.00X.1		
h [m]	Ø [m]	E [lx]
1,0	0,88	3454
2,0	1,76	863
3,0	2,63	384
4,0	3,51	216
5,0	4,39	138



911480.00X.1		
h [m]	Ø [m]	E [lx]
1,0	0,63	8084
2,0	1,26	2021
3,0	1,89	898
4,0	2,52	505
5,0	3,15	323



Pendant luminaires | Deecos P Mini

Type of Protection: IP 20

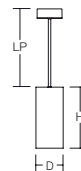
Protection Class: I

Impact Protection: IK06

Suspension Length: 2000 mm

Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. With optical assembly MIRO-SILVER® reflector or polycarbonate lens. Transparent suspension cable 2 m, can be shortened. Canopy made of powder-coated sheet steel with magnetic attachment.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-able
Pendant luminaires - Pendant cable 2 m							Price Category 21
Including lens for best uniformity of the light cone							
911477.00X	D 87, H 195	LED	830	1700	19	44	on/off
911477.00X.76	D 87, H 195	LED	830	1700	19	44	DALI
911477.00X.1	D 87, H 195	LED	840	1800	19	44	on/off
911477.00X.1.76	D 87, H 195	LED	840	1800	19	44	DALI
911479.00X	D 87, H 195	LED	830	2450	29	44	on/off
911479.00X.76	D 87, H 195	LED	830	2450	29	44	DALI
911479.00X.1	D 87, H 195	LED	840	2550	29	44	on/off
911479.00X.1.76	D 87, H 195	LED	840	2550	29	44	DALI
Including reflector for maximum efficiency							
911476.00X	D 87, H 195	LED	830	2350	19	62	on/off
911476.00X.76	D 87, H 195	LED	830	2350	19	62	DALI
911476.00X.1	D 87, H 195	LED	840	2450	19	62	on/off
911476.00X.1.76	D 87, H 195	LED	840	2450	19	62	DALI
911478.00X	D 87, H 195	LED	830	3350	29	62	on/off
911478.00X.76	D 87, H 195	LED	830	3350	29	62	DALI
911478.00X.1	D 87, H 195	LED	840	3500	29	62	on/off
911478.00X.1.76	D 87, H 195	LED	840	3500	29	62	DALI

Versions with Ra > 90 colour rendition are also available in other light colours on request

Diffuser			Price Category 21
982370.000	D 74, H 3	Safety glass clear	
982370.010	D 74, H 3	Safety glass, satin finish	



Decorative glasses			Price Category 21
982647.002	D 87, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock	
982648.002	D 87, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock	



Anti-glare honeycomb louvre			Price Category 21
982371.003	D 74, H 3	Honeycomb louvre Mini	



Interchangeable plastic rings			Price Category 21
982419.002	D 82, H 20	White plastic ring for reflector	
982421.002	D 82, H 31	White plastic ring for lens	



Interchangeable optics			Price Category 21
982368.003	D 82, H 55	Reflector, narrow beam 17°	
982368.013	D 82, H 55	Reflector, medium beam 32°	
982368.033	D 82, H 55	Reflector, wide beam 62°	
982369.003	D 82, H 55	Lens, narrow beam 18°	
982369.013	D 82, H 55	Lens, medium beam 29°	
982369.023	D 82, H 55	Lens, wide beam 44°	
982369.033	D 82, H 55	Lens, very wide beam 70°	
982369.043	D 82, H 55	Lens with oval light distribution for corridor 28°/40°	



Accessories | Decorative recessed pendant set

Mounting kit for aesthetically pleasing ceiling connection of pendant luminaires.

Decorative recessed pendant set			Price Category 11
982572.002*	L 146, B 60, H 12, HE 80	Mounting kit for plasterboard ceilings	
982571.009	L 180, B 148, H 124, HE 130	Mounting set for concrete ceilings	
982570.009	L 180, B 180, H 124, HE 130	Mounting set for plastered concrete ceilings	

* Not suitable for DALI version



For further information please see page 278



Comparison LED vs. conventional lamps

LED 19 W ≈
1 x 35 W HIT (45 W Psys)

LED 29 W ≈
1 x 50 W HIT (60 W Psys)

Pendant luminaires | Deecos P Mini

Type of Protection: IP 20

Protection Class: I

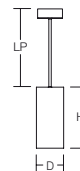
Impact Protection: IK06

Suspension Length: 5000 mm

Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. With optical assembly MIRO-SILVER® reflector or polycarbonate lens. Transparent pendant cable 5 m, can be shortened, with integrated steel cable. Canopy made of powder-coated sheet steel with magnetic attachment.

Suitable for decor cylinder Deecos P Tube.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR [°]	dim-able
Pendant luminaires - Pendant cable 5 m with integrated steel cable							
Including lens for best uniformity of the light cone							
911486.00X	D 87, H 195	LED	830	1700	19	44	16,0 on/off
911486.00X.76	D 87, H 195	LED	830	1700	19	44	16,0 DALI
911486.00X.1	D 87, H 195	LED	840	1800	19	44	16,2 on/off
911486.00X.1.76	D 87, H 195	LED	840	1800	19	44	16,2 DALI
911488.00X	D 87, H 195	LED	830	2450	29	44	17,3 on/off
911488.00X.76	D 87, H 195	LED	830	2450	29	44	17,3 DALI
911488.00X.1	D 87, H 195	LED	840	2550	29	44	17,4 on/off
911488.00X.1.76	D 87, H 195	LED	840	2550	29	44	17,4 DALI
Including reflector for maximum efficiency							
911485.00X	D 87, H 195	LED	830	2350	19	62	20,5 on/off
911485.00X.76	D 87, H 195	LED	830	2350	19	62	20,5 DALI
911485.00X.1	D 87, H 195	LED	840	2450	19	62	20,6 on/off
911485.00X.1.76	D 87, H 195	LED	840	2450	19	62	20,6 DALI
911487.00X	D 87, H 195	LED	830	3350	29	62	21,7 on/off
911487.00X.76	D 87, H 195	LED	830	3350	29	62	21,7 DALI
911487.00X.1	D 87, H 195	LED	840	3500	29	62	21,9 on/off
911487.00X.1.76	D 87, H 195	LED	840	3500	29	62	21,9 DALI

Versions with Ra > 90 colour rendition are also available in other light colours on request



Decorative cylinder Deecos P Tube			Price Category 21
982672.00X	D 95, H 500	Decorative cylinder extension	
982673.00X	D 95, H 750	Decorative cylinder extension	
982674.00X	D 95, H 1000	Decorative cylinder extension	

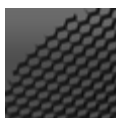
Only for versions with pendant cable 5 m



Diffuser			Price Category 21
982370.000	D 74, H 3	Safety glass clear	
982370.010	D 74, H 3	Safety glass, satin finish	



Decorative glasses			Price Category 21
982647.002	D 87, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock	
982648.002	D 87, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock	



Anti-glare honeycomb louvre			Price Category 21
982371.003	D 74, H 3	Honeycomb louvre Mini	



Interchangeable plastic rings			Price Category 21
982419.002	D 82, H 20	White plastic ring for reflector	
982421.002	D 82, H 31	White plastic ring for lens	



Interchangeable optics			Price Category 21
982368.003	D 82, H 55	Reflector, narrow beam 17°	
982368.013	D 82, H 55	Reflector, medium beam 32°	
982368.033	D 82, H 55	Reflector, wide beam 62°	
982369.003	D 82, H 55	Lens, narrow beam 18°	
982369.013	D 82, H 55	Lens, medium beam 29°	
982369.023	D 82, H 55	Lens, wide beam 44°	
982369.033	D 82, H 55	Lens, very wide beam 70°	
982369.043	D 82, H 55	Lens with oval light distribution for corridor 28°/40°	

Pendant luminaires | Deecos P Maxi

Type of Protection: IP 20

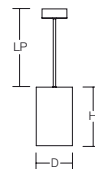
Protection Class: I

Impact Protection: IK06

Suspension Length: 2000 mm

Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. With optical assembly MIRO-SILVER® reflector or polycarbonate lens. Transparent suspension cable 2 m, can be shortened. Canopy made of powder-coated sheet steel with magnetic attachment.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-able
Pendant luminaires - Pendant cable 2 m							Price Category 21
Including lens for best uniformity of the light cone							
911481.00X	D 123, H 181	LED	830	3300	37	41	on/off
911481.00X.76	D 123, H 181	LED	830	3300	37	41	DALI
911481.00X.1	D 123, H 181	LED	840	3500	37	41	on/off
911481.00X.1.76	D 123, H 181	LED	840	3500	37	41	DALI
Including reflector for maximum efficiency							
911480.00X	D 123, H 181	LED	830	4050	37	34	on/off
911480.00X.76	D 123, H 181	LED	830	4050	37	34	DALI
911480.00X.1	D 123, H 181	LED	840	4250	37	34	on/off
911480.00X.1.76	D 123, H 181	LED	840	4250	37	34	DALI

Versions with Ra > 90 colour rendition are also available in other light colours on request

Comparison LED vs. conventional lamps

LED 37 W ≈
1 x 70 W HIT (84 W Psys)

Diffuser			Price Category 21
982374.000	D 111, H 3	Safety glass clear	
982374.010	D 111, H 3	Safety glass, satin finish	



Decorative glasses			Price Category 21
982649.002	D 123, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.	
982650.002	D 123, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.	



Anti-glare honeycomb louvre			Price Category 21
982375.003	D 111, H 3	Maxi honeycomb louvre	



Interchangeable plastic rings			Price Category 21
982420.002	D 118, H 20	White plastic ring for reflector	
982422.002	D 118, H 33	White plastic ring for lens	



Interchangeable optics			Price Category 21
982372.003	D 118, H 83	Reflector, narrow beam 10°	
982372.013	D 118, H 83	Reflector, medium beam 20°	
982372.023	D 118, H 83	Reflector, wide beam 34°	
982372.033	D 118, H 83	Reflector, very wide beam 63°	
982373.003	D 118, H 83	Lens, narrow beam 12°	
982373.013	D 118, H 83	Lens, medium beam 29°	
982373.023	D 118, H 83	Lens, wide beam 41°	



Accessories | Decorative recessed pendant set

Mounting kit for aesthetically pleasing ceiling connection of pendant luminaires.

Decorative recessed pendant set			Price Category 11
982572.002*	L 146, B 60, H 12, HE 80	Mounting kit for plasterboard ceilings	
982571.009	L 180, B 148, H 124, HE 130	Mounting set for concrete ceilings	
982570.009	L 180, B 180, H 124, HE 130	Mounting set for plastered concrete ceilings	

* Not suitable for DALI version



For further information please see page 278

DALI



TOLEDO FLAT

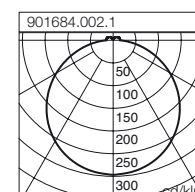
Pendant luminaires

- Flat cylindrical LED pendant luminaire in three sizes
- Easy installation with transparent and adjustable 2 m suspension cable and canopy
- **Lightguide** and plastic **diffuser** made of **non-yellowing PMMA**
- Very low installation height
- LED rated life 50,000 h (L70/B10)
- Colour rendering index Ra > 80
- Colour consistency within 4-steps MacAdam (4 SDCM)
- Applications: Corridors, side rooms, hotels, restaurants, conference rooms, private rooms

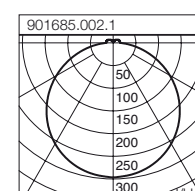


Further luminaires of this series, see:
 Indoor lighting | Recessed modular luminaires
 Indoor lighting | Fabric lampshade luminaires
 Indoor lighting | Recessed downlights
 Indoor lighting | Surface mounted downlights
 Emergency lighting | Escape route illumination

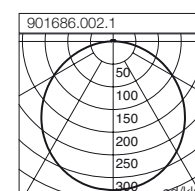
901684.002.1			
Floor 12 x 2,5 x 3m (0,2m)			
100 lx	150 lx	200 lx	
8	12	16	
Room 6 x 4 x 3 m (0,75 m)			
200 lx	300 lx	500 lx	
12	17	29	



901685.002.1			
Floor 12 x 2,5 x 3m (0,2m)			
100 lx	150 lx	200 lx	
4	6	8	
Room 6 x 4 x 3 m (0,75 m)			
200 lx	300 lx	500 lx	
6	8	13	



901686.002.1			
Floor 12 x 2,5 x 3m (0,2m)			
100 lx	150 lx	200 lx	
3	5	6	
Room 6 x 4 x 3 m (0,75 m)			
200 lx	300 lx	500 lx	
5	7	11	



Pendant luminaires | Toledo Flat

Type of Protection: IP 20

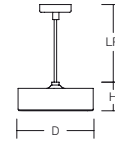
Protection Class: I

Impact Protection: IK06

Suspension Length: 2000 mm

Cylinder housing sheet steel, powder coated. Housing: die cast aluminium and sheet steel, powder-coated. Bezel ring: die-cast aluminium, powder coated. Light guide and diffuser made of non-yellowing PMMA, opal matt. Transparent suspension cable 2 m, can be shortened. Canopy: sheet steel, powder coated.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Pendant luminaires						
Diffuser: plastic, opal						
Diameter D 192 mm						
901684.002	D 192, H 83	LED	830	780	7,7	on/off
901684.002.76	D 192, H 83	LED	830	780	7,7	DALI
901684.002.1	D 192, H 83	LED	840	840	7,7	on/off
901684.002.1.76	D 192, H 83	LED	840	840	7,7	DALI
Diameter D 257 mm						
901685.002	D 257, H 89	LED	830	1650	17	on/off
901685.002.76	D 257, H 89	LED	830	1650	17	DALI
901685.002.1	D 257, H 89	LED	840	1800	17	on/off
901685.002.1.76	D 257, H 89	LED	840	1800	17	DALI
Diameter D 319 mm						
901686.002	D 319, H 89	LED	830	2150	22	on/off
901686.002.76	D 319, H 89	LED	830	2150	22	DALI
901686.002.1	D 319, H 89	LED	840	2250	22	on/off
901686.002.1.76	D 319, H 89	LED	840	2250	22	DALI

Price Category 21

Comparison

LED vs. conventional lamps

LED 7,7 W ≈

1 x 18 W TC-D (26 W Psys)

LED 17 W ≈

2 x 18 W TC-D (52 W Psys)

LED 22 W ≈

2 x 26 W TC-D (68 W Psys)



Accessories | Supporting ring for fabric lamp shades

Retrofittable holder for a tool-free mounting of a lamp shade.

Ring metal powder coated. M4 Threaded. Knurled nuts plastic.

Mounting ring for fabric lamp shades

982387.002	D 204, H 10	for surface and pendant Toledo Flat Round D 192 for mounting the lamp shade Toledo Flatliner 242
982388.002	D 270, H 10	for surface and pendant Toledo Flat Round D 257 for mounting the lamp shade Toledo Flatliner 307
982389.002	D 331, H 10	for surface and pendant Toledo Flat Round D 319 for mounting the lamp shade Toledo Flatliner 369

Price Category 21



Further luminaires of this series and a colour chart with more than 70 available colours, see: Indoor Lighting: Fabric lampshade luminaires



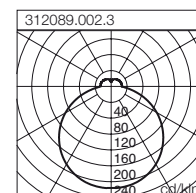


FLAT POLYMERO® KREIS SLIM

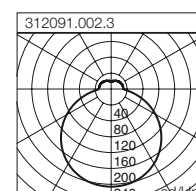
Pendant luminaires

- Comprehensive range consisting of: Pendant luminaires, Ceiling and wall luminaires
- Uniform lighting achieved by the use of LED panel boards
- Depending on the version, high-quality polycarbonate or PMMA are available as diffusers
- PMMA diffuser:
 - sturdy, scratch resistant (replacement for glass)
 - UV-resistant (non fade - no yellowing)
 - totally weatherproof
- PC diffuser:
 - hard, stiff, shatterproof, extremely shockproof
 - UV-stabilised
- With patented fastening technology
- Luminaire can be opened without tools
- LED exchangeable
- Colour consistency within 3-steps MacAdam (3 SDCM)
- LED rated life 50,000 h (L70/B10)

312089.002.3		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	6	8
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	8	13



312091.002.3		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	5	8



Further luminaires of this series, see:
Indoor lighting | Ceiling and wall luminaires - decorative

Pendant luminaires | Flat Polymero Kreis Slim

Type of Protection: **IP 40**

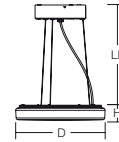
Protection Class: I

Impact Protection: IK03 (PMMA), IK10 (polycarbonate)

Suspension Length: 200-1300 mm, 350-1300 mm

Base and canopy: metal, powder-coated, white. Canopy Ø 205 mm, h 35 mm. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof. Diffuser fastening: patented push system.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Pendant luminaires						
Diffuser: plastic (PMMA)						
Diameter D 360 mm, LP 200-1300 mm						
312089.002.1 *	D 360, H 60	LED ⁽¹⁾	830	1900	21	on/off
312089.002.1.76 **	D 360, H 60	LED ⁽¹⁾	830	1900	21	DALI
312089.002.3 *	D 360, H 60	LED ⁽¹⁾	840	2000	21	on/off
312089.002.3.76 **	D 360, H 60	LED ⁽¹⁾	840	2000	21	DALI
Diameter D 460 mm, LP 200-1300 mm						
312241.002.1 *	D 460, H 65	LED ⁽¹⁾	830	2600	27	on/off
312241.002.1.76 **	D 460, H 65	LED ⁽¹⁾	830	3000	32	DALI
312241.002.3 *	D 460, H 65	LED ⁽¹⁾	840	2750	27	on/off
312241.002.3.76 **	D 460, H 65	LED ⁽¹⁾	840	3150	31	DALI
Diameter D 515 mm, LP 350-1300 mm						
312091.002.1 *	D 515, H 65	LED ⁽¹⁾	830	3100	33	on/off
312091.002.1.76 **	D 515, H 65	LED ⁽¹⁾	830	3700	40	DALI
312091.002.3 *	D 515, H 65	LED ⁽¹⁾	840	3200	33	on/off
312091.002.3.76 **	D 515, H 65	LED ⁽¹⁾	840	3800	38	DALI
Diffuser: plastic (polycarbonate)						
Diameter D 360 mm, LP 200-1300 mm						
312089.002.2 *	D 360, H 60	LED ⁽¹⁾	830	2000	21	on/off
312089.002.2.76 **	D 360, H 60	LED ⁽¹⁾	830	2000	21	DALI
312089.002.4 *	D 360, H 60	LED ⁽¹⁾	840	2050	21	on/off
312089.002.4.76 **	D 360, H 60	LED ⁽¹⁾	840	2050	21	DALI
Diameter D 460 mm, LP 200-1300 mm						
312241.002.2 *	D 460, H 65	LED ⁽¹⁾	830	2850	27	on/off
312241.002.2.76 **	D 460, H 65	LED ⁽¹⁾	830	3300	32	DALI
312241.002.4 *	D 460, H 65	LED ⁽¹⁾	840	3000	27	on/off
312241.002.4.76 **	D 460, H 65	LED ⁽¹⁾	840	3450	31	DALI
Diameter D 515 mm, LP 350-1300 mm						
312091.002.2	D 515, H 65	LED ⁽¹⁾	830	3400	33	on/off
312091.002.2.76 **	D 515, H 65	LED ⁽¹⁾	830	4050	40	DALI
312091.002.4	D 515, H 65	LED ⁽¹⁾	840	3500	33	on/off
312091.002.4.76 **	D 515, H 65	LED ⁽¹⁾	840	4150	38	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Price Category 11

Replacement diffusers			Price Category 13			
08-312085.002	D 360, H 61	Plastic (PMMA)				
08-312085.022	D 360, H 61	Plastic (polycarbonate)				
08-312086.002	D 460, H 68	Plastic (PMMA)				
08-312086.022	D 460, H 68	Plastic (polycarbonate)				
08-312087.002	D 515, H 69	Plastic (PMMA)				
08-312087.022	D 515, H 69	Plastic (polycarbonate)				



Applies to versions with .76

Comparison LED vs. conventional lamps

LED 21 W ≈

2 x 26 W TC-D (68 W Psys)

LED 27 / 31 / 32 W ≈

3 x 26 W TC-D (102 W Psys)

LED 33 / 38 / 40 W ≈

4 x 26 W TC-D (136 W Psys)

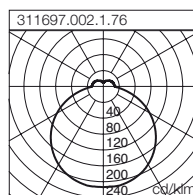


FLAT POLYMERO® KREIS

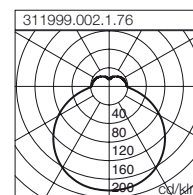
Pendant luminaires

- Comprehensive range consisting of: Pendant luminaires, Ceiling and wall luminaires
- Depending on the version, high-quality polycarbonate or PMMA are available as diffusers
- Uniform lighting achieved by the use of LED panel boards
- Numerous customized solutions are available on demand
- Colour consistency within 3-steps MacAdam (3 SDCM)

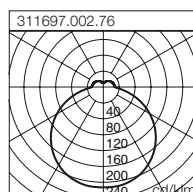
311697.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	1	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
1	2	3



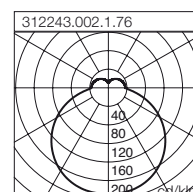
311999.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	5	7



311697.002.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	2	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	2	3



312243.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	5	8



Further luminaires of this series, see:
Indoor lighting | Ceiling and wall luminaires - decorative





Applies to
versions
with .76

Comparison

LED vs. conventional lamps

LED 21 W ≈

2 x 26 W TC-D (68 W Psys)

LED 27 W ≈

3 x 26 W TC-D (102 W Psys)

LED 31 / 32 / 33 / 38 / 40 W ≈

4 x 26 W TC-D (136 W Psys)

Pendant luminaires | Flat Polymero Kreis

Type of Protection: IP 40

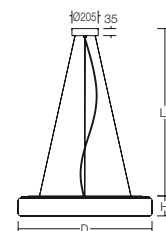
Protection Class: I

Impact Protection: IK03 (PMMA), IK10 (polycarbonate)

Suspension Length: 200-1300 mm, 350-1300 mm

Base and canopy: metal, powder-coated, white. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof. Diffuser fastening: patented push system. Canopy Ø 205 mm, h 35 mm. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Pendant luminaires						
Diffuser: plastic (PMMA)						
D 360 mm, LP 200-1300 mm						
311978.002.3 *	D 360, H 87	LED ⁽¹⁾	830	1950	21	on/off
311978.002.3.76 **	D 360, H 87	LED ⁽¹⁾	830	1950	21	DALI
311978.002.1 *	D 360, H 87	LED ⁽¹⁾	840	2000	21	on/off
311978.002.1.76 **	D 360, H 87	LED ⁽¹⁾	840	2000	21	DALI
D 460 mm, LP 200-1300 mm						
312243.002.3 *	D 460, H 93	LED ⁽¹⁾	830	2750	27	on/off
312243.002.3.76 **	D 460, H 93	LED ⁽¹⁾	830	3200	32	DALI
312243.002.1 *	D 460, H 93	LED ⁽¹⁾	840	2900	27	on/off
312243.002.1.76 **	D 460, H 93	LED ⁽¹⁾	840	3350	31	DALI
D 515 mm, LP 350-1300 mm						
311999.002.3	D 515, H 98	LED ⁽¹⁾	830	3200	33	on/off
311999.002.3.76 **	D 515, H 98	LED ⁽¹⁾	830	3800	40	DALI
311999.002.1	D 515, H 98	LED ⁽¹⁾	840	3200	33	on/off
311999.002.1.76 **	D 515, H 98	LED ⁽¹⁾	840	3750	38	DALI
Diffuser: plastic (polycarbonate)						
D 360 mm, LP 200-1300 mm						
311978.002.4 *	D 360, H 87	LED ⁽¹⁾	830	2000	21	on/off
311978.002.4.76 **	D 360, H 87	LED ⁽¹⁾	830	2000	21	DALI
311978.002.2 *	D 360, H 87	LED ⁽¹⁾	840	2150	21	on/off
311978.002.2.76 **	D 360, H 87	LED ⁽¹⁾	840	2150	21	DALI
D 460 mm, LP 200-1300 mm						
312243.002.4 *	D 460, H 93	LED ⁽¹⁾	830	3000	27	on/off
312243.002.4.76 **	D 460, H 93	LED ⁽¹⁾	830	3500	32	DALI
312243.002.2 *	D 460, H 93	LED ⁽¹⁾	840	3050	27	on/off
312243.002.2.76 **	D 460, H 93	LED ⁽¹⁾	840	3600	31	DALI
D 515 mm, LP 350-1300 mm						
311999.002.4	D 515, H 98	LED ⁽¹⁾	830	3400	33	on/off
311999.002.4.76 **	D 515, H 98	LED ⁽¹⁾	830	4050	40	DALI
311999.002.2	D 515, H 98	LED ⁽¹⁾	840	3400	33	on/off
311999.002.2.76 **	D 515, H 98	LED ⁽¹⁾	840	4050	38	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Replacement diffusers

Price Category 13

08-311595.002	D 360, H 81	Plastic (PMMA)
08-311595.022	D 360, H 81	Plastic (polycarbonate)
08-311600.022	D 460, H 87	Plastic (polycarbonate)
08-311600.002	D 460, H 88	Plastic (PMMA)
08-311604.022	D 515, H 92	Plastic (polycarbonate)
08-311604.002	D 515, H 93	Plastic (PMMA)

Pendant luminaires | Flat Polymero Kreis XXL

Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK07 (PMMA), IK10 (polycarbonate)

Suspension Length: 600-1300 mm

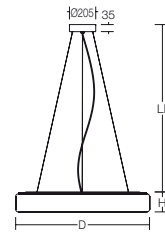
Base and canopy: metal, powder-coated, white. Canopy Ø 205 mm, h 35 mm.

3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof.

Diffuser fastening: sash lock.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Pendant luminaires						Price Category 21
Diffuser: plastic (PMMA) D 1040 mm						
311697.002.76	D 1040, H 150	LED	830	9600	100	DALI
311697.002.1.76	D 1040, H 150	LED	840	10400	100	DALI
Diffuser: plastic (polycarbonate) D 1040 mm						
311697.002.2.76	D 1040, H 150	LED	830	10400	100	DALI
311697.002.3.76	D 1040, H 150	LED	840	11300	100	DALI



Comparison LED vs. conventional lamps

LED 100 W ≈

4 x 55 W TC-L (232 W Psys)

Replacement diffusers						Price Category 13
08-311292.002	D 1040, H 150	Plastic (PMMA)				
08-311292.022	D 1040, H 150	Plastic (polycarbonate)				



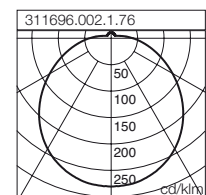


FLAT POLYMERO®

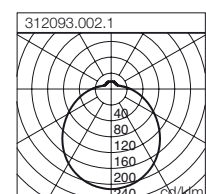
Pendant luminaires

- A range with outstanding variety of types, consisting of: Pendant luminaires, Ceiling and wall luminaires
- Depending on the version, high-quality polycarbonate or PMMA are available as diffusers
- Uniform lighting achieved by the use of LED panel boards
- Colour consistency within 3-steps MacAdam (3 SDCM)

311696.002.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	1	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
1	2	3



312093.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	5	9



Further luminaires of this series, see:
Indoor lighting | Ceiling and wall luminaires - decorative





Applies to
versions
with .76

Comparison

LED vs. conventional lamps

LED 21 W ≈

2 x 26 W TC-D (68 W Psys)

LED 27 W ≈

3 x 26 W TC-D (102 W Psys)

LED 31 / 32 / 33 / 38 / 40 W ≈

4 x 26 W TC-D (136 W Psys)

Pendant luminaires | Flat Polymero

Type of Protection: IP 40

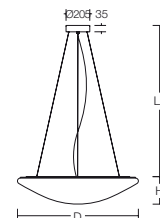
Protection Class: I

Impact Protection: IK03 (PMMA), IK10 (polycarbonate)

Suspension Length: 200-1300 mm, 350-1300 mm

Base and canopy: metal, powder-coated, white. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof. Diffuser fastening: patented push system. Canopy Ø 205 mm, h 35 mm. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Pendant luminaires						
Diffuser: plastic (PMMA)						
D 360 mm, LP 200-1300 mm						
311974.002.3 *	D 360, H 100	LED ⁽¹⁾	830	1850	21	on/off
311974.002.3.76 **	D 360, H 100	LED ⁽¹⁾	830	1850	21	DALI
311974.002.1 *	D 360, H 100	LED ⁽¹⁾	840	1950	21	on/off
311974.002.1.76 **	D 360, H 100	LED ⁽¹⁾	840	1950	21	DALI
D 460 mm, LP 200-1300 mm						
312245.002.3 *	D 460, H 120	LED ⁽¹⁾	830	2750	27	on/off
312245.002.3.76 **	D 460, H 120	LED ⁽¹⁾	830	3200	32	DALI
312245.002.1 *	D 460, H 120	LED ⁽¹⁾	840	2850	27	on/off
312245.002.1.76 **	D 460, H 120	LED ⁽¹⁾	840	3350	31	DALI
D 515 mm, LP 350-1300 mm						
312093.002.3	D 515, H 150	LED ⁽¹⁾	830	3200	33	on/off
312093.002.3.76 **	D 515, H 150	LED ⁽¹⁾	830	3750	40	DALI
312093.002.1 *	D 515, H 150	LED ⁽¹⁾	840	3200	33	on/off
312093.002.1.76 **	D 515, H 150	LED ⁽¹⁾	840	3800	38	DALI
D 620 mm, LP 350-1300 mm						
312097.002.3	D 620, H 160	LED ⁽¹⁾	830	3200	33	on/off
312097.002.3.76 **	D 620, H 160	LED ⁽¹⁾	830	3750	40	DALI
312097.002.1	D 620, H 160	LED ⁽¹⁾	840	3200	33	on/off
312097.002.1.76 **	D 620, H 160	LED ⁽¹⁾	840	3800	38	DALI
Diffuser: plastic (polycarbonate)						
D 360 mm, LP 200-1300 mm						
311974.002.4 *	D 360, H 100	LED ⁽¹⁾	830	1900	21	on/off
311974.002.4.76 **	D 360, H 100	LED ⁽¹⁾	830	1900	21	DALI
311974.002.2 *	D 360, H 100	LED ⁽¹⁾	840	2000	21	on/off
311974.002.2.76 **	D 360, H 100	LED ⁽¹⁾	840	2000	21	DALI
D 460 mm, LP 200-1300 mm						
312245.002.4 *	D 460, H 120	LED ⁽¹⁾	830	2950	27	on/off
312245.002.4.76 **	D 460, H 120	LED ⁽¹⁾	830	3450	32	DALI
312245.002.2 *	D 460, H 120	LED ⁽¹⁾	840	2950	27	on/off
312245.002.2.76 **	D 460, H 120	LED ⁽¹⁾	840	3450	31	DALI
D 515 mm, LP 350-1300 mm						
312093.002.4	D 515, H 150	LED ⁽¹⁾	830	3250	33	on/off
312093.002.4.76 **	D 515, H 150	LED ⁽¹⁾	830	3800	40	DALI
312093.002.2	D 515, H 150	LED ⁽¹⁾	840	3250	33	on/off
312093.002.2.76 **	D 515, H 150	LED ⁽¹⁾	840	3850	38	DALI
D 620 mm, LP 350-1300 mm						
312097.002.4	D 620, H 160	LED ⁽¹⁾	830	3250	33	on/off
312097.002.4.76 **	D 620, H 160	LED ⁽¹⁾	830	3850	40	DALI
312097.002.2	D 620, H 160	LED ⁽¹⁾	840	3250	33	on/off
312097.002.2.76 **	D 620, H 160	LED ⁽¹⁾	840	3900	38	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Replacement diffusers			Price Category 13
08-311161.012	D 360, H 88	Plastic (PMMA)	
08-311161.032	D 360, H 88	Plastic (polycarbonate)	
08-311165.012	D 460, H 113	Plastic (PMMA)	
08-311165.032	D 460, H 113	Plastic (polycarbonate)	
08-311170.012	D 515, H 137	Plastic (PMMA)	
08-311170.032	D 515, H 137	Plastic (polycarbonate)	
08-311173.012	D 620, H 150	Plastic (PMMA)	
08-311173.042	D 620, H 150	Plastic (polycarbonate)	

Pendant luminaires | Flat Polymero XXL

Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK10

Suspension Length: 600-1300 mm

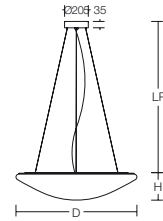
Base and canopy: metal, powder-coated, white. Canopy Ø 205 mm, h 35 mm.

3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof.

Diffuser fastening: sash lock.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Pendant luminaires						
Diffuser: plastic (PMMA) D 1040 mm						
311696.002.76	D 1040, H 230	LED	830	9450	100	DALI
311696.002.1.76	D 1040, H 230	LED	840	10300	100	DALI
Diffuser: plastic (polycarbonate) D 1040 mm						
311696.002.2.76	D 1040, H 230	LED	830	10000	100	DALI
311696.002.3.76	D 1040, H 230	LED	840	10900	100	DALI



Price Category 21

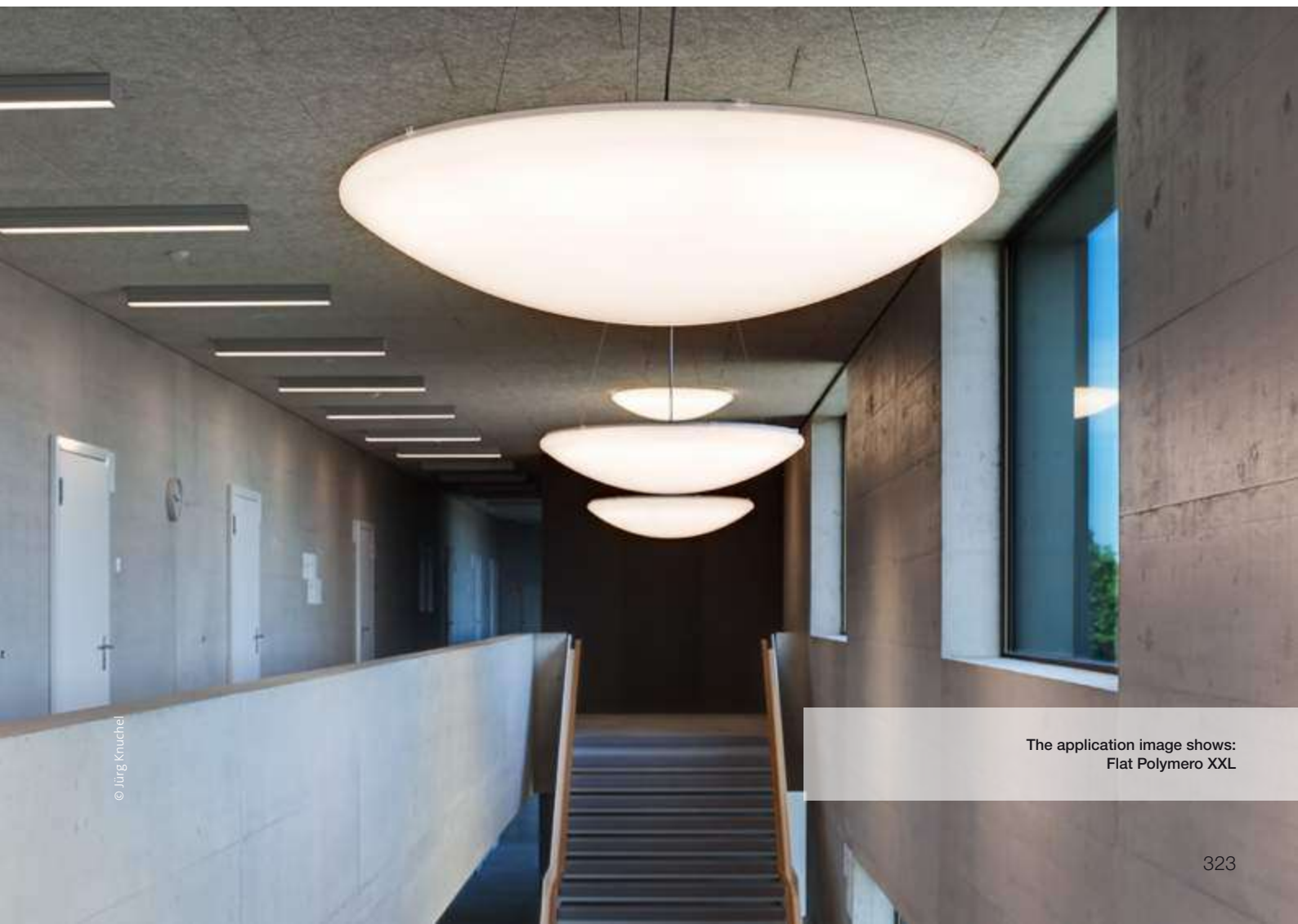
Comparison LED vs. conventional lamps

LED 100 W ≈

4 x 55 W TC-L (232 W Psys)

Replacement diffusers						
08-311183.022	D 1040, H 230	Plastic (PMMA)				
08-311183.042	D 1040, H 230	Plastic (polycarbonate)				

Price Category 13





Pendant luminaires | Less is more 27 Kristall

Type of Protection: IP 20

Protection Class: I

Suspension Length: 100-1500 mm

Housing: extruded aluminium profile, powder-coated. End cap aluminium powder-coated.

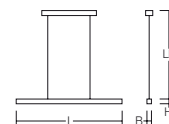
Direct light emission: made by hand from tempered crystal glass, coated white (opal) on one side.

Indirect light emission: plastic (non-yellowing PMMA), opal. Power supply through suspension

cable. 2-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Converter integrated in the canopy.

Available colour: 45 = white aluminium



Pendant luminaires

Length L 909 mm

312246.0045.1 L 909, B 28, H 54

312246.0045.1.76 L 909, B 28, H 54

312246.0045 L 909, B 28, H 54

312246.0045.76 L 909, B 28, H 54

Length L 1409 mm

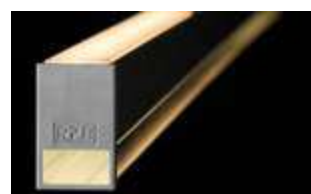
312247.0045.1 L 1409, B 28, H 54

312247.0045.1.76 L 1409, B 28, H 54

312247.0045 L 1409, B 28, H 54

312247.0045.76 L 1409, B 28, H 54

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-able
Price Category 21							
312246.0045.1	L 909, B 28, H 54	LED	840	1550	31	19,6	on/off
312246.0045.1.76	L 909, B 28, H 54	LED	840	1550	31	19,6	DALI
312246.0045	L 909, B 28, H 54	LED	830	1550	35	19,5	on/off
312246.0045.76	L 909, B 28, H 54	LED	830	1550	35	19,5	DALI
312247.0045.1	L 1409, B 28, H 54	LED	840	2600	52	19,9	on/off
312247.0045.1.76	L 1409, B 28, H 54	LED	840	2600	52	19,9	DALI
312247.0045	L 1409, B 28, H 54	LED	830	2600	58	19,9	on/off
312247.0045.76	L 1409, B 28, H 54	LED	830	2600	58	19,9	DALI



End caps overlap the profile



High-quality crystal glass cover (coated white on the inside)



Indirect illumination with side light effect





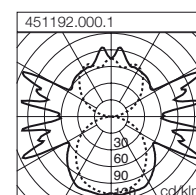
LAVANO®

Pendant luminaires

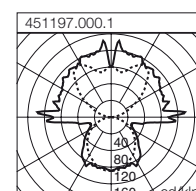
- Comprehensive range consisting of: Pendant luminaires, Ceiling and wall luminaires
- The technical features of these luminaires with their LEDs and two diffusers for dual light direction guarantee high levels of visual comfort and lighting intensity

- Lavano Uno with single-side light output
- The special design of the diffuser generates brightly sparkling direct light along the contour of the ellipse
- LED rated life 50,000 h (L90/B10)

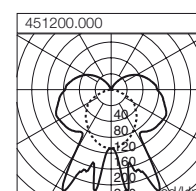
451192.000.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



451197.000.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



451200.000		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	5	7
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	7	12



Further luminaires of this series, see:
Indoor lighting | Ceiling and wall luminaires - linear

Pendant luminaires | Lavano

Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK02

Suspension Length: 1200 mm

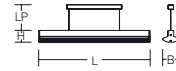
Extruded aluminium profile base, lacquered. End caps aluminium, painted.

Diffuser: plastic, opal, allows for brilliant glittering light along the lines of the ellipse.

2-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour for decorative board: aluminium, brushed (.1)

Available colour: 0 = white aluminium



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 21
Pendant luminaires							
451192.000.1	L 1140, B 109, H 80	LED	830	5150	47	on/off	
451192.000.1.76	L 1140, B 109, H 80	LED	830	5150	47	DALI	

Comparison LED vs. conventional lamps

LED 47 W ≈

1 x 80 W T16 (86 W Psys)

Pendant luminaires | Lavano Wing

Type of Protection: **IP 40**

Protection Class: I

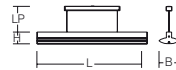
Impact Protection: IK03

Suspension Length: 1200 mm

Extruded aluminium profile base, lacquered. End caps aluminium, painted. Diffuser (tapering at the sides): plastic (PMMA), opal, allows for brilliant glittering light. 2-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour for decorative board: aluminium, brushed (.1)

Available colour: 0 = white aluminium



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 21
Pendant luminaires							
451197.000.1	L 1140, B 150, H 180	LED	830	5700	47	on/off	
451197.000.1.76	L 1140, B 150, H 180	LED	830	5700	47	DALI	

Comparison LED vs. conventional lamps

LED 47 W ≈

1 x 80 W T16 (86 W Psys)

Pendant luminaires | Lavano Uno

Type of Protection: **IP 40**

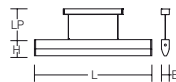
Protection Class: I

Impact Protection: IK02

Suspension Length: 1200 mm

Extruded aluminium profile base, lacquered. End caps aluminium, painted. Diffuser: plastic, opal, allows for brilliant glittering light along the lines of the ellipse. 2-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 0 = white aluminium



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 21
Pendant luminaires							
451200.000	L 1140, B 40, H 83	LED	830	2500	23	on/off	
451200.000.76	L 1140, B 40, H 83	LED	830	2500	23	DALI	

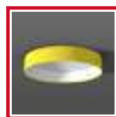
Comparison LED vs. conventional lamps

LED 23 W ≈

1 x 36 W T26 (43 W Psys)



The application image shows:
Flatliner



334-335



336-337

Toledo Flat
332-337



340-341



342-343

Flatliner Slim
338-343



345



346

Flatliner
344-346



350-351



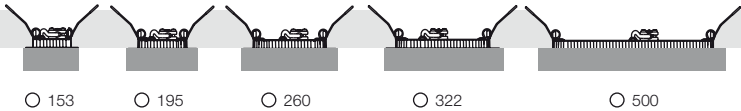
352-353

Toledo Flatliner
348-353

CEILING LUMINAIRES

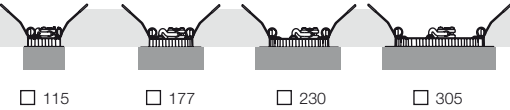
Toledo Flat Round

H 60



Toledo Flat Square

H 60



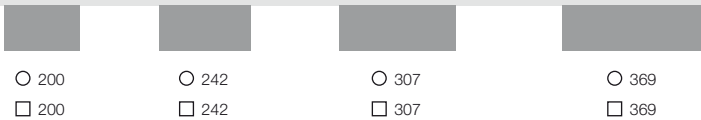
Flatliner Slim

H 60



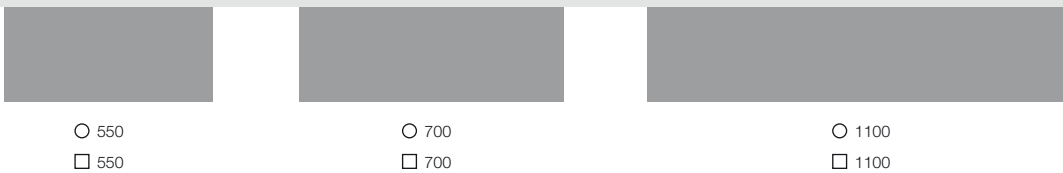
Toledo Flatliner

H 120



Flatliner

H 250



Toledo Flatliner

H 300



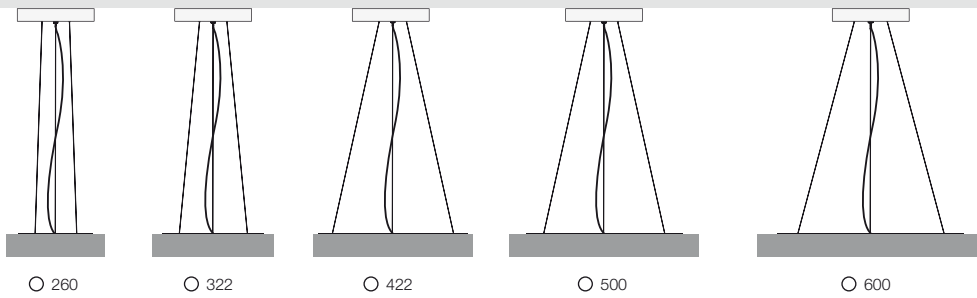
Colour options of the chintz lampshades



PENDANT LUMINAIRES

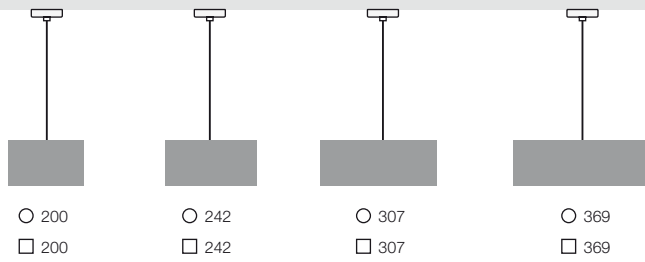
Flatliner Slim

H 60



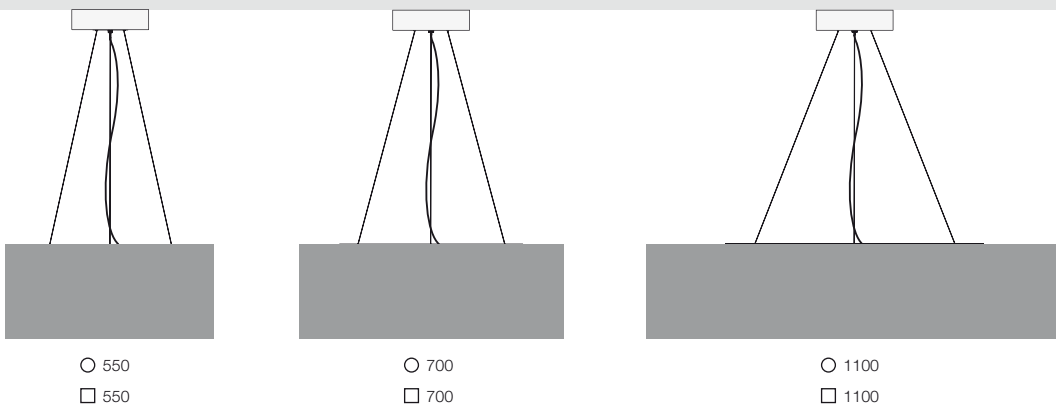
Toledo Flatliner

H 120



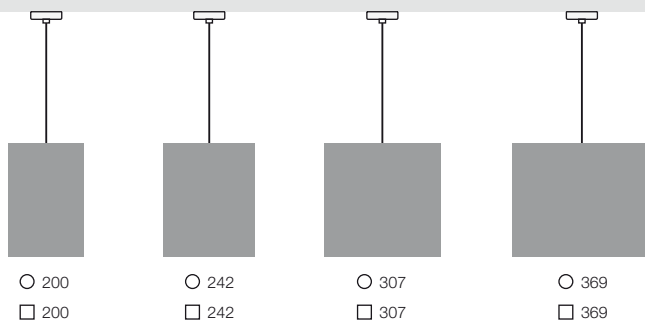
Flatliner

H 250



Toledo Flatliner

H 300





TOLEDO FLAT

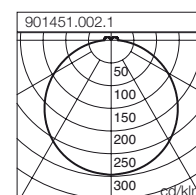
Recessed downlights with decorative fabric lampshade (accessories)

- Ultra thin recessed LED downlight
- **Lightguide** and plastic **diffuser** made of **non-yellowing PMMA**
- Shallow recessed depth
- LED rated life 50,000 h (L70/B10)
- Colour rendering index Ra > 80
- Colour consistency within 4-steps MacAdam (4 SDCM)
- Tunable white versions dynamically adjustable from 2700 K to 6500 K
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download
- Versions with connected HF motion detector can be configured through app via Bluetooth® or buttons
- Easy to install thanks to tool-free spring fastening system
- Can be directly covered with thermal insulation material (does not apply for D 495 mm diameter)
- Separate converter box with connecting cable
- DALI converter is compatible with DC, suitable for central battery system
- Retrofittable decorative cylinders made of chintz fabric as accessory, optional with satin finish polycarbonate diffuser
- Applications: Corridors, side rooms, hotels, restaurants, conference rooms, private rooms

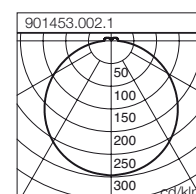


Further luminaires of this series, see:
 Indoor lighting | Recessed modular luminaires
 Indoor lighting | Pendant luminaires
 Indoor lighting | Recessed downlights
 Indoor lighting | Surface mounted downlights
 Emergency lighting | Escape route illumination

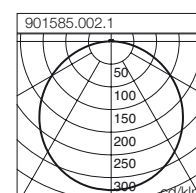
901451.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
13	19	25
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
18	27	45



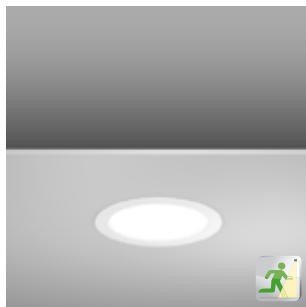
901453.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	6	8
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
6	8	13



901585.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	7







Recessed downlights | Toledo Flat Round

Type of Protection: IP 20, **IP 54** on room side

Protection Class: II

Ceiling thickness: 1-20 mm

Impact Protection: IK03 (Tunable White), IK06

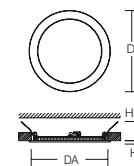
Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Incl. separate LED converter with connecting cable 250 mm.

Available colour: 2 = white

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 5 W ≈

1 x 10 W TC-D (16 W Psys)

LED 7,7 W ≈

1 x 18 W TC-D (26 W Psys)

LED 17 / 18 W ≈

1 x 32 W TC-D (36 W Psys)

LED 22 / 23 W ≈

2 x 26 W TC-D (68 W Psys)

LED 30 W ≈

3 x 26 W TC-D (102 W Psys)

4 x 14 W T16 (68 W Psys)

4 x 18 W T26 (104 W Psys)

Recessed downlights

Diffuser: plastic, opal

Ceiling cut out DA 128 mm

901451.002.Q D 148, H 2, HE 27-53

LED

830

470

5

110

on/off

✓

901451.002.76 D 148, H 2, HE 31-53

LED

830

470

5

110

DALI

901451.002.1.Q D 148, H 2, HE 27-53

LED

840

530

5

110

on/off

✓

901451.002.1.76 D 148, H 2, HE 31-53

LED

840

530

5

110

DALI

Ceiling cut out DA 170 mm

901452.002.Q D 190, H 2, HE 27-53

LED

830

780

7,7

110

on/off

✓

901452.002.76 D 190, H 2, HE 31-53

LED

830

780

7,7

110

DALI

901452.002.1.Q D 190, H 2, HE 27-53

LED

840

840

7,7

110

on/off

✓

901452.002.1.76 D 190, H 2, HE 31-53

LED

840

840

7,7

110

DALI

Ceiling cut out DA 234 mm

901453.002.Q D 255, H 3, HE 30-56

LED

830

1650

17

110

on/off

✓

901453.002.76.Q D 255, H 3, HE 31-56

LED

830

1650

17

110

DALI

901453.002.1.Q D 255, H 3, HE 30-56

LED

840

1800

17

110

on/off

✓

901453.002.1.76.Q D 255, H 3, HE 31-56

LED

840

1800

17

110

DALI

Tunable White - 2700 K to 6500 K

901666.002.76 D 255, H 3, HE 30-56

LED

827-865

1500

18

110

DALI

901666.002.730 D 255, H 3, HE 55-75

LED

827-865

1550

18

110

smart+free

Ceiling cut out DA 288 mm

901484.002.Q D 317, H 3, HE 31-54

LED

830

2150

22

108

on/off

✓

901484.002.76.Q D 317, H 3, HE 31-54

LED

830

2150

22

108

DALI

901484.002.1.Q D 317, H 3, HE 31-54

LED

840

2250

22

108

on/off

✓

901484.002.1.76 D 317, H 3, HE 31-54

LED

840

2250

22

108

DALI

Tunable White - 2700 K to 6500 K

901667.002.76 D 317, H 3, HE 31-54

LED

827-865

2100

23

108

DALI

901667.002.730 D 317, H 3, HE 55-75

LED

827-865

2150

23

108

smart+free

Ceiling cut out DA 470 mm

901585.002 D 495, H 6, HE 40-59

LED

830

3550

30

113

on/off

901585.002.76 D 495, H 6, HE 40-59

LED

830

3550

30

113

DALI

901585.002.1 D 495, H 6, HE 40-59

LED

840

3600

30

113

on/off

901585.002.1.76 D 495, H 6, HE 40-59

LED

840

3600

30

113

DALI

Tunable White - 2700 K to 6500 K

901668.002.76 D 495, H 6, HE 35-55

LED

827-865

2850

30

113

DALI

901668.002.730 D 495, H 6, HE 55-75

LED

827-865

2850

30

113

smart+free



D 148



D 190



D 255



D 317



D 495

Recessed downlights | Toledo Flat Round with movement sensor

Type of Protection: IP 20, **IP 54** on room side

Protection Class: II

Ceiling thickness: 1-20 mm

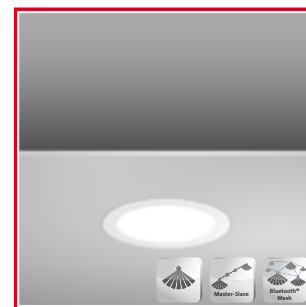
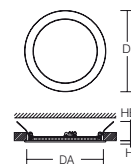
Impact Protection: IK04

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Incl. separate LED converter with connecting cable 250 mm.

Available colour: 2 = white



Function parameters: HF motion detector EASY

- HF detector 5.8 GHz
- Holding time 10 sec. - 20 min.; adjustable in 7 steps
- Detection angle 120°
- Range up to 8 m; adjustable in 5 steps
- Factory setting: holding time 15 minutes, range approx. 6 m
- Adjustable in control gear box
- Master-slave: up to three additional Toledo Flat on/off 17 W can be connected

Function parameters: HF motion detector Bluetooth® DALI

- HF detector 5.8 GHz
- Holding time 5 sec. - 60 min.; adjustable in 13 steps
- Detection angle 120°
- Range up to 8 m; adjustable in 10% steps
- Factory setting: hold time 30 seconds, range approx. 6 m, dim level 30%
- Dim functions: Soft Start, Corridor, Permanent
- Additional functions: create profiles and groups, networking the sensors
- Functions adjustable via MICAS Autolight app on tablet or smartphone
- Master-master via Bluetooth® mesh and master-slave wired
- Master-slave: up to three additional Toledo Flat DALI 17 W can be connected



**MICAS Autolight App -
download now!**

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	
Recessed downlights with connected movement sensor							Price Category 21
Diffuser: plastic, opal							
Ceiling cut out DA 234 mm							
HF-movement sensor EASY adjustable with buttons							
901453.002.19	D 255, H 3, HE 55-76	LED	830	1650	17	110 on/off	
901453.002.1.19	D 255, H 3, HE 55-76	LED	840	1800	17	109 on/off	
HF-movement sensor adjustable with app via Bluetooth®-DALI							
901715.002.19	D 255, H 3, HE 55-76	LED	830	1650	17	110 on/off	
901715.002.1.19	D 255, H 3, HE 55-76	LED	840	1800	17	109 on/off	

Not suitable for metal ceilings.

Accessories | Chintz decorative element Toledo Flat Round

Standard colour covering surface: 66.8003.01 white

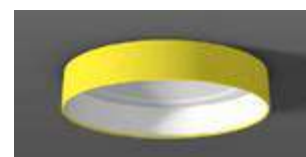
Further colours (see page 347) available at the same price.

Please include the colour code in your order.

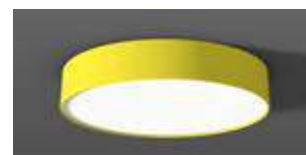
Can be retrofitted without tools to the recessed downlight.

Please be aware of possible increased freight charges for deliveries outside of Germany.

Available colour: 2 = white



without diffuser



with diffuser

Chintz lampshades			Price Category 21			
982319.002	D 153, H 60	Chintz decorative cylinder for Toledo Flat Round D 148				
982320.002	D 195, H 60	Chintz decorative cylinder for Toledo Flat Round D 190				
982321.002	D 260, H 60	Chintz decorative cylinder for Toledo Flat Round D 255				
982322.002	D 322, H 60	Chintz decorative cylinder for Toledo Flat Round D 317				
982323.002	D 500, H 60	Chintz decorative cylinder for Toledo Flat Round D 495				

Cannot be fitted with surface mount housing

Satin finish polycarbonate diffuser (optional)

Price Category 21

Can be installed on the decorative element without any tools

982324.002	D 151, H 4	Accessories for chintz decorative cylinder D 153
982325.002	D 193, H 4	Accessories for chintz decorative cylinder D 195
982326.002	D 258, H 4	Accessories for chintz decorative cylinder D 260
982327.002	D 320, H 4	Accessories for chintz decorative cylinder D 322
982328.002	D 498, H 4	Accessories for chintz decorative cylinder D 500

Diffusers with Chintz fabric in all colours on request.



Colour chart Chintz lampshades

Price Category 21

W06630 Chintz lampshades are available in more than 70 different colours





Recessed downlights | Toledo Flat Square

Type of Protection: IP 20, **IP 54** on room side

Protection Class: II

Ceiling thickness: 1-20 mm

Impact Protection: IK03 (Tunable White), IK06

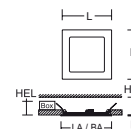
Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength. Incl. separate

LED converter with connecting cable 250 mm.

Available colour: 2 = white

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 5 W ≈

1 x 10 W TC-D (16 W Psys)

LED 8 W ≈

1 x 18 W TC-D (26 W Psys)

LED 17 / 18 W ≈

1 x 32 W TC-TEL (36 W Psys)

LED 21 / 24 W ≈

2 x 26 W TC-D (68 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	dim-able	
Price Category 21								
Diffuser: plastic, opal								
Ceiling cut out LA 96 x BA 96 mm								
901485.002	L 110, B 110, H 3, HE 27-56 LED	830	420	5	107	on/off	✓	
901485.002.76	L 110, B 110, H 3, HE 31-56 LED	830	420	5	107	DALI		
901485.002.1	L 110, B 110, H 3, HE 27-56 LED	840	430	5	107	on/off	✓	
901485.002.1.76	L 110, B 110, H 3, HE 31-56 LED	840	430	5	107	DALI		
Ceiling cut out LA 156 x BA 156 mm								
901486.002	L 172, B 172, H 3, HE 28-56 LED	830	770	8	108	on/off	✓	
901486.002.76	L 172, B 172, H 3, HE 31-56 LED	830	770	8	108	DALI		
901486.002.1	L 172, B 172, H 3, HE 28-56 LED	840	800	8	108	on/off	✓	
901486.002.1.76	L 172, B 172, H 3, HE 31-56 LED	840	800	8	108	DALI		
Ceiling cut out LA 208 x BA 208 mm								
901487.002 .Q	L 225, B 225, H 3, HE 29-56 LED	830	1650	17	108	on/off	✓	
901487.002.76	L 225, B 225, H 3, HE 31-56 LED	830	1650	17	108	DALI		
901487.002.1 .Q	L 225, B 225, H 3, HE 29-56 LED	840	1800	17	108	on/off	✓	
901487.002.1.76	L 225, B 225, H 3, HE 31-56 LED	840	1800	17	108	DALI		
Tunable White - 2700 K to 6500 K								
901670.002.76	L 225, B 225, H 3, HE 29-56 LED	827-865	1500	18	108	DALI		
901670.002.730	L 225, B 225, H 3, HE 55-75 LED	827-865	1500	18	108	smart+free		
Ceiling cut out LA 280 x BA 280 mm								
901488.002	L 300, B 300, H 3, HE 31-56 LED	830	2150	21	108	on/off	✓	
901488.002.76	L 300, B 300, H 3, HE 31-56 LED	830	2150	21	108	DALI		
901488.002.1 .Q	L 300, B 300, H 3, HE 31-56 LED	840	2250	21	108	on/off	✓	
901488.002.1.76	L 300, B 300, H 3, HE 31-56 LED	840	2250	21	108	DALI		
Tunable White - 2700 K to 6500 K								
901671.002.76	L 300, B 300, H 3, HE 31-56 LED	827-865	2200	24	108	DALI		
901671.002.730	L 300, B 300, H 3, HE 55-75 LED	827-865	2200	24	108	smart+free		



L x B 110



L x B 172



L x B 225



L x B 300

Recessed downlights | Toledo Flat Square with movement sensor

Type of Protection: IP 20, **IP 54** on room side

Protection Class: II

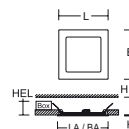
Ceiling thickness: 1-20 mm

Impact Protection: IK04

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength. Incl. separate LED converter with connecting cable 250 mm.

Available colour: 2 = white



Function parameters: HF motion detector EASY


- HF detector 5.8 GHz
- Holding time 10 sec. - 20 min.; adjustable in 7 steps
- Detection angle 120°
- Range up to 8 m; adjustable in 5 steps
- Factory setting: holding time 15 minutes, range approx. 6 m
- Adjustable in control gear box
- Master-slave: up to three additional Toledo Flat on/off 17 W can be connected

Function parameters: HF motion detector Bluetooth® DALI

- HF detector 5.8 GHz
- Holding time 5 sec. - 60 min.; adjustable in 13 steps
- Detection angle 120°
- Range up to 8 m; adjustable in 10% steps
- Factory setting: hold time 30 seconds, range approx. 6 m, dim level 30%
- Dim functions: Soft Start, Corridor, Permanent
- Additional functions: create profiles and groups, networking the sensors
- Functions adjustable via MICAS Autolight app on tablet or smartphone
- Master-master via Bluetooth® mesh and master-slave wired
- Master-slave: up to three additional Toledo Flat DALI 17 W can be connected



**MICAS Autolight App -
download now!**

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 dimmable	
Recessed downlights with connected movement sensor							Price Category 21
Diffuser: plastic, opal							
Ceiling cut out LA 208 x BA 208 mm							
HF-movement sensor EASY adjustable with buttons							
901487.002.19	L 225, B 225, H 3, HE 55-76 LED	830	1650	17	108	on/off	
901487.002.1.19	L 225, B 225, H 3, HE 55-76 LED	840	1800	17	108	on/off	
HF-movement sensor adjustable with app via Bluetooth®-DALI							
901716.002.19	L 225, B 225, H 3, HE 55-76 LED	830	1650	17	108	on/off	
901716.002.1.19	L 225, B 225, H 3, HE 55-76 LED	840	1800	17	108	on/off	

Not suitable for metal ceilings.

Accessories | Chintz decorative element Toledo Flat Square

Standard colour covering surface: 66.8003.01 white

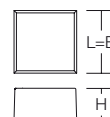
Further colours (see page 347) available at the same price.

Please include the colour code in your order.

Can be retrofitted without tools to the recessed downlight.

Please be aware of possible increased freight charges for deliveries outside of Germany.

Available colour: 2 = white



without diffuser



with diffuser

Chintz lampshades			Price Category 21
982501.002	L 115, B 115, H 60	Chintz decorative element for Toledo Flat Square 110 x 110	
982502.002	L 177, B 177, H 60	Chintz decorative element for Toledo Flat Square 172 x 172	
982503.002	L 230, B 230, H 60	Chintz decorative element for Toledo Flat Square 225 x 225	
982504.002	L 305, B 305, H 60	Chintz decorative element for Toledo Flat Square 300 x 300	

Cannot be fitted with surface mount housing

Satin finish polycarbonate diffuser (optional)

Can be installed on the decorative element without any tools

982505.002	L 113, B 113, H 4	Accessories for chintz decor cube 115 x 115
982506.002	L 175, B 175, H 4	Accessories for chintz decor cube 177 x 177
982507.002	L 228, B 228, H 4	Accessories for chintz decor cube 230 x 230
982508.002	L 303, B 303, H 4	Accessories for chintz decor cube 305 x 305

Diffusers with Chintz fabric in all colours on request.



Colour chart Chintz lampshades

W06630 Chintz lampshades are available in more than 70 different colours





FLATLINER SLIM

Ceiling luminaires, Pendant luminaires

- Decorative fabric lampshade luminaire for room design
- More than 70 different standard colours to choose for the fabric lampshade
- Material of fabric lampshade chintz or optionally also flame retardant fabric in compliance with B1
- Fabric lampshades can be fitted to the basic luminaire without tools
- LED rated life 50,000 h (L70/B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Ceiling or pendant mounting
- Very flat design with a height of only 60 mm





Applies to versions with .76

Comparison LED vs. conventional lamps

LED 13 W ≈
2 x 18 W TC-D (52 W Psys)



Comparison LED vs. conventional lamps

LED 21 W ≈
2 x 26 W TC-D (68 W Psys)



Comparison LED vs. conventional lamps

LED 27 / 31 W ≈
2 x 26 W TC-D (68 W Psys)



Ceiling luminaires | Flatliner Slim

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK00

Base: metal, white, powder-coated. Fabric lampshades and diffusers can be assembled without the use of tools.

Standard colour covering surface Chintz fabric lampshade: 66.8003.01 white
Standard bottom lampshade colour: 66.8003.01 white

Further colours (see page 347) are available at the same price. Please include the colour code in your order. Other colours for lampshade must be indicated separately.

Modular design: The lampshades need to be ordered separately for each luminaire.

Please be aware of possible increased freight charges for deliveries outside of Germany.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						Price Category 21
Flatliner Slim 260, ceiling mounting						
312280.002 *	D 255, H 34	LED ⁽¹⁾	830	950	13	on/off
312280.002.76 **	D 255, H 34	LED ⁽¹⁾	830	950	13	DALI
312280.002.1 *	D 255, H 34	LED ⁽¹⁾	840	1050	13	on/off
312280.002.1.76 **	D 255, H 34	LED ⁽¹⁾	840	1050	13	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%) | Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Flatliner Slim 260						
982555.002	D 260, H 60	Chintz lampshade with satin finish diffuser made of polycarbonate				

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						Price Category 21
Flatliner Slim 322, ceiling mounting						
312281.002 *	D 317, H 34	LED ⁽¹⁾	830	1600	21	on/off
312281.002.76 **	D 317, H 34	LED ⁽¹⁾	830	1600	21	DALI
312281.002.1 *	D 317, H 34	LED ⁽¹⁾	840	1700	21	on/off
312281.002.1.76 **	D 317, H 34	LED ⁽¹⁾	840	1700	21	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%) | Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Flatliner Slim 322						
982556.002	D 322, H 60	Chintz lampshade with satin finish diffuser made of polycarbonate				

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						Price Category 21
Flatliner Slim 422, ceiling mounting						
312283.002 *	D 418, H 34	LED ⁽¹⁾	830	1900	27	on/off
312283.002.76 **	D 418, H 34	LED ⁽¹⁾	830	2200	31	DALI
312283.002.1 *	D 418, H 34	LED ⁽¹⁾	840	2050	27	on/off
312283.002.1.76 **	D 418, H 34	LED ⁽¹⁾	840	2400	31	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%) | Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Flatliner Slim 422						
982557.002	D 422, H 60	Chintz lampshade with satin finish diffuser made of polycarbonate				

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						Price Category 21
Flatliner Slim 500, ceiling mounting						
312285.002	D 496, H 34	LED ⁽¹⁾	830	2300	33	on/off
312285.002.76 *	D 496, H 34	LED ⁽¹⁾	830	2750	38	DALI
312285.002.1	D 496, H 34	LED ⁽¹⁾	840	2500	33	on/off
312285.002.1.76 *	D 496, H 34	LED ⁽¹⁾	840	3000	38	DALI

* DALI dimmable (10-100%) | Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Flatliner Slim 500						
982558.002	D 500, H 60	Chintz lampshade with satin finish diffuser made of polycarbonate				

**Comparison
LED vs. conventional lamps**

LED 33 / 38 W \approx
3 x 26 W TC-D (102 W Psys)



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						Price Category 21
Flatliner Slim 600, ceiling mounting						
312287.002	D 596, H 34	LED ⁽¹⁾	830	2300	33	on/off
312287.002.76 *	D 596, H 34	LED ⁽¹⁾	830	2750	38	DALI
312287.002.1	D 596, H 34	LED ⁽¹⁾	840	2500	33	on/off
312287.002.1.76 *	D 596, H 34	LED ⁽¹⁾	840	3000	38	DALI

* DALI dimmable (10-100%) | Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Flatliner Slim 600						
982559.002	D 600, H 60	Chintz lampshade with satin finish diffuser made of polycarbonate				

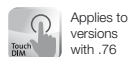
**Comparison
LED vs. conventional lamps**

LED 33 / 38 W \approx
3 x 26 W TC-D (102 W Psys)



Colour chart Chintz lampshades						Price Category 21
W06630	Chintz lampshades are available in more than 70 different colours					





Applies to versions with .76

Comparison LED vs. conventional lamps

LED 13 W ≈
2 x 18 W TC-D (52 W Psys)



Pendant luminaires | Flatliner Slim

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK00

Base and canopy: metal, powder-coated, white. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request. Transparent connecting cable. Fabric lampshades and diffusers can be assembled without the use of tools.

Standard colour covering surface Chintz fabric lampshade: 66.8003.01 white
Standard bottom lampshade colour: 66.8003.01 white

Further colours (see page 347) are available at the same price.

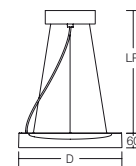
Please include the colour code in your order.

Other colours for lampshade must be indicated separately.

Modular design: The lampshades need to be ordered separately for each luminaire.

Please be aware of possible increased freight charges for deliveries outside of Germany.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Basic luminaire for lampshade attachment						Price Category 21
Flatliner Slim 260: Pendant length 200-1300 mm						
312289.002 *	D 255, H 34	LED ⁽¹⁾	830	950	13	on/off
312289.002.76 **	D 255, H 34	LED ⁽¹⁾	830	950	13	DALI
312289.002.1 *	D 255, H 34	LED ⁽¹⁾	840	1050	13	on/off
312289.002.1.76 **	D 255, H 34	LED ⁽¹⁾	840	1050	13	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%) | Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Flatliner Slim 260						
982555.002	D 260, H 60	Chintz lampshade with satin finish diffuser made of polycarbonate				

Comparison LED vs. conventional lamps

LED 21 W ≈
1 x 26 W TC-D (68 W Psys)



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Basic luminaire for lampshade attachment						Price Category 21
Flatliner Slim 322: Pendant length 200-1300 mm						
312282.002 *	D 317, H 34	LED ⁽¹⁾	830	1600	21	on/off
312282.002.76 **	D 317, H 34	LED ⁽¹⁾	830	1600	21	DALI
312282.002.1 *	D 317, H 34	LED ⁽¹⁾	840	1700	21	on/off
312282.002.1.76 **	D 317, H 34	LED ⁽¹⁾	840	1700	21	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%) | Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Flatliner Slim 322						
982556.002	D 322, H 60	Chintz lampshade with satin finish diffuser made of polycarbonate				

Comparison LED vs. conventional lamps

LED 27 / 31 W ≈
1 x 18 W TC-D (26 W Psys)



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Basic luminaire for lampshade attachment						Price Category 21
Flatliner Slim 422: Pendant length 200-1300 mm						
312284.002 *	D 418, H 34	LED ⁽¹⁾	830	1900	27	on/off
312284.002.76 **	D 418, H 34	LED ⁽¹⁾	830	2200	31	DALI
312284.002.1 *	D 418, H 34	LED ⁽¹⁾	840	2050	27	on/off
312284.002.1.76 **	D 418, H 34	LED ⁽¹⁾	840	2400	31	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%) | Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Flatliner Slim 422						
982557.002	D 422, H 60	Chintz lampshade with satin finish diffuser made of polycarbonate				

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						Price Category 21
Flatliner Slim 500: Pendant length 350-1300 mm						
312286.002	D 496, H 34	LED ⁽¹⁾	830	2300	33	on/off
312286.002.76 *	D 496, H 34	LED ⁽¹⁾	830	2750	38	DALI
312286.002.1	D 496, H 34	LED ⁽¹⁾	840	2500	33	on/off
312286.002.1.76 *	D 496, H 34	LED ⁽¹⁾	840	3000	38	DALI

* DALI dimmable (10-100%) | Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Flatliner Slim 500						
982558.002	D 500, H 60	Chintz lampshade with satin finish diffuser made of polycarbonate				

**Comparison
LED vs. conventional lamps**

LED 33 / 38 W \approx
3 x 26 W TC-D (102 W Psys)



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						Price Category 21
Flatliner Slim 600: Pendant length 350-1300 mm						
312288.002	D 596, H 34	LED ⁽¹⁾	830	2300	33	on/off
312288.002.76 *	D 596, H 34	LED ⁽¹⁾	830	2750	38	DALI
312288.002.1	D 596, H 34	LED ⁽¹⁾	840	2500	33	on/off
312288.002.1.76 *	D 596, H 34	LED ⁽¹⁾	840	3000	38	DALI

* DALI dimmable (10-100%) | Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Flatliner Slim 600						
982559.002	D 600, H 60	Chintz lampshade with satin finish diffuser made of polycarbonate				

**Comparison
LED vs. conventional lamps**

LED 33 / 38 W \approx
3 x 26 W TC-D (102 W Psys)



Colour chart Chintz lampshades						Price Category 21
W06630	Chintz lampshades are available in more than 70 different colours					





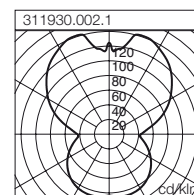
DALI

FLATLINER

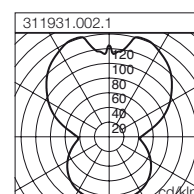
Ceiling luminaires, Pendant luminaires

- Decorative fabric lampshade luminaire for room design
- More than 70 different standard colours to choose for the fabric lampshade
- Standard shapes cylinder and cuboid
- Material of fabric lampshade chintz or optionally also flame retardant fabric in compliance with B1
- Ceiling or pendant mounting
- Fabric lampshades can be retrofitted to the basic luminaire without tools
- LED rated life 50,000 h (L80/B10)
- Colour consistency within 4-steps MacAdam (4 SDCM)

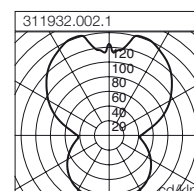
311930.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
6	9	12
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
9	13	21



311931.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	5	7
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	7	11



311932.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



Ceiling luminaires | Flatliner

Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK02

Base: metal, white, powder-coated. Lampshades can be mounted without tools.
The lampshades are closed at the bottom. Ceiling mounting.

Standard colour covering surface Chintz fabric lampshade: 66.8003.01 white

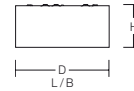
Standard bottom lampshade colour: 66.8003.01 white

Further colours (see page 347) are available at the same price. Please include the colour code in your order. Other colours for lampshade and diffuser must be indicated separately. Further lamp shade dimensions are available upon request.

Modular design: The lampshades need to be ordered separately for each luminaire.

Please be aware of possible increased freight charges for deliveries outside of Germany.

Available colour: 2 = white



Comparison LED vs. conventional lamps

LED 19 W ≈

2 x 26 W TC-D (68 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						Price Category 21
Flatliner 550, ceiling mounting						
311933.002	D 460, H 120	LED	830	1450	19	on/off
311933.002.76	D 460, H 120	LED	830	1450	19	DALI
311933.002.1	D 460, H 120	LED	840	1450	19	on/off
311933.002.1.76	D 460, H 120	LED	840	1450	19	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Flatliner 550						
981867.002	D 550, H 250	Shape: cylinder				
981870.002	L 550, B 550, H 250	Shape: cuboid				



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						Price Category 21
Flatliner 700, ceiling mounting						
311934.002	D 620, H 160	LED	830	2800	38	on/off
311934.002.76	D 620, H 160	LED	830	2800	38	DALI
311934.002.1	D 620, H 160	LED	840	2800	38	on/off
311934.002.1.76	D 620, H 160	LED	840	2800	38	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Flatliner 700						
981868.002	D 700, H 250	Shape: cylinder				
981871.002	L 700, B 700, H 250	Shape: cuboid				



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						Price Category 21
Flatliner 1100, ceiling mounting						
311935.002	D 1040, H 230	LED	830	7000	100	on/off
311935.002.76	D 1040, H 230	LED	830	7000	100	DALI
311935.002.1	D 1040, H 230	LED	840	7300	100	on/off
311935.002.1.76	D 1040, H 230	LED	840	7300	100	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Flatliner 1100						
981869.002	D 1100, H 250	Shape: cylinder				
981872.002	L 1100, B 1100, H 250	Shape: cuboid				



Colour chart Chintz lampshades						Price Category 21
W06630	Chintz lampshades are available in more than 70 different colours					





Comparison LED vs. conventional lamps

LED 19 W ≈
2 x 26 W TC-D (68 W Psys)



Comparison LED vs. conventional lamps

LED 38 W ≈
4 x 26 W TC-D (136 W Psys)



Comparison LED vs. conventional lamps

LED 100 W ≈
4 x 55 W TC-L (232 W Psys)



Pendant luminaires | Flatliner

Type of Protection: **IP 40**
Protection Class: I
Impact Protection: IK02
Suspension Length: 200-3500 mm

Base and canopy: metal, powder-coated, white. 3-point steel cable suspension, steplessly adjustable. Special lengths available on request. Transparent connecting cable.
Lampshades can be mounted without tools. The lampshades are closed at the bottom.

Standard colour covering surface Chintz fabric lampshade: 66.8003.01 white
Standard bottom lampshade colour: 66.8003.01 white

Further colours (see page 347) are available at the same price. Please include the colour code in your order. Other colours for lampshade and diffuser must be indicated separately. Further lamp shade dimensions are available upon request.

Modular design: The lampshades need to be ordered separately for each luminaire.

Please be aware of possible increased freight charges for deliveries outside of Germany.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						
Flatliner 550, Pendant length 200-3500 mm						
311930.002	D 460, H 120	LED	830	1450	19	on/off
311930.002.76	D 460, H 120	LED	830	1450	19	DALI
311930.002.1	D 460, H 120	LED	840	1450	19	on/off
311930.002.1.76	D 460, H 120	LED	840	1450	19	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						
Flatliner 550						
981867.002	D 550, H 250	Shape: cylinder				
981870.002	L 550, B 550, H 250	Shape: cuboid				

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						
Flatliner 700, Pendant length 350-3500 mm						
311931.002	D 620, H 160	LED	830	2800	38	on/off
311931.002.76	D 620, H 160	LED	830	2800	38	DALI
311931.002.1	D 620, H 160	LED	840	2800	38	on/off
311931.002.1.76	D 620, H 160	LED	840	2800	38	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						
Flatliner 700						
981868.002	D 700, H 250	Shape: cylinder				
981871.002	L 700, B 700, H 250	Shape: cuboid				

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						
Flatliner 1100: Pendant length 600-3500 mm						
311932.002	D 1040, H 230	LED	830	7000	100	on/off
311932.002.76	D 1040, H 230	LED	830	7000	100	DALI
311932.002.1	D 1040, H 230	LED	840	7300	100	on/off
311932.002.1.76	D 1040, H 230	LED	840	7300	100	DALI


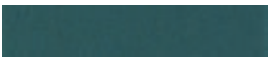
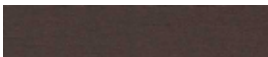






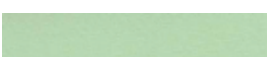
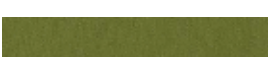

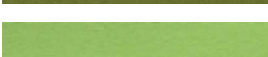
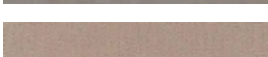

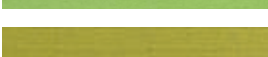
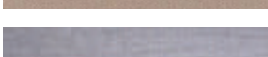

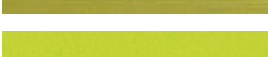
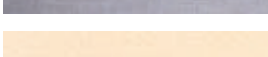

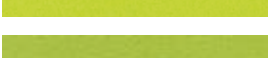

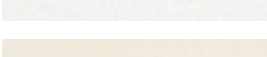

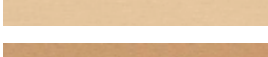
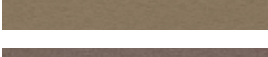

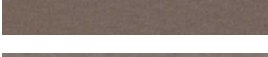

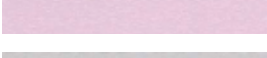












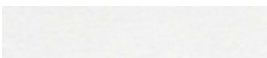

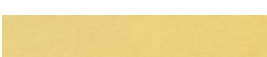




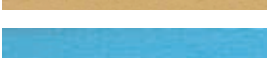


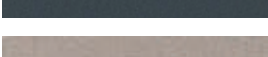

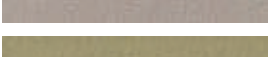
Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						
Flatliner 1100						
981869.002	D 1100, H 250	Shape: cylinder				
981872.002	L 1100, B 1100, H 250	Shape: cuboid				

Colour chart Chintz lampshades						
W06630	Chintz lampshades are available in more than 70 different colours					

Colour options of the chintz lampshades

Please include the colour code in your order.

	66.8003.01		66.8003.40		66.8003.77
	66.8003.02		66.8003.41		66.8003.78
	66.8003.03		66.8003.42		66.8003.80
	66.8003.04		66.8003.43		66.8003.81
	66.8003.07		66.8003.44		66.8003.82
	66.8003.08		66.8003.45		66.8003.83
	66.8003.09		66.8003.46		66.8003.84
	66.8003.10		66.8003.48		66.8003.85
	66.8003.11		66.8003.49		66.8003.86
	66.8003.12		66.8003.50		66.8003.87
	66.8003.14		66.8003.52		66.8003.90
	66.8003.17		66.8003.53		66.8003.91
	66.8003.18		66.8003.54		66.8003.92
	66.8003.19		66.8003.56		66.8003.93
	66.8003.20		66.8003.57		66.8003.94
	66.8003.21		66.8003.62		66.8003.95
	66.8003.22		66.8003.63		66.8003.96
	66.8003.23		66.8003.64		66.8003.97
	66.8003.24		66.8003.65		
	66.8003.30		66.8003.66		
	66.8003.32		66.8003.67		
	66.8003.33		66.8003.68		
	66.8003.34		66.8003.69		
	66.8003.35		66.8003.74		
	66.8003.36		66.8003.75		
	66.8003.37		66.8003.76		

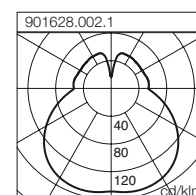
DALI

TOLEDO FLATLINER

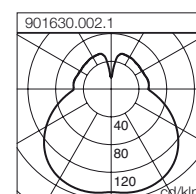
Ceiling luminaires, Pendant luminaires

- Decorative fabric lampshade luminaire for room design
- The basic luminaire for fabric lampshades is the Toledo Flat series
- More than 70 different standard colours to choose for the fabric lampshade
- Standard cylinder and cuboid shapes
- Material of fabric lampshade chintz or optionally also flame retardant fabric in compliance with B1
- Fabric lampshades can be retrofitted to the basic luminaire without tools
- Satin finish diffusers made of polycarbonate are optionally available
- Use of energy saving LED creates an energy efficient decorative luminaire
- LED rated life 50,000 h (L70/B10)
- Colour rendering index Ra > 80
- Colour consistency within 4-steps MacAdam (4 SDCM)
- DALI converter is compatible with DC, suitable for central battery system
- Ceiling or pendant mounting

901628.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
21	32	42
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
31	46	76

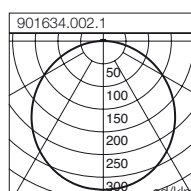


901630.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
10	15	20
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
14	21	36

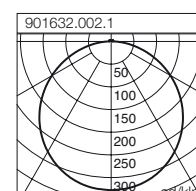


Further luminaires of this series, see:
 Indoor lighting | Recessed modular luminaires
 Indoor lighting | Pendant luminaires
 Indoor lighting | Recessed downlights
 Indoor lighting | Surface mounted downlights
 Emergency lighting | Escape route illumination

901634.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	5	7
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	7	12



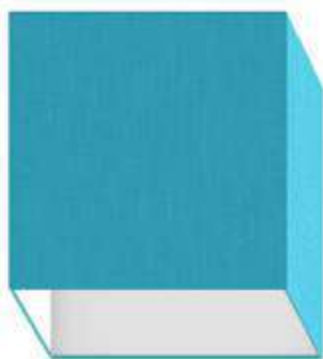
901632.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
5	7	9
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
7	10	16



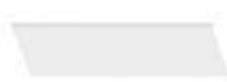
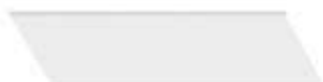
Options for Toledo Flat(liner)



Basic luminaire for ceiling
or pendant mounting



Chintz fabric lampshade available
in cuboid or cylinder shape in more
than 70 different colours.
See page 347 for overview of colours



Satin finish diffusers made of
polycarbonate are optionally available



Comparison LED vs. conventional lamps

LED 5 W ≈
1 x 10 W TC-D (16 W Psys)



Comparison LED vs. conventional lamps

LED 7,7 W ≈
1 x 18 W TC-D (26 W Psys)



Ceiling luminaires | Toledo Flatliner

Type of Protection: **IP 40**

Protection Class: II

Impact Protection: IK06

Basic luminaire: Cylinder housing sheet steel, powder coated. Housing: die cast aluminium and sheet steel, powder-coated. Bezel ring: die-cast aluminium, powder coated. Light guide and diffuser made of non-yellowing PMMA, opal matt. Lampshades can be mounted without tools. Ceiling mounting.

Standard colour covering surface Chintz fabric lampshade: 66.8003.01 white

Further colours (see page 347) available at the same price.

Please include the colour code in your order.

Modular design: The lampshades need to be ordered separately for each luminaire.

The use of the diffuser is optional.

Please be aware of possible increased freight charges for deliveries outside of Germany.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						
Toledo Flatliner 200, ceiling mounting						
901628.002	D 160, H 65	LED	830	310	5	on/off
901628.002.1	D 160, H 65	LED	840	360	5	on/off

Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						
Toledo Flatliner 200						
Height of the fabric lampshade 120 mm						
982493.002	D 200, H 120	Cylinder shape				
982497.002	L 200, B 200, H 120	Cuboid shape				
Height of the fabric lampshade 300 mm						
982299.002	D 200, H 300	Cylinder shape				
982309.002	L 200, B 200, H 300	Cuboid shape				

Satin finish polycarbonate diffuser (optional)						
Can be installed on the decorative element without any tools						
982304.002	D 198, H 5	Accessories for Toledo Flatliner 200 cylinder shape				
982314.002	L 198, B 198, H 5	Accessories for Toledo Flatliner 200 cuboid shape				

Diffusers with Chintz fabric in all colours on request.

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						
Toledo Flatliner 242, ceiling mounting						
901630.002	D 202, H 65	LED	830	610	7,7	on/off
901630.002.76	D 202, H 65	LED	830	610	7,7	DALI
901630.002.1	D 202, H 65	LED	840	660	7,7	on/off
901630.002.1.76	D 202, H 65	LED	840	660	7,7	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						
Toledo Flatliner 242						
Height of the fabric lampshade 120 mm						
982494.002	D 242, H 120	Cylinder shape				
982498.002	L 242, B 242, H 120	Cuboid shape				
Height of the fabric lampshade 300 mm						
982300.002	D 242, H 300	Cylinder shape				
982310.002	L 242, B 242, H 300	Cuboid shape				

Satin finish polycarbonate diffuser (optional)						
Can be installed on the decorative element without any tools						
982305.002	D 240, H 5	Accessories for Toledo Flatliner 242 cylinder shape				
982315.002	L 240, B 240, H 5	Accessories for Toledo Flatliner 242 cuboid shape				

Diffusers with Chintz fabric in all colours on request.

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Basic luminaire for lampshade attachment						Price Category 21
Toledo Flatliner 307, ceiling mounting						
901632.002	D 268, H 70	LED	830	1250	17	on/off
901632.002.76	D 268, H 70	LED	830	1250	17	DALI
901632.002.1	D 268, H 70	LED	840	1400	17	on/off
901632.002.1.76	D 268, H 70	LED	840	1400	17	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Toledo Flatliner 307						
Height of the fabric lampshade 120 mm						
982495.002	D 307, H 120	Cylinder shape				
982499.002	L 307, B 307, H 120	Cuboid shape				
Height of the fabric lampshade 300 mm						
982301.002	D 307, H 300	Cylinder shape				
982311.002	L 307, B 307, H 300	Cuboid shape				

Satin finish polycarbonate diffuser (optional)						Price Category 21
Can be installed on the decorative element without any tools						
982306.002	D 305, H 5	Accessories for Toledo Flatliner 307 cylinder shape				
982316.002	L 305, B 305, H 5	Accessories for Toledo Flatliner 307 cuboid shape				

Diffusers with Chintz fabric in all colours on request.

**Comparison
LED vs. conventional lamps**

LED 17 W ≈
2 x 18 W TC-D (52 W Psys)



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Basic luminaire for lampshade attachment						Price Category 21
Toledo Flatliner 369, ceiling mounting						
901634.002	D 330, H 70	LED	830	1700	22	on/off
901634.002.76	D 330, H 70	LED	830	1700	22	DALI
901634.002.1	D 330, H 70	LED	840	1950	22	on/off
901634.002.1.76	D 330, H 70	LED	840	1950	22	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Toledo Flatliner 369						
Height of the fabric lampshade 120 mm						
982496.002	D 369, H 120	Cylinder shape				
982500.002	L 369, B 369, H 120	Cuboid shape				
Height of the fabric lampshade 300 mm						
982302.002	D 369, H 300	Cylinder shape				
982312.002	L 369, B 369, H 300	Cuboid shape				

Satin finish polycarbonate diffuser (optional)						Price Category 21
Can be installed on the decorative element without any tools						
982307.002	D 367, H 5	Accessories for Toledo Flatliner 369 cylinder shape				
982317.002	L 367, B 367, H 5	Accessories for Toledo Flatliner 369 cuboid shape				

Diffusers with Chintz fabric in all colours on request.

**Comparison
LED vs. conventional lamps**

LED 22 W ≈
2 x 26 W TC-D (68 W Psys)



Colour chart Chintz lampshades						Price Category 21
W06630	Chintz lampshades are available in more than 70 different colours					





Comparison LED vs. conventional lamps

LED 5 W ≈
1 x 10 W TC-D (16 W Psys)

Pendant luminaires | Toledo Flatliner

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK06
Suspension Length: 2000 mm

Basic luminaire: Cylinder housing sheet steel, powder coated. Housing: die cast aluminium and sheet steel, powder-coated. Bezel ring: die-cast aluminium, powder coated. Light guide and diffuser made of non-yellowing PMMA, opal matt. Lampshades can be mounted without tools. Transparent suspension cable 2 m, can be shortened. Canopy: sheet steel, powder coated.

Standard colour covering surface Chintz fabric lampshade: 66.8003.01 white

Further colours (see page 347) available at the same price.

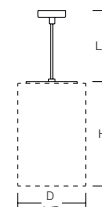
Please include the colour code in your order.

Modular design: The lampshades need to be ordered separately for each luminaire.

The use of the diffuser is optional.

Please be aware of possible increased freight charges for deliveries outside of Germany.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						
Toledo Flatliner 200, pendant length LP 2000 mm						
901629.002	D 162, H 90	LED	830	310	5	on/off
901629.002.1	D 162, H 90	LED	840	360	5	on/off

Indication of luminaire flux when using the white fabric lampshade.



Chintz lampshades						
Toledo Flatliner 200						
Height of the fabric lampshade 120 mm						
982493.002	D 200, H 120	Cylinder shape				
982497.002	L 200, B 200, H 120	Cuboid shape				
Height of the fabric lampshade 300 mm						
982299.002	D 200, H 300	Cylinder shape				
982309.002	L 200, B 200, H 300	Cuboid shape				



Satin finish polycarbonate diffuser (optional)						
Can be installed on the decorative element without any tools						
982304.002	D 198, H 5	Accessories for Toledo Flatliner 200 cylinder shape				
982314.002	L 198, B 198, H 5	Accessories for Toledo Flatliner 200 cuboid shape				

Diffusers with Chintz fabric in all colours on request.

Comparison LED vs. conventional lamps

LED 7,7 W ≈
1 x 18 W TC-D (26 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Basic luminaire for lampshade attachment						
Toledo Flatliner 242, pendant length LP 2000 mm						
901631.002	D 204, H 90	LED	830	610	7,7	on/off
901631.002.76	D 204, H 90	LED	830	610	7,7	DALI
901631.002.1	D 204, H 90	LED	840	660	7,7	on/off
901631.002.1.76	D 204, H 90	LED	840	660	7,7	DALI

Indication of luminaire flux when using the white fabric lampshade.



Chintz lampshades						
Toledo Flatliner 242						
Height of the fabric lampshade 120 mm						
982494.002	D 242, H 120	Cylinder shape				
982498.002	L 242, B 242, H 120	Cuboid shape				
Height of the fabric lampshade 300 mm						
982300.002	D 242, H 300	Cylinder shape				
982310.002	L 242, B 242, H 300	Cuboid shape				



Satin finish polycarbonate diffuser (optional)						
Can be installed on the decorative element without any tools						
982305.002	D 240, H 5	Accessories for Toledo Flatliner 242 cylinder shape				
982315.002	L 240, B 240, H 5	Accessories for Toledo Flatliner 242 cuboid shape				

Diffusers with Chintz fabric in all colours on request.

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Basic luminaire for lampshade attachment						Price Category 21
Toledo Flatliner 307, pendant length LP 2000 mm						
901633.002	D 270, H 96	LED	830	1250	17	on/off
901633.002.76	D 270, H 96	LED	830	1250	17	DALI
901633.002.1	D 270, H 96	LED	840	1400	17	on/off
901633.002.1.76	D 270, H 96	LED	840	1400	17	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Toledo Flatliner 307						
Height of the fabric lampshade 120 mm						
982495.002	D 307, H 120	Cylinder shape				
982499.002	L 307, B 307, H 120	Cuboid shape				
Height of the fabric lampshade 300 mm						
982301.002	D 307, H 300	Cylinder shape				
982311.002	L 307, B 307, H 300	Cuboid shape				

Satin finish polycarbonate diffuser (optional)						Price Category 21
Can be installed on the decorative element without any tools						
982306.002	D 305, H 5	Accessories for Toledo Flatliner 307 cylinder shape				
982316.002	L 305, B 305, H 5	Accessories for Toledo Flatliner 307 cuboid shape				

Diffusers with Chintz fabric in all colours on request.

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Basic luminaire for lampshade attachment						Price Category 21
Toledo Flatliner 369, pendant length LP 2000 mm						
901635.002	D 331, H 96	LED	830	1750	22	on/off
901635.002.76	D 331, H 96	LED	830	1750	22	DALI
901635.002.1	D 331, H 96	LED	840	1950	22	on/off
901635.002.1.76	D 331, H 96	LED	840	1950	22	DALI

Indication of luminaire flux when using the white fabric lampshade.

Chintz lampshades						Price Category 21
Toledo Flatliner 369						
Height of the fabric lampshade 120 mm						
982496.002	D 369, H 120	Cylinder shape				
982500.002	L 369, B 369, H 120	Cuboid shape				
Height of the fabric lampshade 300 mm						
982302.002	D 369, H 300	Cylinder shape				
982312.002	L 369, B 369, H 300	Cuboid shape				

Satin finish polycarbonate diffuser (optional)						Price Category 21
Can be installed on the decorative element without any tools						
982307.002	D 367, H 5	Accessories for Toledo Flatliner 369 cylinder shape				
982317.002	L 367, B 367, H 5	Accessories for Toledo Flatliner 369 cuboid shape				

Diffusers with Chintz fabric in all colours on request.

Colour chart Chintz lampshades						Price Category 21
W06630	Chintz lampshades are available in more than 70 different colours					

Comparison LED vs. conventional lamps

LED 17 W ≈
2 x 18 W TC-D (52 W Psys)



Comparison LED vs. conventional lamps

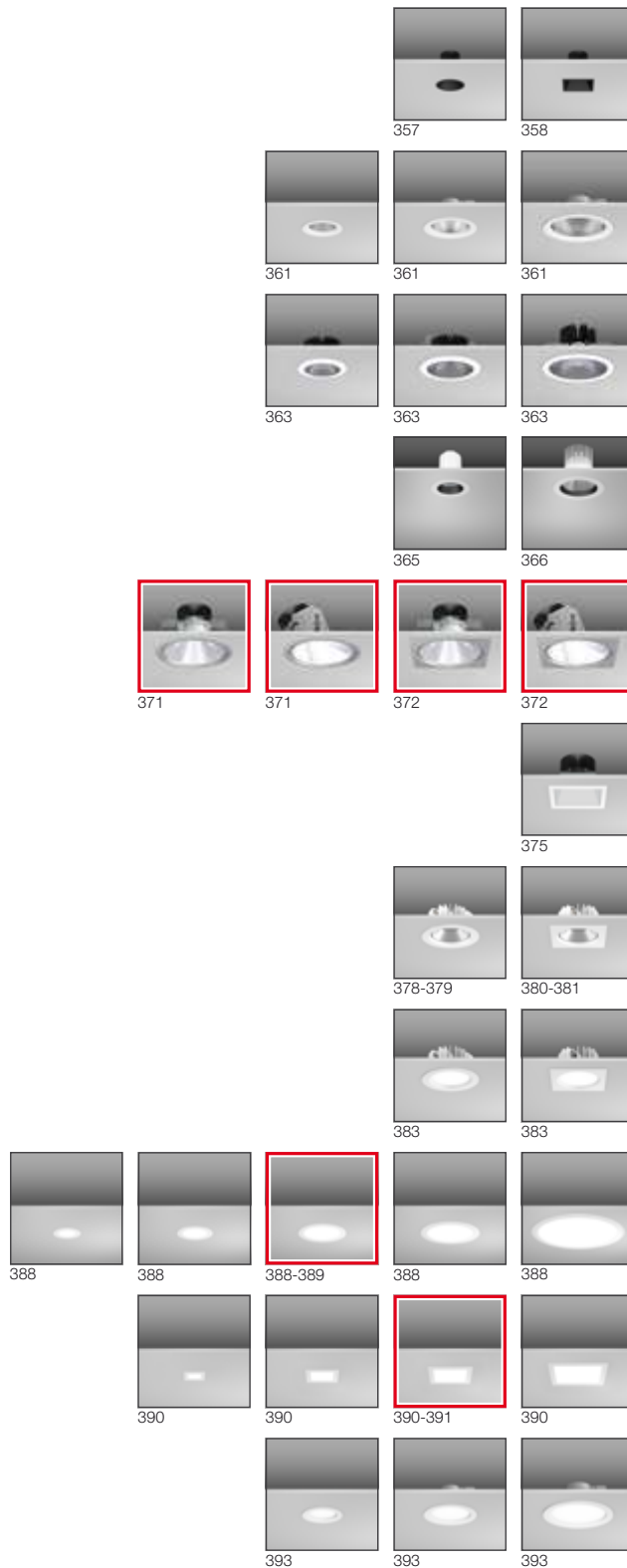
LED 22 W ≈
2 x 26 W TC-D (68 W Psys)





The application image shows:
Pascala

© Unus Lintrier



Levido
356-359

Arelo
360-361

Energio Darklight
362-363

Heledon
364-367

Pascala
368-373

Quardo
374-375

Ledona
376-381

Ledona ECO
382-383

Toledo Flat Round
384-389

Toledo Flat Square
384-385, 390-391

Toledo
392-393

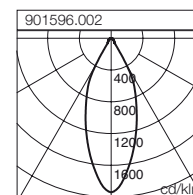


LEVIDO®

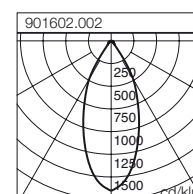
Recessed downlights

- Decorative LED downlight with daintily small dimensions
- Cover die-cast aluminium
- Alternative for low-voltage downlights 35 W and 50 W
- Protection type IP 44
- LED rated life 50,000 h (L70/B10)
- Colour rendering index Ra > 80
- Colour consistency within 4-steps MacAdam (4 SDCM)
- Plug connection between converter and luminaire
- Two different beam angles
- Very good glare limitation due to back-mounted LED
- Safety glass cover to protect the LED
- Opal PMMA plastic cover included; can be fitted without tools
- Versions for DALI and phase cut dimming
- DALI converter is compatible with DC, suitable for central battery system

901596.002			
Floor 12 x 2,5 x 3m (0,2m)			
100 lx	150 lx	200 lx	
5	8	10	
Room 6 x 4 x 3 m (0,75 m)			
200 lx	300 lx	500 lx	
8	12	19	



901602.002			
Floor 12 x 2,5 x 3m (0,2m)			
100 lx	150 lx	200 lx	
5	8	10	
Room 6 x 4 x 3 m (0,75 m)			
200 lx	300 lx	500 lx	
8	11	19	



Further luminaires of this series, see:
Indoor lighting | Recessed projectors

Recessed downlights | Levido Round

Type of Protection: **IP 44**

Protection Class: II

Ceiling thickness: 1-20 mm

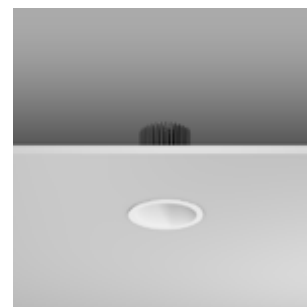
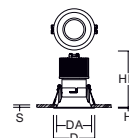
Impact Protection: IK06

Die-cast aluminium cover, powder-coated. Extruded aluminium heat sink.

Reflector: aluminium, highly polished anodised finish. With safety glass.

Ceiling installation with spring system. Incl. separate LED converter with connecting cable 250 mm. Opal PMMA plastic cover included as accessory.

Available colours: 2 = white, 3 = black



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimming
Recessed downlights							
Ceiling cut out DA 78 mm							
Colour white							
901593.002.2	D 91, H 2, HE 120	LED	827	570	8	24	17,8 on/off
901594.002.2	D 91, H 2, HE 120	LED	827	550	8	40	18,0 on/off
901593.002	D 91, H 2, HE 120	LED	830	570	8	24	17,8 on/off
901594.002	D 91, H 2, HE 120	LED	830	550	8	40	18,0 on/off
901593.002.1	D 91, H 2, HE 120	LED	840	610	8	24	18,1 on/off
901594.002.1	D 91, H 2, HE 120	LED	840	570	8	40	18,1 on/off
901595.002.2	D 91, H 2, HE 120	LED	827	890	13	24	19,4 on/off
901595.002.2.76 *	D 91, H 2, HE 120	LED	827	890	13	24	19,4 DALI
901597.002.2 **	D 91, H 2, HE 120	LED	827	980	16	24	19,8 Phase-cut
901596.002.2	D 91, H 2, HE 120	LED	827	880	13	40	19,5 on/off
901596.002.2.76 *	D 91, H 2, HE 120	LED	827	880	13	40	19,5 DALI
901598.002.2 **	D 91, H 2, HE 120	LED	827	970	16	40	19,8 Phase-cut
901595.002	D 91, H 2, HE 120	LED	830	890	13	24	19,4 on/off
901595.002.76 *	D 91, H 2, HE 120	LED	830	890	13	24	19,4 DALI
901597.002 **	D 91, H 2, HE 120	LED	830	980	16	24	19,8 Phase-cut
901596.002	D 91, H 2, HE 120	LED	830	880	13	40	19,5 on/off
901596.002.76 *	D 91, H 2, HE 120	LED	830	880	13	40	19,5 DALI
901598.002 **	D 91, H 2, HE 120	LED	830	970	16	40	19,8 Phase-cut
901595.002.1	D 91, H 2, HE 120	LED	840	950	13	24	19,7 on/off
901595.002.1.76 *	D 91, H 2, HE 120	LED	840	950	13	24	19,7 DALI
901597.002.1 **	D 91, H 2, HE 120	LED	840	1150	16	24	20,3 Phase-cut
901596.002.1	D 91, H 2, HE 120	LED	840	940	13	40	19,7 on/off
901596.002.1.76 *	D 91, H 2, HE 120	LED	840	940	13	40	19,7 DALI
901598.002.1 **	D 91, H 2, HE 120	LED	840	1050	16	40	20,1 Phase-cut
Colour black							
901593.003.2	D 91, H 2, HE 120	LED	827	480	8	24	7,2 on/off
901594.003.2	D 91, H 2, HE 120	LED	827	460	8	40	7,4 on/off
901593.003	D 91, H 2, HE 120	LED	830	480	8	24	7,2 on/off
901594.003	D 91, H 2, HE 120	LED	830	460	8	40	7,4 on/off
901593.003.1	D 91, H 2, HE 120	LED	840	510	8	24	7,4 on/off
901594.003.1	D 91, H 2, HE 120	LED	840	480	8	40	7,5 on/off
901595.003.2	D 91, H 2, HE 120	LED	827	760	13	24	8,5 on/off
901595.003.2.76 *	D 91, H 2, HE 120	LED	827	760	13	24	8,5 DALI
901597.003.2 **	D 91, H 2, HE 120	LED	827	840	16	24	8,9 Phase-cut
901596.003.2	D 91, H 2, HE 120	LED	827	740	13	40	9,3 on/off
901596.003.2.76 *	D 91, H 2, HE 120	LED	827	740	13	40	9,3 DALI
901598.003.2 **	D 91, H 2, HE 120	LED	827	810	16	40	9,6 Phase-cut
901595.003	D 91, H 2, HE 120	LED	830	760	13	24	8,5 on/off
901595.003.76 *	D 91, H 2, HE 120	LED	830	760	13	24	8,5 DALI
901597.003 **	D 91, H 2, HE 120	LED	830	840	16	24	8,9 Phase-cut
901596.003	D 91, H 2, HE 120	LED	830	740	13	40	9,3 on/off
901596.003.76 *	D 91, H 2, HE 120	LED	830	740	13	40	9,3 DALI
901598.003 **	D 91, H 2, HE 120	LED	830	810	16	40	9,6 Phase-cut
901595.003.1	D 91, H 2, HE 120	LED	840	810	13	24	8,8 on/off
901595.003.1.76 *	D 91, H 2, HE 120	LED	840	810	13	24	8,8 DALI
901597.003.1 **	D 91, H 2, HE 120	LED	840	940	16	24	9,3 Phase-cut
901596.003.1	D 91, H 2, HE 120	LED	840	790	13	40	9,5 on/off
901596.003.1.76 *	D 91, H 2, HE 120	LED	840	790	13	40	9,5 DALI
901598.003.1 **	D 91, H 2, HE 120	LED	840	870	16	40	9,8 Phase-cut

* DALI converter is compatible with DC for central battery system | ** Suitable for phase cut dimming

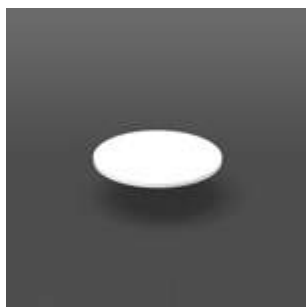
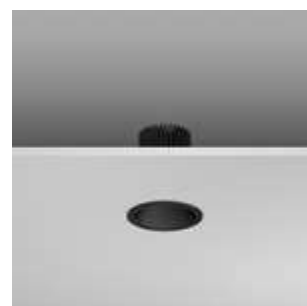
Comparison LED vs. conventional lamps

LED 8 W ≈

1 x 35 W QR-CB (39 W Psys)

LED 13 / 16 W ≈

1 x 50 W QR51 (55 W Psys)



Opal PMMA plastic cover
included as accessory



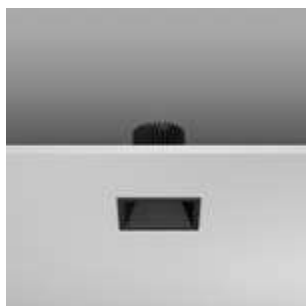
Comparison LED vs. conventional lamps

LED 8 W ≈

1 x 35 W QR-CB (39 W Psys)

LED 13 / 16 W ≈

1 x 50 W QR51 (55 W Psys)



Recessed downlights | Levido Square

Type of Protection: IP 44

Protection Class: II

Ceiling thickness: 1-20 mm

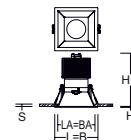
Impact Protection: IK06

Die-cast aluminium cover, powder-coated. Extruded aluminium heat sink.

Reflector: aluminium, highly polished anodised finish. With safety glass.

Ceiling installation with spring system. Incl. separate LED converter with connecting cable 250 mm. Opal PMMA plastic cover included as accessory.

Available colours: 2 = white, 3 = black



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	α [°]	UGR	dimmable
Recessed downlights								
Ceiling cut out LA 86 x BA 86 mm								
Colour white								
901599.002.2	L 98, B 98, H 2, HE 120	LED	827	590	8	24	14,9	on/off
901600.002.2	L 98, B 98, H 2, HE 120	LED	827	560	8	40	15,2	on/off
901599.002	L 98, B 98, H 2, HE 120	LED	830	590	8	24	14,9	on/off
901600.002	L 98, B 98, H 2, HE 120	LED	830	560	8	40	15,2	on/off
901599.002.1	L 98, B 98, H 2, HE 120	LED	840	620	8	24	15,1	on/off
901600.002.1	L 98, B 98, H 2, HE 120	LED	840	580	8	40	15,3	on/off
901601.002.2	L 98, B 98, H 2, HE 120	LED	827	920	13	24	16,5	on/off
901601.002.2.76 *	L 98, B 98, H 2, HE 120	LED	827	920	13	24	16,5	DALI
901603.002.2 **	L 98, B 98, H 2, HE 120	LED	827	1050	16	24	16,9	Phase-cut
901602.002.2	L 98, B 98, H 2, HE 120	LED	827	900	13	40	16,8	on/off
901602.002.2.76 *	L 98, B 98, H 2, HE 120	LED	827	900	13	40	16,8	DALI
901604.002.2 **	L 98, B 98, H 2, HE 120	LED	827	990	16	40	17,1	Phase-cut
901601.002	L 98, B 98, H 2, HE 120	LED	830	920	13	24	16,5	on/off
901601.002.76 *	L 98, B 98, H 2, HE 120	LED	830	920	13	24	16,5	DALI
901603.002 **	L 98, B 98, H 2, HE 120	LED	830	1050	16	24	16,9	Phase-cut
901602.002	L 98, B 98, H 2, HE 120	LED	830	900	13	40	16,8	on/off
901602.002.76 *	L 98, B 98, H 2, HE 120	LED	830	900	13	40	16,8	DALI
901604.002 **	L 98, B 98, H 2, HE 120	LED	830	990	16	40	17,1	Phase-cut
901601.002.1	L 98, B 98, H 2, HE 120	LED	840	970	13	24	16,7	on/off
901601.002.1.76 *	L 98, B 98, H 2, HE 120	LED	840	970	13	24	16,7	DALI
901603.002.1 **	L 98, B 98, H 2, HE 120	LED	840	1150	16	24	17,2	Phase-cut
901602.002.1	L 98, B 98, H 2, HE 120	LED	840	960	13	40	17,0	on/off
901602.002.1.76 *	L 98, B 98, H 2, HE 120	LED	840	960	13	40	17,0	DALI
901604.002.1 **	L 98, B 98, H 2, HE 120	LED	840	1100	16	40	17,5	Phase-cut
Colour black								
901599.003.2	L 98, B 98, H 2, HE 120	LED	827	510	8	24	11,7	on/off
901600.003.2	L 98, B 98, H 2, HE 120	LED	827	490	8	40	11,6	on/off
901599.003	L 98, B 98, H 2, HE 120	LED	830	510	8	24	11,7	on/off
901600.003	L 98, B 98, H 2, HE 120	LED	830	490	8	40	11,6	on/off
901599.003.1	L 98, B 98, H 2, HE 120	LED	840	540	8	24	11,9	on/off
901600.003.1	L 98, B 98, H 2, HE 120	LED	840	510	8	40	11,8	on/off
901601.003.2	L 98, B 98, H 2, HE 120	LED	827	810	13	24	13,4	on/off
901601.003.2.76 *	L 98, B 98, H 2, HE 120	LED	827	810	13	24	13,4	DALI
901603.003.2 **	L 98, B 98, H 2, HE 120	LED	827	900	16	24	13,7	Phase-cut
901602.003.2	L 98, B 98, H 2, HE 120	LED	827	790	13	40	13,3	on/off
901602.003.2.76 *	L 98, B 98, H 2, HE 120	LED	827	790	13	40	13,3	DALI
901604.003.2 **	L 98, B 98, H 2, HE 120	LED	827	870	16	40	13,6	Phase-cut
901601.003	L 98, B 98, H 2, HE 120	LED	830	810	13	24	13,4	on/off
901601.003.76 *	L 98, B 98, H 2, HE 120	LED	830	810	13	24	13,4	DALI
901603.003 **	L 98, B 98, H 2, HE 120	LED	830	900	16	24	13,7	Phase-cut
901602.003	L 98, B 98, H 2, HE 120	LED	830	790	13	40	13,3	on/off
901602.003.76 *	L 98, B 98, H 2, HE 120	LED	830	790	13	40	13,3	DALI
901604.003 **	L 98, B 98, H 2, HE 120	LED	830	870	16	40	13,6	Phase-cut
901601.003.1	L 98, B 98, H 2, HE 120	LED	840	860	13	24	13,6	on/off
901601.003.1.76 *	L 98, B 98, H 2, HE 120	LED	840	860	13	24	13,6	DALI
901603.003.1 **	L 98, B 98, H 2, HE 120	LED	840	950	16	24	13,9	Phase-cut
901602.003.1	L 98, B 98, H 2, HE 120	LED	840	840	13	40	13,5	on/off
901602.003.1.76 *	L 98, B 98, H 2, HE 120	LED	840	840	13	40	13,5	DALI
901604.003.1 **	L 98, B 98, H 2, HE 120	LED	840	920	16	40	13,8	Phase-cut

* DALI converter is compatible with DC for central battery system | ** Suitable for phase cut dimming



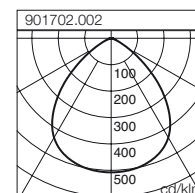


ARELO®

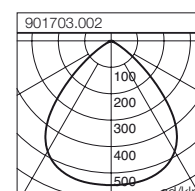
Recessed downlights

- High efficiency recessed LED downlight with faceted reflector in three sizes
- Protection type IP 44
- Housing made of shockproof, UV-resistant polycarbonate
- Aluminium faceted reflector, highly polished anodised finish for brilliant illumination
- Satin finish LED diffuser to reduce direct glare
- Highly homogeneous light distribution through the combination of the reflector and the satin finish LED diffuser
- Colour temperature individually variable to 3000 K or 4000 K via Multicolour function via rear switching element
- LED rated life 50,000 h (L70/B50)
- Colour rendering index Ra > 80
- Colour consistency within 4-steps MacAdam (4 SDCM)
- Suitable for through-wiring (doesn't apply to D130/DALI)
- Easy to install thanks to tool-free spring fastening system

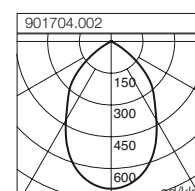
901702.002		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
8	12	15
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
11	16	27



901703.002		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	5	6
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	6	10



901704.002		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	5	7



Recessed downlights | Arelo

Type of Protection: IP 20, **IP 44** on room side

Protection Class: II

Ceiling thickness S: 1-25 mm

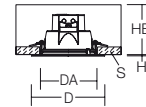
Impact Protection: IK05

Bezel ring: die-cast aluminium, powder coated. Housing: plastic (polycarbonate), UV-resistant. Aluminium faceted reflector, highly polished anodised finish. LED diffuser, satin finish (UV-resistant polycarbonate, shockproof). Spring fastening system. On/off version with integrated converter. DALI version with separate converter.

Available colour: 2 = white

Multicolour function: colour temperature variable via rear switching element.

Factory-set to 4000 K.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	UGR	dim-able	Price Category 21
Recessed downlights									
Ceiling cut out DA 105 mm									
901702.002	D 130, H 2, HE 100	LED	830, 840	700	6,5	94	22,7	on/off	
901702.002.76	D 130, H 2, HE 100	LED	830, 840	700	6,5	94	22,7	DALI	
Ceiling cut out DA 150 mm									
901703.002	D 172, H 2, HE 140	LED	830, 840	1650	16	91	22,0	on/off	
901703.002.76	D 172, H 2, HE 140	LED	830, 840	1650	16	91	22,0	DALI	
Ceiling cut out DA 200 mm									
901704.002	D 225, H 4, HE 140	LED	830, 840	2500	23	72	21,3	on/off	
901704.002.76	D 225, H 4, HE 140	LED	830, 840	2500	23	72	21,3	DALI	

MultiColour version: luminous flux and system power can vary depends on the light color. You will find more detailed information on www.rzb-lighting.com.

Comparison
LED vs. conventional lamps

LED 6,5 W ≈
1 x 13 W TC-D (19 W Psys)

LED 16 W ≈
2 x 18 W TC-D (52 W Psys)

LED 23 W ≈
2 x 26 W TC-D (68 W Psys)



D 130



D 172



D 225



Multicolour function: colour temperature variable via rear switching element.



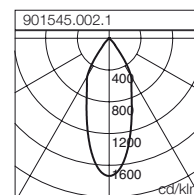
DALI

ENERGO® DARKLIGHT

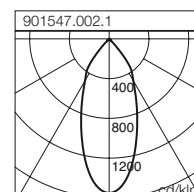
Recessed downlights

- High quality recessed downlight
- Die cast aluminium ring with trumpet reflector
- Trumpet reflector creates a darklight effect, i.e. when switched on, the luminaire appears dark (when seen from the side), you don't need turbo louvre any more to create this effect
- Harmonised lighting
- Excellent glare suppression
- Ra 85 as standard, optionally Ra 95 also possible
- LED rated life 50,000 h (L80/B10)
- Colour consistency within 2-steps MacAdam (2 SDCM)
- The converter is compatible with DC, making it ideal for central battery systems
- Easy to install thanks to tool-free spring fastening system

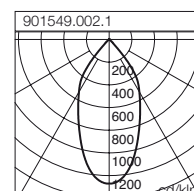
901545.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	5	7
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	8	13



901547.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	5	7



901549.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



Recessed downlights | Energo Darklight

Type of Protection: IP 20

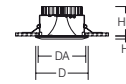
Protection Class: I, II


Ceiling thickness: 3-18 mm, 1-18 mm, 1-20 mm

Impact Protection: IK03

Recessed and bezel ring: die-cast aluminium. Bezel ring with bayonet fixing. Recessed mounting frame: sheet steel, powder-coated. Heat sink made of black anodised extruded aluminium. Trumpet reflector: high purity aluminium, matt. Ceiling installation with spring system. Converter in separate box. With connecting cable (L 400 mm). Suitable for through-wiring. Converter connected for standard (on/off) or DALI dimmable. Compatible with DC, ideal for central battery systems.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	UGR	dimmable
Recessed downlights								
Ceiling cut out DA 140 mm, Ceiling thickness: 3-18 mm								
901545.002	D 156, H 9, HE 154	LED	830	1200	10	38	16,0	on/off
901545.002.76	D 156, H 9, HE 154	LED	830	1200	10	38	16,0	DALI
901545.002.1	D 156, H 9, HE 154	LED	840	1250	10	38	16,2	on/off
901545.002.1.76	D 156, H 9, HE 154	LED	840	1250	10	38	16,2	DALI
Ceiling cut out DA 175 mm, Ceiling thickness: 1-18 mm								
901547.002	D 195, H 9, HE 160	LED	830	2150	18	42	16,8	on/off
901547.002.76	D 195, H 9, HE 160	LED	830	2150	18	42	16,8	DALI
901547.002.1	D 195, H 9, HE 160	LED	840	2250	18	42	17,0	on/off
901547.002.1.76	D 195, H 9, HE 160	LED	840	2250	18	42	17,0	DALI
Ceiling cut out DA 210 mm, Ceiling thickness: 1-20 mm								
901549.002	D 230, H 9, HE 175	LED	830	3050	27	51	17,4	on/off
901549.002.76	D 230, H 9, HE 175	LED	830	3050	27	51	17,4	DALI
901549.002.1	D 230, H 9, HE 175	LED	840	3200	27	51	17,5	on/off
901549.002.1.76	D 230, H 9, HE 175	LED	840	3200	27	51	17,5	DALI

Ra > 90 options on request



UGR

dimmable

Price Category 21

Comparison LED vs. conventional lamps

LED 10 W ≈

1 x 26 W TC-D (34 W Psys)

LED 18 W ≈

1 x 42 W TC-TEL (47 W Psys)

LED 27 W ≈

2 x 32 W TC-TEL (69 W Psys)



Trumpet reflector for darklight effect



D 156



D 195



HELEDON®

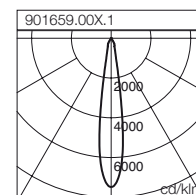
Recessed downlights

- High quality die-cast aluminium housing in two sizes
- Excellent light quality thanks to flicker-free light, homogeneous light distribution, glare limitation and light colour quality
- Suitable for reflector as well as lens technologies
- MIRO-SILVER® reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone
- Different lenses, also with very wide light distribution and corridor oval as standard
- Interchangeable lenses with different beam angles
- Black plastic ring and recessed LED to prevent glare from the side
- Additional light colours 927, 930, 935, 940 with Ra 95 and 832 with Ra 85 as well as for Maxi special food LEDs: champagne with Ra 97, meat and meat fresh available on request
- LED rated life 50,000 h (L90/B10)
- Colour consistency within 2-steps MacAdam (2 SDCM)
- High quality converter without flickering and stroboscopic effect
- Separate converter box with connecting cable
- The following accessories can be mounted without use of tools: interchangeable lenses, decorative glasses, honeycomb louvre, clear and frosted diffusers, white interchangeable plastic ring

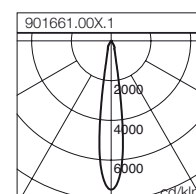


Further luminaires of this series, see:
Indoor lighting | Surface mounted downlights

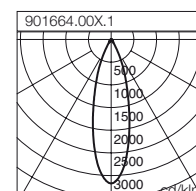
901659.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



901661.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



901664.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	2	2
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4

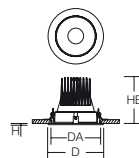


Recessed downlights | Heledon Mini

Type of Protection: IP 20
Protection Class: II
Ceiling thickness: 1-20 mm
Impact Protection: IK06

Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With optical assembly MIRO-SILVER® reflector or polycarbonate lens. Incl. separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	α [°]	UGR	dimmable
Recessed downlights								
Ceiling cut out DA 114 mm								
Including lens for best uniformity of the light cone								
901656.00X	D 124, H 3, HE 120	LED	830	2000	19	70	25,0	on/off
901656.00X.76	D 124, H 3, HE 120	LED	830	2000	19	70	25,0	DALI
901656.00X.1	D 124, H 3, HE 120	LED	840	2100	19	70	25,2	on/off
901656.00X.1.76	D 124, H 3, HE 120	LED	840	2100	19	70	25,2	DALI
901659.00X	D 124, H 3, HE 120	LED	830	2900	29	70	26,3	on/off
901659.00X.76	D 124, H 3, HE 120	LED	830	2900	29	70	26,3	DALI
901659.00X.1	D 124, H 3, HE 120	LED	840	3050	29	70	26,5	on/off
901659.00X.1.76	D 124, H 3, HE 120	LED	840	3050	29	70	26,5	DALI
Including lens with oval light distribution for corridor								
901658.00X	D 124, H 3, HE 120	LED	830	1700	19	27/38	19,1	on/off
901658.00X.76	D 124, H 3, HE 120	LED	830	1700	19	27/38	19,1	DALI
901658.00X.1	D 124, H 3, HE 120	LED	840	1800	19	27/38	19,3	on/off
901658.00X.1.76	D 124, H 3, HE 120	LED	840	1800	19	27/38	19,3	DALI
901661.00X	D 124, H 3, HE 120	LED	830	2450	29	27/38	20,3	on/off
901661.00X.76	D 124, H 3, HE 120	LED	830	2450	29	27/38	20,3	DALI
901661.00X.1	D 124, H 3, HE 120	LED	840	2550	29	27/38	20,5	on/off
901661.00X.1.76	D 124, H 3, HE 120	LED	840	2550	29	27/38	20,5	DALI
Including wide beam reflector								
901657.00X	D 124, H 3, HE 120	LED	830	2350	19	62	20,5	on/off
901657.00X.76	D 124, H 3, HE 120	LED	830	2350	19	62	20,5	DALI
901657.00X.1	D 124, H 3, HE 120	LED	840	2450	19	62	20,6	on/off
901657.00X.1.76	D 124, H 3, HE 120	LED	840	2450	19	62	20,6	DALI
901660.00X	D 124, H 3, HE 120	LED	830	3350	29	62	21,7	on/off
901660.00X.76	D 124, H 3, HE 120	LED	830	3350	29	62	21,7	DALI
901660.00X.1	D 124, H 3, HE 120	LED	840	3500	29	62	21,9	on/off
901660.00X.1.76	D 124, H 3, HE 120	LED	840	3500	29	62	21,9	DALI

Ra > 90 options on request

Diffuser								
982370.000	D 74, H 3	Safety glass clear						
982370.010	D 74, H 3	Safety glass, satin finish						



Decorative glasses								
982647.002	D 87, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock						
982648.002	D 87, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock						



Anti-glare honeycomb louvre								
982371.003	D 74, H 3	Honeycomb louvre Mini						

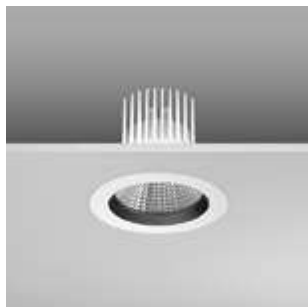


Interchangeable plastic rings								
982419.002	D 82, H 20	White plastic ring for reflector						
982421.002	D 82, H 31	White plastic ring for lens						



Interchangeable optics								
982368.003	D 82, H 55	Reflector, narrow beam 17°						
982368.013	D 82, H 55	Reflector, medium beam 32°						
982368.033	D 82, H 55	Reflector, wide beam 62°						
982369.003	D 82, H 55	Lens, narrow beam 18°						
982369.013	D 82, H 55	Lens, medium beam 29°						
982369.023	D 82, H 55	Lens, wide beam 44°						
982369.033	D 82, H 55	Lens, very wide beam 70°						
982369.043	D 82, H 55	Lens with oval light distribution for corridor 28°/40°						





Comparison LED vs. conventional lamps

LED 24 W ≈

1 x 50 W HIT (60 W Psys)

LED 37 W ≈

1 x 70 W HIT (84 W Psys)

Recessed downlights | Heledon Maxi

Type of Protection: IP 20

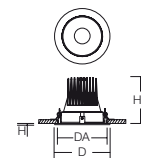
Protection Class: II


Ceiling thickness: 1-20 mm

Impact Protection: IK06

Housing: die-cast aluminium, powder-coated. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With optical assembly MIRO-SILVER® reflector or polycarbonate lens. Incl. separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	UGR	dimmable
Recessed downlights								
Ceiling cut out DA 152 mm								
Including lens for best uniformity of the light cone								
901663.00X	D 162, H 3, HE 135	LED	830	2350	24	41	12,9	on/off
901663.00X.76	D 162, H 3, HE 135	LED	830	2350	24	41	12,9	DALI
901663.00X.1	D 162, H 3, HE 135	LED	840	2500	24	41	13,1	on/off
901663.00X.1.76	D 162, H 3, HE 135	LED	840	2500	24	41	13,1	DALI
901665.00X	D 162, H 3, HE 135	LED	830	3300	37	41	14,0	on/off
901665.00X.76	D 162, H 3, HE 135	LED	830	3300	37	41	14,0	DALI
901665.00X.1	D 162, H 3, HE 135	LED	840	3500	37	41	14,2	on/off
901665.00X.1.76	D 162, H 3, HE 135	LED	840	3500	37	41	14,2	DALI
Including reflector for maximum efficiency								
901662.00X	D 162, H 3, HE 135	LED	830	3000	24	63	19,6	on/off
901662.00X.76	D 162, H 3, HE 135	LED	830	3000	24	63	19,6	DALI
901662.00X.1	D 162, H 3, HE 135	LED	840	3150	24	63	19,8	on/off
901662.00X.1.76	D 162, H 3, HE 135	LED	840	3150	24	63	19,8	DALI
901664.00X	D 162, H 3, HE 135	LED	830	4150	37	63	20,8	on/off
901664.00X.76	D 162, H 3, HE 135	LED	830	4150	37	63	20,8	DALI
901664.00X.1	D 162, H 3, HE 135	LED	840	4400	37	63	21,0	on/off
901664.00X.1.76	D 162, H 3, HE 135	LED	840	4400	37	63	21,0	DALI

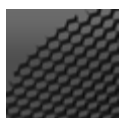
Ra > 90 options on request



Diffuser			Price Category 21
982374.000	D 111, H 3	Safety glass clear	
982374.010	D 111, H 3	Safety glass, satin finish	



Decorative glasses			Price Category 21
982649.002	D 123, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock	
982650.002	D 123, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock	



Anti-glare honeycomb louvre			Price Category 21
982375.003	D 111, H 3	Maxi honeycomb louvre	



Interchangeable plastic rings			Price Category 21
982420.002	D 118, H 20	White plastic ring for reflector	
982422.002	D 118, H 33	White plastic ring for lens	



Interchangeable optics			Price Category 21
982372.003	D 118, H 83	Reflector, narrow beam 10°	
982372.013	D 118, H 83	Reflector, medium beam 20°	
982372.023	D 118, H 83	Reflector, wide beam 34°	
982372.033	D 118, H 83	Reflector, very wide beam 63°	
982373.003	D 118, H 83	Lens, narrow beam 12°	
982373.013	D 118, H 83	Lens, medium beam 29°	
982373.023	D 118, H 83	Lens, wide beam 41°	



bernd,
sehen."

Bin bei Binder!



PASCALA®

Technology

Suitable for ceiling
thicknesses of 6-35 mm

Round and square versions
with round ceiling cut-out

Patented reflector made of
MIRO-SILVER® in round design
with total light reflection 98%



Ideal for office areas ($UGR \leq 19$) and
environments with computer screens
in accordance with DIN EN 12464-1

The converter is compatible with DC,
making it ideal for central battery systems

High quality converter without flickering
and stroboscopic effect



Versions with Casambi smart+free
Bluetooth® control for wireless network and
operation using Android / iOS devices,
free app available for download



Tunable white versions, dynamically adjustable
from 2700 K to 6500 K.
Ideal for use as part of a
Human Centric Lighting concept



MultiLumen version:

You can choose between 16 levels of luminous flux.

The luminous flux of the luminaire can be set on site in approx. 200 lm
steps using DIP switches on the separate control gear.

MIRO-SILVER® – OPTIMAL REFLECTION

⊕ Reflection

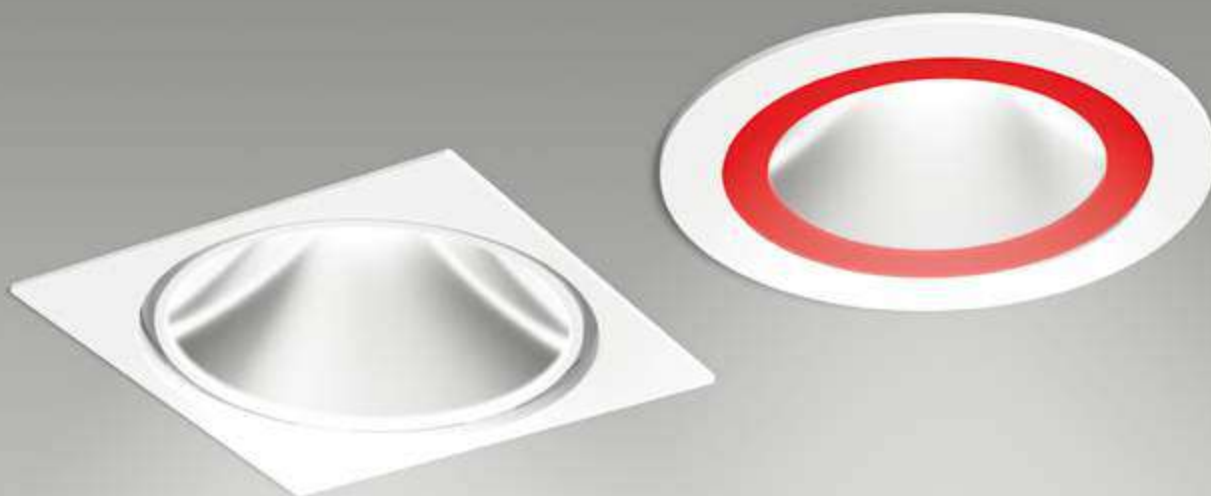
A layer of the purest silver which is produced in a high vacuum, together with a
reflection-enhanced layer system, enables a total light reflection of 98%.

⊕ Efficiency

Due to the extremely high reflectivity, light can be reflected almost with no losses.
Reflection is the decisive factor for energy efficiency in reflector technology.

⊕ Colour neutral

The absolutely color-neutral reflecting surfaces have an extremely high long-term
stability and can easily be cleaned.



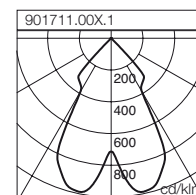
PASCALA®

Recessed downlights

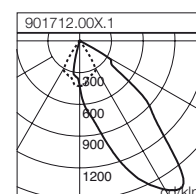
- Highly efficient recessed downlight with patented reflector made of MIRO-SILVER® in round design with total light reflection 98%
- Brilliantly luminous corona at the light-emitting surfaces thanks to use of a specially designed cast aluminium ring as a reflector closure
- LED rated life 50,000 h (L80/B10)
- **MultiLumen:** 16 different luminous fluxes can be set on site in approx. 200 lm steps using DIP switches on the separate converter
- Tunable white versions dynamically adjustable from 2700 K to 6500 K
- The converter is compatible with DC, making it ideal for central battery systems

- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download
- Colour tolerance within 2 MacAdam ellipses (2 SDCM) with standard monochrome LED; 4 MacAdam ellipses (4 SDCM) with tunable white LED
- Large selection of decorative and functional accessory plates to be mounted additionally to the round versions
- IP 54 to be achieved with corresponding accessories

901711.00X.1 / Step 16		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	6	9



901712.00X.1 / Step 16		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	5	6
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	7	12



Recessed downlights | Pascala EVO Round

Type of Protection: IP 20, **IP 54** with corresponding accessories

Protection Class: II

Ceiling thickness S: 6-35 mm

Impact Protection: IK03

Mounting bracket: galvanised sheet steel. Inner and closure ring: die-cast aluminium.

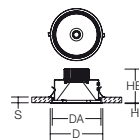
Reflector material: **MIRO-SILVER®** with 98 percent total light reflection. Spring fastening system.

Connected converter included in separate gearbox. With connecting cable (L 400 mm).

Available colours (X): 2 = white, 4 = silver metallic

MultiLumen version: 16 steps adjustable luminous flux. Factory-preset to step 5.

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-able
Recessed downlights - Symmetrical light distribution							
Ceiling cut out DA 228 mm							
MultiLumen version							
901711.00X	D 241, H 2, HE 154	LED	830	1500...4500	11...39	57	15,5...19,3 on/off
901711.00X.76	D 241, H 2, HE 154	LED	830	1500...4500	11...39	57	15,5...19,3 DALI
901711.00X.1	D 241, H 2, HE 154	LED	840	1550...4600	11...39	57	15,6...19,4 on/off
901711.00X.1.76	D 241, H 2, HE 154	LED	840	1550...4600	11...39	57	15,6...19,4 DALI
Tunable White - 2700 K to 6500 K							
901557.00X.2.76	D 241, H 2, HE 154	LED	827-865	2650	30	54	16,1 DALI
901557.00X.2.730	D 241, H 2, HE 154	LED	827-865	2650	30	54	16,1 smart+free

Price Category 21

Recessed downlights - Asymmetrical light distribution							
Ceiling cut out DA 228 mm							
MultiLumen version							
901712.00X	D 241, H 2, HE 169	LED	830	1400...4400	11...39	27,5...31,5	on/off
901712.00X.76	D 241, H 2, HE 169	LED	830	1400...4400	11...39	27,5...31,5	DALI
901712.00X.1	D 241, H 2, HE 169	LED	840	1450...4500	11...39	27,6...31,5	on/off
901712.00X.1.76	D 241, H 2, HE 169	LED	840	1450...4500	11...39	27,6...31,5	DALI
Tunable White - 2700 K to 6500 K							
901565.00X.2.76	D 241, H 2, HE 169	LED	827-865	2550	30	29,8	DALI
901565.00X.2.730	D 241, H 2, HE 169	LED	827-865	2550	30	29,8	smart+free

MultiLumen version: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.



Adjustable luminous flux MultiLumen

Symmetrical 901711.X			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	1500	1550	11,0
2	1750	1800	13,0
3	1980	2030	15,0
4	2220	2270	17,0
5	2450	2500	19,0
6	2640	2700	20,8
7	2830	2900	22,5
8	3010	3100	24,3
9	3200	3300	26,0
10	3390	3490	27,9
11	3570	3670	29,7
12	3760	3860	31,6
13	3940	4040	33,4
14	4130	4230	35,3
15	4310	4410	37,1
16	4500	4600	39,0

Asymmetrical 901712.X			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	1400	1450	11,0
2	1650	1700	13,0
3	1880	1930	15,0
4	2120	2170	17,0
5	2350	2400	19,0
6	2540	2600	20,8
7	2730	2800	22,5
8	2910	3000	24,3
9	3100	3200	26,0
10	3290	3390	27,9
11	3470	3570	29,7
12	3660	3760	31,6
13	3840	3940	33,4
14	4030	4130	35,3
15	4210	4310	37,1
16	4400	4500	39,0



Recessed downlights | Pascala EVO Square

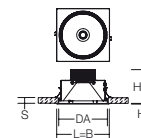
Type of Protection: IP 20
Protection Class: II
Ceiling thickness S: 6-35 mm
Impact Protection: IK03

Mounting bracket: galvanised sheet steel. Inner ring and square cover plate: die-cast aluminium.
Reflector material: **MIRO-SILVER®** with 98 percent total light reflection. Spring fastening system.
Connected converter included in separate gearbox. With connecting cable (L 400 mm).

Available colours (X): 2 = white, 4 = silver metallic

MultiLumen version: 16 steps adjustable luminous flux. Factory-preset to step 5.

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 11 W ≈

1 x 26 W TC-D (34 W Psys)

LED 30 W ≈

2 x 26 W TC-D (68 W Psys)

LED 39 W ≈

3 x 26 W TC-D (102 W Psys)



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR [°]	dimmable
Recessed downlights - Symmetrical light distribution							
Ceiling cut out DA 228 mm							
MultiLumen version							
901713.00X	L 242, B 242, H 3, HE 154	LED	830	1500...4500	11...39	57	15,5...19,3 on/off
901713.00X.76	L 242, B 242, H 3, HE 154	LED	830	1500...4500	11...39	57	15,5...19,3 DALI
901713.00X.1	L 242, B 242, H 3, HE 154	LED	840	1550...4600	11...39	57	15,6...19,4 on/off
901713.00X.1.76	L 242, B 242, H 3, HE 154	LED	840	1550...4600	11...39	57	15,6...19,4 DALI
Tunable White - 2700 K to 6500 K							
901561.00X.2.76	L 242, B 242, H 3, HE 154	LED	827-865	2650	30	54	16,1 DALI
901561.00X.2.730	L 242, B 242, H 3, HE 154	LED	827-865	2650	30	54	16,1 smart+free

Price Category 21

Recessed downlights - Asymmetrical light distribution							
Ceiling cut out DA 228 mm							
MultiLumen version							
901714.00X	L 242, B 242, H 3, HE 169	LED	830	1400...4400	11...39	27,5...31,5	on/off
901714.00X.76	L 242, B 242, H 3, HE 169	LED	830	1400...4400	11...39	27,5...31,5	DALI
901714.00X.1	L 242, B 242, H 3, HE 169	LED	840	1450...4500	11...39	27,6...31,5	on/off
901714.00X.1.76	L 242, B 242, H 3, HE 169	LED	840	1450...4500	11...39	27,6...31,5	DALI
Tunable White - 2700 K to 6500 K							
901569.00X.2.76	L 242, B 242, H 3, HE 169	LED	827-865	2550	30	29,8	DALI
901569.00X.2.730	L 242, B 242, H 3, HE 169	LED	827-865	2550	30	29,8	smart+free

Price Category 21

MultiLumen version: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Adjustable luminous flux MultiLumen

Symmetrical 901713.X			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	1500	1550	11,0
2	1750	1800	13,0
3	1980	2030	15,0
4	2220	2270	17,0
5	2450	2500	19,0
6	2640	2700	20,8
7	2830	2900	22,5
8	3010	3100	24,3
9	3200	3300	26,0
10	3390	3490	27,9
11	3570	3670	29,7
12	3760	3860	31,6
13	3940	4040	33,4
14	4130	4230	35,3
15	4310	4410	37,1
16	4500	4600	39,0

Asymmetrical 901714.X			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	1400	1450	11,0
2	1650	1700	13,0
3	1880	1930	15,0
4	2120	2170	17,0
5	2350	2400	19,0
6	2540	2600	20,8
7	2730	2800	22,5
8	2910	3000	24,3
9	3100	3200	26,0
10	3290	3390	27,9
11	3470	3570	29,7
12	3660	3760	31,6
13	3840	3940	33,4
14	4030	4130	35,3
15	4210	4310	37,1
16	4400	4500	39,0

Recessed downlights | Accessories for Pascala EVO Round

Available colours (X): 2 = white, 4 = silver metallic

Reference
number

Accessories Round

Price Category 21

for mounting to ROUND version of Pascala, not suitable for mounting to SQUARE version of Pascala

Diffuser: safety glass (IP 54), D 246 mm, H 14 mm

981753.00X	transparent
981753.01X	matt
981753.02X	centre: matt
981753.03X	centre: transparent

Decorative rings, satin finish (coloured), D 246 mm, H 14 mm

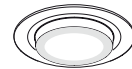
981754.00X	clear
981754.03X	red
981754.04X	green
981754.05X	blue
981754.06X	yellow

Decorative designer glass cover with lens, IP 54, D 246 mm, H 34 mm

981757.00X	transparent
981757.01X	matt
981757.02X	covering surface: transparent; floor: matt
981757.03X	covering surface: transparent; floor: partially matt (with transparent centre)

Decorative attachment (hanging down), D 265 mm, H 35 mm

981758.000	transparent
981758.002	matt
981758.010	centre: matt
981758.020	centre: transparent



Reference
number

Accessories Round

Price Category 21

with square cover plate; for mounting to ROUND version of Pascala, not suitable for mounting to Square version of Pascala

Diffuser: safety glass IP 54, L 246 mm, B 246 mm, H 14 mm

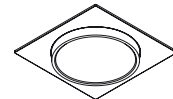
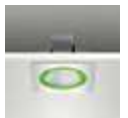
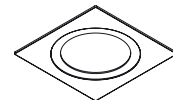
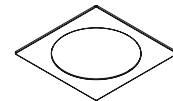
981895.00X	transparent
981895.01X	matt
981895.02X	centre: matt
981895.03X	centre: transparent

Decorative rings, satin finish (coloured), L 246 mm, B 246 mm, H 14 mm

981896.00X	transparent
981896.03X	red
981896.04X	green
981896.05X	blue
981896.06X	yellow

Decorative glass cover, IP 54, L 246 mm, B 246 mm, H 34 mm

981899.00X	transparent
981899.01X	matt
981899.02X	covering surface: transparent; floor: matt
981899.03X	covering surface: transparent; floor: partially matt (with transparent centre)



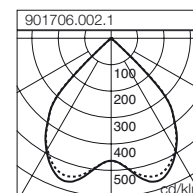


QUARDO®

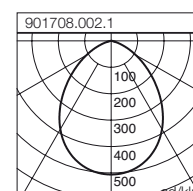
Recessed downlights

- High-quality recessed downlight with square luminous surface
- Open version for top efficiency, and square light pyramid
- Version with recessed satin-finish cover plate for harmonious lighting and attractive luminaire design
- LED rated life 50,000 h (L90/B10)
- Colour consistency within 2-steps MacAdam (2 SDCM)
- High quality converter without flickering and stroboscopic effect
- Separate converter box with connecting cable
- Easy to install thanks to tool-free spring fastening system

901706.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



901708.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



Recessed downlights | Quardo

Type of Protection: IP 20

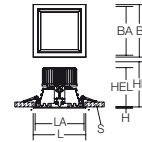
Protection Class: II


Ceiling thickness S: 1-30 mm

Impact Protection: IK03

Recessed frame: die-cast aluminium, powder-coated. Mounting bracket: galvanised sheet steel. Reflector: aluminium, highly polished anodised finish. Open or with recessed diffuser in satin-finish polycarbonate. Ceiling installation with spring system. Incl. separate LED converter with connecting cable 600 mm.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	UGR	dimmable
Recessed downlights								
Ceiling cut out LA 165 x BA 165 mm								
Open version								
901705.002	L 176, B 176, H 4, HE 150	LED	830	2500	19	87/88	21,9	on/off
901705.002.76	L 176, B 176, H 4, HE 150	LED	830	2500	19	87/88	21,9	DALI
901705.002.1	L 176, B 176, H 4, HE 150	LED	840	2600	19	87/88	22,1	on/off
901705.002.1.76	L 176, B 176, H 4, HE 150	LED	840	2600	19	87/88	22,1	DALI
901706.002	L 176, B 176, H 4, HE 150	LED	830	4200	37	87/88	23,8	on/off
901706.002.76	L 176, B 176, H 4, HE 150	LED	830	4200	37	87/88	23,8	DALI
901706.002.1	L 176, B 176, H 4, HE 150	LED	840	4450	37	87/88	24,0	on/off
901706.002.1.76	L 176, B 176, H 4, HE 150	LED	840	4450	37	87/88	24,0	DALI
Includes satin-finish diffuser								
901707.002	L 176, B 176, H 4, HE 150	LED	830	2300	19	88	24,9	on/off
901707.002.76	L 176, B 176, H 4, HE 150	LED	830	2300	19	88	24,9	DALI
901707.002.1	L 176, B 176, H 4, HE 150	LED	840	2400	19	88	25,1	on/off
901707.002.1.76	L 176, B 176, H 4, HE 150	LED	840	2400	19	88	25,1	DALI
901708.002	L 176, B 176, H 4, HE 150	LED	830	3900	37	88	26,8	on/off
901708.002.76	L 176, B 176, H 4, HE 150	LED	830	3900	37	88	26,8	DALI
901708.002.1	L 176, B 176, H 4, HE 150	LED	840	4150	37	88	27,0	on/off
901708.002.1.76	L 176, B 176, H 4, HE 150	LED	840	4150	37	88	27,0	DALI

Ra > 90 options on request

Price Category 21

**Comparison
LED vs. conventional lamps**

LED 19 W ≈
2 x 26 W TC-D (68 W Psys)

LED 37 W ≈
4 x 26 W TC-D (136 W Psys)



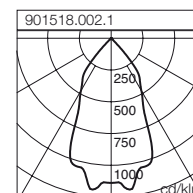


LEDONA®

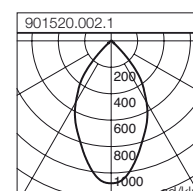
Recessed downlights

- Recessed LED downlight featuring advanced technology and sophisticated design
- Type of protection: IP 65 or IP 20
- IP 65 version also keeps the protection for the intermediate ceiling; this in turn means optimum protection against dust or moisture (does not apply to converter, IP 20)
- Single-layer safety glass diffuser (IP 65 LED version)
- IP 65 versions with ball impact protection in accordance with DIN 18032-03
- IP 65 versions with Gore™ Protective Vents diaphragm valve to avoid condensation
- IP 65 versions suitable for use in the food and drink industry
- Four-segment aluminium faceted reflector surface-structured for IP 65 or mirror finish for IP 20
- Unique light mixing chamber provides harmonized lighting and advanced anti-glare properties, as well as high LORs
- Ra 85 as standard, optionally Ra 95 also possible
- LED rated life 50,000 h (L80/B10)
- Tunable white versions dynamically adjustable from 2700 K to 6500 K
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download
- Colour tolerance within 2 MacAdam ellipses (2 SDCM) with standard monochrome LED; 4 MacAdam ellipses (4 SDCM) with tunable white LED
- Monochromatic version - converter is suitable for DC, suitable for central batteries
- Monochromatic versions suitable for through wiring
- Round ceiling cut-out also with square types
- Easy to install thanks to tool-free spring fastening system

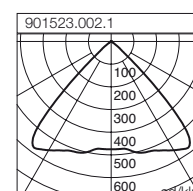
901518.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	5	8



901520.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



901523.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



Tunable white versions, dynamically adjustable from 2700 K to 6500 K. Ideal for use as part of a Human Centric Lighting concept



Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download



Passive cooling system

Unique light mixing chamber provides harmonized lighting and advanced anti-glare properties, as well as high LORs

Four-segment aluminium faceted reflector surface-structured for IP 65 or mirror finish for IP 20

IP 65

Keeps the protection for the intermediate ceiling; this in turn means optimum protection against dust or moisture (does not apply to converter, IP 20)

With Gore™ Protective Vents diaphragm valve to avoid condensation

Easy to install thanks to tool-free spring fastening system

Single-layer safety glass diffuser



Ball impact protection in accordance with DIN 18032-03



Suitable for use in the food and drink industry

LEDONA ROUND IP 20

LEDONA ROUND IP 65



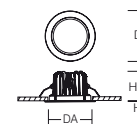
Recessed downlights | Ledona Round IP20

Type of Protection: IP 20
Protection Class: II
Ceiling thickness: 1-20 mm
Impact Protection: IK03

Housing: die-cast aluminium constructed as heat sink. Bezel ring: die-cast aluminium, powder coated. Open version. Faceted aluminium reflector high gloss, with high gloss light mixing chamber. Spring fastening system. Connected converter included in separate gearbox. With connecting cable (L 250 mm).

Available colour: 2 = white

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 11 / 16 W ≈

1 x 26 W TC-D (34 W Psys)

LED 18 / 30 W ≈

1 x 42 W TC-TEL (47 W Psys)

LED 26 W ≈

1 x 57 W TC-TEL (59 W Psys)

LED 33 W ≈

2 x 32 W TC-TEL (69 W Psys)

LED 40 W ≈

2 x 42 W TC-TEL (90 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR [°]	UGR	dim-able
Recessed downlights								
Ceiling cut out DA 120 mm								
901517.002	D 140, H 3, HE 85	LED	830	1150	11	46	18,3	on/off
901517.002.76	D 140, H 3, HE 79	LED	830	1150	11	46	18,3	DALI
901517.002.1	D 140, H 3, HE 85	LED	840	1200	11	46	18,4	on/off
901517.002.1.76	D 140, H 3, HE 79	LED	840	1200	11	46	18,4	DALI
901518.002	D 140, H 3, HE 85	LED	830	2050	18	52	20,4	on/off
901518.002.76	D 140, H 3, HE 79	LED	830	2050	18	52	20,4	DALI
901518.002.1	D 140, H 3, HE 85	LED	840	2100	18	52	20,5	on/off
901518.002.1.76	D 140, H 3, HE 79	LED	840	2100	18	52	20,5	DALI
Tunable White - 2700 K to 6500 K								
901517.002.2.76	D 140, H 3, HE 105	LED	827-865	1300	16	62	19,4	DALI
901517.002.2.730	D 140, H 3, HE 105	LED	827-865	1300	16	62	19,4	smart+free
Ceiling cut out DA 160 mm								
901519.002	D 180, H 3, HE 89	LED	830	2100	18	59	19,3	on/off
901519.002.76	D 180, H 3, HE 89	LED	830	2100	18	59	19,3	DALI
901519.002.1	D 180, H 3, HE 89	LED	840	2150	18	59	19,4	on/off
901519.002.1.76	D 180, H 3, HE 89	LED	840	2150	18	59	19,4	DALI
901520.002	D 180, H 3, HE 89	LED	830	2800	26	59	20,3	on/off
901520.002.76	D 180, H 3, HE 89	LED	830	2800	26	59	20,3	DALI
901520.002.1	D 180, H 3, HE 89	LED	840	2950	26	59	20,5	on/off
901520.002.1.76	D 180, H 3, HE 89	LED	840	2950	26	59	20,5	DALI
Tunable White - 2700 K to 6500 K								
901519.002.2.76	D 180, H 3, HE 89	LED	827-865	2350	30	71	20,3	DALI
901519.002.2.730	D 180, H 3, HE 89	LED	827-865	2350	30	71	20,3	smart+free
Ceiling cut out DA 210 mm								
901521.002	D 230, H 3, HE 108	LED	830	2750	26	88	21,5	on/off
901521.002.76	D 230, H 3, HE 108	LED	830	2750	26	88	21,5	DALI
901521.002.1	D 230, H 3, HE 108	LED	840	2900	26	88	21,6	on/off
901521.002.1.76	D 230, H 3, HE 108	LED	840	2900	26	88	21,6	DALI
901522.002	D 230, H 3, HE 108	LED	830	3450	33	88	22,2	on/off
901522.002.76	D 230, H 3, HE 108	LED	830	3450	33	88	22,2	DALI
901522.002.1	D 230, H 3, HE 108	LED	840	3600	33	88	22,4	on/off
901522.002.1.76	D 230, H 3, HE 108	LED	840	3600	33	88	22,4	DALI
901523.002	D 230, H 3, HE 108	LED	830	4050	40	88	22,8	on/off
901523.002.76	D 230, H 3, HE 108	LED	830	4050	40	88	22,8	DALI
901523.002.1	D 230, H 3, HE 108	LED	840	4200	40	88	22,9	on/off
901523.002.1.76	D 230, H 3, HE 108	LED	840	4200	40	88	22,9	DALI

Ra > 90 options on request

Recessed downlights | Ledona Round IP65

Type of Protection: **IP 65**, Converter IP 20

Protection Class: II

Ceiling thickness S: 1-20 mm

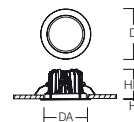
Impact Protection: IK07

Housing: die-cast aluminium constructed as heat sink. Bezel ring: die-cast aluminium, powder coated. Closed version. Standard Gore™ Protective Vents diaphragm valve to avoid condensation. LED diffuser made of safety glass. Faceted aluminium reflector satin-matt, with high gloss light mixing chamber. Spring fastening system. Connected converter included in separate gearbox. With connecting cable (L 250 mm).

Ball impact proof in accordance with DIN 18032-03.

Available colour: 2 = white

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-able
Recessed downlights							
Ceiling cut out DA 120 mm							
901524.002	D 140, H 3, HE 85	LED	830	1100	11	42	on/off
901524.002.76	D 140, H 3, HE 82	LED	830	1100	11	42	DALI
901524.002.1	D 140, H 3, HE 85	LED	840	1150	11	42	on/off
901524.002.1.76	D 140, H 3, HE 82	LED	840	1150	11	42	DALI
901525.002	D 140, H 3, HE 85	LED	830	1900	18	46	on/off
901525.002.76	D 140, H 3, HE 82	LED	830	1900	18	46	DALI
901525.002.1	D 140, H 3, HE 85	LED	840	1950	18	46	on/off
901525.002.1.76	D 140, H 3, HE 82	LED	840	1950	18	46	DALI
Tunable White - 2700 K to 6500 K							
901524.002.2.76	D 140, H 3, HE 105	LED	827-865	1250	16	61	DALI
901524.002.2.730	D 140, H 3, HE 105	LED	827-865	1250	16	61	smart+free
Ceiling cut out DA 160 mm							
901526.002	D 180, H 3, HE 92	LED	830	1900	18	57	on/off
901526.002.76	D 180, H 3, HE 92	LED	830	1900	18	57	DALI
901526.002.1	D 180, H 3, HE 92	LED	840	1950	18	57	on/off
901526.002.1.76	D 180, H 3, HE 92	LED	840	1950	18	57	DALI
901527.002	D 180, H 3, HE 92	LED	830	2500	26	57	on/off
901527.002.76	D 180, H 3, HE 92	LED	830	2500	26	57	DALI
901527.002.1	D 180, H 3, HE 92	LED	840	2650	26	57	on/off
901527.002.1.76	D 180, H 3, HE 92	LED	840	2650	26	57	DALI
Tunable White - 2700 K to 6500 K							
901526.002.2.76	D 180, H 3, HE 92	LED	827-865	2250	30	72	DALI
901526.002.2.730	D 180, H 3, HE 92	LED	827-865	2250	30	72	smart+free
Ceiling cut out DA 210 mm							
901528.002	D 230, H 3, HE 111	LED	830	2800	26	90	on/off
901528.002.76	D 230, H 3, HE 111	LED	830	2800	26	90	DALI
901528.002.1	D 230, H 3, HE 111	LED	840	2950	26	90	on/off
901528.002.1.76	D 230, H 3, HE 111	LED	840	2950	26	90	DALI
901529.002	D 230, H 3, HE 111	LED	830	3450	33	90	on/off
901529.002.76	D 230, H 3, HE 111	LED	830	3450	33	90	DALI
901529.002.1	D 230, H 3, HE 111	LED	840	3600	33	90	on/off
901529.002.1.76	D 230, H 3, HE 111	LED	840	3600	33	90	DALI
901530.002	D 230, H 3, HE 111	LED	830	4100	40	90	on/off
901530.002.76	D 230, H 3, HE 111	LED	830	4100	40	90	DALI
901530.002.1	D 230, H 3, HE 111	LED	840	4250	40	90	on/off
901530.002.1.76	D 230, H 3, HE 111	LED	840	4250	40	90	DALI

Ra > 90 options on request

Comparison LED vs. conventional lamps

LED 11 / 16 W ≈

1 x 26 W TC-D (34 W Psys)

LED 18 / 30 W ≈

1 x 42 W TC-TEL (47 W Psys)

LED 26 W ≈

1 x 57 W TC-TEL (59 W Psys)

LED 33 W ≈

2 x 32 W TC-TEL (69 W Psys)

LED 40 W ≈

2 x 42 W TC-TEL (90 W Psys)



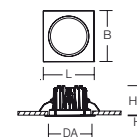
Recessed downlights | Ledona Square IP20

Type of Protection: IP 20
Protection Class: II
Ceiling thickness: 1-20 mm
Impact Protection: IK03

Housing: die-cast aluminium constructed as heat sink. Square cover plate: die-cast aluminium, powder-coated. Open version. Faceted aluminium reflector high gloss, with high gloss light mixing chamber. Spring fastening system. Connected converter included in separate gearbox. With connecting cable (L 250 mm).

Available colour: 2 = white

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 11 / 16 W ≈

1 x 26 W TC-D (34 W Psys)

LED 18 / 30 W ≈

1 x 42 W TC-TEL (47 W Psys)

LED 26 W ≈

1 x 57 W TC-TEL (59 W Psys)

LED 33 W ≈

2 x 32 W TC-TEL (69 W Psys)

LED 40 W ≈

2 x 42 W TC-TEL (90 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR [°]	UGR	dim-able
Recessed downlights								
Ceiling cut out DA 120 mm								
901531.002	L 130, B 130, H 3, HE 85	LED	830	1150	11	46	18,3	on/off
901531.002.76	L 130, B 130, H 3, HE 79	LED	830	1150	11	46	18,3	DALI
901531.002.1	L 130, B 130, H 3, HE 85	LED	840	1200	11	46	18,4	on/off
901531.002.1.76	L 130, B 130, H 3, HE 79	LED	840	1200	11	46	18,4	DALI
901532.002	L 130, B 130, H 3, HE 85	LED	830	2050	18	52	20,4	on/off
901532.002.76	L 130, B 130, H 3, HE 79	LED	830	2050	18	52	20,4	DALI
901532.002.1	L 130, B 130, H 3, HE 85	LED	840	2100	18	52	20,5	on/off
901532.002.1.76	L 130, B 130, H 3, HE 79	LED	840	2100	18	52	20,5	DALI
Tunable White - 2700 K to 6500 K								
901531.002.2.76	L 130, B 130, H 3, HE 105	LED	827-865	1300	16	62	19,4	DALI
901531.002.2.730	L 130, B 130, H 3, HE 105	LED	827-865	1300	16	62	19,4	smart+free
Ceiling cut out DA 160 mm								
901533.002	L 170, B 170, H 3, HE 89	LED	830	2100	18	59	19,3	on/off
901533.002.76	L 170, B 170, H 3, HE 89	LED	830	2100	18	59	19,3	DALI
901533.002.1	L 170, B 170, H 3, HE 89	LED	840	2150	18	59	19,4	on/off
901533.002.1.76	L 170, B 170, H 3, HE 89	LED	840	2150	18	59	19,4	DALI
901534.002	L 170, B 170, H 3, HE 89	LED	830	2800	26	59	20,3	on/off
901534.002.76	L 170, B 170, H 3, HE 89	LED	830	2800	26	59	20,3	DALI
901534.002.1	L 170, B 170, H 3, HE 89	LED	840	2950	26	59	20,5	on/off
901534.002.1.76	L 170, B 170, H 3, HE 89	LED	840	2950	26	59	20,5	DALI
Tunable White - 2700 K to 6500 K								
901533.002.2.76	L 170, B 170, H 3, HE 89	LED	827-865	2350	30	71	20,3	DALI
901533.002.2.730	L 170, B 170, H 3, HE 89	LED	827-865	2350	30	71	20,3	smart+free
Ceiling cut out DA 210 mm								
901535.002	L 220, B 220, H 3, HE 108	LED	830	2750	26	88	21,5	on/off
901535.002.76	L 220, B 220, H 3, HE 108	LED	830	2750	26	88	21,5	DALI
901535.002.1	L 220, B 220, H 3, HE 108	LED	840	2900	26	88	21,6	on/off
901535.002.1.76	L 220, B 220, H 3, HE 108	LED	840	2900	26	88	21,6	DALI
901536.002	L 220, B 220, H 3, HE 108	LED	830	3450	33	88	22,2	on/off
901536.002.76	L 220, B 220, H 3, HE 108	LED	830	3450	33	88	22,2	DALI
901536.002.1	L 220, B 220, H 3, HE 108	LED	840	3600	33	88	22,4	on/off
901536.002.1.76	L 220, B 220, H 3, HE 108	LED	840	3600	33	88	22,4	DALI
901537.002	L 220, B 220, H 3, HE 108	LED	830	4050	40	88	22,8	on/off
901537.002.76	L 220, B 220, H 3, HE 108	LED	830	4050	40	88	22,8	DALI
901537.002.1	L 220, B 220, H 3, HE 108	LED	840	4200	40	88	22,9	on/off
901537.002.1.76	L 220, B 220, H 3, HE 108	LED	840	4200	40	88	22,9	DALI

Ra > 90 options on request

Recessed downlights | Ledona Square IP65

Type of Protection: **IP 65**, Converter IP 20

Protection Class: II

Ceiling thickness: 1-20 mm

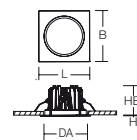
Impact Protection: IK07

Housing: die-cast aluminium constructed as heat sink. Square cover plate: die-cast aluminium, powder-coated. Closed version. Standard Gore™ Protective Vents diaphragm valve to avoid condensation. LED diffuser made of safety glass. Faceted aluminium reflector satin-matt, with high gloss light mixing chamber. Spring fastening system. Connected converter included in separate gearbox. With connecting cable (L 250 mm).

Ball impact proof in accordance with DIN 18032-03.

Available colour: 2 = white

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dim-able
Recessed downlights							
Ceiling cut out DA 120 mm							
901538.002	L 130, B 130, H 3, HE 85	LED	830	1100	11	42	on/off
901538.002.76	L 130, B 130, H 3, HE 82	LED	830	1100	11	42	DALI
901538.002.1	L 130, B 130, H 3, HE 85	LED	840	1150	11	42	on/off
901538.002.1.76	L 130, B 130, H 3, HE 82	LED	840	1150	11	42	DALI
901539.002	L 130, B 130, H 3, HE 85	LED	830	1900	18	46	on/off
901539.002.76	L 130, B 130, H 3, HE 82	LED	830	1900	18	46	DALI
901539.002.1	L 130, B 130, H 3, HE 85	LED	840	1950	18	46	on/off
901539.002.1.76	L 130, B 130, H 3, HE 82	LED	840	1950	18	46	DALI
Tunable White - 2700 K to 6500 K							
901538.002.2.76	L 130, B 130, H 3, HE 105	LED	827-865	1250	16	61	DALI
901538.002.2.730	L 130, B 130, H 3, HE 105	LED	827-865	1250	16	61	smart+free
Ceiling cut out DA 160 mm							
901540.002	L 170, B 170, H 3, HE 92	LED	830	1900	18	57	on/off
901540.002.76	L 170, B 170, H 3, HE 92	LED	830	1900	18	57	DALI
901540.002.1	L 170, B 170, H 3, HE 92	LED	840	1950	18	57	on/off
901540.002.1.76	L 170, B 170, H 3, HE 92	LED	840	1950	18	57	DALI
901541.002	L 170, B 170, H 3, HE 92	LED	830	2500	26	57	on/off
901541.002.76	L 170, B 170, H 3, HE 92	LED	830	2500	26	57	DALI
901541.002.1	L 170, B 170, H 3, HE 92	LED	840	2650	26	57	on/off
901541.002.1.76	L 170, B 170, H 3, HE 92	LED	840	2650	26	57	DALI
Tunable White - 2700 K to 6500 K							
901540.002.2.76	L 170, B 170, H 3, HE 92	LED	827-865	2250	30	72	DALI
901540.002.2.730	L 170, B 170, H 3, HE 92	LED	827-865	2250	30	72	smart+free
Ceiling cut out DA 210 mm							
901542.002	L 220, B 220, H 3, HE 111	LED	830	2800	26	90	on/off
901542.002.76	L 220, B 220, H 3, HE 111	LED	830	2800	26	90	DALI
901542.002.1	L 220, B 220, H 3, HE 111	LED	840	2950	26	90	on/off
901542.002.1.76	L 220, B 220, H 3, HE 111	LED	840	2950	26	90	DALI
901543.002	L 220, B 220, H 3, HE 111	LED	830	3450	33	90	on/off
901543.002.76	L 220, B 220, H 3, HE 111	LED	830	3450	33	90	DALI
901543.002.1	L 220, B 220, H 3, HE 111	LED	840	3600	33	90	on/off
901543.002.1.76	L 220, B 220, H 3, HE 111	LED	840	3600	33	90	DALI
901544.002	L 220, B 220, H 3, HE 111	LED	830	4100	40	90	on/off
901544.002.76	L 220, B 220, H 3, HE 111	LED	830	4100	40	90	DALI
901544.002.1	L 220, B 220, H 3, HE 111	LED	840	4250	40	90	on/off
901544.002.1.76	L 220, B 220, H 3, HE 111	LED	840	4250	40	90	DALI

Ra > 90 options on request

Comparison LED vs. conventional lamps

LED 11 / 16 W ≈

1 x 26 W TC-D (34 W Psys)

LED 18 / 30 W ≈

1 x 42 W TC-TEL (47 W Psys)

LED 26 W ≈

1 x 57 W TC-TEL (59 W Psys)

LED 33 W ≈

2 x 32 W TC-TEL (69 W Psys)

LED 40 W ≈

2 x 42 W TC-TEL (90 W Psys)

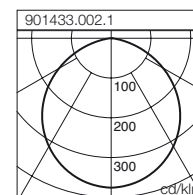


LEDONA® ECO

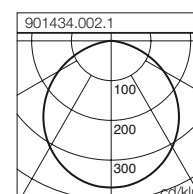
Recessed downlights

- Recessed LED downlight to fulfill highest demands
- IP 65 rating also for the intermediate ceiling; this in turn means optimum protection against dust or moisture
- Ball impact protection in accordance with DIN 18032-03
- With Gore™ Protective Vents diaphragm valve to avoid condensation
- Suitable for use in the food and drink industry
- Shockproof cover made of plastic (opal)
- Interchangeable mains voltage LED
- Colour rendering index Ra 83
- LED rated life 50,000 h (L70/B30)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Direct connection to 220-240 V AC, i.e. no converter needed
- Dimmable with standard trailing or leading edge dimmers
- Round ceiling cut-out also with square types
- Easy to install thanks to tool-free spring fastening system

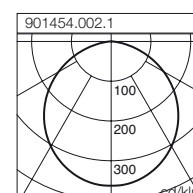
901433.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
9	13	17
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
12	18	30



901434.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	6	8
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
6	9	15



901454.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	6
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	6	10



Recessed downlights | Ledona ECO Round

Type of Protection: **IP 65**

Protection Class: I

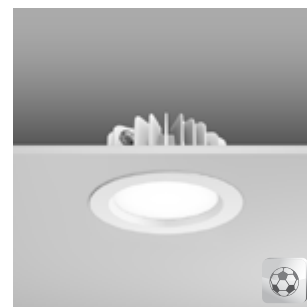
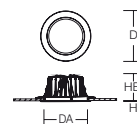
Ceiling thickness: 1-20 mm

Impact Protection: IK07

Bezel ring and housing: die-cast aluminium, powder-coated. Cover: plastic, opal. Standard Gore™ Protective Vents diaphragm valve to avoid condensation. Ceiling installation with spring system. 2 meter connecting cable with open wire ends. No converter required.

Ball impact proof in accordance with DIN 18032-03.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR [°]	dimmable	
Recessed downlights								Price Category 21
Suitable for phase cut dimming (10-100%)								
Ceiling cut out DA 120 mm								
901431.002	D 140, H 3, HE 80	LED ⁽¹⁾	830	660	9,7	108	25,1	Phase-cut
901431.002.1	D 140, H 3, HE 80	LED ⁽¹⁾	840	690	9,7	108	27,4	Phase-cut
Ceiling cut out DA 160 mm								
901433.002	D 180, H 3, HE 90	LED ⁽¹⁾	830	740	9,7	108	25,5	Phase-cut
901433.002.1	D 180, H 3, HE 90	LED ⁽¹⁾	840	780	9,7	108	27,8	Phase-cut
901434.002	D 180, H 3, HE 90	LED ⁽¹⁾	830	1250	20	109	28,0	Phase-cut
901434.002.1	D 180, H 3, HE 90	LED ⁽¹⁾	840	1300	20	109	28,2	Phase-cut
Ceiling cut out DA 210 mm								
901454.002	D 230, H 2, HE 114	LED ⁽¹⁾	830	2200	30	110	27,5	Phase-cut
901454.002.1	D 230, H 2, HE 114	LED ⁽¹⁾	840	2400	30	110	27,8	Phase-cut

Comparison LED vs. conventional lamps

LED 9,7 W ≈

1 x 18 W TC-D (26 W Psys)

LED 20 W ≈

2 x 18 W TC-D (52 W Psys)

LED 30 W ≈

2 x 26 W TC-D (68 W Psys)

Recessed downlights | Ledona ECO Square

Type of Protection: **IP 65**

Protection Class: I

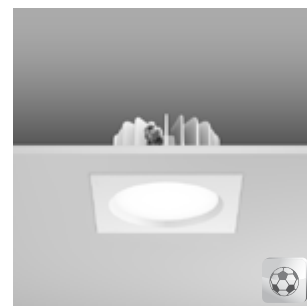
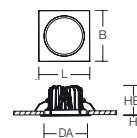
Ceiling thickness: 1-20 mm

Impact Protection: IK07

Square cover and housing: die-cast aluminium, powder-coated. Cover: plastic, opal. Standard Gore™ Protective Vents diaphragm valve to avoid condensation. Ceiling installation with spring system. 2 meter connecting cable with open wire ends. No converter required.

Ball impact proof in accordance with DIN 18032-03.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR [°]	dimmable	
Recessed downlights								Price Category 21
Suitable for phase cut dimming (10-100%)								
Ceiling cut out DA 120 mm								
901435.002	L 130, B 130, H 3, HE 80	LED ⁽¹⁾	830	660	9,7	108	25,1	Phase-cut
901435.002.1	L 130, B 130, H 3, HE 80	LED ⁽¹⁾	840	690	9,7	108	27,4	Phase-cut
Ceiling cut out DA 160 mm								
901437.002	L 170, B 170, H 3, HE 90	LED ⁽¹⁾	830	740	9,7	108	25,5	Phase-cut
901437.002.1	L 170, B 170, H 3, HE 90	LED ⁽¹⁾	840	780	9,7	108	27,8	Phase-cut
901438.002	L 170, B 170, H 3, HE 90	LED ⁽¹⁾	830	1250	20	109	28,0	Phase-cut
901438.002.1	L 170, B 170, H 3, HE 90	LED ⁽¹⁾	840	1300	20	109	28,2	Phase-cut
Ceiling cut out DA 210 mm								
901455.002	L 220, B 220, H 3, HE 110	LED ⁽¹⁾	830	2200	30	110	27,5	Phase-cut
901455.002.1	L 220, B 220, H 3, HE 110	LED ⁽¹⁾	840	2400	30	110	27,8	Phase-cut

Comparison LED vs. conventional lamps

LED 9,7 W ≈

1 x 18 W TC-D (26 W Psys)

LED 20 W ≈

2 x 18 W TC-D (52 W Psys)

LED 30 W ≈

2 x 26 W TC-D (68 W Psys)

TOLEDO FLAT

Everything at a glance



HF motion detector with **Bluetooth®** interfaces and DALI broadcast interfaces for switching, dimming and networking from individual luminaires up to complex light installations

Mesh sensors create a wireless connection between each other. This allows for flexible configuration via smartphone or tablet.

Alternatively: low-cost HF motion detector EASY for direct setting of the sensor via buttons, also with master-slave wiring option

Suitable for ceiling thicknesses of 1-20 mm

Can be directly covered with thermal insulation material

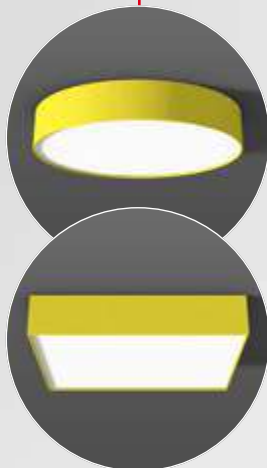
Ultra thin recessed downlight

IP54

High type of protection (room side)

Retrofittable decorative cylinders made of chintz fabric in a wide range of colours

Lightguide and plastic **diffuser** made of **non-yellowing PMMA**





Very easy plug-in installation (Quick connector)



DALI converter is compatible with DC, suitable for central battery system

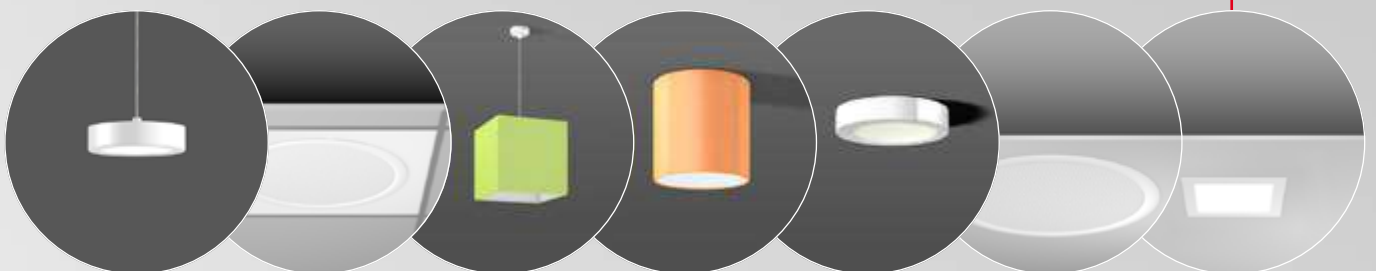


Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download



Tunable white versions, dynamically adjustable from 2700 K to 6500 K.
Ideal for use as part of a Human Centric Lighting concept

Recessed / surface-mounted downlights and fabric lampshade luminaires available in round and square shapes as well as recessed modular pendant luminaires and emergency lighting





TOLEDO FLAT

Recessed downlights

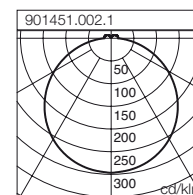
- Ultra thin recessed LED downlight
- **Lightguide** and plastic **diffuser** made of **non-yellowing PMMA**
- Shallow recessed depth
- LED rated life 50,000 h (L70/B10)
- Colour rendering index Ra > 80
- Colour consistency within 4-steps MacAdam (4 SDCM)
- Tunable white versions dynamically adjustable from 2700 K to 6500 K
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download



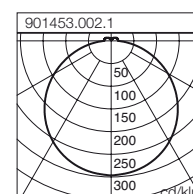
Further luminaires of this series, see:
 Indoor lighting | Recessed modular luminaires
 Indoor lighting | Pendant luminaires
 Indoor lighting | Surface mounted downlights
 Indoor lighting | Fabric lampshade luminaires
 Emergency lighting | Escape route illumination

- Versions with connected HF motion detector can be configured through app via Bluetooth® or buttons
- Easy to install thanks to tool-free spring fastening system
- Can be directly covered with thermal insulation material (does not apply for D 495 mm diameter)
- Separate converter box with connecting cable
- DALI converter is compatible with DC, suitable for central battery system
- Surface mounted housing as accessory for all sizes
- Retrofittable decorative cylinders made of chintz fabric as accessory, optional with satin finish polycarbonate diffuser
- Applications: Corridors, side rooms, hotels, restaurants, conference rooms, private rooms

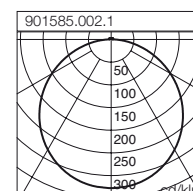
901451.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
13	19	25
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
18	27	45



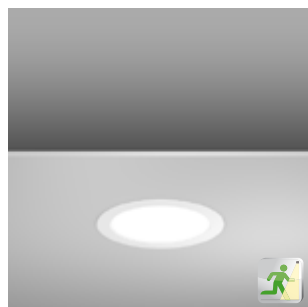
901453.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	6	8
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
6	8	13



901585.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	7







Recessed downlights | Toledo Flat Round

Type of Protection: IP 20, IP 54 on room side

Protection Class: II

Ceiling thickness: 1-20 mm

Impact Protection: IK03 (Tunable White), IK06

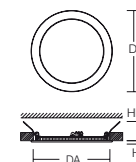
Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Incl. separate LED converter with connecting cable 250 mm.

Available colour: 2 = white

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 5 W ≈

1 x 10 W TC-D (16 W Psys)

LED 7,7 W ≈

1 x 18 W TC-D (26 W Psys)

LED 17 / 18 W ≈

1 x 32 W TC-D (36 W Psys)

LED 22 / 23 W ≈

2 x 26 W TC-D (68 W Psys)

LED 30 W ≈

3 x 26 W TC-D (102 W Psys)

4 x 14 W T16 (68 W Psys)

4 x 18 W T26 (104 W Psys)

Recessed downlights

Diffuser: plastic, opal

Ceiling cut out DA 128 mm

901451.002.Q	D 148, H 2, HE 27-53	LED	830	470	5	110	on/off	✓
901451.002.76	D 148, H 2, HE 31-53	LED	830	470	5	110	DALI	
901451.002.1.Q	D 148, H 2, HE 27-53	LED	840	530	5	110	on/off	✓
901451.002.1.76	D 148, H 2, HE 31-53	LED	840	530	5	110	DALI	

Ceiling cut out DA 170 mm

901452.002.Q	D 190, H 2, HE 27-53	LED	830	780	7,7	110	on/off	✓
901452.002.76	D 190, H 2, HE 31-53	LED	830	780	7,7	110	DALI	
901452.002.1.Q	D 190, H 2, HE 27-53	LED	840	840	7,7	110	on/off	✓
901452.002.1.76	D 190, H 2, HE 31-53	LED	840	840	7,7	110	DALI	

Ceiling cut out DA 234 mm

901453.002.Q	D 255, H 3, HE 30-56	LED	830	1650	17	110	on/off	✓
901453.002.76.Q	D 255, H 3, HE 31-56	LED	830	1650	17	110	DALI	
901453.002.1.Q	D 255, H 3, HE 30-56	LED	840	1800	17	110	on/off	✓
901453.002.1.76	D 255, H 3, HE 31-56	LED	840	1800	17	110	DALI	

Tunable White - 2700 K to 6500 K

901666.002.76	D 255, H 3, HE 30-56	LED	827-865	1500	18	110	DALI	
901666.002.730	D 255, H 3, HE 55-75	LED	827-865	1550	18	110	smart+free	

Ceiling cut out DA 288 mm

901484.002.Q	D 317, H 3, HE 31-54	LED	830	2150	22	108	on/off	✓
901484.002.76	D 317, H 3, HE 31-54	LED	830	2150	22	108	DALI	
901484.002.1.Q	D 317, H 3, HE 31-54	LED	840	2250	22	108	on/off	✓
901484.002.1.76	D 317, H 3, HE 31-54	LED	840	2250	22	108	DALI	

Tunable White - 2700 K to 6500 K

901667.002.76	D 317, H 3, HE 31-54	LED	827-865	2100	23	108	DALI	
901667.002.730	D 317, H 3, HE 55-75	LED	827-865	2150	23	108	smart+free	

Ceiling cut out DA 470 mm

901585.002	D 495, H 6, HE 40-59	LED	830	3550	30	113	on/off	
901585.002.76	D 495, H 6, HE 40-59	LED	830	3550	30	113	DALI	
901585.002.1	D 495, H 6, HE 40-59	LED	840	3600	30	113	on/off	
901585.002.1.76	D 495, H 6, HE 40-59	LED	840	3600	30	113	DALI	

Tunable White - 2700 K to 6500 K

901668.002.76	D 495, H 6, HE 35-55	LED	827-865	2850	30	113	DALI	
901668.002.730	D 495, H 6, HE 55-75	LED	827-865	2850	30	113	smart+free	

Diffuser: transparent plastic, microprismatic

Ceiling cut out DA 470 mm

901586.002	D 495, H 6, HE 40-59	LED	830	3450	30	88	on/off	
901586.002.76	D 495, H 6, HE 40-59	LED	830	3450	30	88	DALI	
901586.002.1	D 495, H 6, HE 40-59	LED	840	3550	30	88	on/off	
901586.002.1.76	D 495, H 6, HE 40-59	LED	840	3550	30	88	DALI	

Tunable White - 2700 K to 6500 K

901669.002.76	D 495, H 6, HE 35-55	LED	827-865	2550	30	88	DALI	
901669.002.730	D 495, H 6, HE 55-75	LED	827-865	2750	30	88	smart+free	



D 148



D 190



D 255



D 317



D 495



D 495 microprismatic



Recessed frame

Module 600

982182.002 L 595, B 595, H 36 for Toledo Flat Round D 495

Module 625

982183.002 L 622, B 622, H 36 for Toledo Flat Round D 495

Accessories | Surface mounting accessories

Ceiling frame and mounting plate galvanised metal. Cylinder housing sheet steel, powder coated. Downlight can be locked without tools. Not suitable for the Tunable White version and version with HF motion detector.



Surface mounted housing

982072.002*	D 150, H 55	for Toledo Flat Round D 148
982073.002	D 192, H 55	for Toledo Flat Round D 190
982074.002	D 257, H 60	for Toledo Flat Round D 255
982119.002	D 319, H 60	for Toledo Flat Round D 317
982181.002	D 500, H 57	for Toledo Flat Round D 495

* Not suitable for DALI version

Recessed downlights | Toledo Flat Round with movement sensor

Type of Protection: IP 20, **IP 54** on room side

Protection Class: I

Ceiling thickness: 1-20 mm

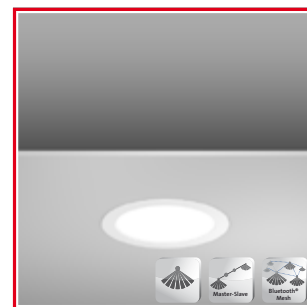
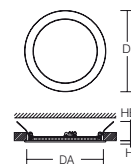
Impact Protection: IK04

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Incl. separate LED converter with connecting cable 250 mm.

Available colour: 2 = white



Function parameters: HF motion detector EASY

- HF detector 5.8 GHz
- Holding time 10 sec. - 20 min.; adjustable in 7 steps
- Detection angle 120°
- Range up to 8 m; adjustable in 5 steps
- Factory setting: holding time 15 minutes, range approx. 6 m
- Adjustable in control gear box
- Master-slave: up to three additional Toledo Flat on/off 17 W can be connected

Function parameters: HF motion detector Bluetooth® DALI

- HF detector 5.8 GHz
- Holding time 5 sec. - 60 min.; adjustable in 13 steps
- Detection angle 120°
- Range up to 8 m; adjustable in 10% steps
- Factory setting: hold time 30 seconds, range approx. 6 m, dim level 30%
- Dim functions: Soft Start, Corridor, Permanent
- Additional functions: create profiles and groups, networking the sensors
- Functions adjustable via MICAS Autolight app on tablet or smartphone
- Master-master via Bluetooth® mesh and master-slave wired
- Master-slave: up to three additional Toledo Flat DALI 17 W can be connected



MICAS Autolight App -
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Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimming angle [°]	dimming
Recessed downlights with connected movement sensor							
Diffuser: plastic, opal							
Ceiling cut out DA 234 mm							
HF-movement sensor EASY adjustable with buttons							
901453.002.19	D 255, H 3, HE 55-76	LED	830	1650	17	110	on/off
901453.002.1.19	D 255, H 3, HE 55-76	LED	840	1800	17	109	on/off
HF-movement sensor adjustable with app via Bluetooth®-DALI							
901715.002.19	D 255, H 3, HE 55-76	LED	830	1650	17	110	on/off
901715.002.1.19	D 255, H 3, HE 55-76	LED	840	1800	17	109	on/off

Not suitable for metal ceilings.

Accessories | Chintz decorative element Toledo Flat Round

Standard colour covering surface: 66.8003.01 white

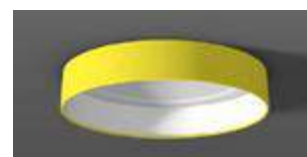
Further colours (see page 347) available at the same price.

Please include the colour code in your order.

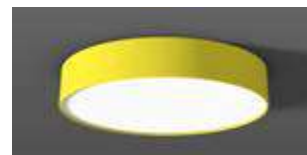
Can be retrofitted without tools to the recessed downlight.

Please be aware of possible increased freight charges for deliveries outside of Germany.

Available colour: 2 = white



without diffuser



with diffuser

Chintz lampshades			Price Category 21	
982319.002	D 153, H 60	Chintz decorative cylinder for Toledo Flat Round D 148		
982320.002	D 195, H 60	Chintz decorative cylinder for Toledo Flat Round D 190		
982321.002	D 260, H 60	Chintz decorative cylinder for Toledo Flat Round D 255		
982322.002	D 322, H 60	Chintz decorative cylinder for Toledo Flat Round D 317		
982323.002	D 500, H 60	Chintz decorative cylinder for Toledo Flat Round D 495		

Cannot be fitted with surface mount housing

Satin finish polycarbonate diffuser (optional)

Can be installed on the decorative element without any tools

982324.002	D 151, H 4	Accessories for chintz decorative cylinder D 153
982325.002	D 193, H 4	Accessories for chintz decorative cylinder D 195
982326.002	D 258, H 4	Accessories for chintz decorative cylinder D 260
982327.002	D 320, H 4	Accessories for chintz decorative cylinder D 322
982328.002	D 498, H 4	Accessories for chintz decorative cylinder D 500

Diffusers with Chintz fabric in all colours on request.

Colour chart Chintz lampshades

W06630 Chintz lampshades are available in more than 70 different colours

Price Category 21

Other variants and colour chart
with more than 70 colors see
chapter of fabric lampshade
luminaires





Recessed downlights | Toledo Flat Square

Type of Protection: IP 20, **IP 54** on room side

Protection Class: II

Ceiling thickness: 1-20 mm

Impact Protection: IK03 (Tunable White), IK06

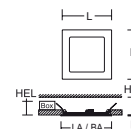
Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Incl. separate LED converter with connecting cable 250 mm.

Available colour: 2 = white

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Comparison LED vs. conventional lamps

LED 5 W ≈

1 x 10 W TC-D (16 W Psys)

LED 8 W ≈

1 x 18 W TC-D (26 W Psys)

LED 17 / 18 W ≈

1 x 32 W TC-TEL (36 W Psys)

LED 21 / 24 W ≈

2 x 26 W TC-D (68 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	Beam angle [°]	dim-able	
Price Category 21								
Diffuser: plastic, opal								
Ceiling cut out LA 96 x BA 96 mm								
901485.002	L 110, B 110, H 3, HE 27-56	LED	830	420	5	107	on/off	✓
901485.002.76	L 110, B 110, H 3, HE 31-56	LED	830	420	5	107	DALI	
901485.002.1	L 110, B 110, H 3, HE 27-56	LED	840	430	5	107	on/off	✓
901485.002.1.76	L 110, B 110, H 3, HE 31-56	LED	840	430	5	107	DALI	
Ceiling cut out LA 156 x BA 156 mm								
901486.002	L 172, B 172, H 3, HE 28-56	LED	830	770	8	108	on/off	✓
901486.002.76	L 172, B 172, H 3, HE 31-56	LED	830	770	8	108	DALI	
901486.002.1	L 172, B 172, H 3, HE 28-56	LED	840	800	8	108	on/off	✓
901486.002.1.76	L 172, B 172, H 3, HE 31-56	LED	840	800	8	108	DALI	
Ceiling cut out LA 208 x BA 208 mm								
901487.002	L 225, B 225, H 3, HE 29-56	LED	830	1650	17	108	on/off	✓
901487.002.76	L 225, B 225, H 3, HE 31-56	LED	830	1650	17	108	DALI	
901487.002.1.Q	L 225, B 225, H 3, HE 29-56	LED	840	1800	17	108	on/off	✓
901487.002.1.76	L 225, B 225, H 3, HE 31-56	LED	840	1800	17	108	DALI	
Tunable White - 2700 K to 6500 K								
901670.002.76	L 225, B 225, H 3, HE 29-56	LED	827-865	1500	18	108	DALI	
901670.002.730	L 225, B 225, H 3, HE 55-75	LED	827-865	1500	18	108	smart+free	
Ceiling cut out LA 280 x BA 280 mm								
901488.002	L 300, B 300, H 3, HE 31-56	LED	830	2150	21	108	on/off	✓
901488.002.76	L 300, B 300, H 3, HE 31-56	LED	830	2150	21	108	DALI	
901488.002.1.Q	L 300, B 300, H 3, HE 31-56	LED	840	2250	21	108	on/off	✓
901488.002.1.76	L 300, B 300, H 3, HE 31-56	LED	840	2250	21	108	DALI	
Tunable White - 2700 K to 6500 K								
901671.002.76	L 300, B 300, H 3, HE 31-56	LED	827-865	2200	24	108	DALI	
901671.002.730	L 300, B 300, H 3, HE 55-75	LED	827-865	2200	24	108	smart+free	



L x B 110



L x B 172



L x B 225



L x B 300

Accessories | Surface mounting accessories

Surface mounted housing: sheet steel, powder coated. Downlight can be locked without tools.

Not suitable for the Tunable White version and version with HF motion detector.

Surface mounted housing

Price Category 21

982138.002*	L 110, B 110, H 55	for Toledo Flat Square 110 x 110
982139.002	L 172, B 172, H 55	for Toledo Flat Square 172 x 172
982140.002	L 225, B 225, H 55	for Toledo Flat Square 225 x 225
982141.002	L 300, B 300, H 55	for Toledo Flat Square 300 x 300

* Not suitable for DALI version



L x B 110



L x B 172



L x B 225



L x B 300

Recessed downlights | Toledo Flat Square with movement sensor

Type of Protection: IP 20, **IP 54** on room side

Protection Class: I

Ceiling thickness: 1-20 mm

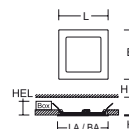
Impact Protection: IK04

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Incl. separate LED converter with connecting cable 250 mm.

Available colour: 2 = white



Function parameters: HF motion detector EASY

- HF detector 5.8 GHz
- Holding time 10 sec. - 20 min.; adjustable in 7 steps
- Detection angle 120°
- Range up to 8 m; adjustable in 5 steps
- Factory setting: holding time 15 minutes, range approx. 6 m
- Adjustable in control gear box
- Master-slave: up to three additional Toledo Flat on/off 17 W can be connected

Function parameters: HF motion detector Bluetooth® DALI

- HF detector 5.8 GHz
- Holding time 5 sec. - 60 min.; adjustable in 13 steps
- Detection angle 120°
- Range up to 8 m; adjustable in 10% steps
- Factory setting: hold time 30 seconds, range approx. 6 m, dim level 30%
- Dim functions: Soft Start, Corridor, Permanent
- Additional functions: create profiles and groups, networking the sensors
- Functions adjustable via MICAS Autolight app on tablet or smartphone
- Master-master via Bluetooth® mesh and master-slave wired
- Master-slave: up to three additional Toledo Flat DALI 17 W can be connected



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Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim- mable
Recessed downlights with connected movement sensor						
Diffuser: plastic, opal						
Ceiling cut out LA 208 x BA 208 mm						
HF-movement sensor EASY adjustable with buttons						
901487.002.19	L 225, B 225, H 3, HE 55-76	LED	830	1650	17	on/off
901487.002.1.19	L 225, B 225, H 3, HE 55-76	LED	840	1800	17	on/off
HF-movement sensor adjustable with app via Bluetooth®-DALI						
901716.002.19	L 225, B 225, H 3, HE 55-76	LED	830	1650	17	on/off
901716.002.1.19	L 225, B 225, H 3, HE 55-76	LED	840	1800	17	on/off

Not suitable for metal ceilings.

Accessories | Chintz decorative element Toledo Flat Square

Standard colour covering surface: 66.8003.01 white

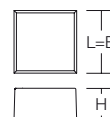
Further colours (see page 347) available at the same price.

Please include the colour code in your order.

Can be retrofitted without tools to the recessed downlight.

Please be aware of possible increased freight charges for deliveries outside of Germany.

Available colour: 2 = white



without diffuser



with diffuser

Chintz lampshades			Price Category 21
982501.002	L 115, B 115, H 60	Chintz decorative element for Toledo Flat Square 110 x 110	
982502.002	L 177, B 177, H 60	Chintz decorative element for Toledo Flat Square 172 x 172	
982503.002	L 230, B 230, H 60	Chintz decorative element for Toledo Flat Square 225 x 225	
982504.002	L 305, B 305, H 60	Chintz decorative element for Toledo Flat Square 300 x 300	

Cannot be fitted with surface mount housing

Satin finish polycarbonate diffuser (optional)

Can be installed on the decorative element without any tools

982505.002	L 113, B 113, H 4	Accessories for chintz decor cube 115 x 115
982506.002	L 175, B 175, H 4	Accessories for chintz decor cube 177 x 177
982507.002	L 228, B 228, H 4	Accessories for chintz decor cube 230 x 230
982508.002	L 303, B 303, H 4	Accessories for chintz decor cube 305 x 305

Diffusers with Chintz fabric in all colours on request.

Colour chart Chintz lampshades

W06630 Chintz lampshades are available in more than 70 different colours

Price Category 21

Other variants and colour chart
with more than 70 colors see
chapter of fabric lampshade
luminaires



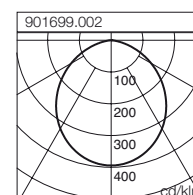


TOLEDO

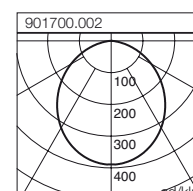
Recessed downlights

- High efficiency LED recessed downlight in three sizes
- Housing and opal plastic diffuser made of UV-resistant polycarbonate
- Homogeneous and smooth light distribution
- Colour temperature individually variable to 3000 K or 4000 K via Multicolour function via rear switching element
- Protection type IP 44
- Colour rendering index $R_a > 80$
- LED rated life 50,000 h (L70/B50)
- Colour consistency within 4-steps MacAdam (4 SDCM)
- Suitable for through-wiring (doesn't apply to D130/DALI)
- Spring fastening system for installation without tools

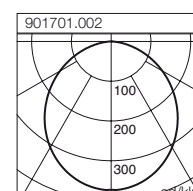
901699.002			
Floor 12 x 2,5 x 3m (0,2m)			
100 lx	150 lx	200 lx	
9	13	17	
Room 6 x 4 x 3 m (0,75 m)			
200 lx	300 lx	500 lx	
13	19	31	



901700.002			
Floor 12 x 2,5 x 3m (0,2m)			
100 lx	150 lx	200 lx	
4	6	7	
Room 6 x 4 x 3 m (0,75 m)			
200 lx	300 lx	500 lx	
6	8	13	



901701.002			
Floor 12 x 2,5 x 3m (0,2m)			
100 lx	150 lx	200 lx	
3	4	5	
Room 6 x 4 x 3 m (0,75 m)			
200 lx	300 lx	500 lx	
4	6	9	



Recessed downlights | Toledo

Type of Protection: IP 20, **IP 44** on room side

Protection Class: II

Ceiling thickness S: 1-25 mm

Impact Protection: IK05

Bezel ring: die-cast aluminium, powder coated. Housing: plastic (polycarbonate), UV-resistant.

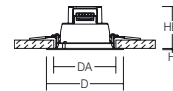
Diffusor plastic (polycarbonate UV-resistant) opal, impact resistant. Spring fastening system.

On/off version with integrated converter. DALI version with separate converter.

Available colour: 2 = white

Multicolour function: colour temperature variable via rear switching element.

Factory-set to 4000 K.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	UGR	dimmable	
Recessed downlights									Price Category 21
Ceiling cut out DA 105 mm									
901699.002	D 130, H 2, HE 100	LED	830, 840	700	6,5	104	27,2	on/off	
901699.002.76	D 130, H 2, HE 100	LED	830, 840	700	6,5	104	27,2	DALI	
Ceiling cut out DA 150 mm									
901700.002	D 172, H 2, HE 140	LED	830, 840	1650	16	104	28,3	on/off	
901700.002.76	D 172, H 2, HE 140	LED	830, 840	1650	16	104	28,3	DALI	
Ceiling cut out DA 200 mm									
901701.002	D 225, H 4, HE 140	LED	830, 840	2500	23	107	28,0	on/off	
901701.002.76	D 225, H 4, HE 140	LED	830, 840	2500	23	107	28,0	DALI	

MultiColour version: luminous flux and system power can vary depends on the light color. You will find more detailed information on www.rzb-lighting.com.

Comparison LED vs. conventional lamps

LED 6,5 W ≈

1 x 13 W TC-D (19 W Psys)

LED 16 W ≈

2 x 18 W TC-D (52 W Psys)

LED 23 W ≈

2 x 26 W TC-D (68 W Psys)



D 130




D 172



D 225

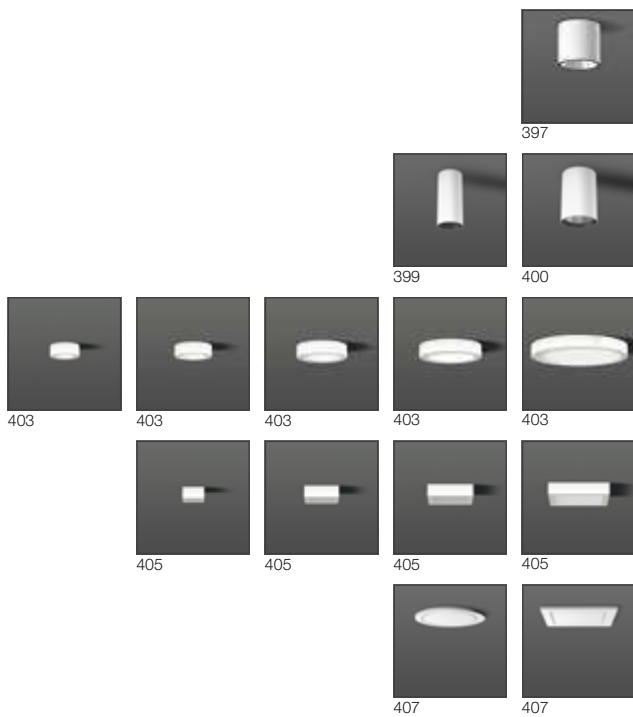


Multicolour function: colour temperature variable via rear switching element.



*Il faut soigner le corps
pour que l'âme s'y plaise...*

The application image shows:
Toledo Flat



Andho
396-397

Heledon
398-401

Toledo Flat Round
402-403

Toledo Flat Square
402, 405

Hemis
406-407

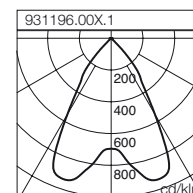


ANDHO®

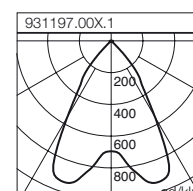
Surface mounted downlights

- High-quality LED die cast aluminium surface-mounted downlight
- Suitable for indoor and outdoor use
- Seawater resistant coating
- Reflector made of super-reflective **MIRO-SILVER®** for outstanding efficiency
- LED rated life 50,000 h (L80/B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Easy installation with a separate ceiling frame and plug connection
- Suitable for through-wiring

931196.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	5	8



931197.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4



Surface mounted downlights | Andho

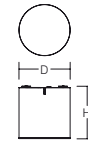
Type of Protection: **IP 65**


Protection Class: I

Impact Protection: IK06

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Cover clear single-pane tempered glass. Rotation-symmetric reflector made of reflex-boosted **MIRO-SILVER®**. With membrane valve as a standard to prevent condensed water. Connected via plug-in connector. 5 pole double terminal for through-wiring.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	UGR	dimmi-able
Surface mounted downlights						Price Category 21		
931196.00X.2	D 154, H 157	LED	827	1800	15	61	17,9	on/off
931196.00X.2.76	D 154, H 157	LED	827	1800	15	61	17,9	DALI
931196.00X	D 154, H 157	LED	830	2000	15	63	18,7	on/off
931196.00X.76	D 154, H 157	LED	830	2000	15	63	18,7	DALI
931196.00X.1	D 154, H 157	LED	840	2100	15	63	18,8	on/off
931196.00X.1.76	D 154, H 157	LED	840	2100	15	63	18,8	DALI
931197.00X.2	D 154, H 157	LED	827	3650	31	61	20,3	on/off
931197.00X.2.76	D 154, H 157	LED	827	3650	31	61	20,3	DALI
931197.00X	D 154, H 157	LED	830	4000	31	63	21,1	on/off
931197.00X.76	D 154, H 157	LED	830	4000	31	63	21,1	DALI
931197.00X.1	D 154, H 157	LED	840	4150	31	63	21,2	on/off
931197.00X.1.76	D 154, H 157	LED	840	4150	31	63	21,2	DALI

Suspension			Price Category 21
982716.002	D 72, H 175, LP 3000	Pendant set, 3 m with 5-pin power cable (IP 68)	
982720.002	D 72, H 175, LP 5000	Pendant set, 5 m with 5-pin power cable (IP 68)	

**Comparison
LED vs. conventional lamps**

LED 15 W ≈
1 x 35 W HIT (45 W Psys)
2 x 26 W TC-D (68 W Psys)

LED 31 W ≈
1 x 70 W HIT (84 W Psys)
4 x 26 W TC-D (136 W Psys)





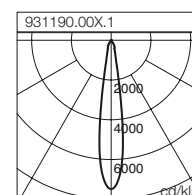
HELEDON®

Surface mounted downlights

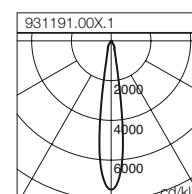
- High quality die-cast aluminium housing in two sizes
- Excellent light quality thanks to flicker-free light, homogeneous light distribution, glare limitation and light colour quality
- Suitable for reflector as well as lens technologies
- MIRO-SILVER® reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone
- Interchangeable lenses with different beam angles
- Black plastic ring and recessed LED to prevent glare from the side

- Additional light colours 927, 930, 935, 940 with Ra 95 and 832 with Ra 85 as well as for Maxi special food LEDs: champagne with Ra 97, meat and meat fresh available on request
- LED rated life 50,000 h (L90/B10)
- Colour consistency within 2-steps MacAdam (2 SDCM)
- High quality converter without flickering and stroboscopic effect
- Easy installation with a separate ceiling frame with bayonet mounting and plug connection
- The following accessories can be mounted without use of tools: interchangeable lenses, decorative glasses, honeycomb louvre, clear and frosted diffusers, white interchangeable plastic ring

931190.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



931191.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



Further luminaires of this series, see:
Indoor lighting | Recessed downlights

Surface mounted downlights | Heledon Mini

Type of Protection: IP 20

Protection Class: I

Impact Protection: IK06

Housing: die-cast aluminium, powder-coated. Internal ceiling frame polycarbonate with bayonet mounting. Connected via plug-in connector. Heat resistant plastic ring black. With faceted aluminium reflector set assembly or polycarbonate lens. Integral driver.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	α [°]	UGR	dimmable	Price Category 21
Surface mounted downlights									
Including lens for best uniformity of the light cone									
931189.00X	D 87, H 197	LED	830	2000	19	70	25,0	on/off	
931189.00X.76	D 87, H 197	LED	830	2000	19	70	25,0	DALI	
931189.00X.1	D 87, H 197	LED	840	2100	19	70	25,2	on/off	
931189.00X.1.76	D 87, H 197	LED	840	2100	19	70	25,2	DALI	
931191.00X	D 87, H 197	LED	830	2900	29	70	26,3	on/off	
931191.00X.76	D 87, H 197	LED	830	2900	29	70	26,3	DALI	
931191.00X.1	D 87, H 197	LED	840	3050	29	70	26,5	on/off	
931191.00X.1.76	D 87, H 197	LED	840	3050	29	70	26,5	DALI	
Including wide beam reflector									
931188.00X	D 87, H 197	LED	830	2350	19	62	20,5	on/off	
931188.00X.76	D 87, H 197	LED	830	2350	19	62	20,5	DALI	
931188.00X.1	D 87, H 197	LED	840	2450	19	62	20,6	on/off	
931188.00X.1.76	D 87, H 197	LED	840	2450	19	62	20,6	DALI	
931190.00X	D 87, H 197	LED	830	3350	29	62	21,7	on/off	
931190.00X.76	D 87, H 197	LED	830	3350	29	62	21,7	DALI	
931190.00X.1	D 87, H 197	LED	840	3500	29	62	21,9	on/off	
931190.00X.1.76	D 87, H 197	LED	840	3500	29	62	21,9	DALI	

Ra > 90 options on request

Comparison LED vs. conventional lamps

LED 19 W ≈

1 x 90 W QT 12 (98 W P_{sys})

1 x 35 W HIT (45 W P_{sys})

LED 29 W ≈

1 x 150 W QT16 (150 W P_{sys})

1 x 50 W HIT (60 W P_{sys})

Diffuser			Price Category 21	
982370.000	D 74, H 3	Safety glass clear		
982370.010	D 74, H 3	Safety glass, satin finish		



Decorative glasses			Price Category 21	
982647.002	D 87, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.		
982648.002	D 87, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.		



Anti-glare honeycomb louvre			Price Category 21	
982371.003	D 74, H 3	Honeycomb louvre Mini		



Interchangeable plastic rings			Price Category 21	
982419.002	D 82, H 20	White plastic ring for reflector		
982421.002	D 82, H 31	White plastic ring for lens		



Interchangeable optics			Price Category 21	
982368.003	D 82, H 55	Reflector, narrow beam 17°		
982368.013	D 82, H 55	Reflector, medium beam 32°		
982368.033	D 82, H 55	Reflector, wide beam 62°		
982369.003	D 82, H 55	Lens, narrow beam 18°		
982369.013	D 82, H 55	Lens, medium beam 29°		
982369.023	D 82, H 55	Lens, wide beam 44°		
982369.033	D 82, H 55	Lens, very wide beam 70°		
982369.043	D 82, H 55	Lens with oval light distribution for corridor 28°/40°		





Comparison LED vs. conventional lamps

LED 24 W ≈

1 x 150 W QT16 (150 W Psys)
1 x 35 W HIT (45 W Psys)

LED 37 W ≈

1 x 50 W HIT (60 W Psys)

Surface mounted downlights | Heledon Maxi

Type of Protection: IP 20

Protection Class: I

Impact Protection: IK06

Housing: die-cast aluminium, powder-coated. Internal ceiling frame polycarbonate with bayonet mounting. Connected via plug-in connector. Heat resistant plastic ring black. With optical assembly MIRO-SILVER® reflector or polycarbonate lens. Integral driver.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	α [°]	UGR	dim-able
Surface mounted downlights								
Including lens for best uniformity of the light cone								
931193.00X	D 123, H 183	LED	830	2350	24	41	12,9	on/off
931193.00X.76	D 123, H 183	LED	830	2350	24	41	12,9	DALI
931193.00X.1	D 123, H 183	LED	840	2500	24	41	13,1	on/off
931193.00X.1.76	D 123, H 183	LED	840	2500	24	41	13,1	DALI
931195.00X	D 123, H 183	LED	830	3300	37	41	14,0	on/off
931195.00X.76	D 123, H 183	LED	830	3300	37	41	14,0	DALI
931195.00X.1	D 123, H 183	LED	840	3500	37	41	14,2	on/off
931195.00X.1.76	D 123, H 183	LED	840	3500	37	41	14,2	DALI
Including reflector for maximum efficiency								
931192.00X	D 123, H 183	LED	830	3000	24	63	19,6	on/off
931192.00X.76	D 123, H 183	LED	830	3000	24	63	19,6	DALI
931192.00X.1	D 123, H 183	LED	840	3150	24	63	19,8	on/off
931192.00X.1.76	D 123, H 183	LED	840	3150	24	63	19,8	DALI
931194.00X	D 123, H 183	LED	830	4150	37	63	20,8	on/off
931194.00X.76	D 123, H 183	LED	830	4150	37	63	20,8	DALI
931194.00X.1	D 123, H 183	LED	840	4400	37	63	21,0	on/off
931194.00X.1.76	D 123, H 183	LED	840	4400	37	63	21,0	DALI

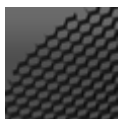
Ra > 90 options on request



Diffuser			Price Category 21					
982374.000	D 111, H 3	Safety glass clear						
982374.010	D 111, H 3	Safety glass, satin finish						



Decorative glasses			Price Category 21					
982649.002	D 123, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.						
982650.002	D 123, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.						



Anti-glare honeycomb louvre			Price Category 21					
982375.003	D 111, H 3	Maxi honeycomb louvre						



Interchangeable plastic rings			Price Category 21					
982420.002	D 118, H 20	White plastic ring for reflector						
982422.002	D 118, H 33	White plastic ring for lens						



Interchangeable optics			Price Category 21					
982372.003	D 118, H 83	Reflector, narrow beam 10°						
982372.013	D 118, H 83	Reflector, medium beam 20°						
982372.023	D 118, H 83	Reflector, wide beam 34°						
982372.033	D 118, H 83	Reflector, very wide beam 63°						
982373.003	D 118, H 83	Lens, narrow beam 12°						
982373.013	D 118, H 83	Lens, medium beam 29°						
982373.023	D 118, H 83	Lens, wide beam 41°						



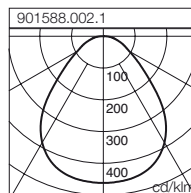


TOLEDO FLAT

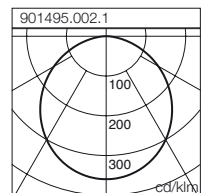
Surface mounted downlights

- Extra flat LED surface-mounted downlight in five sizes round and four sizes square
- **Lightguide** and plastic **diffuser** made of **non-yellowing PMMA**
- Suitable for ceiling and wall mounting
- Very low installation height
- LED rated life 50,000 h (L70/B10)
- Colour rendering index Ra > 80
- Colour consistency within 4-steps MacAdam (4 SDCM)
- Applications: Corridors, side rooms, hotels, restaurants, conference rooms, private rooms

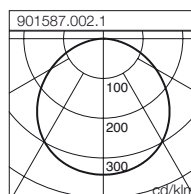
901588.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



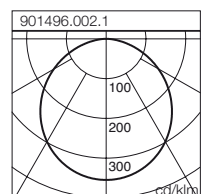
901495.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
13	19	25
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
18	27	45



901587.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	7

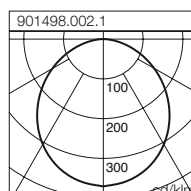


901496.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
8	12	16
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
12	17	29

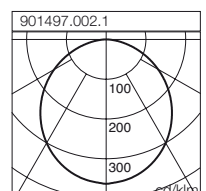


Further luminaires of this series, see:
 Indoor lighting | Recessed modular luminaires
 Indoor lighting | Pendant luminaires
 Indoor lighting | Recessed downlights
 Indoor lighting | Fabric lampshade luminaires
 Emergency lighting | Escape route illumination

901498.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	5	6
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	7	11



901497.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	6	8
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
6	8	13



Surface mounted downlights | Toledo Flat Round

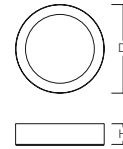
Type of Protection: **IP 40**

Protection Class: II

Impact Protection: IK06

Cylinder housing sheet steel, powder coated. Bezel ring: die-cast aluminium, powder coated. Lightguide and diffuser made of non-yellowing PMMA, opal matt or prismatic.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	α [°]	UGR	dim-able	
Surface mounted downlights									
Diffuser: plastic, opal									
Diameter D 150 mm									
901495.002	D 150, H 57	LED	830	470	5	110	27,0	on/off	✓
901495.002.1	D 150, H 57	LED	840	530	5	110	27,4	on/off	✓
Diameter D 192 mm									
901496.002	D 192, H 58	LED	830	780	7,7	110	26,4	on/off	✓
901496.002.76	D 192, H 58	LED	830	780	7,7	110	26,4	DALI	✓
901496.002.1	D 192, H 58	LED	840	840	7,7	110	26,6	on/off	✓
901496.002.1.76	D 192, H 58	LED	840	840	7,7	110	26,6	DALI	✓
Diameter D 257 mm									
901497.002	D 257, H 63	LED	830	1650	17	110	26,6	on/off	✓
901497.002.76	D 257, H 63	LED	830	1650	17	110	26,6	DALI	✓
901497.002.1	D 257, H 63	LED	840	1800	17	110	26,8	on/off	✓
901497.002.1.76	D 257, H 63	LED	840	1800	17	110	26,8	DALI	✓
Diameter D 319 mm									
901498.002	D 319, H 63	LED	830	2150	22	108	25,5	on/off	✓
901498.002.76	D 319, H 63	LED	830	2150	22	108	25,5	DALI	✓
901498.002.1	D 319, H 63	LED	840	2250	22	108	25,7	on/off	✓
901498.002.1.76	D 319, H 63	LED	840	2250	22	108	25,7	DALI	✓
Diameter D 500 mm									
901587.002	D 500, H 63	LED	830	3550	30	113	23,9	on/off	✓
901587.002.76	D 500, H 63	LED	830	3550	30	113	23,9	DALI	✓
901587.002.1	D 500, H 63	LED	840	3600	30	113	23,9	on/off	✓
901587.002.1.76	D 500, H 63	LED	840	3600	30	113	23,9	DALI	✓
Diffuser: transparent plastic, microprismatic									
Diameter D 500 mm									
901588.002	D 500, H 63	LED	830	3450	30	88	21,1	on/off	✓
901588.002.76	D 500, H 63	LED	830	3450	30	88	21,1	DALI	✓
901588.002.1	D 500, H 63	LED	840	3550	30	88	21,4	on/off	✓
901588.002.1.76	D 500, H 63	LED	840	3550	30	88	21,4	DALI	✓

Price Category 21

Comparison LED vs. conventional lamps

LED 5 W ≈

1 x 10 W TC-D (16 W Psys)

LED 7,7 W ≈

1 x 18 W TC-D (26 W Psys)

LED 17 W ≈

2 x 18 W TC-D (52 W Psys)

LED 22 W ≈

2 x 26 W TC-D (68 W Psys)

LED 30 W ≈

3 x 26 W TC-D (102 W Psys)



D 150



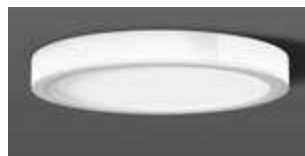
D 192



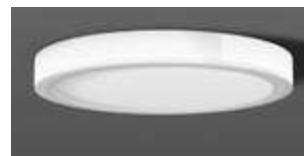
D 257



D 319



D 500



D 500 prismatic

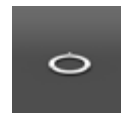
Accessories | Supporting ring for fabric lamp shades

Retrofittable holder for a tool-free mounting of a lamp shade. Ring metal powder coated. M4 Threaded. Knurled nuts plastic.

Mounting ring for fabric lamp shades

Price Category 21

982386.002	D 162, H 10	for surface and pendant Toledo Flat Round D 150 for mounting the lamp shade Toledo Flatliner 200
982387.002	D 204, H 10	for surface and pendant Toledo Flat Round D 192 for mounting the lamp shade Toledo Flatliner 242
982388.002	D 270, H 10	for surface and pendant Toledo Flat Round D 257 for mounting the lamp shade Toledo Flatliner 307
982389.002	D 331, H 10	for surface and pendant Toledo Flat Round D 319 for mounting the lamp shade Toledo Flatliner 369



Further luminaires of this series and a colour chart with more than 70 available colours, see: Indoor Lighting: Fabric lampshade luminaires



The application image shows:
Toledo Flat Square

Surface mounted downlights | Toledo Flat Square

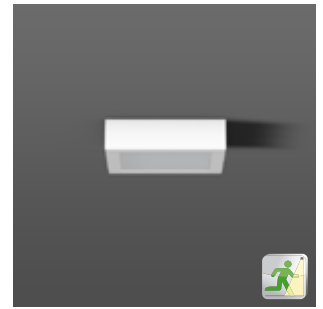
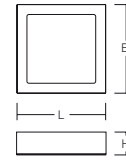
Type of Protection: **IP 40**

Protection Class: II

Impact Protection: IK06

Surface mounted housing: sheet steel, powder coated. Square cover plate: die-cast aluminium, powder coated. Light guide and diffuser made of non-yellowing PMMA, opal matt.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	α [°]	UGR	dim-able	
Surface mounted downlights									
Length L 110 mm x Width B 110 mm									
901551.002	L 110, B 110, H 58	LED	830	420	5	107	28,7	on/off	✓
901551.002.1	L 110, B 110, H 58	LED	840	430	5	107	28,8	on/off	✓
Length L 172 mm x Width B 172 mm									
901552.002	L 172, B 172, H 58	LED	830	770	8	108	25,9	on/off	✓
901552.002.76	L 172, B 172, H 58	LED	830	770	8	108	25,9	DALI	
901552.002.1	L 172, B 172, H 58	LED	840	800	8	108	26,1	on/off	✓
901552.002.1.76	L 172, B 172, H 58	LED	840	800	8	108	26,1	DALI	
Length L 225 mm x Width B 225 mm									
901553.002	L 225, B 225, H 58	LED	830	1650	17	108	26,1	on/off	✓
901553.002.76	L 225, B 225, H 58	LED	830	1650	17	108	26,1	DALI	
901553.002.1	L 225, B 225, H 58	LED	840	1800	17	108	26,4	on/off	✓
901553.002.1.76	L 225, B 225, H 58	LED	840	1800	17	108	26,4	DALI	
Length L 300 mm x Width B 300 mm									
901554.002	L 300, B 300, H 58	LED	830	2150	21	108	24,6	on/off	✓
901554.002.76	L 300, B 300, H 58	LED	830	2150	21	108	24,6	DALI	
901554.002.1	L 300, B 300, H 58	LED	840	2250	21	108	24,7	on/off	✓
901554.002.1.76	L 300, B 300, H 58	LED	840	2250	21	108	24,7	DALI	

Price Category 21

Comparison LED vs. conventional lamps

LED 5 W ≈

1 x 10 W TC-D (16 W Psys)

LED 8 W ≈

1 x 18 W TC-D (26 W Psys)

LED 17 W ≈

2 x 18 W TC-D (52 W Psys)

LED 21 W ≈

2 x 26 W TC-D (68 W Psys)



L x B 110



L x B 172



L x B 225



L x B 300

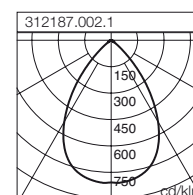


HEMIS®

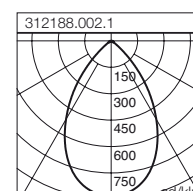
Ceiling luminaires

- Glare-free LED ceiling luminaire with optical lens system
- Compact slim design, total height less than 33 mm
- Easy installation with Plug & Play plug connection
- Big terminal block; ideal for through-wiring
- Sealing strip on the back of the luminaire connects seamlessly with the ceiling
- Thanks to UGR < 22 ideal for corridors, stairways, shops, schools, meeting rooms, rest areas
- Up to 70% energy savings compared to conventional configurations
- Efficiency up to 125 lm/W
- LED rated life 40,000 h (L80/B10)
- Colour rendering index Ra > 80

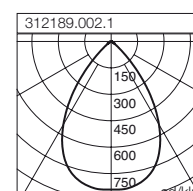
312187.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	5	6
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	7	11



312188.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	6	9



312189.002.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



Ceiling luminaires | Hemis Round

Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK06

Base: metal, powder-coated, with bayonet fixing. Housing: plastic (polycarbonate).

Diffuser with optic lenses. Housing and diffuser are screwed together.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable	Price Category 11
Ceiling luminaires								
Diameter D 250 mm								
312184.002	D 250, H 33	LED	830	1300	12	19,0	on/off	
312184.002.1	D 250, H 33	LED	840	1500	12	19,3	on/off	
Diameter D 300 mm								
312185.002	D 300, H 33	LED	830	1600	15	20,2	on/off	
312185.002.1	D 300, H 33	LED	840	1800	15	20,6	on/off	
Diameter D 400 mm								
312186.002	D 400, H 33	LED	830	2600	25	19,4	on/off	
312186.002.1	D 400, H 33	LED	840	3000	25	20,0	on/off	

Comparison LED vs. conventional lamps

LED 12 W ≈

2 x 18 W TC-D (52 W P_{sys})

LED 15 W ≈

2 x 26 W TC-D (68 W P_{sys})

LED 25 W ≈

2 x 32 W TC-TEL (69 W P_{sys})

Ceiling luminaires | Hemis Square

Type of Protection: **IP 40**

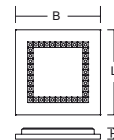
Protection Class: I

Impact Protection: IK06

Base: metal, powder-coated, with bayonet fixing. Housing: plastic (polycarbonate).

Diffuser with optic lenses. Housing and diffuser are screwed together.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable	Price Category 11
Ceiling luminaires								
Length L 250 x Width B 250 mm								
312187.002	L 250, B 250, H 33	LED	830	1400	12	19,2	on/off	
312187.002.1	L 250, B 250, H 33	LED	840	1600	12	19,9	on/off	
Length L 300 x Width B 300 mm								
312188.002	L 300, B 300, H 33	LED	830	1700	15	20,0	on/off	
312188.002.1	L 300, B 300, H 33	LED	840	1900	15	20,1	on/off	
Length L 400 x Width B 400 mm								
312189.002	L 400, B 400, H 33	LED	830	2700	25	19,0	on/off	
312189.002.1	L 400, B 400, H 33	LED	840	3100	25	19,8	on/off	

Comparison LED vs. conventional lamps

LED 12 W ≈

2 x 18 W TC-D (52 W P_{sys})

LED 15 W ≈

2 x 26 W TC-D (68 W P_{sys})

LED 25 W ≈

2 x 32 W TC-TEL (69 W P_{sys})



The application image shows:
Deecos S
Deecos R

© Jens Pfisterer



411

Vortex
410-411



413



414

Levido Swing
412-415



419

Deecos R
416-421



423



423



423

Magcardo
416-417, 422-425



427



428

Rondos
416-417, 426-429



431



432

Golas
416-417, 430-433

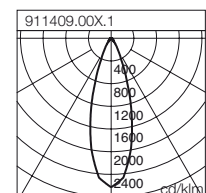


VORTEX

Recessed projectors

- Die-cast aluminium recessed projector with very small dimensions
- 68 mm ceiling cutout for standard hole cutter
- With external through-wiring box for phase cut dimming
- Connection LED converter via plug connection with 300 mm connecting cable with phase cut dimming
- Hybrid optical system with lens and reflector for homogeneous light distribution
- Alternative for low-voltage downlights 35 W and 50 W
- Versions dim to warm: during dimming, the light colour changes dynamically from 3000 K to 1800 K and thus provides a comfortable, cosy lighting atmosphere
- Colour rendering index CRI > 80 with standard LED; colour rendering index CRI 97 with dim to warm
- LED rated life: with standard LED 50,000 h (L70/B50); with dim to warm 25,000 h (L70/B50)
- Flexible directing of light thanks to pivot range $\pm 25^\circ$
- Versions with standard LED dimmable DALI or for phase cut dimming
- DALI converter is compatible with DC, suitable for central battery system

911409.00X.1		
h [m]	Ø [m]	E [lx]
1,0	0,56	1893
2,0	1,12	473
3,0	1,69	210
4,0	2,25	118
5,0	2,81	76



Recessed projectors | Vortex

Type of Protection: IP 20

Protection Class: II

Ceiling thickness S: 1-25 mm

Impact Protection: IK03

Die-cast aluminium cover, powder-coated. Heat sink die-cast aluminium.

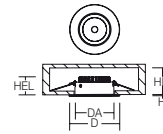
Can be swivelled by $\pm 25^\circ$. Hybrid optical system with polycarbonate lens and reflector in white.


Mounting depth depends on ceiling strength. Ceiling installation with spring system.

With phase cut dimming: Converter with external through-wiring box via plug connection and connecting cable 300 mm.

With DALI: connected converter included in separate gearbox.

Available colours (X): 2 = white, 4 = silver coloured



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	dim-able
Recessed projectors							
Ceiling cut out DA 68 mm, minimum mechanical height installed HEL 28 mm							
911409.00X.Q	D 80, H 2, HE 69-93	LED	828	900	11	31	Phase-cut
911409.00X.76	D 80, H 2, HE 69-93	LED	828	900	11	31	DALI
911409.00X.1.Q	D 80, H 2, HE 69-93	LED	840	900	11	31	Phase-cut
911409.00X.1.76	D 80, H 2, HE 69-93	LED	840	900	11	31	DALI
Dim to warm - 3000 K to 1800 K							
911409.00X.2	D 80, H 2, HE 69-93	LED	930-918	500	7,5	31	Phase-cut

Price Category 21

Comparison LED vs. conventional lamps

LED 7,5 W \approx

1 x 35 W QR-CB (39 W Psys)

LED 11 W \approx

1 x 50 W QR51 (55 W Psys)



The application image shows:
Vortex



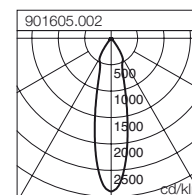
LEVIDO® SWING

Recessed projectors

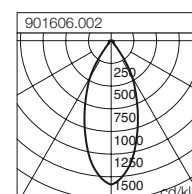
- Daintily small dimensions
- Alternative for low-voltage spotlights 35 W and 50 W
- LED rated life 50,000 h (L70/B10)
- Colour rendering index Ra > 80
- Colour consistency within 4-steps MacAdam (4 SDCM)
- Two different beam angles
- Flexible directing of light thanks to pivot range $\pm 25^\circ$
- Safety glass cover to protect the LED

- Opal diffuser made of PMMA (included for optional use, mounting without tools):
 - for homogeneous light distribution
 - for reduction of direct glare
- Versions in DALI dimmable and for phase dimming

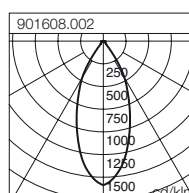
901605.002			
h [m]	Ø [m]	E [lx]	
1,0	0,42	1426	
2,0	0,84	357	
3,0	1,26	158	
4,0	1,69	89	
5,0	2,11	57	



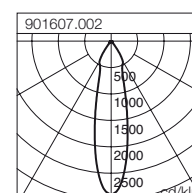
901606.002			
h [m]	Ø [m]	E [lx]	
1,0	0,77	736	
2,0	1,54	184	
3,0	2,32	82	
4,0	3,09	46	
5,0	3,86	29	



901608.002			
h [m]	Ø [m]	E [lx]	
1,0	0,78	1111	
2,0	1,56	278	
3,0	2,34	123	
4,0	3,12	69	
5,0	3,90	44	



901607.002			
h [m]	Ø [m]	E [lx]	
1,0	0,42	2098	
2,0	0,84	525	
3,0	1,26	233	
4,0	1,69	131	
5,0	2,11	84	



Further luminaires of this series, see:
Indoor lighting | Recessed downlights

Recessed projectors | Levido Swing Round

Type of Protection: **IP 40**

Protection Class: II

Ceiling thickness S: 1-20 mm

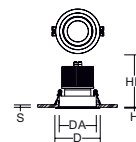
Impact Protection: IK06

Die-cast aluminium cover, powder-coated. Extruded aluminium heat sink.

Can be swivelled by $\pm 25^\circ$. Reflector: aluminium, highly polished anodised finish.

With safety glass. Ceiling installation with spring system. Incl. separate LED converter with connecting cable 250 mm. Opal PMMA plastic cover included as accessory.

Available colours: 2 = white, 3 = black



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	dimmable
Recessed projectors							
Ceiling cut out DA 78 mm							
Colour white							
901605.002.2	D 91, H 2, HE 90	LED	827	620	8	24	on/off
901606.002.2	D 91, H 2, HE 90	LED	827	600	8	42	on/off
901605.002	D 91, H 2, HE 90	LED	830	620	8	24	on/off
901606.002	D 91, H 2, HE 90	LED	830	600	8	42	on/off
901605.002.1	D 91, H 2, HE 90	LED	840	630	8	24	on/off
901606.002.1	D 91, H 2, HE 90	LED	840	610	8	42	on/off
901607.002.2	D 91, H 2, HE 90	LED	827	940	13	24	on/off
901607.002.2.76 *	D 91, H 2, HE 90	LED	827	940	13	24	DALI
901609.002.2	D 91, H 2, HE 90	LED	827	1050	16	24	Phase-cut
901608.002.2	D 91, H 2, HE 90	LED	827	920	13	42	on/off
901608.002.2.76 *	D 91, H 2, HE 90	LED	827	920	13	42	DALI
901610.002.2	D 91, H 2, HE 90	LED	827	1050	16	42	Phase-cut
901607.002	D 91, H 2, HE 90	LED	830	940	13	24	on/off
901607.002.76 *	D 91, H 2, HE 90	LED	830	940	13	24	DALI
901609.002	D 91, H 2, HE 90	LED	830	1050	16	24	Phase-cut
901608.002	D 91, H 2, HE 90	LED	830	920	13	42	on/off
901608.002.76 *	D 91, H 2, HE 90	LED	830	920	13	42	DALI
901610.002	D 91, H 2, HE 90	LED	830	1050	16	42	Phase-cut
901607.002.1	D 91, H 2, HE 90	LED	840	980	13	24	on/off
901607.002.1.76 *	D 91, H 2, HE 90	LED	840	980	13	24	DALI
901609.002.1	D 91, H 2, HE 90	LED	840	1100	16	24	Phase-cut
901608.002.1	D 91, H 2, HE 90	LED	840	960	13	42	on/off
901608.002.1.76 *	D 91, H 2, HE 90	LED	840	960	13	42	DALI
901610.002.1	D 91, H 2, HE 90	LED	840	1100	16	42	Phase-cut
Colour black							
901605.003.2	D 91, H 2, HE 90	LED	827	560	8	24	on/off
901606.003.2	D 91, H 2, HE 90	LED	827	540	8	42	on/off
901605.003	D 91, H 2, HE 90	LED	830	560	8	24	on/off
901606.003	D 91, H 2, HE 90	LED	830	540	8	42	on/off
901605.003.1	D 91, H 2, HE 90	LED	840	570	8	24	on/off
901606.003.1	D 91, H 2, HE 90	LED	840	550	8	42	on/off
901607.003.2	D 91, H 2, HE 90	LED	827	840	13	24	on/off
901607.003.2.76 *	D 91, H 2, HE 90	LED	827	840	13	24	DALI
901609.003.2	D 91, H 2, HE 90	LED	827	930	16	24	Phase-cut
901608.003.2	D 91, H 2, HE 90	LED	827	820	13	42	on/off
901608.003.2.76 *	D 91, H 2, HE 90	LED	827	820	13	42	DALI
901610.003.2	D 91, H 2, HE 90	LED	827	910	16	42	Phase-cut
901607.003	D 91, H 2, HE 90	LED	830	840	13	24	on/off
901607.003.76 *	D 91, H 2, HE 90	LED	830	840	13	24	DALI
901609.003	D 91, H 2, HE 90	LED	830	930	16	24	Phase-cut
901608.003	D 91, H 2, HE 90	LED	830	820	13	42	on/off
901608.003.76 *	D 91, H 2, HE 90	LED	830	820	13	42	DALI
901610.003	D 91, H 2, HE 90	LED	830	910	16	42	Phase-cut
901607.003.1	D 91, H 2, HE 90	LED	840	880	13	24	on/off
901607.003.1.76 *	D 91, H 2, HE 90	LED	840	880	13	24	DALI
901609.003.1	D 91, H 2, HE 90	LED	840	970	16	24	Phase-cut
901608.003.1	D 91, H 2, HE 90	LED	840	860	13	42	on/off
901608.003.1.76 *	D 91, H 2, HE 90	LED	840	860	13	42	DALI
901610.003.1	D 91, H 2, HE 90	LED	840	950	16	42	Phase-cut

* DALI converter is compatible with DC for central battery system

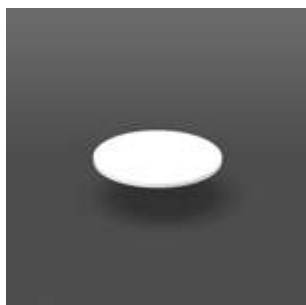
Comparison LED vs. conventional lamps

LED 8 W \approx

1 x 35 W QR-CB (39 W Psys)

LED 13 / 16 W \approx

1 x 50 W QR51 (55 W Psys)



Opal PMMA plastic cover
included as accessory.



Comparison LED vs. conventional lamps

LED 8 W ≈

1 x 35 W QR-CB (39 W Psys)

LED 13 / 16 W ≈

1 x 50 W QR51 (55 W Psys)



Recessed projectors | Levido Swing Square

Type of Protection: **IP 40**

Protection Class: II

Ceiling thickness S: 1-20 mm

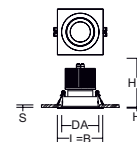
Impact Protection: IK06


Die-cast aluminium cover, powder-coated. Extruded aluminium heat sink.

Can be swivelled by ± 25°. Reflector: aluminium, highly polished anodised finish.

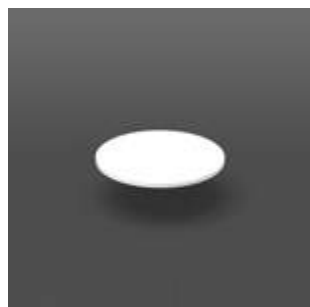
With safety glass. Ceiling installation with spring system. Incl. separate LED converter with connecting cable 250 mm. Opal PMMA plastic cover included as accessory.

Available colours: 2 = white, 3 = black



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 dimmable	Price Category 21
Recessed projectors							
Ceiling cut out DA 82 mm							
Colour white							
901611.002.2	L 98, B 98, H 2, HE 90	LED	827	620	8	24	on/off
901612.002.2	L 98, B 98, H 2, HE 90	LED	827	600	8	42	on/off
901611.002	L 98, B 98, H 2, HE 90	LED	830	620	8	24	on/off
901612.002	L 98, B 98, H 2, HE 90	LED	830	600	8	42	on/off
901611.002.1	L 98, B 98, H 2, HE 90	LED	840	630	8	24	on/off
901612.002.1	L 98, B 98, H 2, HE 90	LED	840	610	8	42	on/off
901613.002.2	L 98, B 98, H 2, HE 90	LED	827	940	13	24	on/off
901613.002.2.76 *	L 98, B 98, H 2, HE 90	LED	827	940	13	24	DALI
901615.002.2	L 98, B 98, H 2, HE 90	LED	827	1050	16	24	Phase-cut
901614.002.2	L 98, B 98, H 2, HE 90	LED	827	920	13	42	on/off
901614.002.2.76 *	L 98, B 98, H 2, HE 90	LED	827	920	13	42	DALI
901616.002.2	L 98, B 98, H 2, HE 90	LED	827	1050	16	42	Phase-cut
901613.002	L 98, B 98, H 2, HE 90	LED	830	940	13	24	on/off
901613.002.76 *	L 98, B 98, H 2, HE 90	LED	830	940	13	24	DALI
901615.002	L 98, B 98, H 2, HE 90	LED	830	1050	16	24	Phase-cut
901614.002	L 98, B 98, H 2, HE 90	LED	830	920	13	42	on/off
901614.002.76 *	L 98, B 98, H 2, HE 90	LED	830	920	13	42	DALI
901616.002	L 98, B 98, H 2, HE 90	LED	830	1050	16	42	Phase-cut
901613.002.1	L 98, B 98, H 2, HE 90	LED	840	980	13	24	on/off
901613.002.1.76 *	L 98, B 98, H 2, HE 90	LED	840	980	13	24	DALI
901615.002.1	L 98, B 98, H 2, HE 90	LED	840	1100	16	24	Phase-cut
901614.002.1	L 98, B 98, H 2, HE 90	LED	840	960	13	42	on/off
901614.002.1.76 *	L 98, B 98, H 2, HE 90	LED	840	960	13	42	DALI
901616.002.1	L 98, B 98, H 2, HE 90	LED	840	1100	16	42	Phase-cut
Colour black							
901611.003.2	L 98, B 98, H 2, HE 90	LED	827	560	8	24	on/off
901612.003.2	L 98, B 98, H 2, HE 90	LED	827	540	8	42	on/off
901611.003	L 98, B 98, H 2, HE 90	LED	830	560	8	24	on/off
901612.003	L 98, B 98, H 2, HE 90	LED	830	540	8	42	on/off
901611.003.1	L 98, B 98, H 2, HE 90	LED	840	570	8	24	on/off
901612.003.1	L 98, B 98, H 2, HE 90	LED	840	550	8	42	on/off
901613.003.2	L 98, B 98, H 2, HE 90	LED	827	840	13	24	on/off
901613.003.2.76 *	L 98, B 98, H 2, HE 90	LED	827	840	13	24	DALI
901615.003.2	L 98, B 98, H 2, HE 90	LED	827	930	16	24	Phase-cut
901614.003.2	L 98, B 98, H 2, HE 90	LED	827	820	13	42	on/off
901614.003.2.76 *	L 98, B 98, H 2, HE 90	LED	827	820	13	42	DALI
901616.003.2	L 98, B 98, H 2, HE 90	LED	827	910	16	42	Phase-cut
901613.003	L 98, B 98, H 2, HE 90	LED	830	840	13	24	on/off
901613.003.76 *	L 98, B 98, H 2, HE 90	LED	830	840	13	24	DALI
901615.003	L 98, B 98, H 2, HE 90	LED	830	930	16	24	Phase-cut
901614.003	L 98, B 98, H 2, HE 90	LED	830	820	13	42	on/off
901614.003.76 *	L 98, B 98, H 2, HE 90	LED	830	820	13	42	DALI
901616.003	L 98, B 98, H 2, HE 90	LED	830	910	16	42	Phase-cut
901613.003.1	L 98, B 98, H 2, HE 90	LED	840	880	13	24	on/off
901613.003.1.76 *	L 98, B 98, H 2, HE 90	LED	840	880	13	24	DALI
901615.003.1	L 98, B 98, H 2, HE 90	LED	840	970	16	24	Phase-cut
901614.003.1	L 98, B 98, H 2, HE 90	LED	840	860	13	42	on/off
901614.003.1.76 *	L 98, B 98, H 2, HE 90	LED	840	860	13	42	DALI
901616.003.1	L 98, B 98, H 2, HE 90	LED	840	950	16	42	Phase-cut

* DALI converter is compatible with DC for central battery system



Opal PMMA plastic cover
included as accessory.

As no coffee like
basecoffee®



Exchangeable-Optical-System

Everything at a glance

Depending on the requirements, the Exchangeable-Optical-System allows you to choose between the reflector/lens or change/replace it without tools later on.

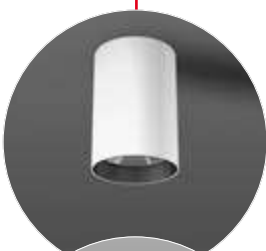
MIRO-SILVER® reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone. In addition, opal decorative glasses are available as accessories for a diffuse spatial appearance.

- 18 different housings
- 5 different types of luminaires (pendant spotlight, recessed downlight, surface-mounted downlight, recessed spotlight, surface-mounted spotlights)
- 2 sizes (mini and maxi)
- 2 optical systems (reflector and lens)
- 10 different light colors (830, 832, 840, 927, 930, 935, 940, Meat Fresh, Meat Plus, Champagne)
- 4 different beam angles with reflector
- 5 different beam angles with lens
- Additional Superspot versions
- Replaceable without tools

DEECOS



HELEDON



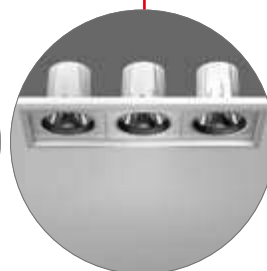
RONDOS



GOLAS



MAGCARDIO



Tool-free installation:
Diffuser: mouth-blown opal
glass, satin finish
with bayonet lock



2 sizes



Mini



Maxi

Tool-free installation:
honeycomb louvre or glass







DEECOS® R

Recessed projectors

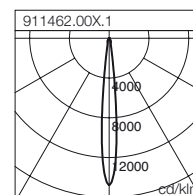
- High quality die-cast aluminum housing
- Excellent light quality thanks to flicker-free light, homogeneous light distribution, glare limitation and light colour quality
- Modern design: cylindrical shape with no visible cooling fins
- Can be extended and retracted so that it is flush with the ceiling, turns by 356° and swivels by 90° for maximum flexibility in adjustment
- Inner cover prevents view into the false ceiling
- Suitable for reflector as well as lens technologies



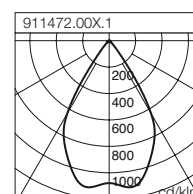
Further luminaires of this series, see:
Indoor lighting | Pendant luminaires
Indoor lighting | Surface mounted projectors

- **MIRO-SILVER®** reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone, each with three different beam angles narrow, medium, wide
- Additional Superspot versions
- Black plastic ring and recessed LED to prevent glare from the side
- Further light colours 927, 930, 935, 940 with Ra 95 and 832 with Ra 85 available on request
- LED rated life 50,000 h (L90/B10)
- Colour consistency within 2-steps MacAdam (2 SDCM)
- High quality converter without flickering and stroboscopic effect
- Separate converter box with connecting cable
- The following accessories can be mounted without use of tools: interchangeable lenses, decorative glasses, honeycomb louvre, clear and frosted diffusers, white interchangeable plastic ring

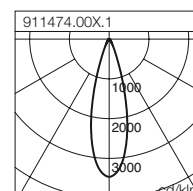
911462.00X.1			
h [m]	Ø [m]	E [lx]	
1,0	0,20	22880	
2,0	0,41	5720	
3,0	0,61	2542	
4,0	0,81	1430	
5,0	1,02	915	



911472.00X.1			
h [m]	Ø [m]	E [lx]	
1,0	0,88	3454	
2,0	1,76	863	
3,0	2,63	384	
4,0	3,51	216	
5,0	4,39	138	



911474.00X.1			
h [m]	Ø [m]	E [lx]	
1,0	0,55	6437	
2,0	1,11	1609	
3,0	1,66	715	
4,0	2,22	402	
5,0	2,77	257	



Recessed projectors | Deecos R Mini

Type of Protection: IP 20

Protection Class: II

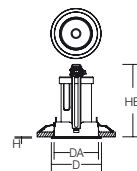
Ceiling thickness S: 1-20 mm

Impact Protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°. Can be swivelled flush with the ceiling. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system. With optical assembly MIRO-SILVER® reflector or polycarbonate lens.

Incl. separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	dim-able
Recessed projectors							
Ceiling cut out DA 133 mm							
Including lens for best uniformity of the light cone							
911467.00X	D 143, H 3, HE 210	LED	830	1950	19	18	on/off
911467.00X.76	D 143, H 3, HE 210	LED	830	1950	19	18	DALI
911468.00X	D 143, H 3, HE 210	LED	830	1850	19	29	on/off
911468.00X.76	D 143, H 3, HE 210	LED	830	1850	19	29	DALI
911469.00X	D 143, H 3, HE 210	LED	830	1700	19	44	on/off
911469.00X.76	D 143, H 3, HE 210	LED	830	1700	19	44	DALI
911467.00X.1	D 143, H 3, HE 210	LED	840	2050	19	18	on/off
911467.00X.1.76	D 143, H 3, HE 210	LED	840	2050	19	18	DALI
911468.00X.1	D 143, H 3, HE 210	LED	840	1950	19	29	on/off
911468.00X.1.76	D 143, H 3, HE 210	LED	840	1950	19	29	DALI
911469.00X.1	D 143, H 3, HE 210	LED	840	1800	19	44	on/off
911469.00X.1.76	D 143, H 3, HE 210	LED	840	1800	19	44	DALI
911473.00X	D 143, H 3, HE 210	LED	830	2800	29	18	on/off
911473.00X.76	D 143, H 3, HE 210	LED	830	2800	29	18	DALI
911474.00X	D 143, H 3, HE 210	LED	830	2650	29	29	on/off
911474.00X.76	D 143, H 3, HE 210	LED	830	2650	29	29	DALI
911475.00X	D 143, H 3, HE 210	LED	830	2450	29	44	on/off
911475.00X.76	D 143, H 3, HE 210	LED	830	2450	29	44	DALI
911473.00X.1	D 143, H 3, HE 210	LED	840	2950	29	18	on/off
911473.00X.1.76	D 143, H 3, HE 210	LED	840	2950	29	18	DALI
911474.00X.1	D 143, H 3, HE 210	LED	840	2800	29	29	on/off
911474.00X.1.76	D 143, H 3, HE 210	LED	840	2800	29	29	DALI
911475.00X.1	D 143, H 3, HE 210	LED	840	2550	29	44	on/off
911475.00X.1.76	D 143, H 3, HE 210	LED	840	2550	29	44	DALI
Including reflector for maximum efficiency							
911463.00X	D 143, H 3, HE 210	LED	830	2300	19	17	on/off
911463.00X.76	D 143, H 3, HE 210	LED	830	2300	19	17	DALI
911464.00X	D 143, H 3, HE 210	LED	830	2150	19	32	on/off
911464.00X.76	D 143, H 3, HE 210	LED	830	2150	19	32	DALI
911465.00X	D 143, H 3, HE 210	LED	830	2350	19	62	on/off
911465.00X.76	D 143, H 3, HE 210	LED	830	2350	19	62	DALI
911463.00X.1	D 143, H 3, HE 210	LED	840	2450	19	17	on/off
911463.00X.1.76	D 143, H 3, HE 210	LED	840	2450	19	17	DALI
911464.00X.1	D 143, H 3, HE 210	LED	840	2250	19	32	on/off
911464.00X.1.76	D 143, H 3, HE 210	LED	840	2250	19	32	DALI
911465.00X.1	D 143, H 3, HE 210	LED	840	2450	19	62	on/off
911465.00X.1.76	D 143, H 3, HE 210	LED	840	2450	19	62	DALI
911470.00X	D 143, H 3, HE 210	LED	830	3350	29	17	on/off
911470.00X.76	D 143, H 3, HE 210	LED	830	3350	29	17	DALI
911471.00X	D 143, H 3, HE 210	LED	830	3050	29	32	on/off
911471.00X.76	D 143, H 3, HE 210	LED	830	3050	29	32	DALI
911472.00X	D 143, H 3, HE 210	LED	830	3350	29	62	on/off
911472.00X.76	D 143, H 3, HE 210	LED	830	3350	29	62	DALI
911470.00X.1	D 143, H 3, HE 210	LED	840	3500	29	17	on/off
911470.00X.1.76	D 143, H 3, HE 210	LED	840	3500	29	17	DALI
911471.00X.1	D 143, H 3, HE 210	LED	840	3200	29	32	on/off
911471.00X.1.76	D 143, H 3, HE 210	LED	840	3200	29	32	DALI
911472.00X.1	D 143, H 3, HE 210	LED	840	3500	29	62	on/off
911472.00X.1.76	D 143, H 3, HE 210	LED	840	3500	29	62	DALI
Superspot version with small spot LED							
Including lens for best uniformity of the light cone							
911466.00X	D 143, H 3, HE 210	LED	830	1850	20	14	on/off
911466.00X.76	D 143, H 3, HE 210	LED	830	1850	20	14	DALI
911466.00X.1	D 143, H 3, HE 210	LED	840	1900	20	14	on/off
911466.00X.1.76	D 143, H 3, HE 210	LED	840	1900	20	14	DALI
Including reflector for maximum efficiency							
911462.00X	D 143, H 3, HE 210	LED	830	2100	20	11	on/off
911462.00X.76	D 143, H 3, HE 210	LED	830	2100	20	11	DALI
911462.00X.1	D 143, H 3, HE 210	LED	840	2200	20	11	on/off
911462.00X.1.76	D 143, H 3, HE 210	LED	840	2200	20	11	DALI

Versions with Ra > 90 colour rendition are also available in other light colours on request

Comparison
LED vs. conventional lamps

LED 19 / 20 W ≈
1 x 35 W HIT (45 W Psys)

LED 29 W ≈
1 x 50 W HIT (60 W Psys)





The application image shows:
Deecos R
Deecos S

© Jens Pfisterer

Accessories | Deecos R Mini



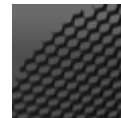
Diffuser			Price Category 21
982370.000	D 74, H 3	Safety glass clear	
982370.010	D 74, H 3	Safety glass, satin finish	



Decorative glasses			Price Category 21
982647.002	D 87, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.	
982648.002	D 87, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock.	



Anti-glare honeycomb louvre			Price Category 21
982371.003	D 74, H 3	Honeycomb louvre Mini	

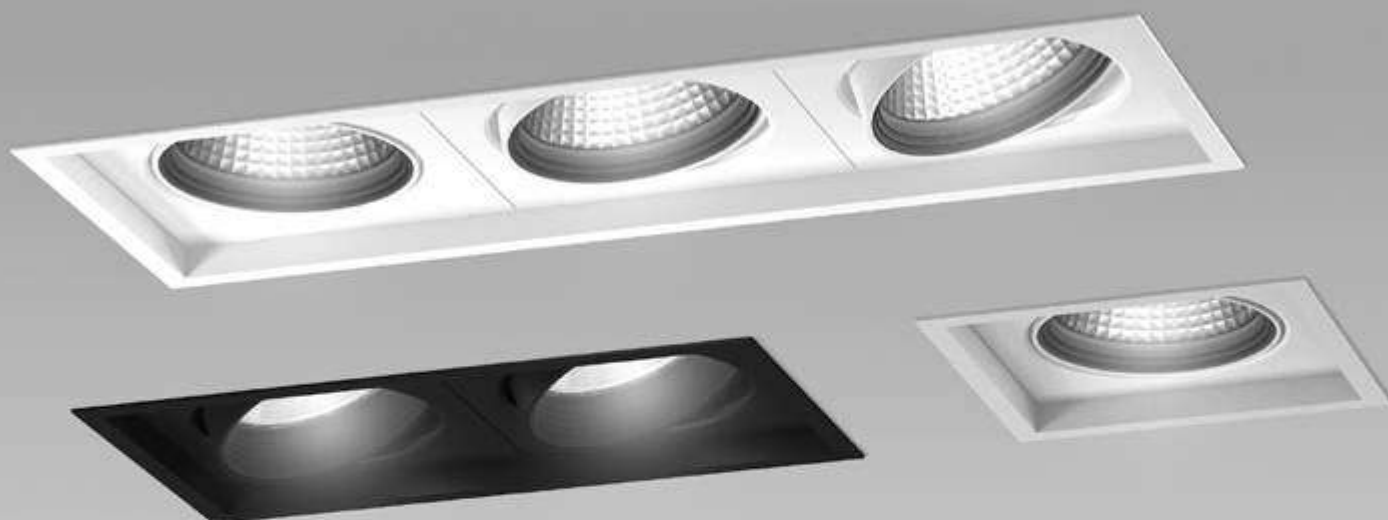


Interchangeable plastic rings			Price Category 21
982419.002	D 82, H 20	White plastic ring for reflector	
982421.002	D 82, H 31	White plastic ring for lens	



Interchangeable optics			Price Category 21
982368.003	D 82, H 55	Reflector, narrow beam 17°	
982368.013	D 82, H 55	Reflector, medium beam 32°	
982368.033	D 82, H 55	Reflector, wide beam 62°	
982369.003	D 82, H 55	Lens, narrow beam 18°	
982369.013	D 82, H 55	Lens, medium beam 29°	
982369.023	D 82, H 55	Lens, wide beam 44°	
982369.033	D 82, H 55	Lens, very wide beam 70°	
982369.043	D 82, H 55	Lens with oval light distribution for corridor 28°/40°	



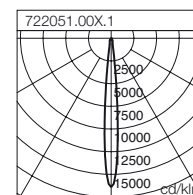


MAGCARDO®

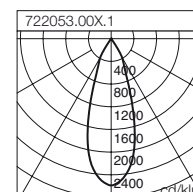
Recessed projectors

- Magnetic click locking mechanism for quick and convenient installation without tools: insert the recessed frame (1, 2 or 3-lamp) with clamp fastener (no tools required), push the luminaire head with the base plate into the recessed frame and fix magnetically
- Flexible adjustment, can be turned by 356° and swivelled by ± 35°
- Inner cover prevents view into the false ceiling
- Excellent light quality thanks to flicker-free light, homogeneous light distribution, glare limitation and light colour quality
- Suitable for reflector as well as lens technologies
- **MIRO-SILVER®** reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone, each with three different beam angles narrow, medium, wide
- Black plastic ring and recessed LED to prevent glare from the side
- Additional light colours 927, 930, 935, 940 with Ra 95 and 832 with Ra 85 as well as for Maxi special food LEDs: champagne with Ra 97, meat and meat fresh available on request
- LED rated life 50,000 h (L90/B10)
- Colour consistency within 2-steps MacAdam (2 SDCM)
- High quality converter without flickering and stroboscopic effect
- Separate converter box with connecting cable
- The following accessories can be mounted without use of tools: interchangeable lenses, honeycomb louvre, clear and frosted diffusers, white interchangeable plastic ring

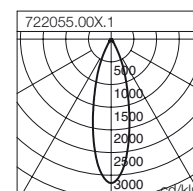
722051.00X.1			
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1,0	0,20	42007	
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3,0	0,61	4667	
4,0	0,81	2625	
5,0	1,02	1680	



722053.00X.1			
h [m]	Ø [m]	E [lx]	
1,0	0,63	8084	
2,0	1,26	2021	
3,0	1,89	898	
4,0	2,52	505	
5,0	3,15	323	



722055.00X.1			
h [m]	Ø [m]	E [lx]	
1,0	0,57	7554	
2,0	1,14	1888	
3,0	1,71	839	
4,0	2,28	472	
5,0	2,85	302	



Recessed projectors | Magcardo Maxi

Type of Protection: IP 20

Protection Class: II

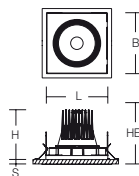
Ceiling thickness S: 6-30 mm

Impact Protection: IK03

Luminaire top: die-cast aluminium, powder-coated. Recessed mounting frame: sheet steel, powder-coated. Rotation range 356° and swivel range ± 35°. Heat resistant plastic ring black. With optical assembly MIRO-SILVER® reflector or polycarbonate lens. Incl. separate LED converter with connecting cable 600 mm.

Modular design: recessed frame must be ordered separately!

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	Beam angle [°]	dim-able
Luminaire head, HE 155 mm							
Including lens for best uniformity of the light cone							
722048.00X	L 172, B 167, H 137	LED	830	2350	24	12	on/off
722048.00X.76	L 172, B 167, H 137	LED	830	2350	24	12	DALI
722049.00X	L 172, B 167, H 137	LED	830	2350	24	29	on/off
722049.00X.76	L 172, B 167, H 137	LED	830	2350	24	29	DALI
722050.00X	L 172, B 167, H 137	LED	830	2350	24	41	on/off
722050.00X.76	L 172, B 167, H 137	LED	830	2350	24	41	DALI
722048.00X.1	L 172, B 167, H 137	LED	840	2500	24	12	on/off
722048.00X.1.76	L 172, B 167, H 137	LED	840	2500	24	12	DALI
722049.00X.1	L 172, B 167, H 137	LED	840	2450	24	29	on/off
722049.00X.1.76	L 172, B 167, H 137	LED	840	2450	24	29	DALI
722050.00X.1	L 172, B 167, H 137	LED	840	2500	24	41	on/off
722050.00X.1.76	L 172, B 167, H 137	LED	840	2500	24	41	DALI
722054.00X	L 172, B 167, H 137	LED	830	3300	37	12	on/off
722054.00X.76	L 172, B 167, H 137	LED	830	3300	37	12	DALI
722055.00X	L 172, B 167, H 137	LED	830	3250	37	29	on/off
722055.00X.76	L 172, B 167, H 137	LED	830	3250	37	29	DALI
722056.00X	L 172, B 167, H 137	LED	830	3300	37	41	on/off
722056.00X.76	L 172, B 167, H 137	LED	830	3300	37	41	DALI
722054.00X.1	L 172, B 167, H 137	LED	840	3500	37	12	on/off
722054.00X.1.76	L 172, B 167, H 137	LED	840	3500	37	12	DALI
722055.00X.1	L 172, B 167, H 137	LED	840	3500	37	29	on/off
722055.00X.1.76	L 172, B 167, H 137	LED	840	3500	37	29	DALI
722056.00X.1	L 172, B 167, H 137	LED	840	3500	37	41	on/off
722056.00X.1.76	L 172, B 167, H 137	LED	840	3500	37	41	DALI
Including reflector for maximum efficiency							
722045.00X	L 172, B 167, H 137	LED	830	2850	24	10	on/off
722045.00X.76	L 172, B 167, H 137	LED	830	2850	24	10	DALI
722046.00X	L 172, B 167, H 137	LED	830	3000	24	20	on/off
722046.00X.76	L 172, B 167, H 137	LED	830	3000	24	20	DALI
722047.00X	L 172, B 167, H 137	LED	830	2900	24	34	on/off
722047.00X.76	L 172, B 167, H 137	LED	830	2900	24	34	DALI
722045.00X.1	L 172, B 167, H 137	LED	840	3000	24	10	on/off
722045.00X.1.76	L 172, B 167, H 137	LED	840	3000	24	10	DALI
722046.00X.1	L 172, B 167, H 137	LED	840	3150	24	20	on/off
722046.00X.1.76	L 172, B 167, H 137	LED	840	3150	24	20	DALI
722047.00X.1	L 172, B 167, H 137	LED	840	3050	24	34	on/off
722047.00X.1.76	L 172, B 167, H 137	LED	840	3050	24	34	DALI
722051.00X	L 172, B 167, H 137	LED	830	4000	37	10	on/off
722051.00X.76	L 172, B 167, H 137	LED	830	4000	37	10	DALI
722052.00X	L 172, B 167, H 137	LED	830	4200	37	20	on/off
722052.00X.76	L 172, B 167, H 137	LED	830	4200	37	20	DALI
722053.00X	L 172, B 167, H 137	LED	830	4050	37	34	on/off
722053.00X.76	L 172, B 167, H 137	LED	830	4050	37	34	DALI
722051.00X.1	L 172, B 167, H 137	LED	840	4200	37	10	on/off
722051.00X.1.76	L 172, B 167, H 137	LED	840	4200	37	10	DALI
722052.00X.1	L 172, B 167, H 137	LED	840	4400	37	20	on/off
722052.00X.1.76	L 172, B 167, H 137	LED	840	4400	37	20	DALI
722053.00X.1	L 172, B 167, H 137	LED	840	4250	37	34	on/off
722053.00X.1.76	L 172, B 167, H 137	LED	840	4250	37	34	DALI

Versions with Ra > 90 colour rendition are also available in other light colours on request

Recessed mounting frame

Price Category 21

one lamp

982431.00X L 194, B 194, H 2, HE 75 Ceiling cut out LA 180 x BA 180 mm

two lamps

982432.00X L 362, B 194, H 2, HE 75 Ceiling cut out LA 348 x BA 180 mm

three lamps

982433.00X L 530, B 194, H 2, HE 75 Ceiling cut out LA 516 x BA 180 mm



Comparison LED vs. conventional lamps

LED 24 W ≈

1 x 35 W HIT (45 W Psys)

LED 37 W ≈

1 x 50 W HIT (60 W Psys)





The application image shows:
Magcardo
Pascala

Accessories | Magcardo Maxi



Diffuser

Price Category 21

982374.000	D 111, H 3	Safety glass clear
982374.010	D 111, H 3	Safety glass, satin finish



Anti-glare honeycomb louvre

Price Category 21

982375.003	D 111, H 3	Maxi honeycomb louvre
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Interchangeable plastic rings

Price Category 21

982420.002	D 118, H 20	White plastic ring for reflector
982422.002	D 118, H 33	White plastic ring for lens



Interchangeable optics

Price Category 21

982372.003	D 118, H 83	Reflector, narrow beam 10°
982372.013	D 118, H 83	Reflector, medium beam 20°
982372.023	D 118, H 83	Reflector, wide beam 34°
982372.033	D 118, H 83	Reflector, very wide beam 63°
982373.003	D 118, H 83	Lens, narrow beam 12°
982373.013	D 118, H 83	Lens, medium beam 29°
982373.023	D 118, H 83	Lens, wide beam 41°



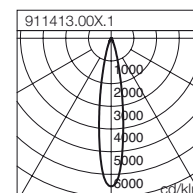


RONDOS

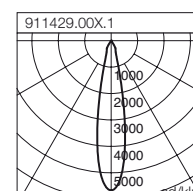
Recessed projectors

- High quality die-cast aluminium housing in two sizes
- Excellent light quality thanks to flicker-free light, homogeneous light distribution, glare limitation and light colour quality
- Flexible adjustment, can be turned by 356° and swivelled by ± 35°
- Suitable for reflector as well as lens technologies
- **MIRO-SILVER®** reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone, each with three different beam angles narrow, medium, wide
- Black plastic ring and recessed LED to prevent glare from the side
- Additional light colours 927, 930, 935, 940 with Ra 95 and 832 with Ra 85 as well as for Maxi special food LEDs: champagne with Ra 97, meat and meat fresh available on request
- LED rated life 50,000 h (L90/B10)
- Colour consistency within 2-steps MacAdam (2 SDCM)
- High quality converter without flickering and stroboscopic effect
- Separate converter box with connecting cable
- The following accessories can be mounted without use of tools: interchangeable lenses, honeycomb louvre, clear and frosted diffusers, white interchangeable plastic ring

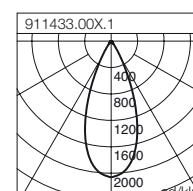
911413.00X.1		
h [m]	Ø [m]	E [lx]
1,0	0,37	7829
2,0	0,75	1957
3,0	1,12	870
4,0	1,50	489
5,0	1,87	313



911429.00X.1		
h [m]	Ø [m]	E [lx]
1,0	0,37	17100
2,0	0,75	4275
3,0	1,12	1900
4,0	1,50	1069
5,0	1,87	684



911433.00X.1		
h [m]	Ø [m]	E [lx]
1,0	0,75	5454
2,0	1,50	1364
3,0	2,26	606
4,0	3,01	341
5,0	3,76	218



Recessed projectors | Rondos Mini

Type of Protection: IP 20

Protection Class: II

Ceiling thickness S: 1-20 mm

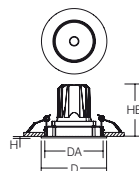
Impact Protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°; swivel range: ± 35°.

Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.

With optical assembly MIRO-SILVER® reflector or polycarbonate lens. Incl. separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	dimmable	Price Category 21
Recessed projectors								
Ceiling cut out DA 133 mm								
Including lens for best uniformity of the light cone								
911413.00X	D 143, H 3, HE 120	LED	830	1950	19	18	on/off	
911413.00X.76	D 143, H 3, HE 120	LED	830	1950	19	18	DALI	
911414.00X	D 143, H 3, HE 120	LED	830	1850	19	29	on/off	
911414.00X.76	D 143, H 3, HE 120	LED	830	1850	19	29	DALI	
911415.00X	D 143, H 3, HE 120	LED	830	1700	19	44	on/off	
911415.00X.76	D 143, H 3, HE 120	LED	830	1700	19	44	DALI	
911413.00X.1	D 143, H 3, HE 120	LED	840	2050	19	18	on/off	
911413.00X.1.76	D 143, H 3, HE 120	LED	840	2050	19	18	DALI	
911414.00X.1	D 143, H 3, HE 120	LED	840	1950	19	29	on/off	
911414.00X.1.76	D 143, H 3, HE 120	LED	840	1950	19	29	DALI	
911415.00X.1	D 143, H 3, HE 120	LED	840	1800	19	44	on/off	
911415.00X.1.76	D 143, H 3, HE 120	LED	840	1800	19	44	DALI	
911419.00X	D 143, H 3, HE 120	LED	830	2800	29	18	on/off	
911419.00X.76	D 143, H 3, HE 120	LED	830	2800	29	18	DALI	
911420.00X	D 143, H 3, HE 120	LED	830	2650	29	29	on/off	
911420.00X.76	D 143, H 3, HE 120	LED	830	2650	29	29	DALI	
911421.00X	D 143, H 3, HE 120	LED	830	2450	29	44	on/off	
911421.00X.76	D 143, H 3, HE 120	LED	830	2450	29	44	DALI	
911419.00X.1	D 143, H 3, HE 120	LED	840	2950	29	18	on/off	
911419.00X.1.76	D 143, H 3, HE 120	LED	840	2950	29	18	DALI	
911420.00X.1	D 143, H 3, HE 120	LED	840	2800	29	29	on/off	
911420.00X.1.76	D 143, H 3, HE 120	LED	840	2800	29	29	DALI	
911421.00X.1	D 143, H 3, HE 120	LED	840	2550	29	44	on/off	
911421.00X.1.76	D 143, H 3, HE 120	LED	840	2550	29	44	DALI	
Including reflector for maximum efficiency								
911410.00X	D 143, H 3, HE 120	LED	830	2300	19	17	on/off	
911410.00X.76	D 143, H 3, HE 120	LED	830	2300	19	17	DALI	
911411.00X	D 143, H 3, HE 120	LED	830	2150	19	32	on/off	
911411.00X.76	D 143, H 3, HE 120	LED	830	2150	19	32	DALI	
911412.00X	D 143, H 3, HE 120	LED	830	2350	19	62	on/off	
911412.00X.76	D 143, H 3, HE 120	LED	830	2350	19	62	DALI	
911410.00X.1	D 143, H 3, HE 120	LED	840	2450	19	17	on/off	
911410.00X.1.76	D 143, H 3, HE 120	LED	840	2450	19	17	DALI	
911411.00X.1	D 143, H 3, HE 120	LED	840	2250	19	32	on/off	
911411.00X.1.76	D 143, H 3, HE 120	LED	840	2250	19	32	DALI	
911412.00X.1	D 143, H 3, HE 120	LED	840	2450	19	62	on/off	
911412.00X.1.76	D 143, H 3, HE 120	LED	840	2450	19	62	DALI	
911416.00X	D 143, H 3, HE 120	LED	830	3350	29	17	on/off	
911416.00X.76	D 143, H 3, HE 120	LED	830	3350	29	17	DALI	
911417.00X	D 143, H 3, HE 120	LED	830	3050	29	32	on/off	
911417.00X.76	D 143, H 3, HE 120	LED	830	3050	29	32	DALI	
911418.00X	D 143, H 3, HE 120	LED	830	3350	29	62	on/off	
911418.00X.76	D 143, H 3, HE 120	LED	830	3350	29	62	DALI	
911416.00X.1	D 143, H 3, HE 120	LED	840	3500	29	17	on/off	
911416.00X.1.76	D 143, H 3, HE 120	LED	840	3500	29	17	DALI	
911417.00X.1	D 143, H 3, HE 120	LED	840	3200	29	32	on/off	
911417.00X.1.76	D 143, H 3, HE 120	LED	840	3200	29	32	DALI	
911418.00X.1	D 143, H 3, HE 120	LED	840	3500	29	62	on/off	
911418.00X.1.76	D 143, H 3, HE 120	LED	840	3500	29	62	DALI	

Versions with Ra > 90 colour rendition are also available in other light colours on request

Comparison LED vs. conventional lamps

LED 19 W ≈

1 x 35 W HIT (45 W Psys)

LED 29 W ≈

1 x 50 W HIT (60 W Psys)





Recessed projectors | Rondos Maxi

Type of Protection: IP 20

Protection Class: II

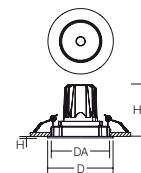
Ceiling thickness S: 1-20 mm

Impact Protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°; swivel range: ± 35°. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.

With optical assembly MIRO-SILVER® reflector or polycarbonate lens. Incl. separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Comparison LED vs. conventional lamps

LED 24 W ≈

1 x 35 W HIT (45 W Psys)

LED 37 W ≈

1 x 50 W HIT (60 W Psys)



Recessed projectors

Ceiling cut out DA 168 mm

Including lens for best uniformity of the light cone

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	α [°]	dim-able
911425.00X	D 178, H 3, HE 140	LED	830	2350	24	12	on/off
911425.00X.76	D 178, H 3, HE 140	LED	830	2350	24	12	DALI
911426.00X	D 178, H 3, HE 140	LED	830	2350	24	29	on/off
911426.00X.76	D 178, H 3, HE 140	LED	830	2350	24	29	DALI
911427.00X	D 178, H 3, HE 140	LED	830	2350	24	41	on/off
911427.00X.76	D 178, H 3, HE 140	LED	830	2350	24	41	DALI
911425.00X.1	D 178, H 3, HE 140	LED	840	2500	24	12	on/off
911425.00X.1.76	D 178, H 3, HE 140	LED	840	2500	24	12	DALI
911426.00X.1	D 178, H 3, HE 140	LED	840	2450	24	29	on/off
911426.00X.1.76	D 178, H 3, HE 140	LED	840	2450	24	29	DALI
911427.00X.1	D 178, H 3, HE 140	LED	840	2500	24	41	on/off
911427.00X.1.76	D 178, H 3, HE 140	LED	840	2500	24	41	DALI
911431.00X	D 178, H 3, HE 140	LED	830	3300	37	12	on/off
911431.00X.76	D 178, H 3, HE 140	LED	830	3300	37	12	DALI
911432.00X	D 178, H 3, HE 140	LED	830	3250	37	29	on/off
911432.00X.76	D 178, H 3, HE 140	LED	830	3250	37	29	DALI
911433.00X	D 178, H 3, HE 140	LED	830	3300	37	41	on/off
911433.00X.76	D 178, H 3, HE 140	LED	830	3300	37	41	DALI
911431.00X.1	D 178, H 3, HE 140	LED	840	3500	37	12	on/off
911431.00X.1.76	D 178, H 3, HE 140	LED	840	3500	37	12	DALI
911432.00X.1	D 178, H 3, HE 140	LED	840	3500	37	29	on/off
911432.00X.1.76	D 178, H 3, HE 140	LED	840	3500	37	29	DALI
911433.00X.1	D 178, H 3, HE 140	LED	840	3500	37	41	on/off
911433.00X.1.76	D 178, H 3, HE 140	LED	840	3500	37	41	DALI

Including reflector for maximum efficiency

911422.00X	D 178, H 3, HE 140	LED	830	2850	24	10	on/off
911422.00X.76	D 178, H 3, HE 140	LED	830	2850	24	10	DALI
911423.00X	D 178, H 3, HE 140	LED	830	3000	24	20	on/off
911423.00X.76	D 178, H 3, HE 140	LED	830	3000	24	20	DALI
911424.00X	D 178, H 3, HE 140	LED	830	2900	24	34	on/off
911424.00X.76	D 178, H 3, HE 140	LED	830	2900	24	34	DALI
911422.00X.1	D 178, H 3, HE 140	LED	840	3000	24	10	on/off
911422.00X.1.76	D 178, H 3, HE 140	LED	840	3000	24	10	DALI
911423.00X.1	D 178, H 3, HE 140	LED	840	3150	24	20	on/off
911423.00X.1.76	D 178, H 3, HE 140	LED	840	3150	24	20	DALI
911424.00X.1	D 178, H 3, HE 140	LED	840	3050	24	34	on/off
911424.00X.1.76	D 178, H 3, HE 140	LED	840	3050	24	34	DALI
911428.00X	D 178, H 3, HE 140	LED	830	4000	37	10	on/off
911428.00X.76	D 178, H 3, HE 140	LED	830	4000	37	10	DALI
911429.00X	D 178, H 3, HE 140	LED	830	4200	37	20	on/off
911429.00X.76	D 178, H 3, HE 140	LED	830	4200	37	20	DALI
911430.00X	D 178, H 3, HE 140	LED	830	4050	37	34	on/off
911430.00X.76	D 178, H 3, HE 140	LED	830	4050	37	34	DALI
911428.00X.1	D 178, H 3, HE 140	LED	840	4200	37	10	on/off
911428.00X.1.76	D 178, H 3, HE 140	LED	840	4200	37	10	DALI
911429.00X.1	D 178, H 3, HE 140	LED	840	4400	37	20	on/off
911429.00X.1.76	D 178, H 3, HE 140	LED	840	4400	37	20	DALI
911430.00X.1	D 178, H 3, HE 140	LED	840	4250	37	34	on/off
911430.00X.1.76	D 178, H 3, HE 140	LED	840	4250	37	34	DALI

Versions with Ra > 90 colour rendition are also available in other light colours on request

Accessories | Rondos Mini

Diffuser		Price Category 21
982370.000	D 74, H 3	Safety glass clear
982370.010	D 74, H 3	Safety glass, satin finish

Anti-glare honeycomb louvre		Price Category 21
982371.003	D 74, H 3	Honeycomb louvre Mini

Interchangeable plastic rings		Price Category 21
982419.002	D 82, H 20	White plastic ring for reflector
982421.002	D 82, H 31	White plastic ring for lens

Interchangeable optics		Price Category 21
982368.003	D 82, H 55	Reflector, narrow beam 17°
982368.013	D 82, H 55	Reflector, medium beam 32°
982368.033	D 82, H 55	Reflector, wide beam 62°
982369.003	D 82, H 55	Lens, narrow beam 18°
982369.013	D 82, H 55	Lens, medium beam 29°
982369.023	D 82, H 55	Lens, wide beam 44°
982369.033	D 82, H 55	Lens, very wide beam 70°
982369.043	D 82, H 55	Lens with oval light distribution for corridor 28°/40°



Accessories | Rondos Maxi

Diffuser		Price Category 21
982374.000	D 111, H 3	Safety glass clear
982374.010	D 111, H 3	Safety glass, satin finish

Anti-glare honeycomb louvre		Price Category 21
982375.003	D 111, H 3	Maxi honeycomb louvre

Interchangeable plastic rings		Price Category 21
982420.002	D 118, H 20	White plastic ring for reflector
982422.002	D 118, H 33	White plastic ring for lens

Interchangeable optics		Price Category 21
982372.003	D 118, H 83	Reflector, narrow beam 10°
982372.013	D 118, H 83	Reflector, medium beam 20°
982372.023	D 118, H 83	Reflector, wide beam 34°
982372.033	D 118, H 83	Reflector, very wide beam 63°
982373.003	D 118, H 83	Lens, narrow beam 12°
982373.013	D 118, H 83	Lens, medium beam 29°
982373.023	D 118, H 83	Lens, wide beam 41°



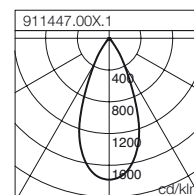


GOLAS®

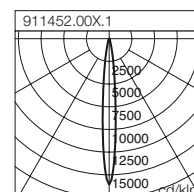
Recessed projectors

- High quality die-cast aluminium housing in two sizes
- Excellent light quality thanks to flicker-free light, homogeneous light distribution, glare limitation and light colour quality
- Swivels by 90° and turns by 356° - resulting in maximum flexibility in adjustment
- Suitable for reflector as well as lens technologies
- **MIRO-SILVER®** reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone, each with three different beam angles narrow, medium, wide
- Additional Superspot versions
- Black plastic ring and recessed LED to prevent glare from the side
- Additional light colours 927, 930, 935, 940 with Ra 95 and 832 with Ra 85 as well as for Maxi special food LEDs: champagne with Ra 97, meat and meat fresh available on request
- LED rated life 50,000 h (L90/B10)
- Colour consistency within 2-steps MacAdam (2 SDCM)
- High quality converter without flickering and stroboscopic effect
- Separate converter box with connecting cable
- The following accessories can be mounted without use of tools: interchangeable lenses, honeycomb louvre, clear and frosted diffusers, white interchangeable plastic ring

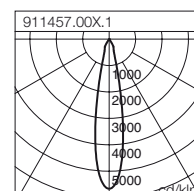
911447.00X.1		
h [m]	Ø [m]	E [lx]
1,0	0,84	3322
2,0	1,67	831
3,0	2,51	369
4,0	3,35	208
5,0	4,18	133



911452.00X.1		
h [m]	Ø [m]	E [lx]
1,0	0,16	25305
2,0	0,33	6326
3,0	0,49	2812
4,0	0,66	1582
5,0	0,82	1012



911457.00X.1		
h [m]	Ø [m]	E [lx]
1,0	0,37	17100
2,0	0,75	4275
3,0	1,12	1900
4,0	1,50	1069
5,0	1,87	684



Recessed projectors | Golas Mini

Type of Protection: IP 20

Protection Class: II

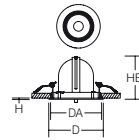
Ceiling thickness S: 1-20 mm

Impact Protection: IK03

Housing: die-cast aluminium, powder-coated. 356° rotation range and 90° swivel range. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.

With optical assembly MIRO-SILVER® reflector or polycarbonate lens. Incl. separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



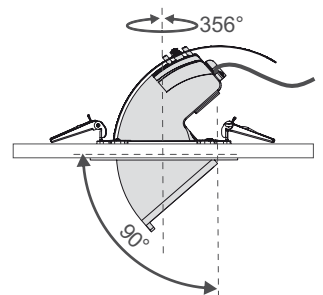
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	α [°]	dimmable	Price Category 21
Recessed projectors								
Ceiling cut out DA 133 mm								
Including lens for best uniformity of the light cone								
911439.00X	D 143, H 3, HE 115	LED	830	1950	19	18	on/off	
911439.00X.76	D 143, H 3, HE 115	LED	830	1950	19	18	DALI	
911440.00X	D 143, H 3, HE 115	LED	830	1850	19	29	on/off	
911440.00X.76	D 143, H 3, HE 115	LED	830	1850	19	29	DALI	
911441.00X	D 143, H 3, HE 115	LED	830	1700	19	44	on/off	
911441.00X.76	D 143, H 3, HE 115	LED	830	1700	19	44	DALI	
911439.00X.1	D 143, H 3, HE 115	LED	840	2050	19	18	on/off	
911439.00X.1.76	D 143, H 3, HE 115	LED	840	2050	19	18	DALI	
911440.00X.1	D 143, H 3, HE 115	LED	840	1950	19	29	on/off	
911440.00X.1.76	D 143, H 3, HE 115	LED	840	1950	19	29	DALI	
911441.00X.1	D 143, H 3, HE 115	LED	840	1800	19	44	on/off	
911441.00X.1.76	D 143, H 3, HE 115	LED	840	1800	19	44	DALI	
911445.00X	D 143, H 3, HE 115	LED	830	2800	29	18	on/off	
911445.00X.76	D 143, H 3, HE 115	LED	830	2800	29	18	DALI	
911446.00X	D 143, H 3, HE 115	LED	830	2650	29	29	on/off	
911446.00X.76	D 143, H 3, HE 115	LED	830	2650	29	29	DALI	
911447.00X	D 143, H 3, HE 115	LED	830	2450	29	44	on/off	
911447.00X.76	D 143, H 3, HE 115	LED	830	2450	29	44	DALI	
911445.00X.1	D 143, H 3, HE 115	LED	840	2950	29	18	on/off	
911445.00X.1.76	D 143, H 3, HE 115	LED	840	2950	29	18	DALI	
911446.00X.1	D 143, H 3, HE 115	LED	840	2800	29	29	on/off	
911446.00X.1.76	D 143, H 3, HE 115	LED	840	2800	29	29	DALI	
911447.00X.1	D 143, H 3, HE 115	LED	840	2550	29	44	on/off	
911447.00X.1.76	D 143, H 3, HE 115	LED	840	2550	29	44	DALI	
Including reflector for maximum efficiency								
911435.00X	D 143, H 3, HE 115	LED	830	2300	19	17	on/off	
911435.00X.76	D 143, H 3, HE 115	LED	830	2300	19	17	DALI	
911436.00X	D 143, H 3, HE 115	LED	830	2150	19	32	on/off	
911436.00X.76	D 143, H 3, HE 115	LED	830	2150	19	32	DALI	
911437.00X	D 143, H 3, HE 115	LED	830	2350	19	62	on/off	
911437.00X.76	D 143, H 3, HE 115	LED	830	2350	19	62	DALI	
911435.00X.1	D 143, H 3, HE 115	LED	840	2450	19	17	on/off	
911435.00X.1.76	D 143, H 3, HE 115	LED	840	2450	19	17	DALI	
911436.00X.1	D 143, H 3, HE 115	LED	840	2250	19	32	on/off	
911436.00X.1.76	D 143, H 3, HE 115	LED	840	2250	19	32	DALI	
911437.00X.1	D 143, H 3, HE 115	LED	840	2450	19	62	on/off	
911437.00X.1.76	D 143, H 3, HE 115	LED	840	2450	19	62	DALI	
911442.00X	D 143, H 3, HE 115	LED	830	3350	29	17	on/off	
911442.00X.76	D 143, H 3, HE 115	LED	830	3350	29	17	DALI	
911443.00X	D 143, H 3, HE 115	LED	830	3050	29	32	on/off	
911443.00X.76	D 143, H 3, HE 115	LED	830	3050	29	32	DALI	
911444.00X	D 143, H 3, HE 115	LED	830	3350	29	62	on/off	
911444.00X.76	D 143, H 3, HE 115	LED	830	3350	29	62	DALI	
911442.00X.1	D 143, H 3, HE 115	LED	840	3500	29	17	on/off	
911442.00X.1.76	D 143, H 3, HE 115	LED	840	3500	29	17	DALI	
911443.00X.1	D 143, H 3, HE 115	LED	840	3200	29	32	on/off	
911443.00X.1.76	D 143, H 3, HE 115	LED	840	3200	29	32	DALI	
911444.00X.1	D 143, H 3, HE 115	LED	840	3500	29	62	on/off	
911444.00X.1.76	D 143, H 3, HE 115	LED	840	3500	29	62	DALI	
Superspot version with small spot LED								
Including lens for best uniformity of the light cone								
911438.00X	D 143, H 3, HE 115	LED	830	1850	20	14	on/off	
911438.00X.76	D 143, H 3, HE 115	LED	830	1850	20	14	DALI	
911438.00X.1	D 143, H 3, HE 115	LED	840	1900	20	14	on/off	
911438.00X.1.76	D 143, H 3, HE 115	LED	840	1900	20	14	DALI	
Including reflector for maximum efficiency								
911434.00X	D 143, H 3, HE 115	LED	830	2100	20	11	on/off	
911434.00X.76	D 143, H 3, HE 115	LED	830	2100	20	11	DALI	
911434.00X.1	D 143, H 3, HE 115	LED	840	2200	20	11	on/off	
911434.00X.1.76	D 143, H 3, HE 115	LED	840	2200	20	11	DALI	

Versions with Ra > 90 colour rendition are also available in other light colours on request

Comparison
LED vs. conventional lamps

LED 19 / 20 W ≈
1 x 35 W HIT (45 W Psys)

LED 29 W ≈
1 x 50 W HIT (60 W Psys)





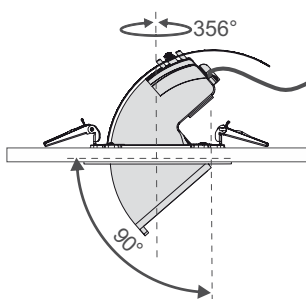
Comparison LED vs. conventional lamps

LED 20 / 24 W ≈

1 x 35 W HIT (45 W Psys)

LED 37 W ≈

1 x 50 W HIT (60 W Psys)



Recessed projectors | Golas Maxi

Type of Protection: IP 20

Protection Class: II

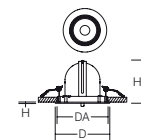
Ceiling thickness S: 1-20 mm


Impact Protection: IK03

Housing: die-cast aluminium, powder-coated. 356° rotation range and 90° swivel range. Heat resistant plastic ring black. Installation without tools thanks to spring fastening system.

With optical assembly MIRO-SILVER® reflector or polycarbonate lens. Incl. separate LED converter with connecting cable 600 mm.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	dimmable
Recessed projectors							
Ceiling cut out DA 168 mm							
Including lens for best uniformity of the light cone							
911453.00X	D 178, H 3, HE 150	LED	830	2350	24	12	on/off
911453.00X.76	D 178, H 3, HE 150	LED	830	2350	24	12	DALI
911454.00X	D 178, H 3, HE 150	LED	830	2350	24	29	on/off
911454.00X.76	D 178, H 3, HE 150	LED	830	2350	24	29	DALI
911455.00X	D 178, H 3, HE 150	LED	830	2350	24	41	on/off
911455.00X.76	D 178, H 3, HE 150	LED	830	2350	24	41	DALI
911453.00X.1	D 178, H 3, HE 150	LED	840	2500	24	12	on/off
911453.00X.1.76	D 178, H 3, HE 150	LED	840	2500	24	12	DALI
911454.00X.1	D 178, H 3, HE 150	LED	840	2450	24	29	on/off
911454.00X.1.76	D 178, H 3, HE 150	LED	840	2450	24	29	DALI
911455.00X.1	D 178, H 3, HE 150	LED	840	2500	24	41	on/off
911455.00X.1.76	D 178, H 3, HE 150	LED	840	2500	24	41	DALI
911459.00X	D 178, H 3, HE 150	LED	830	3300	37	12	on/off
911459.00X.76	D 178, H 3, HE 150	LED	830	3300	37	12	DALI
911460.00X	D 178, H 3, HE 150	LED	830	3250	37	29	on/off
911460.00X.76	D 178, H 3, HE 150	LED	830	3250	37	29	DALI
911461.00X	D 178, H 3, HE 150	LED	830	3300	37	41	on/off
911461.00X.76	D 178, H 3, HE 150	LED	830	3300	37	41	DALI
911459.00X.1	D 178, H 3, HE 150	LED	840	3500	37	12	on/off
911459.00X.1.76	D 178, H 3, HE 150	LED	840	3500	37	12	DALI
911460.00X.1	D 178, H 3, HE 150	LED	840	3500	37	29	on/off
911460.00X.1.76	D 178, H 3, HE 150	LED	840	3500	37	29	DALI
911461.00X.1	D 178, H 3, HE 150	LED	840	3500	37	41	on/off
911461.00X.1.76	D 178, H 3, HE 150	LED	840	3500	37	41	DALI
Including reflector for maximum efficiency							
911449.00X	D 178, H 3, HE 150	LED	830	2850	24	10	on/off
911449.00X.76	D 178, H 3, HE 150	LED	830	2850	24	10	DALI
911450.00X	D 178, H 3, HE 150	LED	830	3000	24	20	on/off
911450.00X.76	D 178, H 3, HE 150	LED	830	3000	24	20	DALI
911451.00X	D 178, H 3, HE 150	LED	830	2900	24	34	on/off
911451.00X.76	D 178, H 3, HE 150	LED	830	2900	24	34	DALI
911449.00X.1	D 178, H 3, HE 150	LED	840	3000	24	10	on/off
911449.00X.1.76	D 178, H 3, HE 150	LED	840	3000	24	10	DALI
911450.00X.1	D 178, H 3, HE 150	LED	840	3150	24	20	on/off
911450.00X.1.76	D 178, H 3, HE 150	LED	840	3150	24	20	DALI
911451.00X.1	D 178, H 3, HE 150	LED	840	3050	24	34	on/off
911451.00X.1.76	D 178, H 3, HE 150	LED	840	3050	24	34	DALI
911456.00X	D 178, H 3, HE 150	LED	830	4000	37	10	on/off
911456.00X.76	D 178, H 3, HE 150	LED	830	4000	37	10	DALI
911457.00X	D 178, H 3, HE 150	LED	830	4200	37	20	on/off
911457.00X.76	D 178, H 3, HE 150	LED	830	4200	37	20	DALI
911458.00X	D 178, H 3, HE 150	LED	830	4050	37	34	on/off
911458.00X.76	D 178, H 3, HE 150	LED	830	4050	37	34	DALI
911456.00X.1	D 178, H 3, HE 150	LED	840	4200	37	10	on/off
911456.00X.1.76	D 178, H 3, HE 150	LED	840	4200	37	10	DALI
911457.00X.1	D 178, H 3, HE 150	LED	840	4400	37	20	on/off
911457.00X.1.76	D 178, H 3, HE 150	LED	840	4400	37	20	DALI
911458.00X.1	D 178, H 3, HE 150	LED	840	4250	37	34	on/off
911458.00X.1.76	D 178, H 3, HE 150	LED	840	4250	37	34	DALI
Superspot version with small spot LED							
Including lens for best uniformity of the light cone							
911452.00X	D 178, H 3, HE 150	LED	830	1750	20	10	on/off
911452.00X.76	D 178, H 3, HE 150	LED	830	1750	20	10	DALI
911452.00X.1	D 178, H 3, HE 150	LED	840	1800	20	10	on/off
911452.00X.1.76	D 178, H 3, HE 150	LED	840	1800	20	10	DALI
Including reflector for maximum efficiency							
911448.00X	D 178, H 3, HE 150	LED	830	2050	20	7	on/off
911448.00X.76	D 178, H 3, HE 150	LED	830	2050	20	7	DALI
911448.00X.1	D 178, H 3, HE 150	LED	840	2150	20	7	on/off
911448.00X.1.76	D 178, H 3, HE 150	LED	840	2150	20	7	DALI

Versions with Ra > 90 colour rendition are also available in other light colours on request

Accessories | Golas Mini

Diffuser Price Category 21

982370.000	D 74, H 3	Safety glass clear
982370.010	D 74, H 3	Safety glass, satin finish

Anti-glare honeycomb louvre Price Category 21

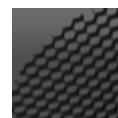
982371.003	D 74, H 3	Honeycomb louvre Mini
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Interchangeable plastic rings Price Category 21

982419.002	D 82, H 20	White plastic ring for reflector
982421.002	D 82, H 31	White plastic ring for lens

Interchangeable optics Price Category 21

982368.003	D 82, H 55	Reflector, narrow beam 17°
982368.013	D 82, H 55	Reflector, medium beam 32°
982368.033	D 82, H 55	Reflector, wide beam 62°
982369.003	D 82, H 55	Lens, narrow beam 18°
982369.013	D 82, H 55	Lens, medium beam 29°
982369.023	D 82, H 55	Lens, wide beam 44°
982369.033	D 82, H 55	Lens, very wide beam 70°
982369.043	D 82, H 55	Lens with oval light distribution for corridor 28°/40°



Accessories | Golas Maxi

Diffuser Price Category 21

982374.000	D 111, H 3	Safety glass clear
982374.010	D 111, H 3	Safety glass, satin finish

Anti-glare honeycomb louvre Price Category 21

982375.003	D 111, H 3	Maxi honeycomb louvre
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Interchangeable plastic rings Price Category 21

982420.002	D 118, H 20	White plastic ring for reflector
982422.002	D 118, H 33	White plastic ring for lens

Interchangeable optics Price Category 21

982372.003	D 118, H 83	Reflector, narrow beam 10°
982372.013	D 118, H 83	Reflector, medium beam 20°
982372.023	D 118, H 83	Reflector, wide beam 34°
982372.033	D 118, H 83	Reflector, very wide beam 63°
982373.003	D 118, H 83	Lens, narrow beam 12°
982373.013	D 118, H 83	Lens, medium beam 29°
982373.023	D 118, H 83	Lens, wide beam 41°





The application image shows:
Deecos S



438-439

440-441

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445



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Deecos S
436-443

Calido Clickbeam
444-445

Triade
446-447



DEECOS® S

Surface mounted projectors

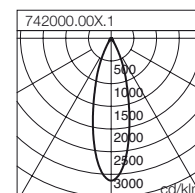
- Excellent light quality thanks to flicker-free light, homogeneous light distribution, glare limitation and light colour quality
- Modern design: cylindrical shape with no visible cooling fins
- Suitable for reflector as well as lens technologies
- MIRO-SILVER® reflectors for outstanding efficiency or polycarbonate lenses for the best uniformity of the light cone
- Various beam characteristics: narrow, medium, wide, very wide and oval
- Additional Superspot versions
- Black plastic ring and recessed LED to prevent glare from the side



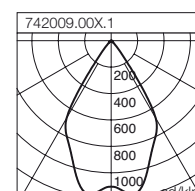
Further luminaires of this series, see:
Indoor lighting | Pendant luminaires
Indoor lighting | Recessed projectors

- Additional light colours 927, 930, 935, 940 with Ra 95 and 832 with Ra 85 as well as for Maxi special food LEDs: champagne with Ra 97, meat and meat fresh available on request
- LED rated life 50,000 h (L90/B10)
- Colour consistency within 2-steps MacAdam (2 SDCM)
- High quality converter without flickering and stroboscopic effect
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download
- Also suitable for wall mounting with circuit tracks
- The following accessories can be mounted without use of tools: interchangeable lenses, decorative glasses, honeycomb louvre, clear and frosted diffusers, white interchangeable plastic ring

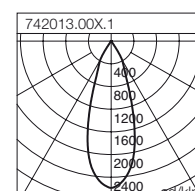
742000.00X.1			
h [m]	Ø [m]	E [lx]	
1,0	0,13	44172	
2,0	0,26	11043	
3,0	0,39	4908	
4,0	0,52	2761	
5,0	0,65	1767	



742009.00X.1			
h [m]	Ø [m]	E [lx]	
1,0	0,37	17100	
2,0	0,75	4275	
3,0	1,12	1900	
4,0	1,50	1069	
5,0	1,87	684	



742013.00X.1			
h [m]	Ø [m]	E [lx]	
1,0	0,75	5454	
2,0	1,50	1364	
3,0	2,26	606	
4,0	3,01	341	
5,0	3,76	218	





The application image shows:
Deecos S



Comparison LED vs. conventional lamps

LED 19 / 20 W ≈

1 x 35 W HIT (45 W Psys)

LED 29 W ≈

1 x 50 W HIT (60 W Psys)

Surface mounted projectors | Deecos S Mini Track-In

Type of Protection: IP 20

Protection Class: II

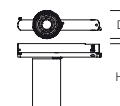
Impact Protection: IK06


Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°.

Heat resistant plastic ring black. With optical assembly MIRO-SILVER® reflector or polycarbonate lens. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks.

Converter integrated in the adapter. Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	dimmable
Surface mounted projector							
with multi adaptor for 3-circuit tracks 230 V							
Including lens for best uniformity of the light cone							
742102.00X	D 87, H 135	LED	830	1950	19	18	on/off
742103.00X	D 87, H 135	LED	830	1850	19	29	on/off
742104.00X	D 87, H 135	LED	830	1700	19	44	on/off
742102.00X.1	D 87, H 135	LED	840	2050	19	18	on/off
742103.00X.1	D 87, H 135	LED	840	1950	19	29	on/off
742104.00X.1	D 87, H 135	LED	840	1800	19	44	on/off
742108.00X	D 87, H 135	LED	830	2800	29	18	on/off
742109.00X	D 87, H 135	LED	830	2650	29	29	on/off
742110.00X	D 87, H 135	LED	830	2450	29	44	on/off
742108.00X.1	D 87, H 135	LED	840	2950	29	18	on/off
742109.00X.1	D 87, H 135	LED	840	2800	29	29	on/off
742110.00X.1	D 87, H 135	LED	840	2550	29	44	on/off
Including reflector for maximum efficiency							
742098.00X	D 87, H 135	LED	830	2300	19	17	on/off
742099.00X	D 87, H 135	LED	830	2150	19	32	on/off
742100.00X	D 87, H 135	LED	830	2350	19	62	on/off
742098.00X.1	D 87, H 135	LED	840	2450	19	17	on/off
742099.00X.1	D 87, H 135	LED	840	2250	19	32	on/off
742100.00X.1	D 87, H 135	LED	840	2450	19	62	on/off
742105.00X	D 87, H 135	LED	830	3350	29	17	on/off
742106.00X	D 87, H 135	LED	830	3050	29	32	on/off
742107.00X	D 87, H 135	LED	830	3350	29	62	on/off
742105.00X.1	D 87, H 135	LED	840	3500	29	17	on/off
742106.00X.1	D 87, H 135	LED	840	3200	29	32	on/off
742107.00X.1	D 87, H 135	LED	840	3500	29	62	on/off
Superspot version with small spot LED							
Including lens for best uniformity of the light cone							
742101.00X	D 87, H 135	LED	830	1850	20	14	on/off
742101.00X.1	D 87, H 135	LED	840	1900	20	14	on/off
Including reflector for maximum efficiency							
742097.00X	D 87, H 135	LED	830	2100	20	11	on/off
742097.00X.1	D 87, H 135	LED	840	2200	20	11	on/off

Versions with Ra > 90 colour rendition are also available in other light colours on request




Comparison LED vs. conventional lamps

LED 20 W ≈


1 x 35 W HIT (45 W Psys)

LED 26 W ≈

1 x 50 W HIT (60 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	dimmable
Surface mounted projector							
with DALI adapter only for RZB 3-circuit DALI track 230 V							
Including lens for best uniformity of the light cone							
742114.00X.76	D 87, H 135	LED	830	2600	26	18	DALI
742115.00X.76	D 87, H 135	LED	830	2450	26	29	DALI
742116.00X.76	D 87, H 135	LED	830	2300	26	44	DALI
742114.00X.1.76	D 87, H 135	LED	840	2750	26	18	DALI
742115.00X.1.76	D 87, H 135	LED	840	2600	26	29	DALI
742116.00X.1.76	D 87, H 135	LED	840	2400	26	44	DALI
Including reflector for maximum efficiency							
742111.00X.76	D 87, H 135	LED	830	3100	26	17	DALI
742112.00X.76	D 87, H 135	LED	830	2850	26	32	DALI
742113.00X.76	D 87, H 135	LED	830	3150	26	62	DALI
742111.00X.1.76	D 87, H 135	LED	840	3250	26	17	DALI
742112.00X.1.76	D 87, H 135	LED	840	3000	26	32	DALI
742113.00X.1.76	D 87, H 135	LED	840	3300	26	62	DALI
Superspot version with small spot LED							
Including lens for best uniformity of the light cone							
742101.00X.76	D 87, H 135	LED	830	1850	20	14	DALI
742101.00X.1.76	D 87, H 135	LED	840	1900	20	14	DALI
Including reflector for maximum efficiency							
742097.00X.76	D 87, H 135	LED	830	2100	20	11	DALI
742097.00X.1.76	D 87, H 135	LED	840	2200	20	11	DALI

Versions with Ra > 90 colour rendition are also available in other light colours on request

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	dimm-able
Surface mounted projector							
With Casambi smart+free multi-adapter for 3-phase conductor rails 230 V							
Including lens for best uniformity of the light cone							
742114.00X.730	D 87, H 135	LED	830	2600	26	18	smart+free
742115.00X.730	D 87, H 135	LED	830	2450	26	29	smart+free
742116.00X.730	D 87, H 135	LED	830	2300	26	44	smart+free
742114.00X.1.730	D 87, H 135	LED	840	2750	26	18	smart+free
742115.00X.1.730	D 87, H 135	LED	840	2600	26	29	smart+free
742116.00X.1.730	D 87, H 135	LED	840	2400	26	44	smart+free
Including reflector for maximum efficiency							
742111.00X.730	D 87, H 135	LED	830	3100	26	17	smart+free
742112.00X.730	D 87, H 135	LED	830	2850	26	32	smart+free
742113.00X.730	D 87, H 135	LED	830	3150	26	62	smart+free
742111.00X.1.730	D 87, H 135	LED	840	3250	26	17	smart+free
742112.00X.1.730	D 87, H 135	LED	840	3000	26	32	smart+free
742113.00X.1.730	D 87, H 135	LED	840	3300	26	62	smart+free
Superspot version with small spot LED							
Including lens for best uniformity of the light cone							
742101.00X.730	D 87, H 135	LED	830	1850	20	14	smart+free
742101.00X.1.730	D 87, H 135	LED	840	1900	20	14	smart+free
Including reflector for maximum efficiency							
742097.00X.730	D 87, H 135	LED	830	2100	20	11	smart+free
742097.00X.1.730	D 87, H 135	LED	840	2200	20	11	smart+free
Versions with Ra > 90 colour rendition are also available in other light colours on request							



Comparison LED vs. conventional lamps

LED 20 W ≈
1 x 35 W HIT (45 W Psys)

LED 26 W ≈
1 x 50 W HIT (60 W Psys)

Diffuser			Price Category 21				
982370.000	D 74, H 3	Safety glass clear					
982370.010	D 74, H 3	Safety glass, satin finish					



Decorative glasses			Price Category 21				
982647.002	D 87, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock					
982648.002	D 87, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock					



Anti-glare honeycomb louvre			Price Category 21				
982371.003	D 74, H 3	Honeycomb louvre Mini					



Interchangeable plastic rings			Price Category 21				
982419.002	D 82, H 20	White plastic ring for reflector					
982421.002	D 82, H 31	White plastic ring for lens					



Interchangeable optics			Price Category 21				
982368.003	D 82, H 55	Reflector, narrow beam 17°					
982368.013	D 82, H 55	Reflector, medium beam 32°					
982368.033	D 82, H 55	Reflector, wide beam 62°					
982369.003	D 82, H 55	Lens, narrow beam 18°					
982369.013	D 82, H 55	Lens, medium beam 29°					
982369.023	D 82, H 55	Lens, wide beam 44°					
982369.033	D 82, H 55	Lens, very wide beam 70°					
982369.043	D 82, H 55	Lens with oval light distribution for corridor 28°/40°					





Surface mounted projectors | Deecos S Mini

Type of Protection: IP 20

Protection Class: I

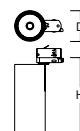
Impact Protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°.

Heat resistant plastic ring black. With optical assembly MIRO-SILVER® reflector or polycarbonate lens. With multi-adaptor for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks.

Ceiling mounting.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Comparison LED vs. conventional lamps

LED 19 / 20 W ≈

1 x 35 W HIT (45 W Psys)

LED 29 W ≈

1 x 50 W HIT (60 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	Beam angle [°]	dimmingable
Surface mounted projector							
with multi adaptor for 3-circuit tracks 230 V							
Including lens for best uniformity of the light cone							
742019.00X	D 87, H 214	LED	830	1950	19	18	on/off
742020.00X	D 87, H 214	LED	830	1850	19	29	on/off
742021.00X	D 87, H 214	LED	830	1700	19	44	on/off
742019.00X.1	D 87, H 214	LED	840	2050	19	18	on/off
742020.00X.1	D 87, H 214	LED	840	1950	19	29	on/off
742021.00X.1	D 87, H 214	LED	840	1800	19	44	on/off
742025.00X	D 87, H 214	LED	830	2800	29	18	on/off
742026.00X	D 87, H 214	LED	830	2650	29	29	on/off
742027.00X	D 87, H 214	LED	830	2450	29	44	on/off
742025.00X.1	D 87, H 214	LED	840	2950	29	18	on/off
742026.00X.1	D 87, H 214	LED	840	2800	29	29	on/off
742027.00X.1	D 87, H 214	LED	840	2550	29	44	on/off
Including reflector for maximum efficiency							
742015.00X	D 87, H 214	LED	830	2300	19	17	on/off
742016.00X	D 87, H 214	LED	830	2150	19	32	on/off
742017.00X	D 87, H 214	LED	830	2350	19	62	on/off
742015.00X.1	D 87, H 214	LED	840	2450	19	17	on/off
742016.00X.1	D 87, H 214	LED	840	2250	19	32	on/off
742017.00X.1	D 87, H 214	LED	840	2450	19	62	on/off
742022.00X	D 87, H 214	LED	830	3350	29	17	on/off
742023.00X	D 87, H 214	LED	830	3050	29	32	on/off
742024.00X	D 87, H 214	LED	830	3350	29	62	on/off
742022.00X.1	D 87, H 214	LED	840	3500	29	17	on/off
742023.00X.1	D 87, H 214	LED	840	3200	29	32	on/off
742024.00X.1	D 87, H 214	LED	840	3500	29	62	on/off
Superspot version with small spot LED							
Including lens for best uniformity of the light cone							
742018.00X	D 87, H 214	LED	830	1850	20	14	on/off
742018.00X.1	D 87, H 214	LED	840	1900	20	14	on/off
Including reflector for maximum efficiency							
742014.00X	D 87, H 214	LED	830	2100	20	11	on/off
742014.00X.1	D 87, H 214	LED	840	2200	20	11	on/off

Versions with Ra > 90 colour rendition are also available in other light colours on request



Fig. with reflector



Fig. with lens



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	dimmable
Surface mounted projector							
with DALI adapter only for RZB 3-circuit DALI track 230 V							
Including lens for best uniformity of the light cone							
742019.00X.76	D 87, H 214	LED	830	1950	19	18	DALI
742020.00X.76	D 87, H 214	LED	830	1850	19	29	DALI
742021.00X.76	D 87, H 214	LED	830	1700	19	44	DALI
742019.00X.1.76	D 87, H 214	LED	840	2050	19	18	DALI
742020.00X.1.76	D 87, H 214	LED	840	1950	19	29	DALI
742021.00X.1.76	D 87, H 214	LED	840	1800	19	44	DALI
742025.00X.76	D 87, H 214	LED	830	2800	29	18	DALI
742026.00X.76	D 87, H 214	LED	830	2650	29	29	DALI
742027.00X.76	D 87, H 214	LED	830	2450	29	44	DALI
742025.00X.1.76	D 87, H 214	LED	840	2950	29	18	DALI
742026.00X.1.76	D 87, H 214	LED	840	2800	29	29	DALI
742027.00X.1.76	D 87, H 214	LED	840	2550	29	44	DALI
Including reflector for maximum efficiency							
742015.00X.76	D 87, H 214	LED	830	2300	19	17	DALI
742016.00X.76	D 87, H 214	LED	830	2150	19	32	DALI
742017.00X.76	D 87, H 214	LED	830	2350	19	62	DALI
742015.00X.1.76	D 87, H 214	LED	840	2450	19	17	DALI
742016.00X.1.76	D 87, H 214	LED	840	2250	19	32	DALI
742017.00X.1.76	D 87, H 214	LED	840	2450	19	62	DALI
742022.00X.76	D 87, H 214	LED	830	3350	29	17	DALI
742023.00X.76	D 87, H 214	LED	830	3050	29	32	DALI
742024.00X.76	D 87, H 214	LED	830	3350	29	62	DALI
742022.00X.1.76	D 87, H 214	LED	840	3500	29	17	DALI
742023.00X.1.76	D 87, H 214	LED	840	3200	29	32	DALI
742024.00X.1.76	D 87, H 214	LED	840	3500	29	62	DALI
Superspot version with small spot LED							
Including lens for best uniformity of the light cone							
742018.00X.76	D 87, H 214	LED	830	1850	20	14	DALI
742018.00X.1.76	D 87, H 214	LED	840	1900	20	14	DALI
Including reflector for maximum efficiency							
742014.00X.76	D 87, H 214	LED	830	2100	20	11	DALI
742014.00X.1.76	D 87, H 214	LED	840	2200	20	11	DALI
Versions with Ra > 90 colour rendition are also available in other light colours on request							



Comparison LED vs. conventional lamps

LED 19 / 20 W ≈

1 x 35 W HIT (45 W Psys)

LED 29 W ≈

1 x 50 W HIT (60 W Psys)

Diffuser			Price Category 21
982370.000	D 74, H 3	Safety glass clear	
982370.010	D 74, H 3	Safety glass, satin finish	



Decorative glasses			Price Category 21
982647.002	D 87, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock	
982648.002	D 87, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock	



Anti-glare honeycomb louvre			Price Category 21
982371.003	D 74, H 3	Honeycomb louvre Mini	

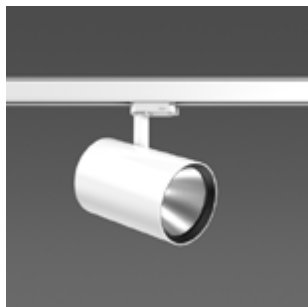


Interchangeable plastic rings			Price Category 21
982419.002	D 82, H 20	White plastic ring for reflector	
982421.002	D 82, H 31	White plastic ring for lens	



Interchangeable optics			Price Category 21
982368.003	D 82, H 55	Reflector, narrow beam 17°	
982368.013	D 82, H 55	Reflector, medium beam 32°	
982368.033	D 82, H 55	Reflector, wide beam 62°	
982369.003	D 82, H 55	Lens, narrow beam 18°	
982369.013	D 82, H 55	Lens, medium beam 29°	
982369.023	D 82, H 55	Lens, wide beam 44°	
982369.033	D 82, H 55	Lens, very wide beam 70°	
982369.043	D 82, H 55	Lens with oval light distribution for corridor 28°/40°	





Surface mounted projectors | Deecos S Maxi

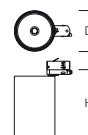
Type of Protection: IP 20

Protection Class: I

Impact Protection: IK06

Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°.
Heat resistant plastic ring black. With optical assembly MIRO-SILVER® reflector or polycarbonate lens. With multi-adaptor for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks.
Ceiling and wall installation.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured

Comparison
LED vs. conventional lamps

LED 20 / 24 W ≈

1 x 35 W HIT (45 W Psys)

LED 37 W ≈

1 x 50 W HIT (60 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	α [°]	dimmable
Surface mounted projector							
with multi adaptor for 3-circuit tracks 230 V							
Including lens for best uniformity of the light cone							
742005.00X	D 123, H 200	LED	830	2350	24	12	on/off
742006.00X	D 123, H 200	LED	830	2350	24	29	on/off
742007.00X	D 123, H 200	LED	830	2350	24	41	on/off
742005.00X.1	D 123, H 200	LED	840	2500	24	12	on/off
742006.00X.1	D 123, H 200	LED	840	2450	24	29	on/off
742007.00X.1	D 123, H 200	LED	840	2500	24	41	on/off
742011.00X	D 123, H 200	LED	830	3300	37	12	on/off
742012.00X	D 123, H 200	LED	830	3250	37	29	on/off
742013.00X	D 123, H 200	LED	830	3300	37	41	on/off
742011.00X.1	D 123, H 200	LED	840	3500	37	12	on/off
742012.00X.1	D 123, H 200	LED	840	3500	37	29	on/off
742013.00X.1	D 123, H 200	LED	840	3500	37	41	on/off
Including reflector for maximum efficiency							
742001.00X	D 123, H 200	LED	830	2850	24	10	on/off
742002.00X	D 123, H 200	LED	830	3000	24	20	on/off
742003.00X	D 123, H 200	LED	830	2900	24	34	on/off
742001.00X.1	D 123, H 200	LED	840	3000	24	10	on/off
742002.00X.1	D 123, H 200	LED	840	3150	24	20	on/off
742003.00X.1	D 123, H 200	LED	840	3050	24	34	on/off
742008.00X	D 123, H 200	LED	830	4000	37	10	on/off
742009.00X	D 123, H 200	LED	830	4200	37	20	on/off
742010.00X	D 123, H 200	LED	830	4050	37	34	on/off
742008.00X.1	D 123, H 200	LED	840	4200	37	10	on/off
742009.00X.1	D 123, H 200	LED	840	4400	37	20	on/off
742010.00X.1	D 123, H 200	LED	840	4250	37	34	on/off
Superspot version with small spot LED							
Including lens for best uniformity of the light cone							
742004.00X	D 123, H 200	LED	830	1750	20	10	on/off
742004.00X.1	D 123, H 200	LED	840	1800	20	10	on/off
Including reflector for maximum efficiency							
742000.00X	D 123, H 200	LED	830	2050	20	7	on/off
742000.00X.1	D 123, H 200	LED	840	2150	20	7	on/off

Versions with Ra > 90 colour rendition are also available in other light colours on request



Fig. with reflector

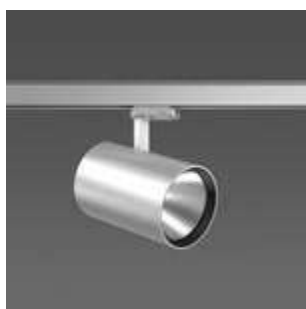


Fig. with lens



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	dimmable
Surface mounted projector							
with DALI adapter only for RZB 3-circuit DALI track 230 V							
Including lens for best uniformity of the light cone							
742005.00X.76	D 123, H 200	LED	830	2350	24	12	DALI
742006.00X.76	D 123, H 200	LED	830	2350	24	29	DALI
742007.00X.76	D 123, H 200	LED	830	2350	24	41	DALI
742005.00X.1.76	D 123, H 200	LED	840	2500	24	12	DALI
742006.00X.1.76	D 123, H 200	LED	840	2450	24	29	DALI
742007.00X.1.76	D 123, H 200	LED	840	2500	24	41	DALI
742011.00X.76	D 123, H 200	LED	830	3300	37	12	DALI
742012.00X.76	D 123, H 200	LED	830	3250	37	29	DALI
742013.00X.76	D 123, H 200	LED	830	3300	37	41	DALI
742011.00X.1.76	D 123, H 200	LED	840	3500	37	12	DALI
742012.00X.1.76	D 123, H 200	LED	840	3500	37	29	DALI
742013.00X.1.76	D 123, H 200	LED	840	3500	37	41	DALI
Including reflector for maximum efficiency							
742001.00X.76	D 123, H 200	LED	830	2850	24	10	DALI
742002.00X.76	D 123, H 200	LED	830	3000	24	20	DALI
742003.00X.76	D 123, H 200	LED	830	2900	24	34	DALI
742001.00X.1.76	D 123, H 200	LED	840	3000	24	10	DALI
742002.00X.1.76	D 123, H 200	LED	840	3150	24	20	DALI
742003.00X.1.76	D 123, H 200	LED	840	3050	24	34	DALI
742008.00X.76	D 123, H 200	LED	830	4000	37	10	DALI
742009.00X.76	D 123, H 200	LED	830	4200	37	20	DALI
742010.00X.76	D 123, H 200	LED	830	4050	37	34	DALI
742008.00X.1.76	D 123, H 200	LED	840	4200	37	10	DALI
742009.00X.1.76	D 123, H 200	LED	840	4400	37	20	DALI
742010.00X.1.76	D 123, H 200	LED	840	4250	37	34	DALI
Superspot version with small spot LED							
Including lens for best uniformity of the light cone							
742004.00X.76	D 123, H 200	LED	830	1750	20	10	DALI
742004.00X.1.76	D 123, H 200	LED	840	1800	20	10	DALI
Including reflector for maximum efficiency							
742000.00X.76	D 123, H 200	LED	830	2050	20	7	DALI
742000.00X.1.76	D 123, H 200	LED	840	2150	20	7	DALI
Versions with Ra > 90 colour rendition are also available in other light colours on request							



**Comparison
LED vs. conventional lamps**

LED 20 / 24 W ≈
1 x 35 W HIT (45 W Psys)

LED 37 W ≈
1 x 50 W HIT (60 W Psys)

Diffuser			Price Category 21
982374.000	D 111, H 3	Safety glass clear	
982374.010	D 111, H 3	Safety glass, satin finish	



Decorative glasses			Price Category 21
982649.002	D 123, H 41	Diffuser: mouth-blown opal glass, satin finish with bayonet lock	
982650.002	D 123, H 76	Diffuser: mouth-blown opal glass, satin finish with bayonet lock	



Anti-glare honeycomb louvre			Price Category 21
982375.003	D 111, H 3	Maxi honeycomb louvre	



Interchangeable plastic rings			Price Category 21
982420.002	D 118, H 20	White plastic ring for reflector	
982422.002	D 118, H 33	White plastic ring for lens	



Interchangeable optics			Price Category 21
982372.003	D 118, H 83	Reflector, narrow beam 10°	
982372.013	D 118, H 83	Reflector, medium beam 20°	
982372.023	D 118, H 83	Reflector, wide beam 34°	
982372.033	D 118, H 83	Reflector, very wide beam 63°	
982373.003	D 118, H 83	Lens, narrow beam 12°	
982373.013	D 118, H 83	Lens, medium beam 29°	
982373.023	D 118, H 83	Lens, wide beam 41°	

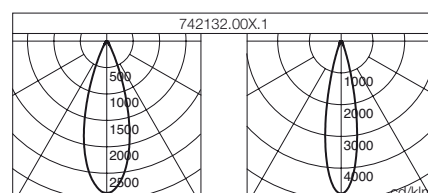
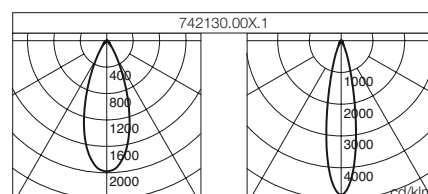
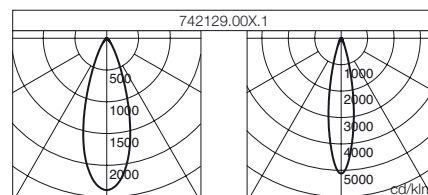




CALIDO® CLICKBEAM

Surface mounted projectors

- Flexibility by Clickbeam
- Special polycarbonate lens suitable for different beam angles (medium, wide)
- Adjustable lens position through push mechanism to adjust the beam angle
- Modern design: cylindrical shape with no visible cooling fins
- Mini version features particularly compact dimensions
- Converter integrated in the tube
- Hybrid optical system with lens and reflector for homogeneous light distribution
- Black front ring to prevent glare from the side
- LED rated life:
Midi/Maxi 50,000 h (L70/B50);
Mini 25,000 h (L70/B50), 3-year warranty
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Excellent value for money
- The following accessories can be mounted without use of tools: honeycomb louvre



Surface mounted projectors | Calido Clickbeam Mini

Type of Protection: IP 20

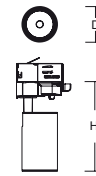
Protection Class: II

Impact Protection: IK03

Housing: extruded aluminium profile, powder-coated. Cover and lever arm made of plastic.

Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. Special polycarbonate lens suitable for different beam angles. Adjustable lens position by means of push mechanism to adjust the beam angle. With multi adaptor for 3-circuit tracks 230 V. Ceiling mounting.

Available colours (X): 2 = white, 3 = black



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	Beam angle [°]	dim-able
Surface mounted projector							Price Category 21
with multi adaptor for 3-circuit tracks 230 V							
742129.00X	D 50, H 132	LED	828	1000/1150	12/12	21/34 Clickbeam	on/off
742129.00X.1	D 50, H 132	LED	840	1250/1300	12/12	21/34 Clickbeam	on/off

Anti-glare honeycomb louvre							Price Category 21
982448.003	D 47, H 4	Anti-glare honeycomb louvre Calido Mini					



Surface mounted projectors | Calido Clickbeam Midi

Type of Protection: IP 20

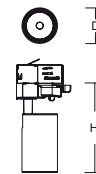
Protection Class: II

Impact Protection: IK03

Housing: extruded aluminium profile, powder-coated. Cover and lever arm made of plastic.

Rotation range: 356°. Swivel range: 90°. Heat resistant plastic ring black. Special polycarbonate lens suitable for different beam angles. Adjustable lens position by means of push mechanism to adjust the beam angle. With multi adaptor for 3-circuit tracks 230 V. Ceiling mounting.

Available colours (X): 2 = white, 3 = black



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	Beam angle [°]	dim-able
Surface mounted projector							Price Category 21
with multi adaptor for 3-circuit tracks 230 V							
742130.00X	D 65, H 164	LED	830	1900/1950	25/25	22/38 Clickbeam	on/off
742130.00X.1	D 65, H 164	LED	840	1950/2000	25/25	22/38 Clickbeam	on/off

Anti-glare honeycomb louvre							Price Category 21
982544.003	D 55, H 4	Anti-glare honeycomb louvre Calido Midi					



Surface mounted projectors | Calido Clickbeam Maxi

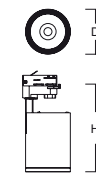
Type of Protection: IP 20

Protection Class: II

Impact Protection: IK03

Housing: die-cast aluminium, powder-coated. Rotation range: 356°. Swivel range: 90°. Front ring die-cast aluminium black. Hybrid optical system with polycarbonate lens and reflector in faceted aluminium. Special polycarbonate lens suitable for different beam angles. Adjustable lens position by means of push mechanism to adjust the beam angle. With multi adaptor for 3-circuit tracks 230 V. Ceiling mounting.

Available colours (X): 2 = white, 3 = black



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	Beam angle [°]	dim-able
Surface mounted projector							Price Category 21
with multi adaptor for 3-circuit tracks 230 V							
742131.00X	D 110, H 215	LED	830	3500/3700	38/38	23/38 Clickbeam	on/off
742131.00X.1	D 110, H 215	LED	840	3650/3900	38/38	23/38 Clickbeam	on/off
742132.00X	D 110, H 215	LED	830	5400/5700	50/50	23/38 Clickbeam	on/off
742132.00X.1	D 110, H 215	LED	840	5650/6000	50/50	23/38 Clickbeam	on/off

Anti-glare honeycomb louvre							Price Category 21
982405.003	D 90, H 8	Anti-glare honeycomb louvre Calido Maxi					



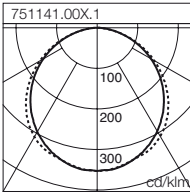


TRIADE LED

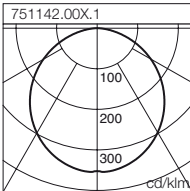
Surface mounted projectors

- LED spotlight for surface / track mounting in geometrical design for indoor applications
- For general and wall lighting
- Energy savings up to 58% compared to fluorescent lamps
- Swivel range: 90°
- Diffuser made of UV stabilised opal polycarbonate - for uniform and soft light distribution
- High quality housing made of extruded aluminium profile, powder coated
- LED rated life 50,000 h (L70/B10)
- Colour consistency within 4-steps MacAdam (4 SDCM)
- Track mounting for high flexibility
- Available in two sizes and wattages
- With multi adapter for 3-circuit tracks or with adapter for 3-circuit DALI tracks
- With integrated converter

751141.00X.1		
h [m]	Ø [m]	E [lx]
1,0	1,92 / 2,27	1106
2,0	3,84 / 4,54	277
3,0	5,75 / 6,81	123
4,0	7,67 / 9,07	69
5,0	9,59 / 11,34	44



751142.00X.1		
h [m]	Ø [m]	E [lx]
1,0	1,91 / 2,33	1912
2,0	3,82 / 4,65	478
3,0	5,73 / 6,98	212
4,0	7,65 / 9,30	119
5,0	9,56 / 11,63	76



Surface mounted projectors | Triade LED

Type of Protection: IP 20

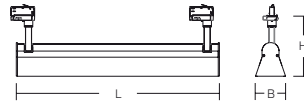
Protection Class: I


Impact Protection: IK02

Housing: extruded aluminium profile, powder-coated. Vertical swivel range: 90°.

Diffuser: plastic (polycarbonate), opal. Integral driver. With multi-adapter for 3-circuit tracks or with adapter for RZB 3-circuit DALI tracks. Ceiling mounting.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	dimmable
Surface mounted projector							
with multi adaptor for 3-circuit tracks 230 V							
751141.00X	L 600, B 89, H 178	LED	830	3050	36	90/98	on/off
751141.00X.1	L 600, B 89, H 178	LED	840	3100	36	88/97	on/off
751142.00X	L 1160, B 89, H 178	LED	830	5250	60	90/99	on/off
751142.00X.1	L 1160, B 89, H 178	LED	840	5400	60	87/99	on/off
with DALI adapter only for RZB 3-circuit DALI track 230 V							
751141.00X.76	L 600, B 89, H 178	LED	830	3050	36	90/98	DALI
751141.00X.1.76	L 600, B 89, H 178	LED	840	3100	36	88/97	DALI
751142.00X.76	L 1160, B 89, H 178	LED	830	5250	60	90/99	DALI
751142.00X.1.76	L 1160, B 89, H 178	LED	840	5400	60	87/99	DALI

Price Category 21

Comparison LED vs. conventional lamps

LED 36 W ≈

2 x 36 W TC-L (86 W Psys)

LED 60 W ≈

2 x 58 W T26 (134 W Psys)





The application image shows:
Tarek S
3-circuit DALI track

© Linus Linthner



3-circuit tracks
450-459

3-circuit DALI tracks
460-467

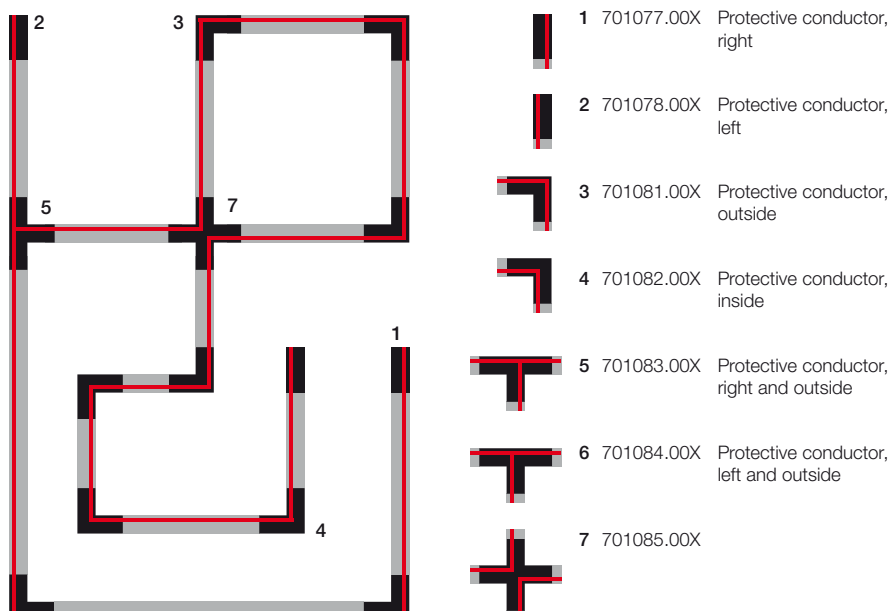


3-CIRCUIT TRACKS

Tracks

- Aluminium extrusion profile tracks for the most flexible mounting options of spotlights
- 3-circuit tracks with three electrical circuits that can be switched separately
- Tracks can be cut easily by sawing them off without additional work steps
- Large range of accessories for flexible design of the track system
- Recessed and surface-mounted versions available
- Approved for use within hand's reach

Planning example for surface-mounted 3-circuit tracks
(View from below of the ceiling-mounted system.)



Tracks | 3-circuit tracks

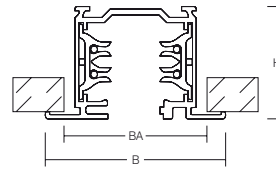
Type of Protection: IP 20

Protection Class: I

Aluminium extrusion profile, painted. Tracks can be cut to any required length. May be used within hand's reach.

Voltage: 250 V~ or 3-Circuit current 230/400 V max. 16 A

Available colours (X): 2 = white, 3 = black, 4 = aluminium, anodised



Reference number	Dimensions [mm]
------------------	-----------------

Recessed tracks,

Ceiling cut out width (BA) 42 mm

Price Category 21

Length 1000 mm, mounting holes at 100; 880 mm

701067.00X	L 1000, B 53, H 33
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Length 2000 mm, mounting holes at 100; 990; 1,880 mm

701068.00X	L 2000, B 53, H 33
------------	--------------------

Length 3000 mm, mounting holes at 100; 990; 1,990; 2,880 mm

701069.00X	L 3000, B 53, H 33
------------	--------------------

Length 4000 mm, mounting holes at 100; 990; 1,990; 2,990; 3,875 mm

701070.00X	L 4000, B 53, H 33
------------	--------------------

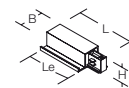
Live end feed for 3-circuit tracks

Protection Class: I

Plastic

Suitable for recessed tracks (track wings).

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 80 mm

Price Category 21

Protective conductor, left

701089.00X	L 119, B 53, H 33
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Protective conductor, right

701088.00X	L 119, B 53, H 33
------------	-------------------

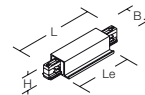
Alternative live feed for 3-circuit tracks

Protection Class: I

Plastic

Suitable for recessed tracks (track wings).

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 120 mm

Price Category 21

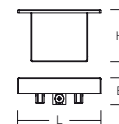
701090.00X	L 198, B 53, H 33
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End cap for 3-circuit tracks

Plastic

Suitable for recessed tracks (track wings).

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 3 mm

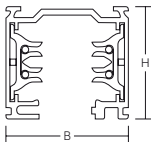
Price Category 21

701121.00X	L 53, B 19, H 33
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Tracks | 3-circuit tracks

Type of Protection: IP 20
Protection Class: I
Aluminium extrusion profile, painted. Tracks can be cut to any required length.
May be used within hand's reach.
Voltage: 250 V~ or 3-Circuit current 230/400 V max. 16 A
Available colours (X): 2 = white, 3 = black, 4 = aluminium, anodised



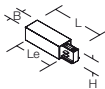
Reference number	Dimensions [mm]
------------------	-----------------

Surface mounted tracks		Price Category 21
Length 1000 mm, mounting holes at 100; 880 mm		
701063.00X	L 1000, B 36, H 33	
Length 2000 mm, mounting holes at 100; 990; 1,880 mm		
701064.00X	L 2000, B 36, H 33	
Length 3000 mm, mounting holes at 100; 990; 1,990; 2,880 mm		
701065.00X	L 3000, B 36, H 33	
Length 4000 mm, mounting holes at 100; 990; 1,990; 2,990; 3,870 mm		
701066.00X	L 4000, B 36, H 33	



Live end feed for 3-circuit tracks

Protection Class: I
Plastic
Suitable for surface-mounted tracks.
Available colours (X): 2 = white, 3 = black, 4 = silver coloured



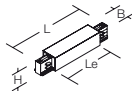
Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 80 mm		Price Category 21
Protective conductor, left		
701078.00X	L 119, B 37, H 33	
Protective conductor, right		
701077.00X	L 119, B 37, H 33	



Alternative live feed for 3-circuit tracks

Protection Class: I
Plastic
Suitable for surface-mounted tracks.
Available colours (X): 2 = white, 3 = black, 4 = silver coloured



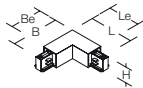
Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 120 mm		Price Category 21
701079.00X	L 198, B 37, H 33	



90° angle coupling for 3-circuit tracks

Protection Class: I
Plastic, with live feed
Suitable for surface-mounted tracks.
Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 80 mm, Be 80 mm		Price Category 21
Protective conductor, outside		
701081.00X	L 117, B 117, H 33	
Protective conductor, inside		
701082.00X	L 117, B 117, H 33	

PE conductor position can be changed on site, as required.

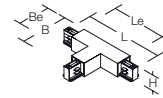
T-coupling for 3-circuit tracks

Protection Class: I

Plastic, with live feed

Suitable for surface-mounted tracks.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number

Dimensions [mm]

Recessed length (Le): 120 mm, Be 80 mm

Price Category 21

Protective conductor, left and outside

701084.00X L 198, B 117, H 33

Protective conductor, right and outside

701083.00X L 198, B 117, H 33

PE conductor position can be changed on site, as required.

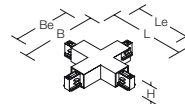
Cross coupling for 3-circuit tracks

Protection Class: I

Plastic, with live feed

Suitable for surface-mounted tracks.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number

Dimensions [mm]

Recessed length (Le): 120 mm, Be 120 mm

Price Category 21

701085.00X L 198, B 198, H 33

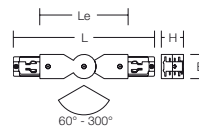
Joint coupling for 3-circuit tracks

Protection Class: I

Plastic. Swivel range: $\pm 120^\circ$ (from 60° to 300°), stepless.

Suitable for surface-mounted tracks.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number

Dimensions [mm]

Recessed length (Le): 130 mm

Price Category 21

701092.00X L 208, B 36, H 33

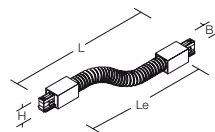
Flexible coupling for 3-circuit tracks

Protection Class: I

Plastic. Rotation and swivel range: $\pm 180^\circ$, horizontal and vertical, stepless.

Suitable for surface-mounted tracks.

Available colours (X): 2 = white, 3 = black



Reference number

Dimensions [mm]

Recessed length (Le): 300 mm

Price Category 21

701086.00X L 390, B 37, H 33

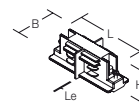
Electric coupling, straight, for 3-circuit tracks

Protection Class: I

Plastic, gapless

Coupling for electrical and mechanical connection.

Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number

Dimensions [mm]

Recessed length (Le): 2 mm

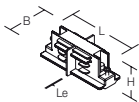
Price Category 21

701071.00X L 81, B 37, H 32



Mechanical coupling, straight, for 3-circuit tracks

Plastic, gapless
Mechanical coupling for electrical isolation.
Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]
Recessed length (Le): 2 mm	
701080.00X	L 81, B 37, H 32

Price Category 21



End cap for 3-circuit tracks

Plastic
Available colours (X): 2 = white, 3 = black, 4 = silver coloured



Reference number	Dimensions [mm]
Recessed length (Le): 3 mm	
701087.00X	L 36, B 10, H 33

Price Category 21



Suspension kit for 3-circuit tracks

Suspension Length: 100-5000 mm
Suspension set with clamps for track mounting; max. 160 N [16 kg]. Steel cable Ø 1.2 mm; pendant length: 5 m; can be shortened with quick adjustment system, ceiling mounting material included. A distance of 1.5 m between two suspensions is recommended.
Available colours (X): 2 = white, 3 = black, 4 = stainless steel



Reference number	Dimensions [mm]
Suspension kit for 3-circuit tracks	
01-8524.15X	D 12, LP 100-5000

Price Category 21



Cable suspension for 3-circuit tracks

Suspension Length: 100-2000 mm
Ceiling mounting, with canopy and M6 screw. Max. 200 N [20 kg], pendant length: 1.5 m, can be shortened. The wire rope clip is fixed to the canopy, the quick adjustment system is mounted to the track. A distance of 1.5 m between two suspensions is recommended.
Available colours (X): 2 = white, 3 = black



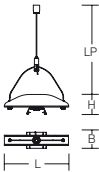
Reference number	Dimensions [mm]
Cable suspension for 3-circuit tracks	
701073.00X	D 41, LP 100-2000

Price Category 21



Suspension kit with traverse for 3-circuit tracks

Suspension Length: 230-5000 mm
Wire rope set with cross traverse and bracket for tracks (avoids twisting in case of asymmetrical loads). Max. 160 N [16 kg]. Steel cable Ø 1.2 mm; pendant length: 5 m; can be shortened with quick adjustment system, ceiling mounting material included. A distance of approx. 1.5 m between two clamps is recommended.
Available colours (X): 0 = blank, 2 = white, 3 = black

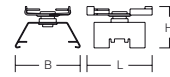


Reference number	Dimensions [mm]
Suspension kit with traverse for 3-circuit tracks	
701096.00X	L 120, B 19, H 24, LP 230-5000

Price Category 21

Clamp unit for grid ceilings

Clamp unit for tracks: 24 mm white with clamp for tracks.
A distance of approx. 1.5 m between two clamps is recommended.
Available colours: 0 = stainless steel, 2 = white, 3 = black



Reference number	Dimensions [mm]
------------------	-----------------

Clamp unit for grid ceilings

Price Category 21

981986.002	L 38, B 28, H 21
981986.003	L 38, B 28, H 21
981986.100	L 38, B 28, H 21

Ceiling mount for 3-circuit tracks

Aluminium, raw. A distance of 1.5 m between two suspensions is recommended.



Reference number	Dimensions [mm]
------------------	-----------------

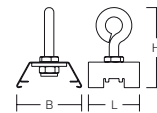
Ceiling mount for 3-circuit tracks

Price Category 21

701074.000	L 30, B 34, H 15
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Clip with eye ring

Clamp fastening system for tracks, with M6 eye ring.
A distance of 1.5 m between two suspensions is recommended.
Available colour: 0 = stainless steel



Reference number	Dimensions [mm]
------------------	-----------------

Clip with eye ring

Price Category 21

701094.000	L 30, B 37, H 42
------------	------------------

Hanging clamp for 3-circuit tracks

Metal, galvanised. A distance of 1.5 m between two suspensions is recommended.
Available colour: 4 = silver coloured



Reference number	Dimensions [mm]
------------------	-----------------

Hanging clamp for 3-circuit tracks

Price Category 21

701091.004	L 24, B 32, H 38
------------	------------------

Mechanical connection plate for 3-circuit tracks

Aluminium, raw. 4 thread M5.
Available colour: 4 = silver coloured



Reference number	Dimensions [mm]
------------------	-----------------

Mechanical connection plate for 3-circuit tracks

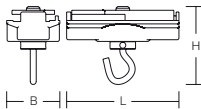
Price Category 21

701072.004	L 120, B 30, H 17
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Decorative hook for 3-circuit tracks

Aluminium, painted, track-mounting. F max. 100 N [10 kg].
Available colours (X): 2 = white, 3 = black, 4 = silver coloured



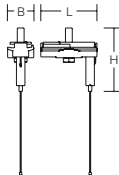
Reference number	Dimensions [mm]
Recessed height (He): 37 mm	
701076.00X	L 66, B 32, H 38

Price Category 21



Mechanical adaptor with steel cable quick mount for 3-circuit tracks

Aluminium, painted; track mounting; mechanical adaptor for easy installation of steel cable D 1.2 mm. 2 m steel cable included, F max. 100 N [10 kg].
Available colours (X): 2 = white, 3 = black, 4 = silver coloured



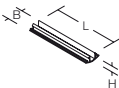
Reference number	Dimensions [mm]
Mechanical adaptor with steel cable quick mount for 3-circuit tracks	
701093.00X	L 66, B 32, H 75

Price Category 21



Cover for 3-circuit tracks

Plastic track cover, length: 1 m, can be shortened as required.
Available colours (X): 2 = white, 3 = black



Reference number	Dimensions [mm]
Cover for 3-circuit tracks	
701075.00X	L 1000, B 18, H 10

Price Category 21



Multi adaptor with Schukoplug socket for 3-circuit tracks

Protection Class: I
Multi adaptor for 3-circuit tracks of all known brands, plastic, max. 10 A / 250 V ~.
Rotatable circuit selector with circuit breaker and mechanical lock; with Schukoplug socket; only for lighting or lighting accessories.
Available colour: 2 = white

Reference number	Dimensions [mm]
Multi adaptor with Schukoplug socket for 3-circuit tracks	
70316.002	L 90, B 57, H 73

Price Category 21

Multi adaptor for 3-circuit tracks

Protection Class: I

For all known brands. Plastic. max. 6 A/250 V~, F max. 50 N [5 kg].
Rotatable circuit selector with circuit breaker and mechanical lock.

Available colours (X): 2 = white, 3 = black, 9 = grey

Reference number	Dimensions [mm]
------------------	-----------------

Recessed height (He): 19 mm

Price Category 21

701035.00X	L 70, B 35, H 51
------------	------------------



Multi adaptor for 3-circuit tracks

Protection Class: I

Multi adaptor for 3-circuit tracks for all known brands. Plastic. max. 10 A/250 V~, F max. 100 N [10 kg]. Rotatable circuit selector with circuit breaker and mechanical lock.

Available colours (X): 2 = white, 3 = black, 9 = grey

Reference number	Dimensions [mm]
------------------	-----------------

Recessed height (He): 33 mm

Price Category 21

70318.00X	L 85, B 32, H 63
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Aluminium holder for multi adaptor

With M10x1 thread. Thread length: 12 mm

Available colours: aluminium, black

Reference number	Dimensions [mm]
------------------	-----------------

Aluminium holder for multi adaptor

Price Category 21

70349	D 27, H 19	aluminium
70349.003	D 27, H 19	black



Strain relief for multi adaptor and 3-phase DALI adaptor

Plastic

Available colours (X): 2 = white, 3 = black

Reference number	Dimensions [mm]
------------------	-----------------

Recessed height (He): 30 mm

Price Category 21

70875.00X	D 26, H 33
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Point outlet for 3-circuit multi adaptor

Type of Protection: IP 20
Protection Class: I
Housing: plastic. Cable inlets: break-off (one inlet on the side, three on the back).
250 V/10 A, F max. 50 N [5 kg].
Available colours (X): 2 = white, 3 = black, 9 = grey

Reference number	Dimensions [mm]
------------------	-----------------

Surface mounted point outlet	Price Category 21
70319.00X	D 100, H 32



Recessed socket for point outlet

Type of Protection: IP 20
Protection Class: I
Housing: plastic.
Available colours (X): 2 = white, 3 = black, 9 = grey

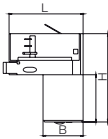
Reference number	Dimensions [mm]
------------------	-----------------

Recessed socket	Price Category 21
Ceiling cut out DA 105 mm, TE 60 mm	
70360.00X	D 130, H 60, HE 60



Light and presence sensor

Type of Protection: IP 20
Protection Class: I
Casambi smart+free Bluetooth® sensor for wireless control of Casambi smart+free luminaires.
Intelligent presence control and brightness sensors. Housing: plastic. With multi adaptor for 3-circuit tracks 230 V.
Available colours (X): 2 = white, 3 = black



Reference number	Dimensions [mm]
------------------	-----------------

Light and presence sensor with multi adaptor for 230 V 3-circuit tracks.	Price Category 21
701122.00X.19	L 72, B 39, H 86



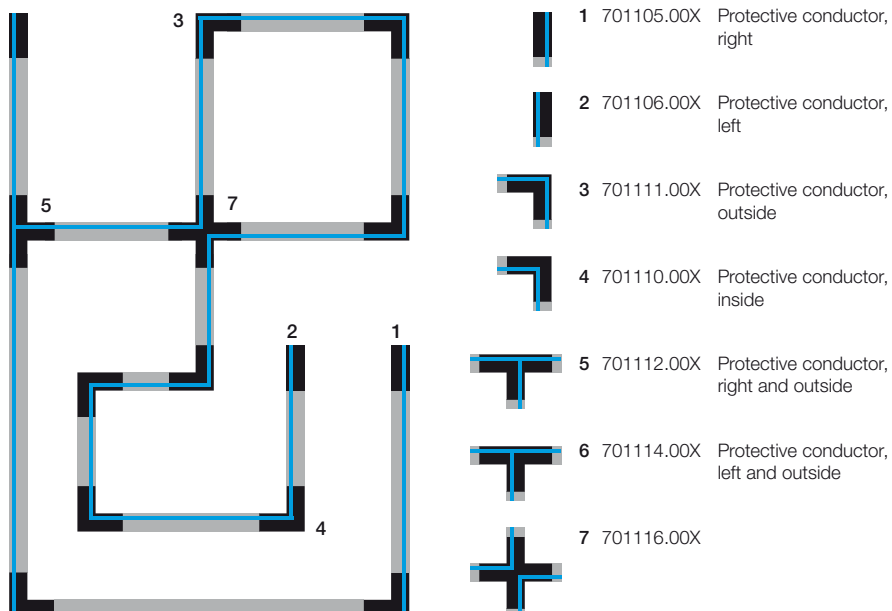


3-CIRCUIT DALI TRACKS

Tracks

- 3-circuit track with integral DALI bus
- 3-circuit track system for track mounted DALI spot-lights with additional data-bus function for energy savings and dynamic lighting
- Huge variety of accessories for most flexible track layouts
- Recessed and surface-mounted versions available
- Suitable also for standard 3-circuit adaptors

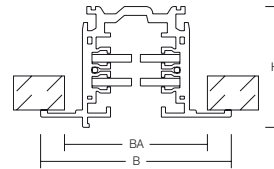
Planning example for surface-mounted 3-circuit DALI tracks
(View from below of the ceiling-mounted system.)



Tracks | Recessed 3-circuit DALI tracks

Type of Protection: IP 20
Protection Class: I

Aluminium extrusion profile, painted. Tracks can be cut to any required length.
May be used within hand's reach. Integral added twin-pole DALI bus leads.
Power supply conductors 16 A / 400 V. DALI bus conductors 2x1 A / 50 V AC.
Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
------------------	-----------------

Recessed tracks (track wings)

Price Category 21

Ceiling cut out width (BA) 42 mm

Length 1000 mm, mounting holes at 250, 750 mm

701101.00X	L 1000, B 56, H 36
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Length 2000 mm, mounting holes at 250, 1000, 1750 mm

701102.00X	L 2000, B 56, H 36
------------	--------------------

Length 3000 mm, mounting holes at 250, 1000, 2000, 2750 mm

701103.00X	L 3000, B 56, H 36
------------	--------------------

Length 4000 mm, mounting holes at 250, 1500, 2500, 3750 mm

701104.00X	L 4000, B 56, H 36
------------	--------------------

Cover for recessed 3-circuit DALI tracks (DALI track wings)

Plastic, for live end feed and alternative live feed (break-off point for universal use).

Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
------------------	-----------------

Cover for recessed 3-circuit DALI tracks (DALI track wings)

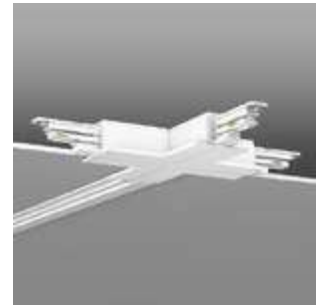
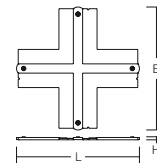
Price Category 21

701117.00X	L 181, B 56, H 4
------------	------------------

Cover for recessed 3-circuit DALI tracks (DALI track wings)

Plastic, for angled, cross and T couplings (break-off point for universal use)

Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
------------------	-----------------

Cover for recessed 3-circuit DALI tracks (DALI track wings)

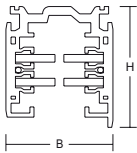
Price Category 21

701118.00X	L 181, B 181, H 4
------------	-------------------



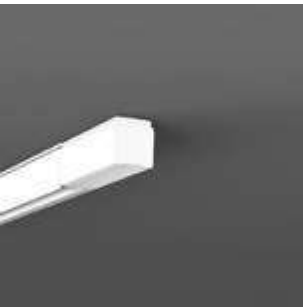
Tracks | 3-circuit DALI tracks

Type of Protection: IP 20
Protection Class: I
Aluminium extrusion profile, painted. Tracks can be cut to any required length.
Approved for use within hand's reach. Integral added twin-pole DALI bus leads.
Power supply conductors 16 A / 400 V. DALI bus conductors 2 x 1 A / 50 V FELV AC.
Available colours (X): 2 = white, 3 = black, 9 = grey



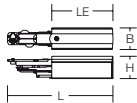
Reference number	Dimensions [mm]
------------------	-----------------

Surface mounted tracks		Price Category 21
Length 1000 mm, mounting holes at 250, 750 mm		
701097.00X	L 1000, B 32, H 36	
Length 2000 mm, mounting holes at 250, 1000, 1750 mm		
701098.00X	L 2000, B 32, H 36	
Length 3000 mm, mounting holes at 250, 1000, 2000, 2750 mm		
701099.00X	L 3000, B 32, H 36	
Length 4000 mm, mounting holes at 250, 1500, 2500, 3750 mm		
701100.00X	L 4000, B 32, H 36	



Live end feed for 3-circuit DALI tracks

Type of Protection: IP 20
Protection Class: I
Plastic
Available colours (X): 2 = white, 3 = black, 9 = grey



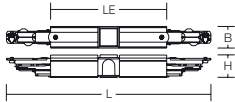
Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 90 mm		Price Category 21
Protective conductor, left		
701106.00X	L 155, B 32, H 33	
Protective conductor, right		
701105.00X	L 155, B 32, H 33	



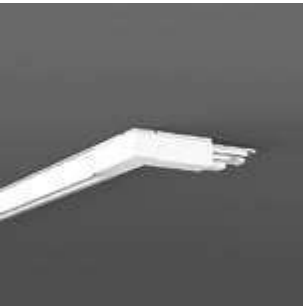
Alternative live feed for 3-circuit DALI tracks

Type of Protection: IP 20
Protection Class: I
Plastic
Available colours (X): 2 = white, 3 = black, 9 = grey



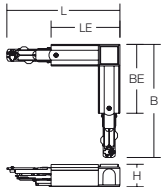
Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 170 mm		Price Category 21
701107.00X	L 305, B 32, H 33	



90° angle coupling for 3-circuit DALI tracks

Type of Protection: IP 20
Protection Class: I
Plastic, with live feed
Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 100 mm, Be 100 mm		Price Category 21
Protective conductor, outside		
701111.00X	L 165, B 165, H 33	
Protective conductor, inside		
701110.00X	L 165, B 165, H 33	

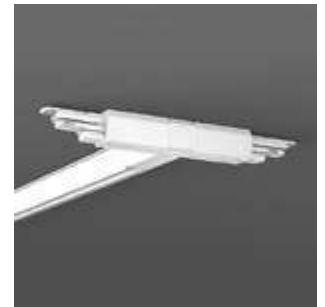
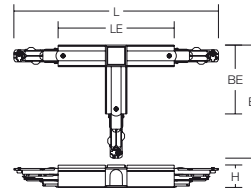
T-coupling for 3-circuit DALI tracks

Type of Protection: IP 20

Protection Class: I

Plastic, with live feed

Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 170 mm, Be 100 mm

Price Category 21

Protective conductor, left and outside

701114.00X L 305, B 165, H 33

Protective conductor, left and inside

701113.00X L 305, B 165, H 33

Protective conductor, right and outside

701112.00X L 305, B 165, H 33

Protective conductor, right and inside

701115.00X L 305, B 165, H 33

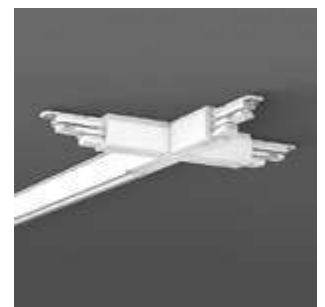
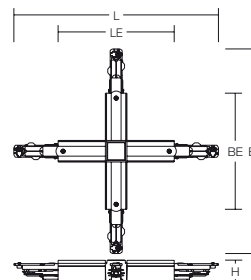
Cross coupling for 3-circuit DALI tracks

Type of Protection: IP 20

Protection Class: I

Plastic, with live feed

Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 170 mm, Be 170 mm

Price Category 21

701116.00X L 305, B 305, H 33

Electric coupling, straight, for 3-circuit DALI tracks

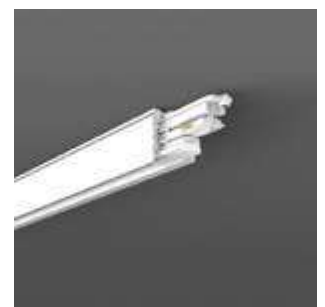
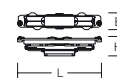
Type of Protection: IP 20

Protection Class: I

Plastic, gapless

Coupling for electrical and mechanical connection.

Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 0 mm

Price Category 21

701108.00X L 85, B 20, H 26

Flexible coupling for 3-circuit DALI tracks

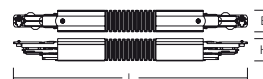
Type of Protection: IP 20

Protection Class: I

Plastic. Rotation and swivel range: $\pm 180^\circ$, horizontal and vertical, infinite.

Suitable for surface-mounted tracks.

Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 215 mm

Price Category 21

701109.00X L 340, B 32, H 33

**End cap for 3-circuit DALI tracks**

Plastic

Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
------------------	-----------------

Recessed length (Le): 3 mm

70337.00X	L 35, B 32, H 32
-----------	------------------

Price Category 21**Suspension kit for 3-circuit DALI tracks**

Suspension Length: 100-5000 mm

Suspension set with clamps for DALI-track mounting. Max. 160 N [16 kg]. Steel cable Ø 1.2 mm; pendant length: 5 m; can be shortened with quick adjustment system, ceiling mounting material included.

A distance of approx. 1.5 m between two clamps is recommended.

Available colours (X): 2 = white, 3 = black, 4 = stainless steel



Reference number	Dimensions [mm]
------------------	-----------------

Suspension kit for 3-circuit DALI tracks

01-8524.13X	D 12, LP 100-5000
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Price Category 21**Suspension cable with cross-beam for 3-phase DALI busbars**

Suspension Length: 230-5000 mm

Wire rope set with cross traverse and bracket for tracks (avoids twisting in case of asymmetrical loads). Max. 160 N [16 kg]. Steel cable Ø 1.2 mm; pendant length: 5 m; can be shortened with quick adjustment system, ceiling mounting material included.

A distance of approx. 1.5 m between two clamps is recommended.

Available colours (X): 0 = blank, 2 = white, 3 = black



Reference number	Dimensions [mm]
------------------	-----------------

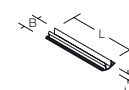
Suspension cable with cross-beam for 3-phase DALI busbars

701096.01X	L 120, B 19, H 24, LP 230-5000
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Price Category 21**Cover for RZB 3-circuit DALI tracks**

Plastic track cover, length: 1 m, can be shortened as required.

Available colours (X): 2 = white, 3 = black



Reference number	Dimensions [mm]
------------------	-----------------

Cover for 3-circuit tracks

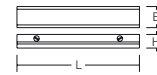
701075.00X	L 1000, B 18, H 10
------------	--------------------

Price Category 21

Mechanical connection plate for 3-circuit DALI tracks

Aluminium, raw. 4 thread M5.

Available colours (X): 2 = white, 4 = aluminium



Reference number	Dimensions [mm]
------------------	-----------------

Mechanical connection plate for 3-circuit DALI tracks

Price Category 21

70354.00X	L 182, B 31, H 20
-----------	-------------------

Ceiling mount for 3-circuit DALI tracks

Aluminium, raw. A distance of 1.5 m between two suspensions is recommended.

Available colours (X): 2 = white, 3 = black, 4 = aluminium



Reference number	Dimensions [mm]
------------------	-----------------

Ceiling mount for 3-circuit DALI tracks

Price Category 21

70594.00X	L 30, B 32, H 13
-----------	------------------

Hanging clamp for 3-circuit DALI tracks

Metal, galvanised. A distance of 1.5 m between two suspensions is recommended.

Available colours (X): 2 = white, 4 = aluminium



Reference number	Dimensions [mm]
------------------	-----------------

Hanging clamp for 3-circuit DALI tracks

Price Category 21

70351.00X	L 25, B 31, H 39
-----------	------------------

Decorative hook for 3-circuit DALI tracks

White plastic, painted, track-mounting F max. 100 N [10 kg].

Available colour: white



Reference number	Dimensions [mm]
------------------	-----------------

Recessed height (He): 37 mm

Price Category 21

70382.000	D 26, H 60
-----------	------------



Bending tool for 3-circuit DALI tracks

The ends of the copper conductor must be bent inwards when cutting tracks on site in order to ensure an electrical connection.

Available colour: blue

Reference number	Dimensions [mm]
------------------	-----------------

Bending tool for 3-circuit DALI tracks

70348.000	L 133, B 22, H 14
-----------	-------------------

Price Category 21

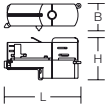


3-phase DALI adaptor

Protection Class: I

Plastic, max. 10 A/250 V~, F max. 100 N [10 kg].
Selector with circuit breaker and mechanical lock.
Only for RZB 3-circuit DALI track

Available colours (X): 2 = white, 3 = black, 9 = grey



Reference number	Dimensions [mm]
------------------	-----------------

Recessed height (He): 30 mm

701055.01X	L 105, B 39, H 62
------------	-------------------

Price Category 21



Multi adaptor with Schukoplug socket for RZB 3-circuit DALI tracks

Protection Class: I

Multi adaptor for 3-circuit tracks of all known brands, plastic, max. 10 A / 250 V ~.
Rotatable circuit selector with circuit breaker and mechanical lock; with Schukoplug socket;
only for lighting or lighting accessories.

Available colour: 2 = white

Reference number	Dimensions [mm]
------------------	-----------------

Multi adaptor with Schukoplug socket for 3-circuit tracks

70316.002	L 90, B 57, H 73
-----------	------------------

Price Category 21



Strain relief for multi adaptor and 3-phase DALI adaptor

Plastic

Available colours (X): 2 = white, 3 = black

Reference number	Dimensions [mm]
------------------	-----------------

Recessed height (He): 30 mm

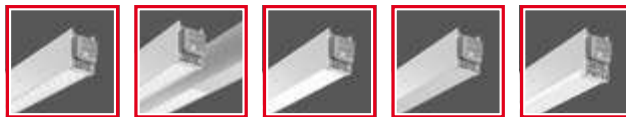
70875.00X	D 26, H 33
-----------	------------

Price Category 21





The application image shows:
LINEDO



LINEDO | Continuous
line luminaire module
476-485



LINEDO | Modules with
brightness and mov. sensors
486-487



LINEDO | Modules for
emergency lighting
486-487



LINEDO
Modules with 3-circuit track
488-489



LINEDO
Spotlight modules
488-489



LINEDO | Modules with
highbay luminaire
488-489



LINEDO

Theoretically, a light band. Practically a revolution.

- Ready-to install, stylish single-component continuous line luminaire system
- Ultra-fast installation through Plug & Play modules
- Over 30% weight-reduced extruded aluminum profile with minimal dimensions
- 5, 7- or 14-pole through-wiring as standard
- 7 light distributions and 5 performance levels cover almost any lighting task in industry, shops, offices and public buildings
- Ideally suited for office environments ($UGR \leq 19$ when using certain optics and luminous flux) in compliance with DIN EN 12464-1
- Luminous efficacy up to 180 lm/W
- Numerous functional modules, e.g. spotlights, emergency lighting, sensors...
- Up to 10 years warranty
- LED rated life 80,000 h (L_{CL0}) DALI/CLO controlled - High planning reliability thanks to constant light output throughout the entire service life
- **ENEC** (European Norms Electrical Certification) certified
- IoT ready – control and monitoring via DALI-2 Standard (on request)
- Plan your continuous line luminaire in just a few steps using the LINEDO app. Available for Android and IOS

The RZB Premium Service is your support partner before, during and after system installation.



Take advantage of our services. We advise, plan individually, monitor and finance your lighting system. We will as well program and commission the lighting on site.

1 Components



4 Standard lengths

598 mm

1,163 mm

2,291 mm

4,547 mm

project specific solutions

1 Protection type



3 Colours



project specific solutions

2 Type of mounting



4 Optical systems



7 Light distribution options



5 Output levels

13

19

27

33

42

,000 lm / 4.5 m

3 Colour temperatures

830

840

850

project specific solutions CRI > 90

2 Switching types



3 Through-wirings

5 pole

7 pole

14 pole

3 steps ...you need to plan!

The RZB LINEDO app makes it easy for you to plan your LINEDO continuous line system on your smartphone or tablet.

Enter your room dimensions and technical lighting requirements and the app automatically calculates the required trunking modules, including the mounting material needed.

In a way, planning done with some kind of „finger tips“.



START PLAYING!
It's free in the AppStore and on GooglePlay



LINEDO®

Technical advantages

A revolutionary concept requires pioneering technology.
LINEDO has all the features you would expect from a
modern continuous line system – and much, much more!





Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.



LED lifetime 80,000 h (L_{CLO}) CLO controlled; for constant light output over the entire lifetime.



IoT-ready - control and monitoring via DALI-2 standard (on request)



LINEDO is BIM-ready
The relevant Revit files are available on our website.



Converter compatible with DC voltage – suitable for central emergency power supply



Made in Germany. Made in Bamberg.
Full service and up to 10 years warranty

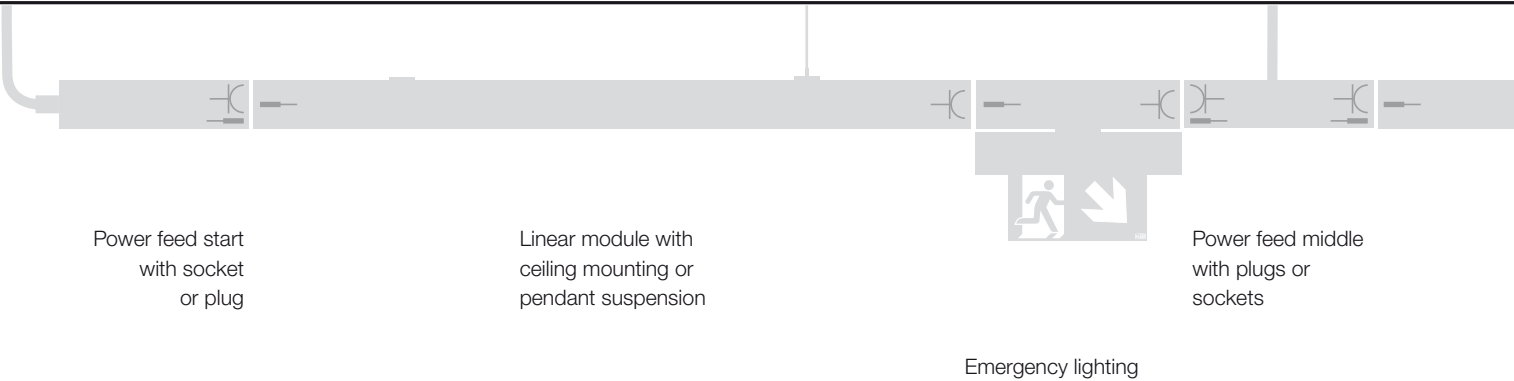
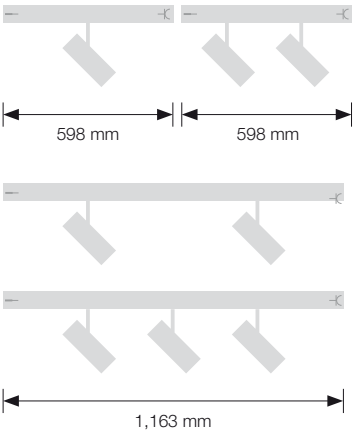


LINEDO®

Module overview

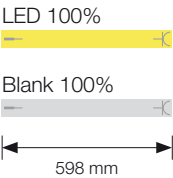
Although it is a complete continuous line luminaire, LINEDO is still extremely flexible. In addition to standard and special modules, all combinations of lens optics and blank covers are possible thanks to the versatility of the 580 mm module grid length.

Module with Deecos Mini spotlights

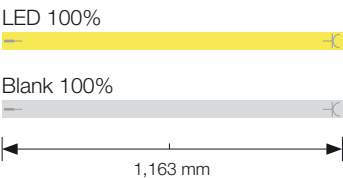


Overview of sizes for Linedo versions

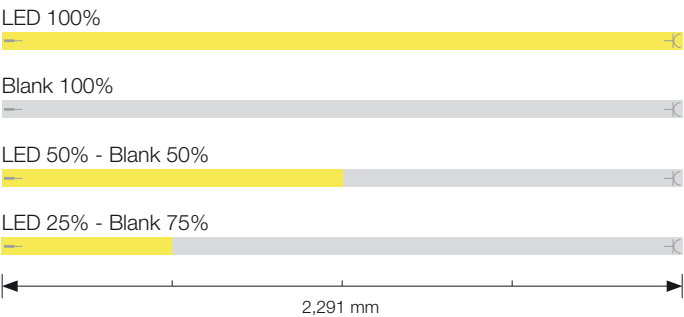
1 unit



2 units

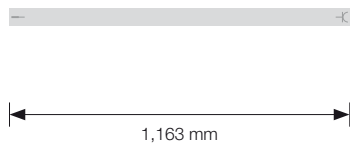


4 units

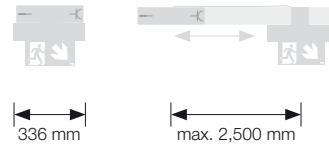


⌋ = socket
— = plug

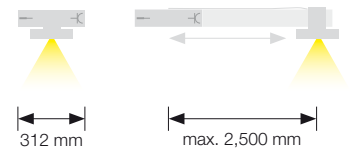
Module with 3-circuit track



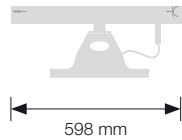
Module with escape route identification
moveable



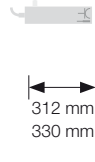
Module with escape route illumination
moveable



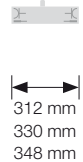
Module with Light Case highbay



Power feed
start



middle



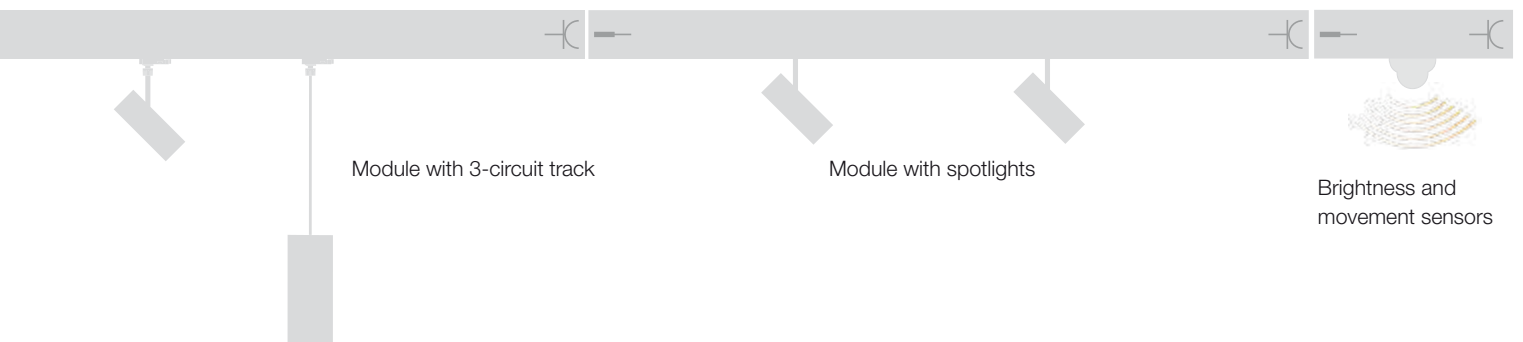
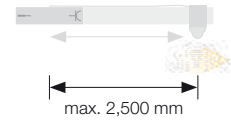
universal



Presence sensor module
fixed

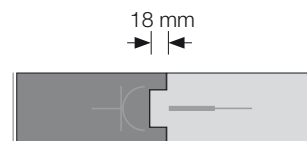
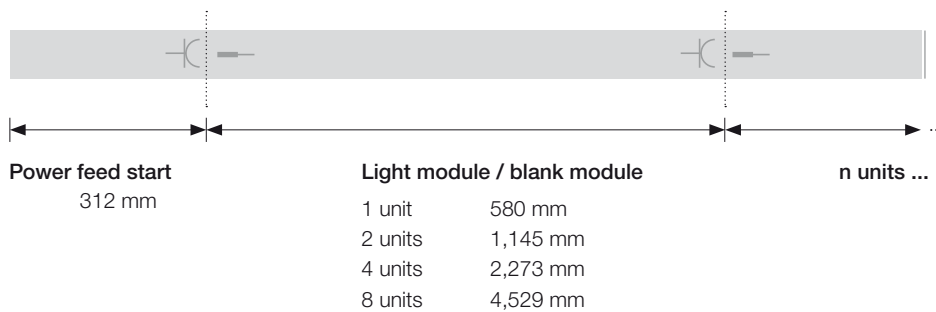


moveable



Can be connected according to individual requirements

Dimensions in combination



The 18-mm difference between the length in combination and that of the module alone comes from the plug and socket connection

8 units

LED 100%



LED 50% - Blank 50%



LED 25% - Blank 75%

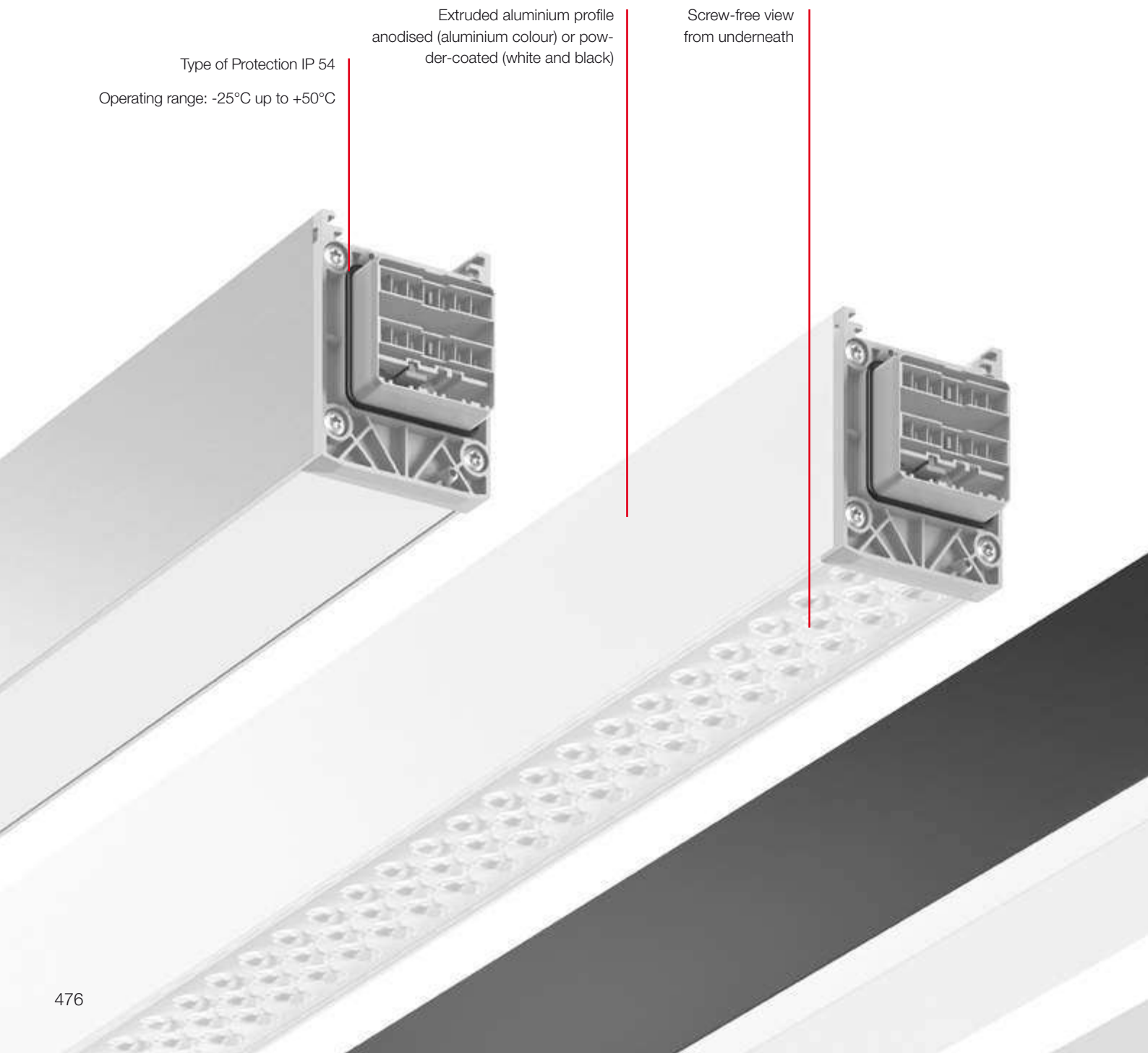


4,547 mm

LINEDO®

Housing profile

The LINEDO housing concept is based on an aluminium extrusion profile with fully integrated components.



Clean, sealed, sustainable, patent-pending:
 LINEDO lens optics are connected reversibly with the LED
 boards and fit perfectly without any further sealing. They can
 be connected to the neighbouring lens, to the LINEDO plug
 or to a blank cover.



4 standard lengths, each with 5 performance levels

1 unit: 598 mm | Total light output: 1,450 - 5,200 lm

2 units: 1,163 mm | Total light output: 2,850 - 10,400 lm

4 units: 2,291 mm | Total light output: 5,700 - 20,900 lm

8 units: 4,547 mm | Total light output: 11,400 - 41,700 lm

Special lengths are available on request

1 length for special modules (power feed, light management,
 emergency lighting and shop)

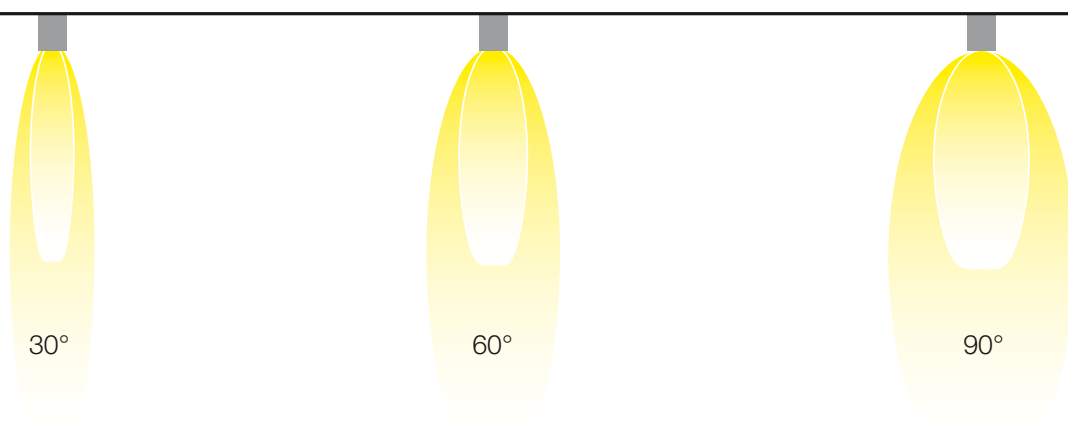
Seamless transition from
 lens optics to blank covers



LINEDO®

Photometrics

7 different light distributions cover just about any requirement. Special microstructures in the specially developed lens optics reduce the yellow seam to an absolute minimum.



Lens optics for symmetrical
light distribution



- Luminous efficacy up to 180 lm/W
- LED luminous flux up to 42,000 lm/4.5m
- Colour temperature 3,000 K, 4,000 K and 5,000 K
- Colour rendering index Ra > 80
- 7 light distribution options
- LED rated life 80,000 h (L_{0.01}) DALI/CLO controlled;
For a constant light output throughout the entire lifetime of the LEDs
- Good colour consistency within 3-steps MacAdam (3 SDCM)



Ideally suited to office environments
(UGR ≤ 19 when using certain configurations of optics and luminous flux)
in compliance with
DIN EN 12464-1

Beam angle 30° | 60°



LINEDO Output levels	Beam angle in °	Luminous flux in lm/unit (598 mm)	UGR (4H8H) ≤ 19 DIN EN 12464-1
95XX90.XXX.XXX.C00	90	1700	20,1
95XX90.XXX.XXX.C01	90	2450	21,4
95XX90.XXX.XXX.C02	90	3400	22,5
95XX90.XXX.XXX.C03	90	4100	23,2
95XX90.XXX.XXX.C04	90	5200	24,0
95XX60.XXX.XXX.C00	60	1650	17,1
95XX60.XXX.XXX.C01	60	2450	18,5
95XX60.XXX.XXX.C02	60	3350	19,6
95XX60.XXX.XXX.C03	60	4050	20,2
95XX60.XXX.XXX.C04	60	5100	21,0
95XX30.XXX.XXX.C00	30	1700	15,1
95XX30.XXX.XXX.C01	30	2500	16,4
95XX30.XXX.XXX.C02	30	3400	17,5
95XX30.XXX.XXX.C03	30	4100	18,1
95XX30.XXX.XXX.C04	30	5200	18,9

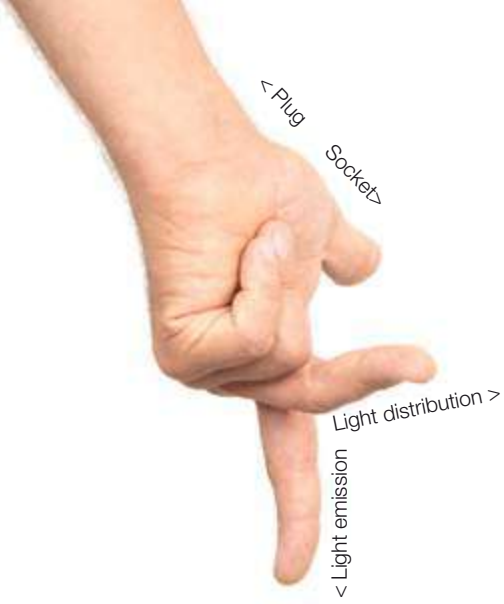
LINEDO®

Optical system



Lens optics for asymmetrical
and double asymmetrical light
distribution

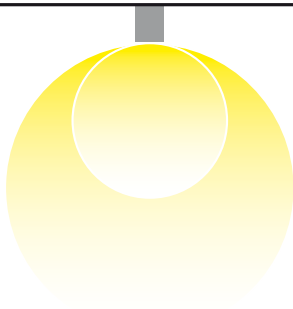




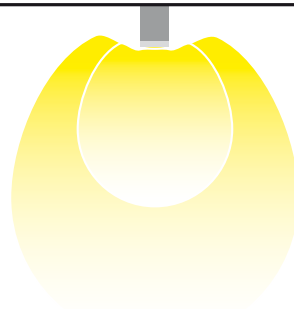
You can easily simulate the light distribution of the singly asymmetrical standard modules AS with your left hand: with your thumb pointing from the plug to the socket of the module, your index finger points in the direction of the light emission, and your middle finger indicates the light distribution.

To obtain the opposite light distribution, the module must be turned around with respect to the installation direction and the power feed adjusted.

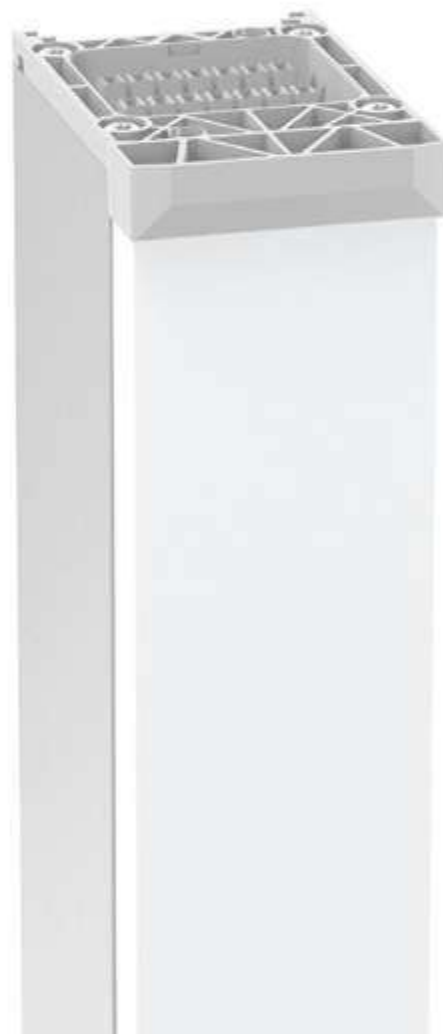
Check? Left-hand rule! ;-)



Flush-mounted opal diffuser
for uniform light distribution



High opal diffuser for wider uniform
light distribution with increased proportion of indirect light



LINEDO®

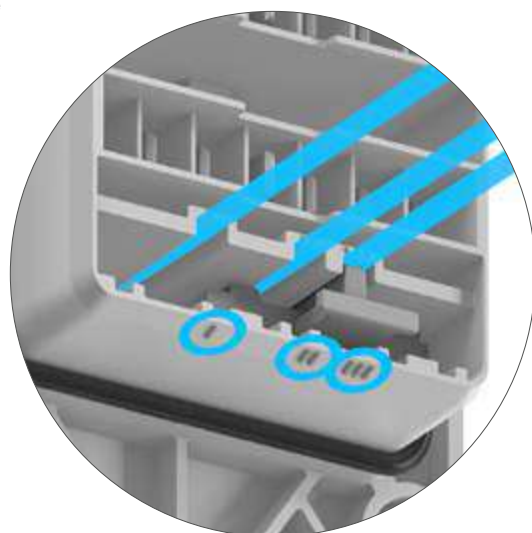
Electrical connection

Future-proof thanks to the LINEDO plug system with up to 14-pole configuration for secure and rapid connection and through-wiring of individual modules.



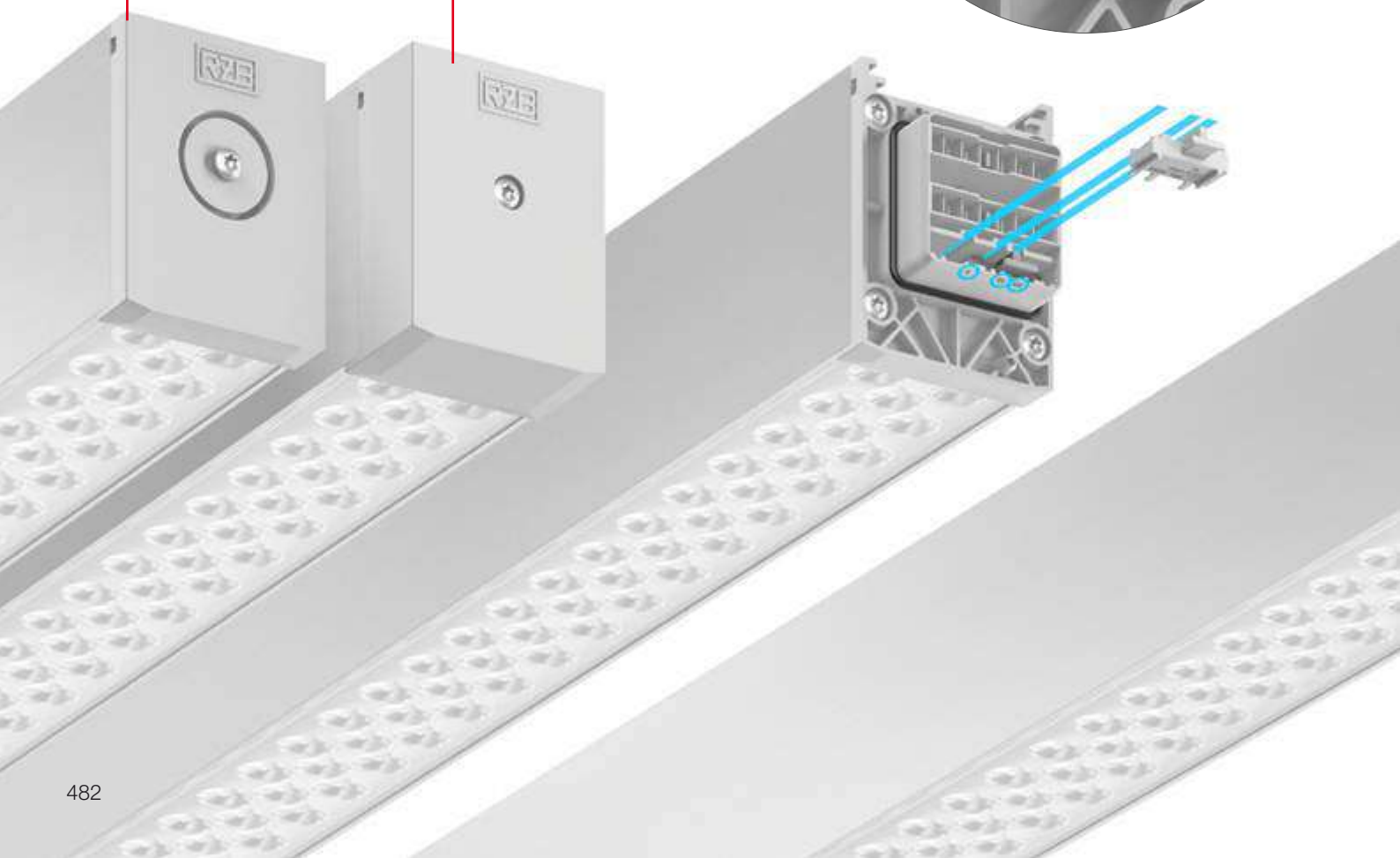
Each LINEDO module has a LINEDO plug at one end and the corresponding socket at the other end. Suitable end caps are available for a clean finish at the end of the continuous line luminaire.

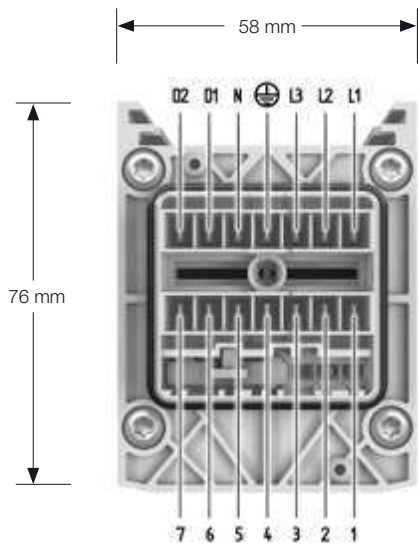
Patent-pending: the bridge for phase selection means you can switch between three different phase configurations from the outside – without opening the luminaire.



End cap
socket end

End cap
plug end





Terminal configuration/through-wiring		5-pole	7-pole	14-pole
L1	Phase 1	2.5 mm ²	2.5 mm ²	2.5 mm ²
L2	Phase 2	2.5 mm ²	2.5 mm ²	2.5 mm ²
L3	Phase 3	2.5 mm ²	2.5 mm ²	2.5 mm ²
PE	Protective conductor	2.5 mm ²	2.5 mm ²	2.5 mm ²
N	Neutral conductor	2.5 mm ²	2.5 mm ²	2.5 mm ²
D1	DALI DA	-	1.5 mm ²	1.5 mm ²
D2	DALI DA	-	1.5 mm ²	1.5 mm ²
1	Emergency circuit 1	-	-	1.5 mm ²
2	Emergency circuit 1	-	-	1.5 mm ²
3	Control or switched signal	-	-	1.5 mm ²
4	Control or switched signal *	-	-	1.5 mm ²
5	Control or switched signal	-	-	1.5 mm ²
6	Emergency circuit 2	-	-	1.5 mm ²
7	Emergency circuit 2	-	-	1.5 mm ²

* leading contact for special applications

Two separate cable screw fittings for max. 14-pole through-wiring

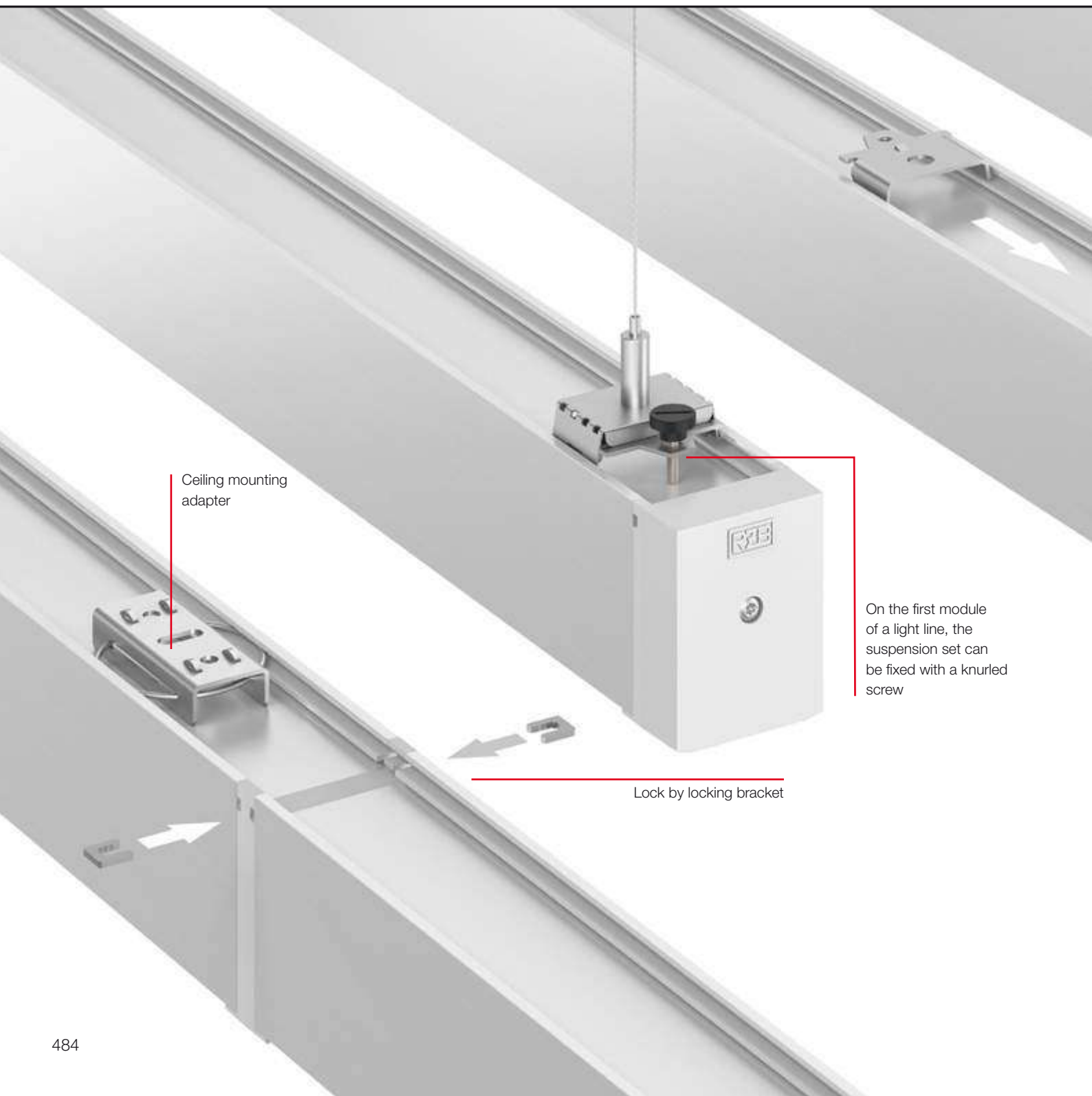
Power feed middle

Power feed start

LINEDO®

Installation system

The patent-pending connection system allows rapid installation. Since LINEDO is complete and ready to go, there is no need for separate installation of mounting tracks and inserts.



Ceiling mounting
adapter

On the first module
of a light line, the
suspension set can
be fixed with a knurled
screw

Lock by locking bracket

Required suspension points

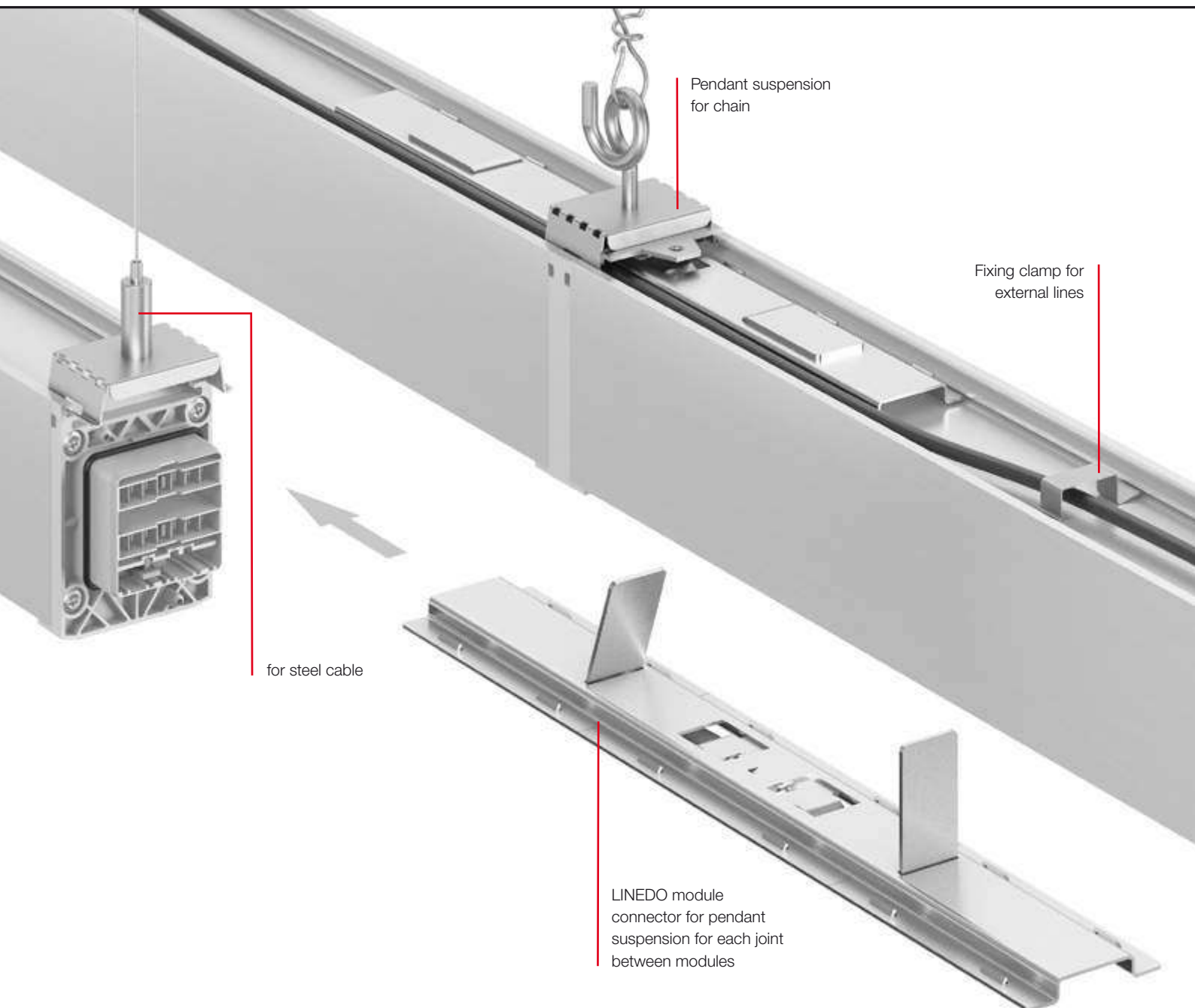
For 8 unit lengths max. every 4.5 m



For 4 unit lengths max. every 2.27 m



For linear connection of shorter units, increase the number of attachments as required.



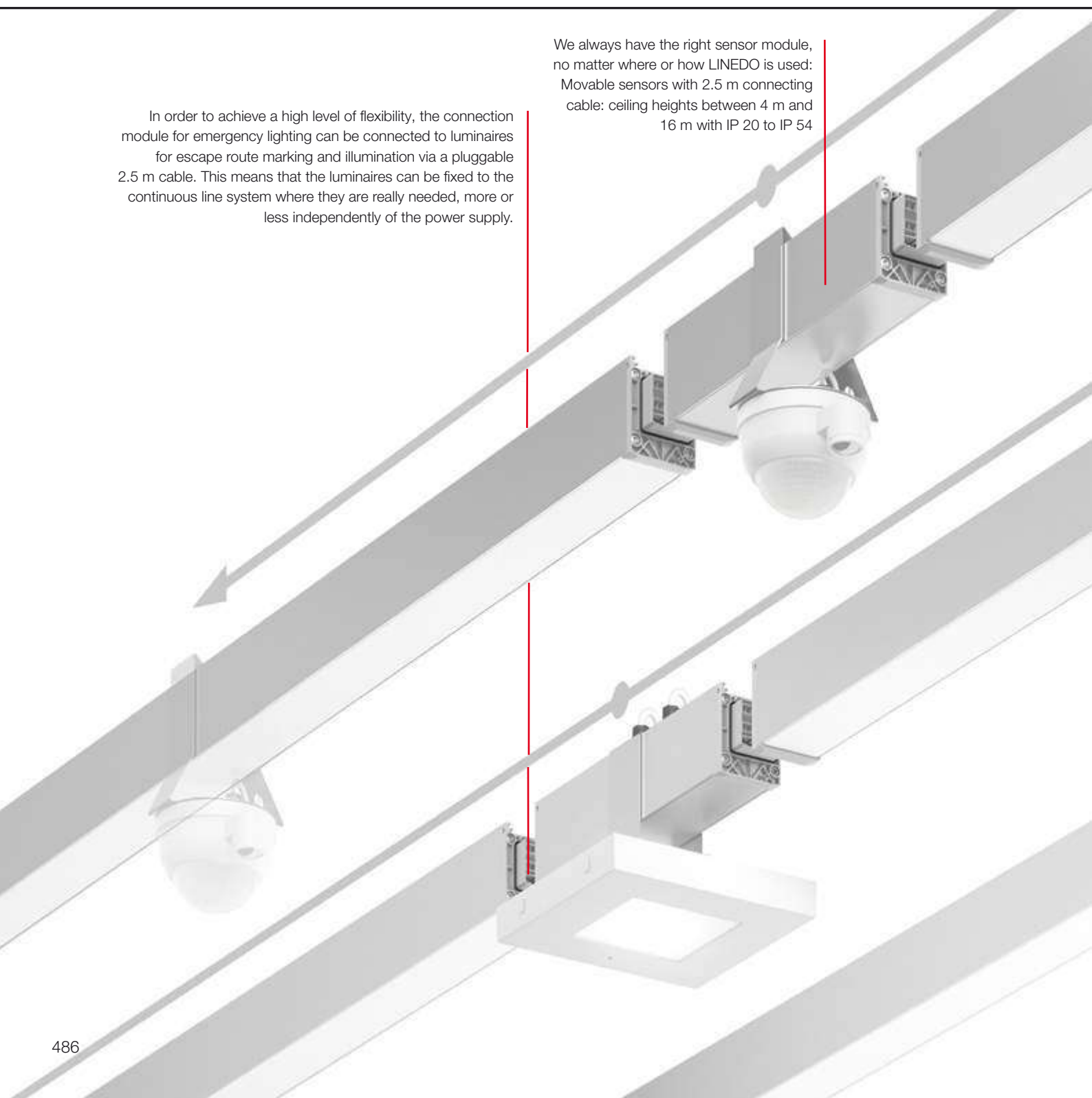
LINEDO®

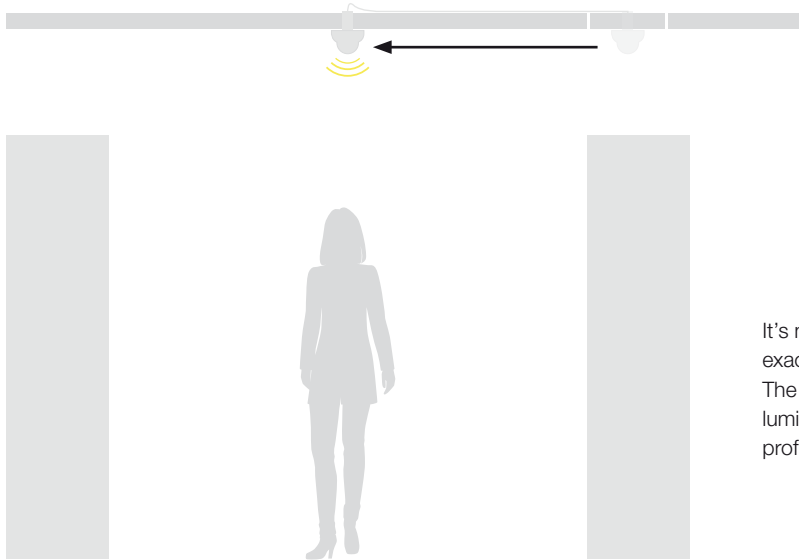
Functional modules

Need to integrate escape route illumination and marking, as well as light and presence sensors? LINEDO offers various options – either fixed in place or sliding along the profile.

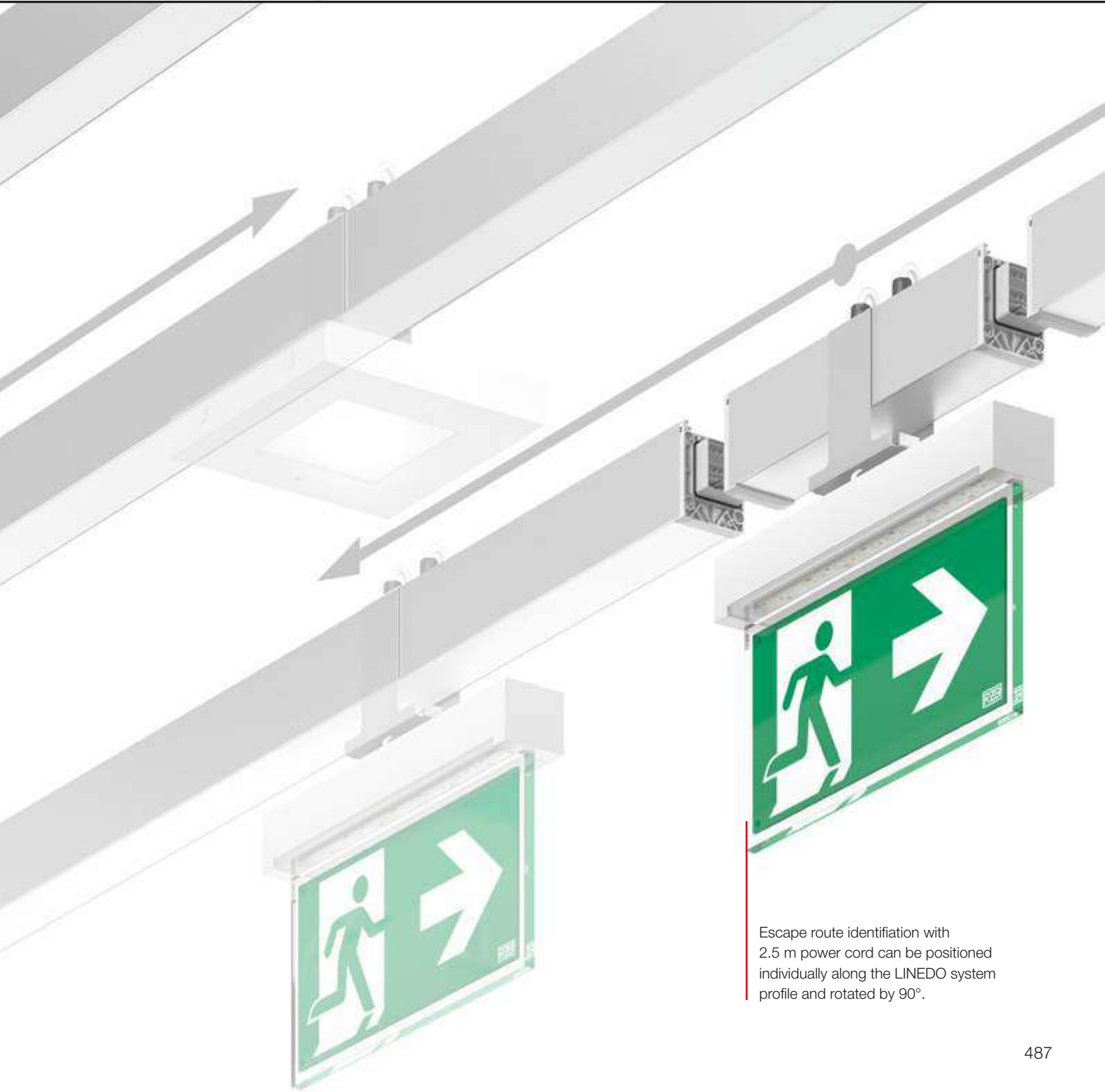
In order to achieve a high level of flexibility, the connection module for emergency lighting can be connected to luminaires for escape route marking and illumination via a pluggable 2.5 m cable. This means that the luminaires can be fixed to the continuous line system where they are really needed, more or less independently of the power supply.

We always have the right sensor module, no matter where or how LINEDO is used:
Movable sensors with 2.5 m connecting cable: ceiling heights between 4 m and 16 m with IP 20 to IP 54





It's not always possible to plan a functional module in the exact spot where it's needed.
The LINEDO module with moveable sensors or emergency luminaires allows you to slide them up to 2.5 metres along the profile.



Escape route identification with 2.5 m power cord can be positioned individually along the LINEDO system profile and rotated by 90°.

LINEDO®

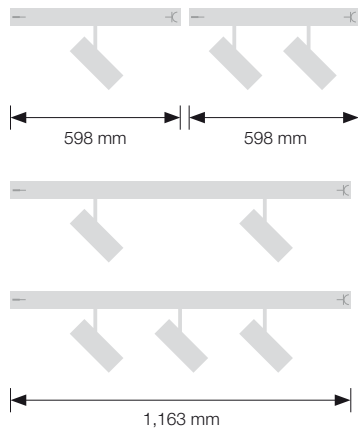
Functional modules

The integration of other luminaire types is possible with LINEDO by adding functional modules with projectors, highbays or 3-circuit tracks.

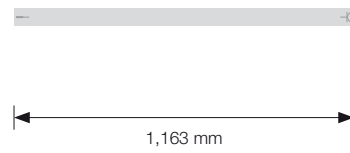
Modules with integrated 3-circuit tracks or with 3-circuit DALI tracks for flexible installation of projectors, pendant luminaires and accessories.



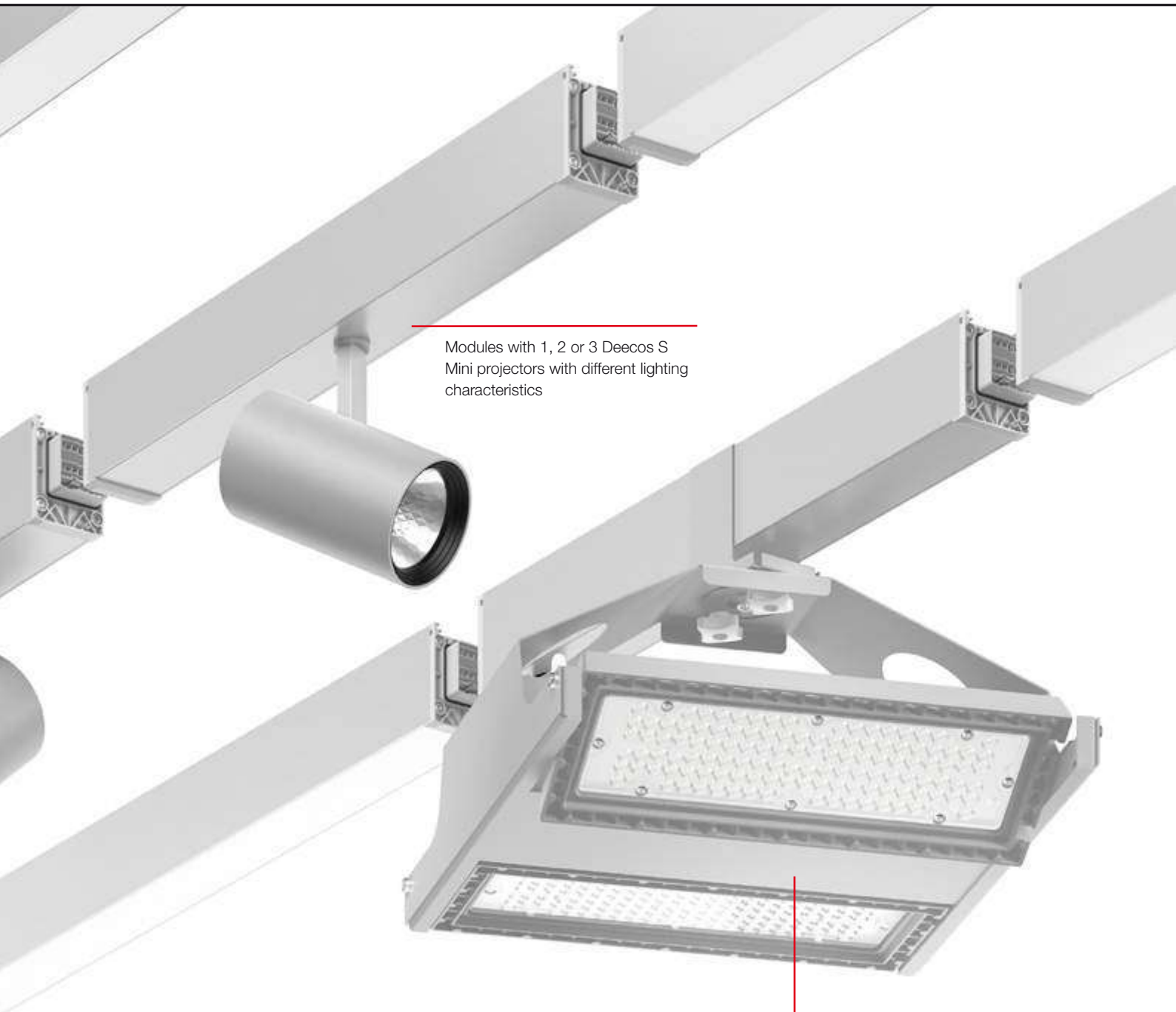
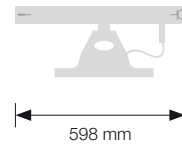
Module with Deecos Mini spotlights



Module with 3-circuit track



Module with Light Case highbay



Modules with 1, 2 or 3 Deecos S Mini projectors with different lighting characteristics

Module including Light Case highbay luminaire with 2 swivel-mounted LED modules.

LINEDO®

Functional modules

We don't want to bombard you with reference numbers. Nevertheless, we have to find a way to codify our multitude of variations. So let's do this differently! Just tell us what you want: Simply replace the digits of the example number given below, with the codes of your choice.

0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	1 0	1 1	1 2	1 3	1 4	1 5	1 6	1 7	1 8
9	5		A B C	.	D	X	.			.			.		E F		
Length profile		Optics		Light colour		Profile colour		Number of poles		Dimmability		Module arrangement		Output levels			
06 = 1 unit (598 mm) 12 = 2 units (1,163 mm) 23 = 4 units (2,291 mm) 45 = 8 units (4,547 mm)		Lens Code A 30 = 30° symmetrical 60 = 60° symmetrical 90 = 90° symmetrical AS = single asymmetrical AD = double asymmetrical Opal diffuser Code B OF = opal flat (flash mounted) Code C OH = opal high		Code D 83 = Light colour 830 84 = Light colour 840 85 = Light colour 850		Code X anodised: 0 = aluminium powder-coated: 2 = white 3 = black		5 = 5-pole 7 = 7-pole 4 = 14-pole		00 = none 76 = DALI		0 = continuous LED 5 = 50% blank module 7 = 75% blank module		Code E 00 = 1,700 01 = 2,450 02 = 3,400 03 = 4,100 Code F 04 = 5,200			

Example:

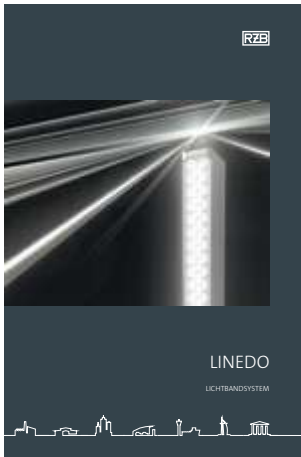
0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	1 0	1 1	1 2	1 3	1 4	1 5	1 6	1 7	1 8
9	5	1	2	A	.	D	X	.	5	0	0	.	0	E			
=																	
9	5	1	2	3	0	.	8	3	2	.	5	0	0	.	0	0	0
9	5	1	2	9	0	.	8	4	3	.	5	0	0	.	0	0	1
9	5	1	2	A	S	.	8	5	0	.	5	0	0	.	0	0	2
9	5	1	2	A	D	.	8	3	3	.	5	0	0	.	0	0	1

... as well as 131 other versions. Simply replace the dummy character with the coding of the configuration you require. In the coded system, the given numerical values cannot be changed.

In this example, combinations with the optical system B (OF) or C (OH) and performance level F (04) are not possible.

More details?

Please find more information on LINEDO:



You can find further information, examples of projects and ordering advice in our comprehensive LINEDO brochure as PDF and in printed form



Video with all product features and options



Trailer



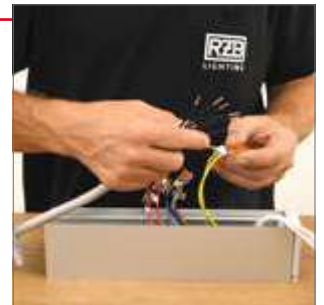
Highlights



RZB website with live 3D model



Installation videos



Design your LINEDO luminaire easily on your personal device with the RZB LINEDO App

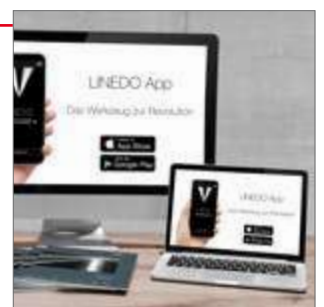


Download on the App Store



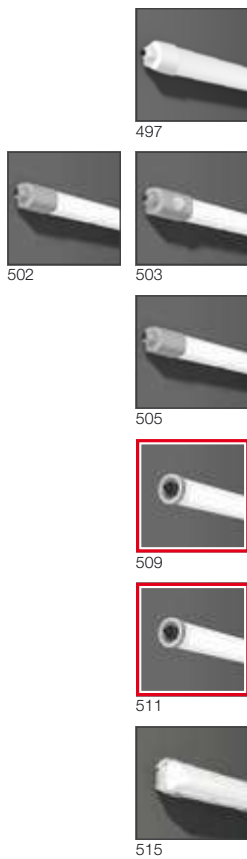
GET IT ON Google Play

RZB LINEDO App Instruction video





The application image shows:
Planox PRO



Planox PRO
494-497

Planox ECO
498-503

Planox ECO Farm
498-499, 504-505

Planox Tube
506-509

Planox Tube Farm
506-507, 510-511

Planox
512-515

PLANOX PRO

Everything at a glance



Housing and end caps made of shockproof polycarbonate (PC)



Can be opened and closed without tools using a turn lock fastener, cable screw fitting as standard

Sealed as standard



Simple connection by means of terminal with push-on connector

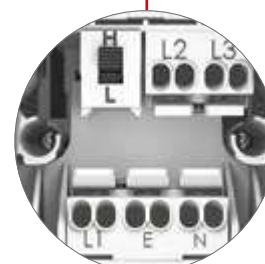
On-board through-wiring as standard, (on/off: 5 x 1,5 mm² | DALI: 7 x 1,5 mm²).

MultiLumen version:

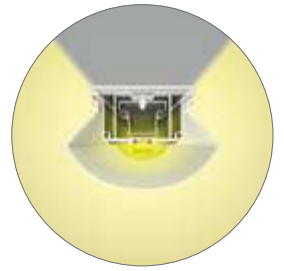
2 steps adjustable luminous flux (L=Low/H=High)

The initial setting is "H" (high lumen)

Thanks to the switch in the luminaire the lumen output can easily be changed even after installation.



Indirect light to illuminate the ceiling
Homogeneous illumination through
satin finish diffuser

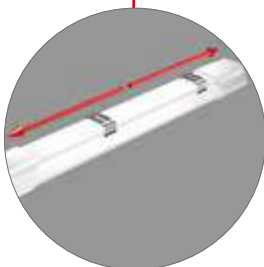


Suitable for use in the
food and drink industry



Luminaires with limited surface
temperature in accordance with
DIN EN 60598-2-24 for use in
environments in which a deposit of
conductive dust on the luminaire
can be expected

Flexible installation through
sliding mounting bracket
Ideal for luminaire replacement



The UV-resistant diffuser with inner prisms
guarantees uniform light output



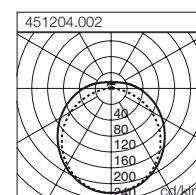
PLANOX PRO

Ceiling and wall luminaires

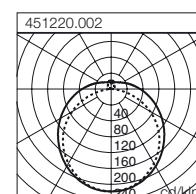
- **MultiLumen:** 2 steps adjustable luminous flux (high lumen output equivalent to 2-lamp version; low lumen output equivalent to 1-lamp version)
- Operating range: -30°C to +50°C
- Operating range DALI versions (.76): -25°C to +50°C
- ▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected
- LED rated life 50,000 h (L80/B10)
- Housing and end caps made of shockproof polycarbonate (PC)

- The UV-resistant diffuser with inner prisms guarantees uniform light output
- Indirect light to illuminate the ceiling
- Flexible installation through sliding mounting brackets. Ideal for luminaire replacement
- Cable installation on both sides through turn lock fastener
- Through-wiring as standard for further luminaires (on/off: 5 x 1,5 mm²; DALI: 7 x 1,5 mm²)
- Suitable for use in the food and drink industry
- DALI converter is compatible with DC, suitable for central battery system

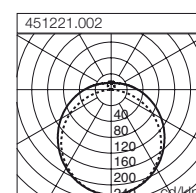
451204.002		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	6	8
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
6	8	13



451220.002		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	5	9



451221.002		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	7



Further luminaires of this series, see:
Emergency lighting | Escape route illumination

Ceiling and wall luminaires | Planox PRO

Type of Protection: **IP 66**

Protection Class: II

Impact Protection: IK08

Side panels: plastic, white polycarbonate, shockproof. Diffuser: plastic (polycarbonate), opal, shockproof. Converter encapsulated, integrated and permanently connected to the diffuser and side panel. Cable screw fittings for convenient wiring. Turn lock fastener on both sides for easy installation. Luminaire with integrated through-wiring for lining up further luminaires. Ceiling mounting stainless steel brackets and triangular brackets for pendant mounting included in the scope of delivery.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colour: 2 = white

MultiLumen version: 2 steps adjustable luminous flux. Factory-set to highest luminous flux.



Ceiling, wall and pendant luminaires

Price Category 11

Length L 750 mm

451204.002	L 750, B 88, H 63	LED	840	2000	14	on/off	✓
451204.002.76	L 750, B 88, H 63	LED	840	2000	14	DALI	

Length L 1350 mm

451220.002 *	L 1350, B 88, H 63	LED	840	3200/5200	21/35	on/off	
451206.002.76	L 1350, B 88, H 63	LED	840	5200	35	DALI	

Length L 1650 mm

451221.002 .Q*	L 1650, B 88, H 63	LED	840	4100/7150	27/48	on/off	
451208.002.76 .Q	L 1650, B 88, H 63	LED	840	7150	48	DALI	

* MultiLumen version

Comparison

LED vs. conventional lamps

LED 14 W ≈

2 x 14 W T16 (36 W Psys)
2 x 18 W T26 (52 W Psys)

LED 21 W ≈

1 x 36 W T26 (43 W Psys)
1 x 54 W T16 (58 W Psys)

LED 27 W ≈

1 x 58 W T26 (67 W Psys)
1 x 80 W T16 (86 W Psys)

LED 35 W ≈

2 x 36 W T26 (86 W Psys)
2 x 54 W T16 (115 W Psys)

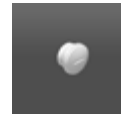
LED 48 W ≈

2 x 58 W T26 (134 W Psys)
2 x 80 W T16 (172 W Psys)

End piece for turn lock fastener with D 25 mm

Price Category 11

982394.002	D 25, H 13
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Turn lock fastening

Price Category 11

982396.002	D 56, H 50
------------	------------



Mounting brackets made of stainless steel (theft protection) for ceiling and wall mounting

Price Category 11

982395.000	L 130, B 13, H 61
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PLANOX ECO | PLANOX ECO FARM

Everything at a glance



Planox ECO:
Versions with infrared
movement sensor,
adjustable time delay
of 10 s to 20 min and
response brightness
of 1 to 50 lux

Sealed as standard

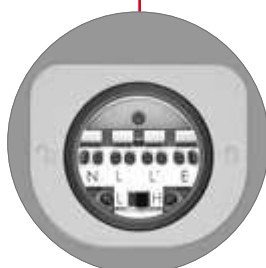


Can be opened and closed without
tools using a turn lock fastener,
cable screw fitting as standard

Simple connection by means
of terminal with push-on connector

On-board through-wiring as
standard for further luminaires

Illustration shows MultiLumen version

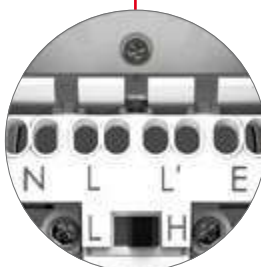


MultiLumen version:

2 steps adjustable luminous flux (L=Low/H=High)

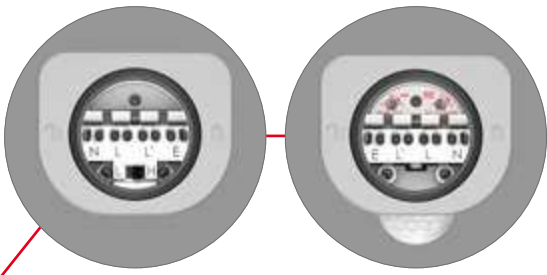
The initial setting is "H" (high lumen)

Thanks to the switch in the luminaire the lumen output
can easily be changed even after installation.



Planox ECO:
Housing and end caps made of
shockproof polycarbonate (PC)

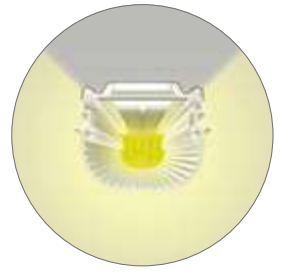




The sensitivity and time regulation can simply be adjusted with movement sensor model

Master-Slave operation possible

Indirect light to illuminate the ceiling
Homogeneous illumination through satin finish diffuser



Planox ECO Farm:

Certified by DLG. This luminaire is resistant to ammonia and is suitable for high pressure cleaning with a min. distance of 10 cm.

Therefore ideally useable in livestock housing and agricultural buildings.

Housing made of ammonia resistant PMMA.
End caps made of polyamide (PA).

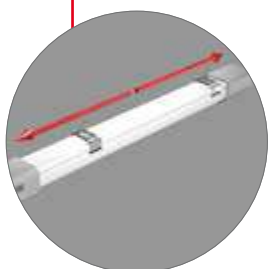


Suitable for use in the food and drink industry



Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected

Flexible installation through sliding mounting bracket
Ideal for luminaire replacement



The UV-resistant diffuser with inner prisms guarantees uniform light output

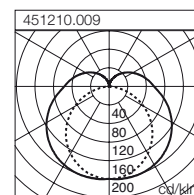


PLANOX ECO

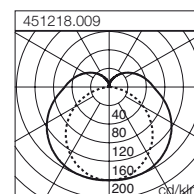
Ceiling and wall luminaires

- **MultiLumen:** 2 steps adjustable luminous flux (high lumen output equivalent to 2-lamp version; low lumen output equivalent to 1-lamp version)
- Operating range -30°C to +45°C
- Operating range with movement sensor: -20°C to +45°C
- ▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.
- LED rated life 50,000 h (L80/B10)
- Housing and end caps made of shockproof polycarbonate (PC)
- The UV-resistant diffuser with inner prisms guarantees uniform light output
- Indirect light to illuminate the ceiling
- Flexible installation through sliding mounting brackets. Ideal for luminaire replacement
- Cable installation on both sides through turn lock fastener
- Versions with integrated movement sensor. Master/slave circuit possible.
- Through-wiring as standard for further luminaires
- Suitable for use in the food and drink industry
- Versions with infrared movement sensor, adjustable time delay of 10 s to 20 min and ambient brightness of 1 to 50 lux

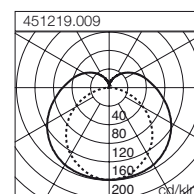
451210.009		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	6	8
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
6	8	14



451218.009		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



451219.009		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4







Ceiling and wall luminaires | Planox ECO

Type of Protection: **IP 66**

Protection Class: II

Impact Protection: IK08

Side panels: plastic, grey polycarbonate, shockproof. Diffuser: plastic (non-yellowing polycarbonate), opal, impact resistant. Converter encapsulated, integrated and permanently connected to the diffuser and side panel. Cable screw fittings for convenient wiring. Turn lock fastener on both sides for easy installation. Luminaire with integrated through-wiring for lining up further luminaires. Ceiling mounting stainless steel brackets and triangular brackets for pendant mounting included in the scope of delivery.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colour: 9 = grey

MultiLumen version: 2 steps adjustable luminous flux. Factory-set to highest luminous flux.



Comparison LED vs. conventional lamps

LED 17 W ≈

1 x 39 W T16 (42 W Psys)

LED 22 / 23 W ≈

1 x 54 W T16 (58 W Psys)

1 x 36 W T26 (43 W Psys)

LED 33 W ≈

1 x 80 W T16 (86 W Psys)

1 x 58 W T26 (67 W Psys)

LED 37 W ≈

2 x 54 W T16 (115 W Psys)

2 x 36 W T26 (86 W Psys)

LED 54 W ≈

2 x 80 W T16 (172 W Psys)

2 x 58 W T26 (134 W Psys)



Ceiling, wall and pendant luminaires

Length L 769 mm

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 11
451210.009 .Q	L 769, B 61, H 50	LED	840	2100	17	on/off	

Length L 1369 mm

451211.009 .Q	L 1369, B 61, H 50	LED	840	2800	23	on/off	
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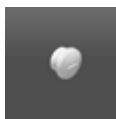
451218.009 .Q*	L 1369, B 61, H 50	LED	840	3050/4950	22/37	on/off	
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Length L 1669 mm

451213.009 .Q	L 1669, B 61, H 50	LED	840	4100	33	on/off	
---------------	--------------------	-----	-----	------	----	--------	--

451219.009 .Q*	L 1669, B 61, H 50	LED	840	4700/6800	33/54	on/off	
----------------	--------------------	-----	-----	-----------	-------	--------	--

* MultiLumen version



End piece for turn lock fastener with D 25 mm

982179.009	D 25, H 13	Price Category 11
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Turn lock fastening

982429.009	D 44, H 41	Price Category 11
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Mounting brackets made of stainless steel (theft protection) for ceiling and wall mounting

982430.000	L 146, B 16, H 38	Price Category 11
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Ceiling and wall luminaires | Planox ECO with movement sensor

Type of Protection: **IP 66**

Protection Class: II

Impact Protection: IK08

Side panels: plastic, grey polycarbonate, shockproof. Diffuser: plastic (non-yellowing polycarbonate), opal, impact resistant. Converter encapsulated, integrated and permanently connected to the diffuser and side panel. Cable screw fittings for convenient wiring. Turn lock fastener on both sides for easy installation. Luminaire with integrated 4-phase through-wiring to connect multiple luminaires. Ceiling mounting stainless steel brackets and triangular brackets for pendant mounting included in the scope of delivery. With integrated movement sensor. Master-Slave operation possible.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colour: 9 = grey

MultiLumen version: 2 steps adjustable luminous flux. Factory-set to highest luminous flux.



Ceiling, wall and pendant luminaires with movement sensor

Price Category 11

Length L 800 mm

451210.009.19 .Q L 800, B 66, H 71 LED 840 2100 17 on/off

Length L 1400 mm

451218.009.19 .Q* L 1400, B 66, H 71 LED 840 3050/4950 22/37 on/off

Length L 1700 mm

451219.009.19 .Q* L 1700, B 66, H 71 LED 840 4700/6800 33/54 on/off

* MultiLumen version

Comparison

LED vs. conventional lamps

LED 17 W ≈

1 x 39 W T16 (42 W Psys)

LED 22 W ≈

1 x 54 W T16 (58 W Psys)

1 x 36 W T26 (43 W Psys)

LED 33 W ≈

1 x 80 W T16 (86 W Psys)

1 x 58 W T26 (67 W Psys)

LED 37 W ≈

2 x 54 W T16 (115 W Psys)

2 x 36 W T26 (86 W Psys)

LED 54 W ≈

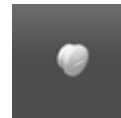
2 x 80 W T16 (172 W Psys)

2 x 58 W T26 (134 W Psys)

End piece for turn lock fastener with D 25 mm

Price Category 11

982179.009 D 25, H 13



Turn lock fastening

Price Category 11

982429.009 D 44, H 41



Mounting brackets made of stainless steel (theft protection) for ceiling and wall mounting

Price Category 11

982180.000 L 115, B 13, H 62



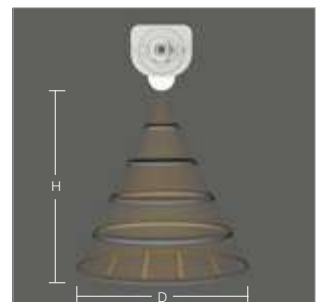
Details on movement sensor

Single luminaire with infrared movement sensor.

Detection range 360°. Cover of movement sensor made of polyethylene, prismatic.

Run-down time and intensity can be adjusted.

Technical data on movement sensor					
Tolerance 10 percent					
Mounting height (H)	3,0 m	4,0 m	5,0 m	6,0 m	8,0 m
Detection range (Diameter D)	7,40 m	11,0 m	13,0 m	13,8 m	14,4 m
Run-down time	10 s - 20 min adjustable				
Intensity	1-50lx adjustable				
Detection angle	120°				



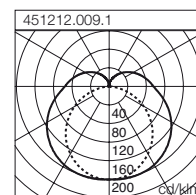


PLANOX ECO FARM

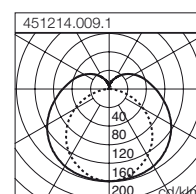
Ceiling and wall luminaires

- **Certified by DLG.** This luminaire is resistant to ammonia and is suitable for high pressure cleaning with a min. distance of 10 cm
- **MultiLumen:** 2 steps adjustable luminous flux (high lumen output equivalent to 2-lamp version; low lumen output equivalent to 1-lamp version)
- Operating range -30°C to +45°C
- ▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.
- LED rated life 50,000 h (L80/B10)
- Diffuser made of ammonia resistant plastic (PMMA), end caps made of plastic (polyamide)
- The UV-resistant diffuser with inner prisms guarantees uniform light output
- Indirect light to illuminate the ceiling
- Flexible installation through sliding mounting brackets. Ideal for luminaire replacement
- Cable installation on both sides through turn lock fastener
- Through-wiring as standard for further luminaires
- Suitable for use in the food and drink industry

451212.009.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	6



451214.009.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4



Ceiling and wall luminaires | Planox ECO Farm

Type of Protection: **IP 66**

Protection Class: II

Impact Protection: IK07

Side panels: plastic, grey polyamide. Diffuser: plastic (non-yellowing PMMA), opal.

Converter encapsulated, integrated and permanently connected to the diffuser and side panel.

Cable screw fittings for convenient wiring. Luminaire with integrated 4-phase through-wiring to connect multiple luminaires. Ceiling mounting stainless steel brackets and triangular brackets for pendant mounting included in the scope of delivery.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Ammonia resistant : to be used in livestock housing and agricultural buildings.

Available colour: 9 = grey

MultiLumen version: 2 steps adjustable luminous flux. Factory-set to highest luminous flux.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Ceiling, wall and pendant luminaires						Price Category 11
Length L 1369 mm						
451212.009.1 .Q*	L 1369, B 61, H 50	LED	840	3050/4950	22/37	on/off
Length L 1669 mm						
451214.009.1 .Q*	L 1669, B 61, H 50	LED	840	4700/6800	33/54	on/off

* MultiLumen version

Comparison LED vs. conventional lamps

LED 22 W ≈

1 x 54 W T16 (58 W Psys)
1 x 36 W T26 (43 W Psys)

LED 33 W ≈

1 x 80 W T16 (86 W Psys)
1 x 58 W T26 (67 W Psys)

LED 37 W ≈

2 x 54 W T16 (115 W Psys)
2 x 36 W T26 (86 W Psys)

LED 54 W ≈

2 x 80 W T16 (172 W Psys)
2 x 58 W T26 (134 W Psys)

Turn lock fastening						Price Category 11
982429.019	D 44, H 41					



Mounting brackets made of stainless steel (theft protection) for ceiling and wall mounting						Price Category 11
982430.000	L 146, B 16, H 38					



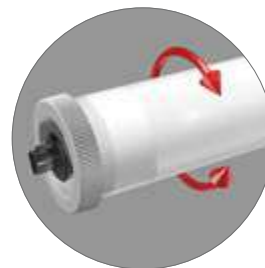
PLANOX TUBE | PLANOX TUBE FARM

Everything at a glance

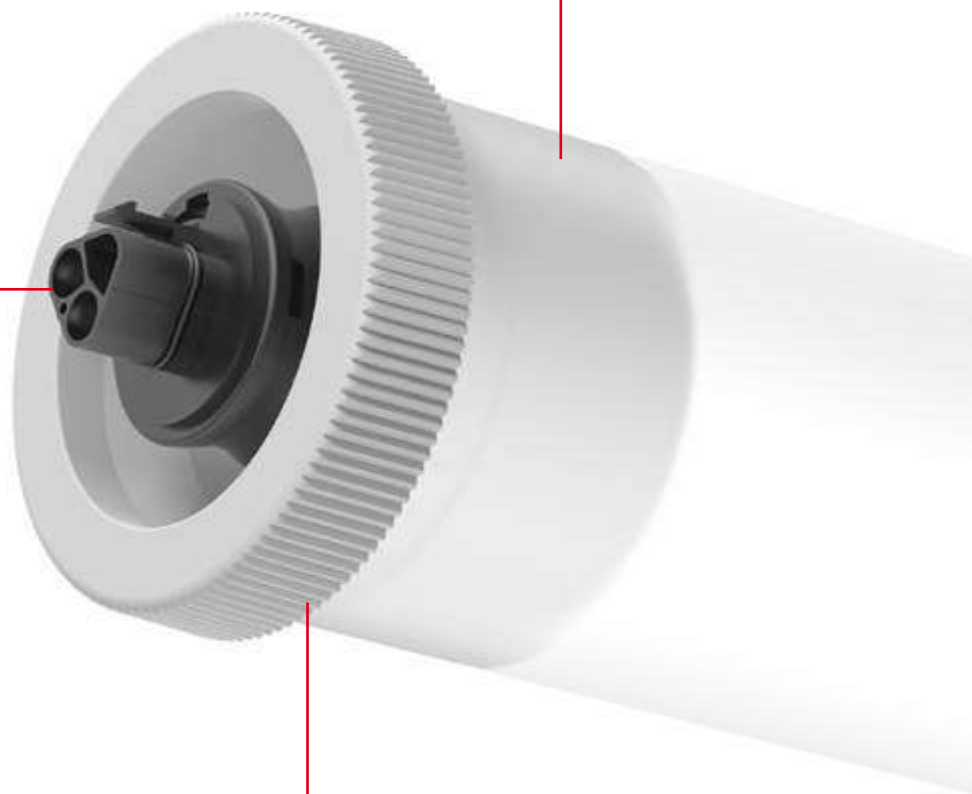


Easy installation with the Plug & Play
Wieland RST® CLASSIC plug-in system.

Version with through wiring has two
Wieland RST® CLASSIC plug connectors
(plug and socket)



Beam angle can be varied by turning the
luminaire within the mounting brackets



Every single LED module can be exchanged

Complete unit with LED modules and converter
can be exchanged

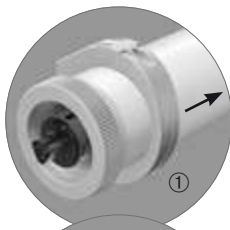
Please order accessories separately:

Flexible installation through sliding mounting bracket. Ideal for luminaire replacement.



Pendant mounting

For Planox Tube
and Planox Tube Farm



Ceiling and wall mounting

For Planox Tube

① Mounting bracket
for flexible installation

② Mounting bracket
as theft protection



Ceiling and wall mounting

For Planox Tube Farm



Planox Tube Farm:
Certified by DLG. This luminaire is resistant to ammonia and is suitable for high pressure cleaning with a min. distance of 5 cm.

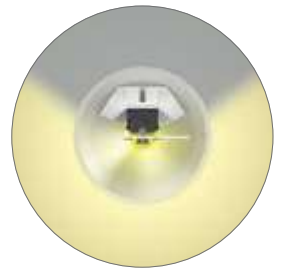
Therefore ideally useable in livestock housing and agricultural buildings.

Housing made of ammonia resistant PMMA, end caps made of polyamide (PA).



Suitable for use in the food and drink industry

Backwards-directed light to illuminate the ceiling



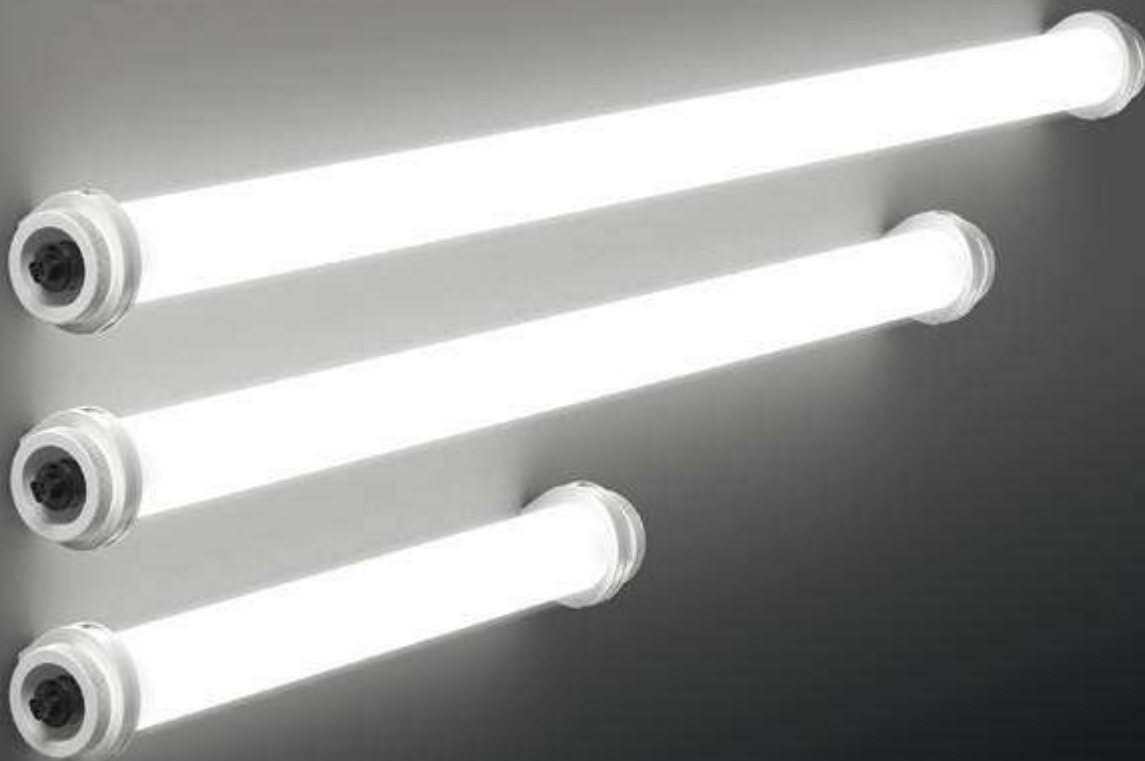
Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected



Planox Tube:
Diffuser made of shockproof polycarbonate (PC), end caps made of polyamide (PA).



Homogeneous light distribution thanks to frosted diffuser

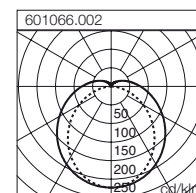


PLANOX TUBE

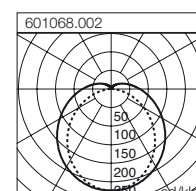
Tube luminaire

- Plug & Play Wieland RST® CLASSIC plug-in system
- Operating range: -20°C to +40°C
- ▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected
- Powerful LED board
- Colour consistency within 3-steps MacAdam (3 SDCM)
- LED rated life 50,000 h (L80/B10)
- Replaceable LED unit
- Diffuser made of shockproof plastic (polycarbonate)
- Beam angle 260°
- Beam angle can be adjusted by turning the luminaire within the mounting brackets
- Position of mounting brackets can be adjusted
- With accessories for wall, ceiling or pendant mounting
- Suitable for use in the food and drink industry

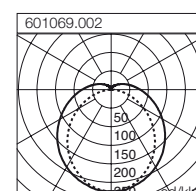
601066.002		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	5	6
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	6	10



601068.002		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



601069.002		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4



Tube luminaire | Planox Tube

Type of Protection: **IP 67**

Protection Class: I

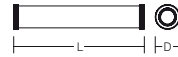
Impact Protection: IK10

Diffuser: plastic (polycarbonate), opal, shockproof. End caps plastic (polyamide) grey.
Integral driver. Easy installation with the Plug & Play Wieland RST® CLASSIC plug-in system.
Version without through wiring including RST CLASSIC plug connector for electrical connection.
Version with through wiring including pre-assembled RST CLASSIC plug / socket through wiring.
Please order accessories for the electrical connection separately.

Mounting set must be ordered separately.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Tube luminaires						
without through wiring						
601065.002	D 78, L 405	LED	850	1200	12	on/off
601066.002	D 78, L 685	LED	850	2650	23	on/off
601066.002.76	D 78, L 685	LED	850	2650	23	DALI
601067.002	D 78, L 965	LED	850	3900	33	on/off
601067.002.76	D 78, L 965	LED	850	3900	33	DALI
601068.002	D 78, L 1245	LED	850	5300	45	on/off
601068.002.76	D 78, L 1245	LED	850	5300	45	DALI
601069.002	D 78, L 1530	LED	850	6600	55	on/off
601069.002.76	D 78, L 1530	LED	850	6600	55	DALI
With through wiring						
601066.002.1	D 78, L 685	LED	850	2650	23	on/off
601066.002.1.76	D 78, L 685	LED	850	2650	23	DALI
601067.002.1	D 78, L 965	LED	850	3900	33	on/off
601067.002.1.76	D 78, L 965	LED	850	3900	33	DALI
601068.002.1	D 78, L 1245	LED	850	5300	45	on/off
601068.002.1.76	D 78, L 1245	LED	850	5300	45	DALI
601069.002.1	D 78, L 1530	LED	850	6600	55	on/off
601069.002.1.76	D 78, L 1530	LED	850	6600	55	DALI

Comparison LED vs. conventional lamps

LED 12 W ≈

1 x 24 W T16 (26 W Psys)

LED 23 W ≈

2 x 21 W T16 (45 W Psys)

1 x 39 W T16 (42 W Psys)

LED 33 W ≈

2 x 35 W T16 (76 W Psys)

1 x 54 W T16 (58 W Psys)

LED 45 W ≈

1 x 80 W T16 (86 W Psys)

LED 55 W ≈

2 x 54 W T16 (115 W Psys)

Wall or ceiling installation

Reference number	Dimensions [mm]	Description
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982117.009	L 98, B 21, H 93	Mounting bracket plastic (set 2 pieces)
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Pendant mounting

Reference number	Dimensions [mm]	Description
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982118.000	L 75, B 28, H 113	Mounting brackets with hanger assembly made of stainless steel (set 2 pieces)
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Accessories for the electrical connection of on/off luminaires with through wiring

Reference number	Dimensions [mm]	Description
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982764.003	L 79, B 35, H 35	Connector, 3 pole, with plug and socket RST20i3
982765.003	L 82, B 35, H 35	Socket for supply feeding RST20i3
982766.003	D 23, H 29	End cap RST20i3

Accessories for the electrical connection of DALI luminaires with through wiring

Reference number	Dimensions [mm]	Description
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982713.006	L 81, B 35, H 35	Connector, 5 pole, with plug and socket RST20i5
982714.006	L 81, B 35, H 35	Socket for supply feeding RST20i5
982715.003	D 30, H 32	End cap RST20i5



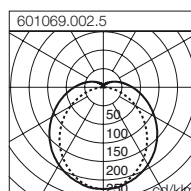
PLANOX TUBE FARM

Tube luminaire

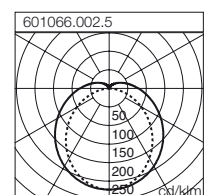
- **Certified by DLG.** This luminaire is resistant to ammonia and is suitable for high pressure cleaning with a min. distance of 5 cm
- Plug & Play Wieland RST® CLASSIC plug-in system
- Operating range: -20°C to +40°C
- ▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected
- Powerful LED board
- Colour consistency within 3-steps MacAdam (3 SDCM)
- LED rated life 50,000 h (L80/B10)
- Replaceable LED unit

- Diffuser made of ammonia resistant plastic (PMMA), end caps made of plastic (polyamide)
- Beam angle 260°
- Beam angle can be adjusted by turning the luminaire within the mounting brackets
- Position of mounting brackets can be adjusted
- With accessories for wall, ceiling or pendant mounting
- Suitable for use in the food and drink industry

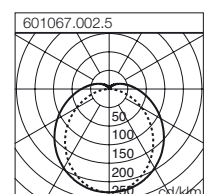
601069.002.5			
Floor 12 x 2,5 x 3m (0,2m)			
100 lx	150 lx	200 lx	
2	2	3	
Room 6 x 4 x 3 m (0,75 m)			
200 lx	300 lx	500 lx	
2	3	4	



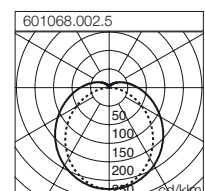
601066.002.5			
Floor 12 x 2,5 x 3m (0,2m)			
100 lx	150 lx	200 lx	
3	5	6	
Room 6 x 4 x 3 m (0,75 m)			
200 lx	300 lx	500 lx	
4	6	10	



601067.002.5			
Floor 12 x 2,5 x 3m (0,2m)			
100 lx	150 lx	200 lx	
2	3	4	
Room 6 x 4 x 3 m (0,75 m)			
200 lx	300 lx	500 lx	
3	4	7	



601068.002.5			
Floor 12 x 2,5 x 3m (0,2m)			
100 lx	150 lx	200 lx	
2	2	3	
Room 6 x 4 x 3 m (0,75 m)			
200 lx	300 lx	500 lx	
2	3	5	



Tube luminaire | Planox Tube Farm

Type of Protection: **IP 67**

Protection Class: I

Impact Protection: IK08

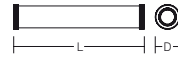
Diffuser: plastic (PMMA), opal. End caps plastic (polyamide) grey. Integral driver.

Easy installation with the Plug & Play Wieland RST® CLASSIC plug-in system.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Ammonia resistant: to be used in livestock housing and agricultural buildings.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Tube luminaires						Price Category 11
601066.002.5	D 78, L 685	LED	840	2650	23	on/off
601067.002.5	D 78, L 965	LED	840	3900	33	on/off
601068.002.5	D 78, L 1245	LED	840	5300	45	on/off
601069.002.5	D 78, L 1530	LED	840	6600	55	on/off

Comparison LED vs. conventional lamps

LED 23 W ≈

2 x 21 W T16 (45 W Psys)
1 x 39 W T16 (42 W Psys)

LED 33 W ≈

2 x 35 W T16 (76 W Psys)
1 x 54 W T16 (58 W Psys)

LED 45 W ≈

1 x 80 W T16 (86 W Psys)

LED 55 W ≈

2 x 54 W T16 (115 W Psys)

Wall or ceiling installation

Price Category 11

982118.010	L 125, B 28, H 175	Mounting brackets made of stainless steel with hanger bolts (set 2 pieces)
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Pendant mounting

Price Category 11

982118.000	L 75, B 28, H 113	Mounting brackets with hanger assembly made of stainless steel (set 2 pieces)
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PLANOX

Everything at a glance



Suitable for use in the food and drink industry

Homogeneous light distribution thanks to prismatic diffuser

Diffusers optionally in PMMA or PC

Seal between diffuser and housing is made of non-ageing PU (polyurethane) foam



Replaceable LED unit

LED board can be individually replaced



Terminal with plug connection - suitable for through wiring



Easy installation thanks to clip system

Diffusers held by stainless steel clips (standard)



Also available as an emergency luminaire in accordance with EN 60598-2-22

Standard automatic self-test

Wide luminaire spacing for escape route illumination



Housing and diffuser made of shockproof polycarbonate (PC)



Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected





PLANOX

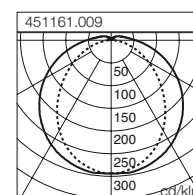
Ceiling and wall luminaires

- ▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.
- Colour rendering Ra 80
- LED rated life 50,000 h (L80/B10)
- Replaceable LED unit
- Housing made of polycarbonate (PC)
- Mould cast diffusers as inner prisms, UV resistant and provide homogenous light distribution
- Seal between diffuser and housing made of non-ageing PU (polyurethane) foam
- Diffusers held by stainless steel clips (standard)
- Easy to install with stainless steel quick fastening clips
- Suspensible LED tray for comfortable installation
- Suitable for use in the food and drink industry
- Also available as an emergency luminaire in accordance with DIN EN 60598-2-22

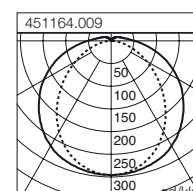


Further luminaires of this series, see:
Emergency lighting | Escape route illumination

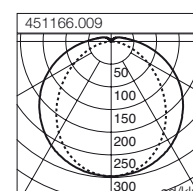
451161.009		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	6	9



451164.009		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	5



451166.009		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4



Ceiling and wall luminaires | Planox

Type of Protection: **IP 66**

Protection Class: I

Impact Protection: IK03 (PMMA), IK08 (polycarbonate)

Base: plastic (polycarbonate). White painted, interior fastening element made of steel plate.

Diffuser: plastic (PMMA or PC) prismatic inside. Diffuser fastening: stainless steel clips.

⚠ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colour: 9 = grey



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able	
Ceiling and wall luminaires							Price Category 11
Diffuser: plastic (PMMA)							
Length L 658 mm							
451161.009	L 658, B 96, H 100	LED	840	2850	23	on/off	✓
451161.009.76	L 658, B 96, H 100	LED	840	2850	23	DALI	
Length L 1278 mm							
451162.009	L 1278, B 96, H 100	LED	840	3350	28	on/off	✓
451162.009.76	L 1278, B 96, H 100	LED	840	3350	28	DALI	
451163.009	L 1278, B 96, H 100	LED	840	5100	41	on/off	✓
451163.009.76	L 1278, B 96, H 100	LED	840	5100	41	DALI	
451164.009	L 1278, B 96, H 100	LED	840	5700	48	on/off	✓
451164.009.76	L 1278, B 96, H 100	LED	840	5700	48	DALI	
Length L 1573 mm							
451165.009	L 1573, B 96, H 100	LED	840	4150	34	on/off	✓
451165.009.76	L 1573, B 96, H 100	LED	840	4150	34	DALI	
451166.009.Q	L 1573, B 96, H 100	LED	840	6550	54	on/off	✓
451166.009.76	L 1573, B 96, H 100	LED	840	6550	54	DALI	
Diffuser: plastic (polycarbonate)							
Length L 658 mm							
451161.009.1	L 658, B 96, H 100	LED	840	2750	23	on/off	✓
451161.009.1.76	L 658, B 96, H 100	LED	840	2750	23	DALI	
Length L 1278 mm							
451162.009.1	L 1278, B 96, H 100	LED	840	3250	28	on/off	✓
451162.009.1.76	L 1278, B 96, H 100	LED	840	3250	28	DALI	
451163.009.1	L 1278, B 96, H 100	LED	840	4850	41	on/off	✓
451163.009.1.76	L 1278, B 96, H 100	LED	840	4850	41	DALI	
451164.009.1	L 1278, B 96, H 100	LED	840	5400	48	on/off	✓
451164.009.1.76	L 1278, B 96, H 100	LED	840	5400	48	DALI	
Length L 1573 mm							
451165.009.1	L 1573, B 96, H 100	LED	840	4050	34	on/off	✓
451165.009.1.76	L 1573, B 96, H 100	LED	840	4050	34	DALI	
451166.009.1	L 1573, B 96, H 100	LED	840	6350	54	on/off	✓
451166.009.1.76	L 1573, B 96, H 100	LED	840	6350	54	DALI	



Comparison LED vs. conventional lamps

LED 23 / 28 W ≈

2 x 18 W T26 (52 W Psys)
1 x 36 W T26 (43 W Psys)
2 x 24 W T16 (49 W Psys)
1 x 35 W T16 (38 W Psys)

LED 34 W ≈

2 x 36 W T26 (86 W Psys)
1 x 58 W T26 (67 W Psys)
1 x 49 W T16 (53 W Psys)

LED 41 / 48 W ≈

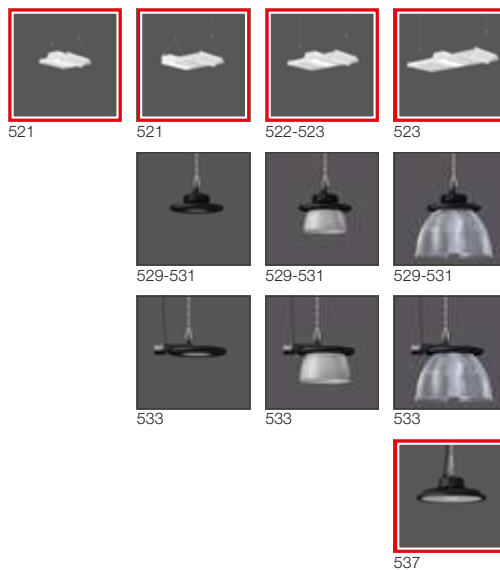
2 x 36 W T26 (86 W Psys)
2 x 28 W T16 (61 W Psys)

LED 54 W ≈

2 x 58 W T26 (134 W Psys)
1 x 80 W T16 (86 W Psys)



The application image shows:
Industrial Hall



Light Case
518-525

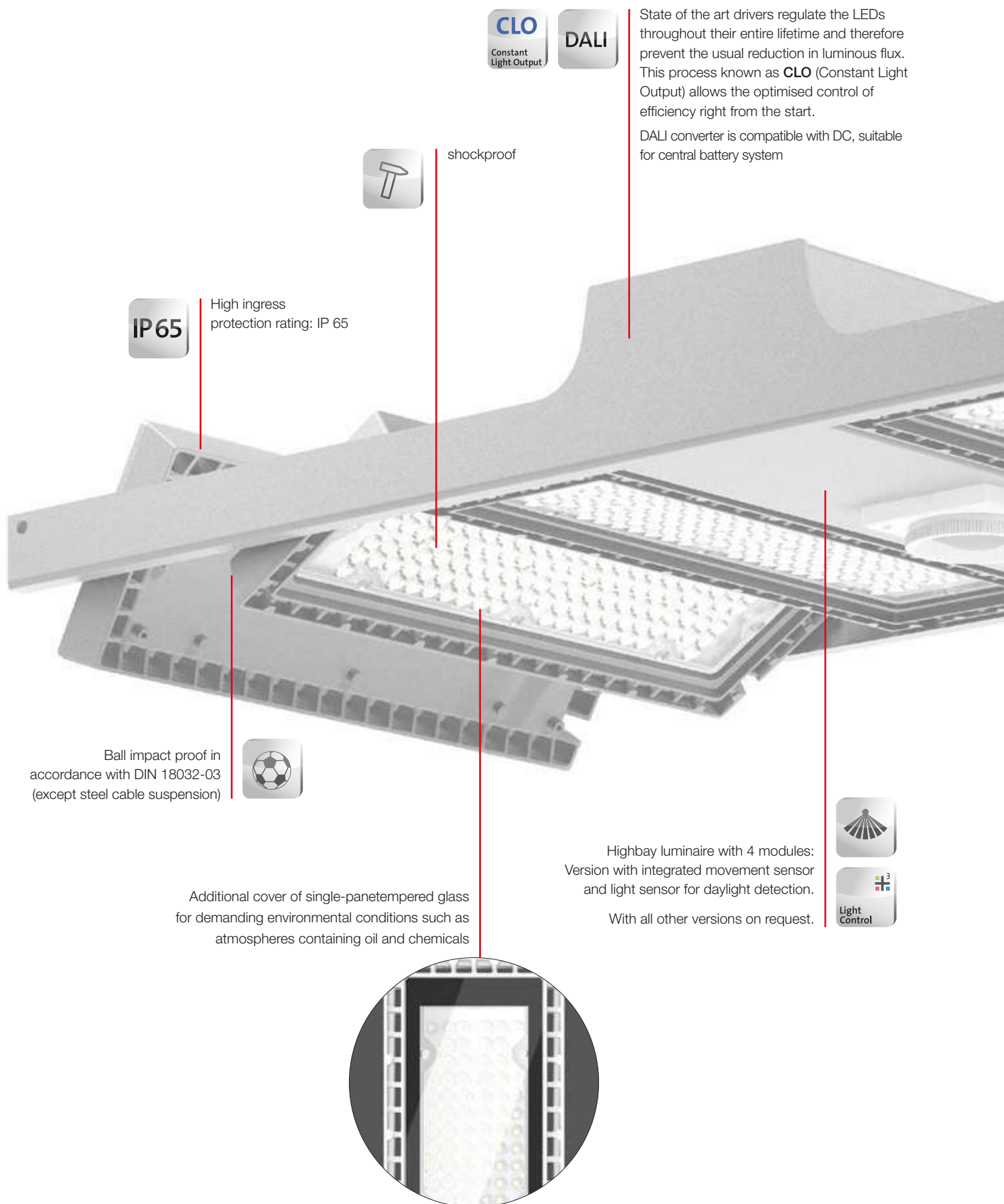
Industrial Hall
526-531

Industrial Hall HT
532-533

Industrial Hall EVO
534-537

LIGHT CASE®

Everything at a glance



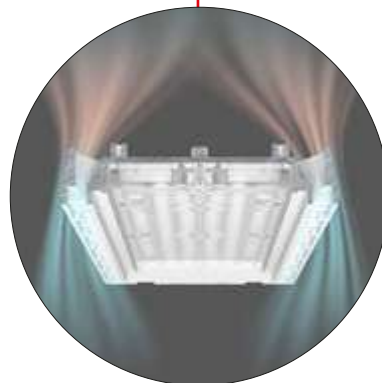
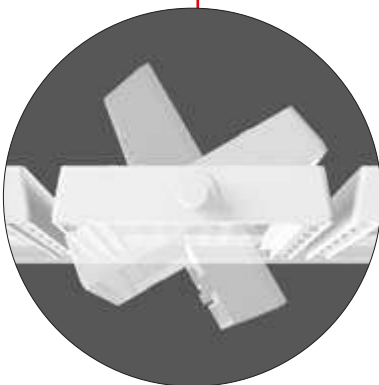


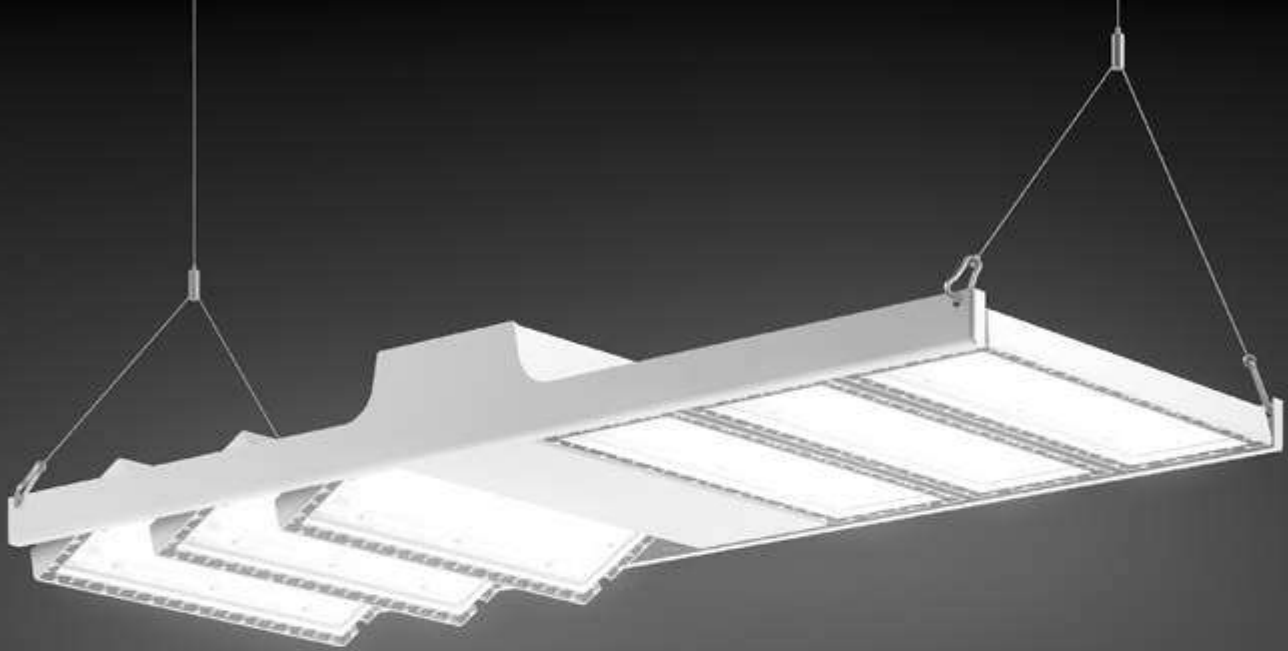
Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected



"Self cleaning" heat sink: Vertical cooling ribs prevent dust deposits and ensure constant heat dissipation

LED module can be swivelled $\pm 30^\circ$.
There is also the option to rotate the module through 180° for indirect light.



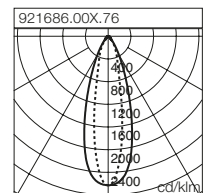


LIGHT CASE®

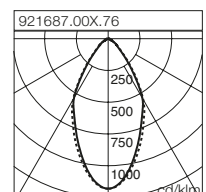
Highbay luminaires

- Compact and flat Highbay
- 1:1 substitute for HME / HIE and HSE lamps
- Operating range: -30°C to +55°C
- Highly efficient up to 159 lm/W
- ▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.
- Ball impact protection in accordance with DIN 18032-03
- **LED module can be swivelled $\pm 30^\circ$**
- **LED module can be rotated through 180° for indirect light**
- DALI dimmable converter as standard
- LED rated life 50,000 h (L_{CLO}), CLO control for constant light output over the entire service life
- DALI converter is compatible with DC, suitable for central battery system
- Version with tempered glass for demanding environmental conditions
- Version with integrated movement sensor and light sensor for daylight detection
- Accessories for direct ceiling installation, cable and chain pendant mounting available

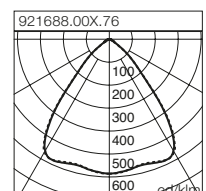
921686.00X.76				
Hall 50 x 30 m (0 m)				
Lph	100 lx	300 lx	500 lx	
12 m	23	67	111	
15 m	23	68	113	
18 m	24	71	118	
21 m	24	71	118	



921687.00X.76				
Hall 50 x 30 m (0 m)				
Lph	100 lx	300 lx	500 lx	
12 m	24	70	116	
15 m	24	72	119	
18 m	26	77	129	
21 m	26	77	129	



921688.00X.76				
Hall 50 x 30 m (0 m)				
Lph	100 lx	300 lx	500 lx	
12 m	24	71	117	
15 m	25	73	121	
18 m	27	80	133	
21 m	27	80	133	



Highbay luminaires | Light Case

Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK05

Housing: die cast aluminium and sheet steel, powder-coated. LED modules can be swivelled $\pm 30^\circ$ for optimum illumination. Cover: plastic (polycarbonate, shockproof), with integrated four-row lens system. Lens optics for different light distribution versions. With 5-pin connection terminal (1.5 m). CLO control for constant light output over the entire service life.

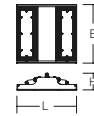
Ball impact proof in accordance with DIN 18032-03 (except steel cable suspension).

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

With integrated movement sensor and light sensor for daylight detection on request.

Suitable for chain or steel cable suspension (provided by the client).

Available colours (X): 2 = white, 4 = silver metallic



Comparison LED vs. conventional lamps

LED 117 W \approx
1 x 250 W HIE (275 W Psys)



Highbay luminaires with 2 modules

Price Category 21

Narrow beam light distribution

921680.00X.76	L 406, B 397, H 110	LED	840	17700	117	22,2	DALI
921680.00X.1.76 *	L 406, B 397, H 110	LED	865	17300	117	22,5	DALI

Light distribution deep-wide beam

921681.00X.76	L 406, B 397, H 110	LED	840	17700	117	23,4	DALI
921681.00X.1.76 *	L 406, B 397, H 110	LED	865	17400	117	23,4	DALI

Wide beam light distribution

921682.00X.76	L 406, B 397, H 110	LED	840	17800	117	24,3	DALI
921682.00X.1.76 *	L 406, B 397, H 110	LED	865	17400	117	24,5	DALI

* Photobiological safety according to EN 62471: RG2

Highbay luminaires | Light Case

Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK05

Housing: die cast aluminium and sheet steel, powder-coated. LED modules can be swivelled $\pm 30^\circ$ for optimum illumination. Cover: plastic (polycarbonate, shockproof), with integrated four-row lens system. Lens optics for different light distribution versions. With 5-pin connection terminal (1.5 m). CLO control for constant light output over the entire service life.

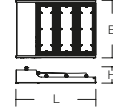
Ball impact proof in accordance with DIN 18032-03 (except steel cable suspension).

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

With integrated movement sensor and light sensor for daylight detection on request.

Suitable for chain or steel cable suspension (provided by the client).

Available colours (X): 2 = white, 4 = silver metallic



Comparison LED vs. conventional lamps

LED 168 W \approx
1 x 400 W HIE (440 W Psys)



Highbay luminaires with 3 modules

Price Category 21

Narrow beam light distribution

921683.00X.76	L 544, B 397, H 110	LED	840	26500	168	22,2	DALI
921683.00X.1.76 *	L 544, B 397, H 110	LED	865	26000	168	22,5	DALI

Light distribution deep-wide beam

921684.00X.76	L 544, B 397, H 110	LED	840	26500	168	23,4	DALI
921684.00X.1.76 *	L 544, B 397, H 110	LED	865	26100	168	23,4	DALI

Wide beam light distribution

921685.00X.76	L 544, B 397, H 110	LED	840	26700	168	24,3	DALI
921685.00X.1.76 *	L 544, B 397, H 110	LED	865	26100	168	24,5	DALI

* Photobiological safety according to EN 62471: RG2



Comparison
LED vs. conventional lamps

LED 225 W ≈
1 x 400 W HIE (440 W Psys)

Highbay luminaires | Light Case

Type of Protection: **IP 65**
Protection Class: I
Impact Protection: IK05

Housing: die cast aluminium and sheet steel, powder-coated. LED modules can be swivelled ± 30° for optimum illumination. Cover: plastic (polycarbonate, shockproof), with integrated four-row lens system. Lens optics for different light distribution versions. With 5-pin connection terminal (1.5 m). CLO control for constant light output over the entire service life.

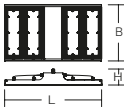
Ball impact proof in accordance with DIN 18032-03 (except steel cable suspension).

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

With integrated movement sensor and light sensor for daylight detection on request.

Suitable for chain or steel cable suspension (provided by the client).

Available colours (X): 2 = white, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable	Price Category 21
Highbay luminaires with 4 modules								
Narrow beam light distribution								
921686.00X.76	L 680, B 397, H 110	LED	840	35300	225	22,2	DALI	
921686.00X.1.76 *	L 680, B 397, H 110	LED	865	34600	225	22,5	DALI	
Light distribution deep-wide beam								
921687.00X.76	L 680, B 397, H 110	LED	840	35400	225	23,4	DALI	
921687.00X.1.76 *	L 680, B 397, H 110	LED	865	34800	225	23,4	DALI	
Wide beam light distribution								
921688.00X.76	L 680, B 397, H 110	LED	840	35600	225	24,3	DALI	
921688.00X.1.76 *	L 680, B 397, H 110	LED	865	34800	225	24,5	DALI	

* Photobiological safety according to EN 62471: RG2



Comparison
LED vs. conventional lamps

LED 225 W ≈
1 x 400 W HIE (440 W Psys)

Highbay luminaires | Light Case ESG

Type of Protection: **IP 65**
Protection Class: I
Impact Protection: IK05

Housing: die cast aluminium and sheet steel, powder-coated. LED modules can be swivelled ± 30° for optimum illumination. Cover: plastic (polycarbonate, shockproof), with integrated four-row lens system. **Additional cover of single-pane tempered glass for demanding environmental conditions such as atmospheres containing oil and chemicals.** With 5-pin connection terminal (1.5 m). CLO control for constant light output over the entire service life.

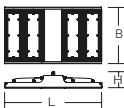
Ball impact proof in accordance with DIN 18032-03 (except steel cable suspension).

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

With integrated movement sensor and light sensor for daylight detection on request.

Suitable for chain or steel cable suspension (provided by the client).

Available colours (X): 2 = white, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable	Price Category 21
Highbay luminaires with 4 modules								
Wide beam light distribution								
921694.00X.76	L 680, B 397, H 110	LED	840	35600	225	24,3	DALI	

Highbay luminaires | Light Case Sensor

Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK02

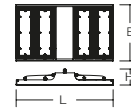
Housing: die cast aluminium and sheet steel, powder-coated. LED modules can be swivelled $\pm 30^\circ$ for optimum illumination. Cover: plastic (polycarbonate, shockproof), with integrated four-row lens system. With 5-pin connection terminal (1.5 m). Built-in DALI sensor for daylight- and presence-dependent lighting control. CLO control for constant light output over the entire service life.

Ball impact proof in accordance with DIN 18032-03 (except steel cable suspension).

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Suitable for chain or steel cable suspension (provided by the client).

Available colours (X): 2 = white, 4 = silver metallic



DALI 1 sensor

Light and presence sensor (DALI 1):

Housing: plastic. Functions can be used separately. 2 DALI input addresses. Detection range: 18 m.

Light sensor range: 20-800 lx (measured at the sensor). Installation height: up to 13 m.

Example of use: Walking motion detection of persons: 3-10 m installation height.

Vehicle motion detector (e.g. fork lift): 3-13 m installation height.

Light and presence sensor (DALI 2):

Housing: plastic. Detection range: 12 - 18 m. Detection angle: to 72° .

Light sensor range: 0,5-2000 lx (measured at the sensor). Installation height: 8 - 18 m.

Example of use: Warehouses, corridors, passageways, garages.



DALI 2 sensor



Highbay luminaires with 4 modules

Price Category 21

Wide beam light distribution

DALI 1 sensor

921692.00X.76 L 680, B 397, H 178 LED 840 35600 225 24,3 DALI

DALI 2 sensor

921693.00X.76 L 680, B 397, H 131 LED 840 35600 225 24,3 DALI

Comparison

LED vs. conventional lamps

LED 225 W \approx

1 x 400 W HIE (440 W Psys)

Highbay luminaires | Light Case

Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK05

Housing: die cast aluminium and sheet steel, powder-coated. LED modules can be swivelled $\pm 30^\circ$ for optimum illumination. Cover: plastic (polycarbonate, shockproof), with integrated four-row lens system. Lens optics for different light distribution versions. With 5-pin connection terminal (1.5 m). CLO control for constant light output over the entire service life.

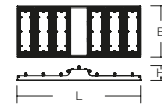
Ball impact proof in accordance with DIN 18032-03 (except steel cable suspension).

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

With integrated movement sensor and light sensor for daylight detection on request.

Suitable for chain or steel cable suspension (provided by the client).

Available colours (X): 2 = white, 4 = silver metallic



Highbay luminaires with 6 modules

Price Category 21

Narrow beam light distribution

921689.00X.76 L 956, B 397, H 110 LED 840 53000 335 22,2 DALI

921689.00X.1.76 * L 956, B 397, H 110 LED 865 52000 335 22,5 DALI

Light distribution deep-wide beam

921690.00X.76 L 956, B 397, H 110 LED 840 53000 335 23,4 DALI

921690.00X.1.76 * L 956, B 397, H 110 LED 865 52200 335 23,4 DALI

Wide beam light distribution

921691.00X.76 L 956, B 397, H 110 LED 840 53300 335 24,3 DALI

921691.00X.1.76 * L 956, B 397, H 110 LED 865 52200 335 24,5 DALI

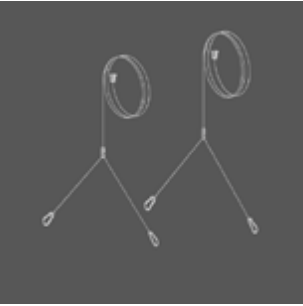
* Photobiological safety according to EN 62471: RG2

Comparison

LED vs. conventional lamps

LED 335 W \approx

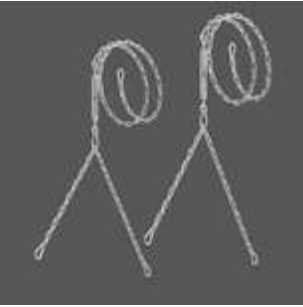
3 x 250 W HIE (825 W Psys)



Accessories

Suspension cable set for torsion- and vibration-free horizontal mounting.
Consisting of 2 Y-type steel cables and snaplinks for a 2-point suspension.

Reference number	Dimensions [mm]		Price Category 21
Pendant mounting			
982642.000	LP 1750	Suspension cable set	



Accessories

Chain suspension set for torsion- and vibration-free horizontal mounting.
Consisting of 2 knotted chains with turnbuckle and snaplink.

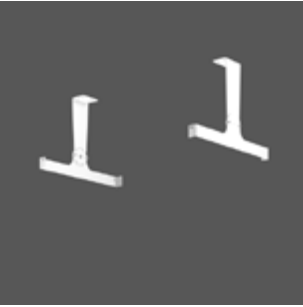
Reference number	Dimensions [mm]		Price Category 21
Pendant mounting			
982642.010	LP 1850	Chain suspension set	



Accessories

For attaching chain or rope pendulum sets to a suspension point.
Available colour: 2 = white

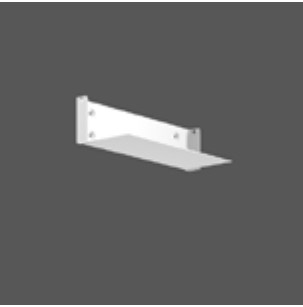
Reference number	Dimensions [mm]		Price Category 21
Mounting accessories for pendant set			
982689.002	L 70, B 30, H 19	Ceiling mounting element for single-point suspension	



Accessories

Mounting bracket for wall and ceiling mounting, 180° swivelling. Angle adjustable in 15° steps.
Available colours (X): 2 = white, 4 = silver metallic

Reference number	Dimensions [mm]		Price Category 21
Wall and ceiling mounting bracket			
982691.01X	L 403, B 61, H 283	For luminaire with 2, 4 or 6 modules	
982691.00X	L 403, B 61, H 346	For luminaire with 3 modules	



Accessories

Mounting bracket for wall mounting.
Available colours (X): 2 = white, 4 = silver metallic

Reference number	Dimensions [mm]		Price Category 21
Wall mounting			
982690.00X	L 146, B 401, H 100	For luminaire with 3 modules	



© shutter stock

The application image shows:
Light Case

INDUSTRIAL HALL

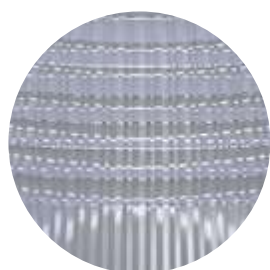
Everything at a glance

Simple to install thanks to
1-point suspension

High ingress protection rating: IP 65

IP65

Luminaire prepared as standard for holding mounting
bracket, reflector and refractor.
Fast and easy installation through keyhole mounting.



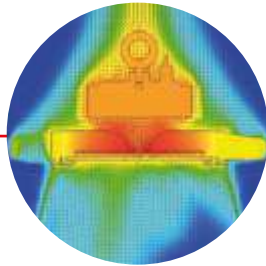
Refractor: transparent plastic (PMMA), prismatic
on the outside for additional ceiling illumination
(approx. 6% indirect light) and harmonious
distribution of brightness in the room.
Brilliant and elegant light distribution.
Excellent luminaire operating
efficiency level.



Suitable for use in the food and drink industry

DALI

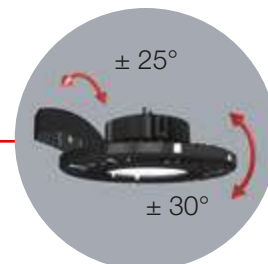
DALI converter is compatible with DC, suitable for central emergency power supply purposes (Midi and Maxi)



Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected

Airflows prevent dust deposits and ensure optimum thermomanagement.

Accessoires available: Wall and ceiling mounting bracket



Glare limitation through accessories with reflectors and refractors



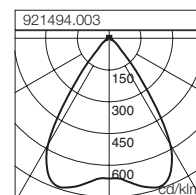


INDUSTRIAL HALL

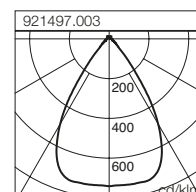
Highbay luminaires

- Compact and flat hall luminaire
- 1:1 substitute for HME / HIE and HSE lamps
- Luminous efficiency up to 130 lm/W
- LED rated life 50,000 h (L70/B10)
- Glare limitation through accessories with reflectors ($UGR \leq 22$) and refractors ($UGR \leq 19$ up to 25)
- Non-reflecting, single pane safety glass (toughened glass)
- Operating range: -20°C to $+40^{\circ}\text{C}$
- ▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected
- Easy to install thanks to 1-point suspension
- Suitable for use in the food and drink industry

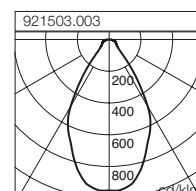
921503.003				
Hall 50 x 30 m (0 m)				
Lph	100 lx	300 lx	500 lx	
6 m	25	74	123	
9 m	27	79	131	
12 m	28	84	140	
15 m	29	87	145	



921494.003				
Hall 50 x 30 m (0 m)				
Lph	100 lx	300 lx	500 lx	
6 m	9	26	43	
9 m	9	27	45	
12 m	10	29	48	
15 m	10	30	50	



921497.003				
Hall 50 x 30 m (0 m)				
Lph	100 lx	300 lx	500 lx	
6 m	7	19	32	
9 m	7	20	34	
12 m	8	22	36	
15 m	8	22	37	



Highbay luminaires | Industrial Hall Mini

Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK08, IK03 (Refractor: plastic (PMMA))

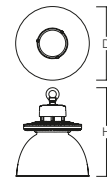
LED Highbay luminaire for chain or cable suspension.


Housing: die-cast aluminium with eye ring, powder-coated. Cover clear single-pane tempered glass. Primary light control with high-performance wide-area LEDs in light colour 840 and 830. With power cord (1.5 m). Dimming range 10% to 100%.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Suitable for chain or steel cable suspension (provided by the client).

Available colour: 3 = black



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 UGR	dim-able	
Highbay luminaires								Price Category 21
Without lamp cover								
921498.003	D 249, H 190	LED	840	4500	39	105 31,8	on/off	
921498.003.76	D 249, H 180	LED	840	4500	39	105 31,8	DALI	
921499.003.1	D 249, H 190	LED	830	7900	77	104 33,7	on/off	
921499.003	D 249, H 190	LED	840	8500	77	105 34,1	on/off	
921499.003.76	D 249, H 180	LED	840	8500	77	105 34,1	DALI	
Reflector: aluminium								
921500.003	D 249, H 259	LED	840	4000	39	93 25,1	on/off	
921500.003.76	D 249, H 249	LED	840	4000	39	93 25,1	DALI	
921501.003.1	D 249, H 259	LED	830	7050	77	92 26,9	on/off	
921501.003	D 249, H 259	LED	840	7650	77	93 27,3	on/off	
921501.003.76	D 249, H 249	LED	840	7650	77	93 27,3	DALI	
Refractor: PMMA, transparent								
921502.003	D 315, H 379	LED	840	4150	39	60 16,8	on/off	
921502.003.76	D 315, H 369	LED	840	4150	39	60 16,8	DALI	
921503.003.1	D 315, H 379	LED	830	7600	77	60 18,6	on/off	
921503.003	D 315, H 379	LED	840	7950	77	60 19,0	on/off	
921503.003.76	D 315, H 369	LED	840	7950	77	60 19,0	DALI	

Comparison LED vs. conventional lamps

LED 39 W ≈

2 x 42 W TC-TEL (90 W Psys)
1 x 70 W HIT (84 W Psys)

LED 77 W ≈

1 x 150 W HIT (160 W Psys)
4 x 42 W TC-TEL (180 W Psys)

Accessories | Ceiling and wall mounting bracket

Wall and ceiling mounting bracket made of black metal (wall installation: open beam and with reflector)

Ceiling and wall mounting bracket								Price Category 21
982265.003	L 253, B 90, H 157							



Reflector: aluminium								Price Category 21
982266.004	D 180, H 70							



Refractor: plastic								Price Category 21
982267.000	D 315, H 188							



Fig. without cover



Fig. with reflector



Fig. with refractor (DALI)



Ceiling and wall mounting bracket



Comparison LED vs. conventional lamps

LED 97 W ≈

1 x 150 W HIT (160 W Psys)
1 x 250 W HME (275 W Psys)

LED 139 W ≈

1 x 250 W HIE (275 W Psys)
1 x 400 W HME (440 W Psys)

LED 202 W ≈

1 x 400 W HIE (440 W Psys)

Highbay luminaires | Industrial Hall Midi

Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07, IK03 (Refractor: plastic (PMMA))

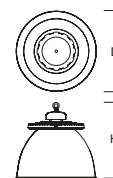
LED Highbay luminaire for chain or cable suspension.


Housing: die-cast aluminium with eye ring, powder-coated. Cover clear single-pane tempered glass. Primary light control with high-performance wide-area LEDs in light colour 840. With power cord (1.5 m). Dimming range 10% to 100%.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Suitable for chain or steel cable suspension (provided by the client).

Available colour: 3 = black



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	UGR	dimmable	Price Category 21
Highbay luminaires									
Without lamp cover									
921483.003	D 390, H 205	LED	840	12800	97	113	32,2	on/off	
921483.003.76	D 390, H 205	LED	840	12800	97	113	32,2	DALI	
921484.003 .Q	D 390, H 205	LED	840	18000	139	110	33,4	on/off	
921484.003.76	D 390, H 205	LED	840	18000	139	110	33,4	DALI	
921485.003 .Q	D 390, H 210	LED	840	26300	202	112	34,7	on/off	
921485.003.76	D 390, H 210	LED	840	26300	202	112	34,7	DALI	
Reflector: aluminium									
921486.003	D 390, H 355	LED	840	11200	97	86	23,4	on/off	
921486.003.76	D 390, H 355	LED	840	11200	97	86	23,4	DALI	
921487.003	D 390, H 355	LED	840	15800	139	87	24,9	on/off	
921487.003.76	D 390, H 355	LED	840	15800	139	87	24,9	DALI	
921488.003	D 390, H 360	LED	840	23500	202	87	26,1	on/off	
921488.003.76	D 390, H 360	LED	840	23500	202	87	26,1	DALI	
Refractor: PMMA, transparent									
921492.003	D 570, H 548	LED	840	10800	97	69	12,5	on/off	
921492.003.76	D 570, H 548	LED	840	10800	97	69	12,5	DALI	
921493.003	D 570, H 548	LED	840	15300	139	70	13,9	on/off	
921493.003.76	D 570, H 548	LED	840	15300	139	70	13,9	DALI	
921494.003	D 570, H 553	LED	840	22200	202	69	15,1	on/off	
921494.003.76	D 570, H 553	LED	840	22200	202	69	15,1	DALI	



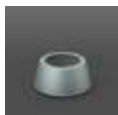
Accessories | Ceiling and wall mounting bracket

Wall and ceiling mounting bracket made of black metal (wall installation: open beam and with reflector)

Ceiling and wall mounting bracket

Price Category 21

982112.003 L 394, B 124, H 232



Reflector: aluminium

Price Category 21

982114.004 D 327, H 150



Refractor: plastic

Price Category 21

982115.000 D 570, H 343



Ceiling and wall mounting bracket



Fig. without cover



Fig. with reflector



Fig. with refractor (DALI)

Highbay luminaires | Industrial Hall Maxi

Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07, IK03 (Refractor: plastic (PMMA))

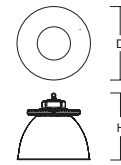
LED Highbay luminaire for chain or cable suspension.


Housing: die-cast aluminium with eye ring, powder-coated. Cover clear single-pane tempered glass. Primary light control with high-performance wide-area LEDs in light colour 840 and 850. With power cord (1.5 m). Dimming range 10% to 100%.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Suitable for chain or steel cable suspension (provided by the client).

Available colour: 3 = black



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 UGR	dim-able	
Highbay luminaires								Price Category 21
Without lamp cover								
921495.003	D 430, H 205	LED	840	31200	251	111 34,0	on/off	
921495.003.76	D 430, H 205	LED	840	31200	251	111 34,0	DALI	
921495.003.2.76	D 430, H 205	LED	850	32150	251	111 33,9	DALI	
Reflector: aluminium								
921496.003	D 430, H 399	LED	840	27550	251	85 24,3	on/off	
921496.003.76	D 430, H 399	LED	840	27550	251	85 24,3	DALI	
921496.003.2.76	D 430, H 399	LED	850	28400	251	85 24,2	DALI	
Refractor: PMMA, transparent								
921497.003	D 570, H 547	LED	840	29700	251	67 17,0	on/off	
921497.003.76	D 570, H 547	LED	840	29700	251	67 17,0	DALI	
921497.003.2.76	D 570, H 547	LED	850	30600	251	67 16,8	DALI	

Comparison LED vs. conventional lamps

LED 251 W ≈

1 x 400 W HIE (440 W Psys)

Accessories | Ceiling and wall mounting bracket

Wall and ceiling mounting bracket made of black metal (wall installation: open beam and with reflector)

Ceiling and wall mounting bracket

982337.003 L 434, B 122, H 229

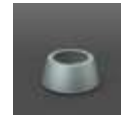
Price Category 21



Reflector: aluminium

982338.004 D 380, H 194

Price Category 21



Refractor: plastic

982115.010 D 570, H 343

Price Category 21



Fig. without cover



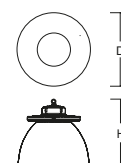
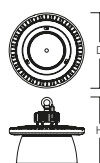
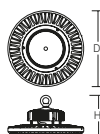
Fig. with reflector



Fig. with refractor (DALI)



Ceiling and wall mounting bracket



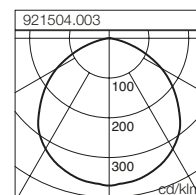


INDUSTRIAL HALL HT

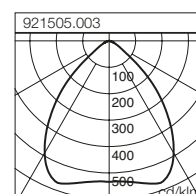
Highbay luminaires

- Compact and flat hall luminaire
- LED rated life 50,000 h (L70/B10) at 60°C ambient temperature
- LED rated life 35,000 h (L70/B10) at 65°C ambient temperature
- Non-reflecting, single pane safety glass (toughened glass)
- Operating range: -10°C to +65°C
- ▼ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected
- Easy to install thanks to 1-point suspension
- Suitable for use in the food and drink industry

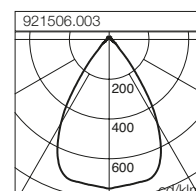
921504.003				
Hall 50 x 30 m (0 m)				
Lph	100 lx	300 lx	500 lx	
6 m	11	31	51	
9 m	11	34	56	
12 m	13	38	62	
15 m	14	40	67	



921505.003				
Hall 50 x 30 m (0 m)				
Lph	100 lx	300 lx	500 lx	
6 m	11	33	55	
9 m	12	35	58	
12 m	13	38	63	
15 m	13	39	66	



921506.003				
Hall 50 x 30 m (0 m)				
Lph	100 lx	300 lx	500 lx	
6 m	11	31	52	
9 m	11	33	55	
12 m	12	35	59	
15 m	13	37	61	



Highbay luminaires | Industrial Hall Maxi HT (High Temperature)

Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07, IK03 (Refractor: plastic (PMMA))

LED Highbay luminaire for chain or cable suspension.

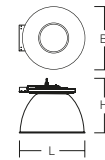
Operating range -10°C to +65°C

Housing: die-cast aluminium with eye ring, powder-coated. Cover clear single-pane tempered glass. Primary light control with high-performance wide-area LEDs in light colour 840. With power cord (1.5 m).

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Suitable for chain or steel cable suspension (provided by the client).


Available colour: 3 = black



Comparison LED vs. conventional lamps

LED 148 W ≈

1 x 250 W HIE (275 W P_{sys})

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	UGR	dimmable	Price Category 21
Highbay luminaires									
Without lamp cover									
921504.003	L 520, B 428, H 76	LED	840	18850	148	110	32,2	on/off	
Reflector: aluminium									
921505.003	L 520, B 428, H 334	LED	840	16650	148	85	22,7	on/off	
Refractor: PMMA, transparent									
921506.003	L 590, B 520, H 415	LED	840	18000	148	67	19,0	on/off	

Reflector: aluminium									
982338.004	D 380, H 194								Price Category 21



Refractor: plastic									
982115.010	D 570, H 343								Price Category 21



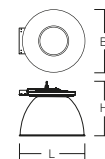
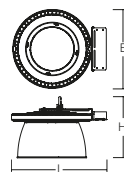
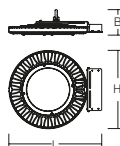
Fig. without cover



Fig. with reflector



Fig. with refractor



INDUSTRIAL HALL EVO

Everything at a glance

High ingress protection rating: IP 65

IP65

Housing made of special plastic-graphite compound for optimum thermal management



Integrable movement sensor as an accessory available

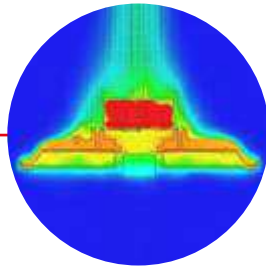
Quick and easy adjustment of the most important parameters by remote control



Suitable for use in the food and drink industry



Simple to install thanks to
1-point suspension



Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected



MultiLumen version:

3 steps adjustable luminous flux.

This can be reversibly set manually on the external control gear.

Two-component optical system for
glare-free lighting up to $UGR \leq 19$

Highly efficient up to 161 lm/W

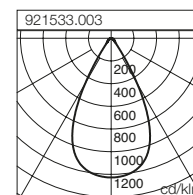


INDUSTRIAL HALL EVO

Highbay luminaires

- Compact and flat hall luminaire
- Housing made of special plastic-graphite compound for optimum thermal management
- **MultiLumen:** 3 steps adjustable luminous flux
- Two-component optical system for glare-free lighting up to $UGR \leq 19$
- Highly efficient up to 161 lm/W
- LED rated life 50,000 h (L80/B10)
- Operating range: -30°C to $+50^{\circ}\text{C}$
- Integrable movement sensor as an accessory available
- ▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected
- Suitable for use in the food and drink industry

921533.003				
Hall 50 x 30 m (0 m)				
Lph	100 lx	300 lx	500 lx	
12 m	9	25	42	
15 m	9	26	43	
18 m	9	27	45	
21 m	9	27	44	



Highbay luminaires | Industrial Hall EVO

Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK08

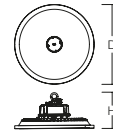
Housing made of special plastic-graphite compound for optimum thermal management. Specially matched 2-component polycarbonate optical system. Maximum efficiency and glare-free lighting up to UGR ≤ 19. Easy to install thanks to 1-point suspension. Operating range -30°C to +50°C. Integrable movement sensor as an accessory.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Suitable for chain or steel cable suspension (provided by the client).

Available colour: 3 = black

MultiLumen version: 3 steps adjustable luminous flux. Factory-set to highest luminous flux.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	UGR	dimmable
Highbay luminaires							Price Category 21
921533.003 *	D 380, H 150	LED	840	12200...23200	76...151	55	17,4...19,8 on/off

* **MultiLumen version:** Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Accessories | Movement sensor

Stand-alone movement sensor for presence-dependent lighting control with built-in daylight sensor. Presence detection using passive IR element for installation heights from 3 to max. 15 m. Detection area: 360° up to 10 m. Operating range -30°C to +40°C. Quick and easy adjustment of the most important parameters by remote control (order separately: 982697.002).

Movement sensor							Price Category 21
982681.002	D 55, H 65						



Remote control							Price Category 21
982697.002	L 175, B 56, H 28	Remote control for movement sensor: 982681.002					



MultiLumen: Adjustable luminous flux

921533.003		
Step	Luminous flux [lm]	System power [W]
1	12200	76
2	17600	110
3	23200	151





LIGHT MANAGEMENT



The application image shows:
Sidelite ECO
Deecos S
light control +³ Professional

© Linus Lintner



546

light control +³ Economy
Blu2Light
546-549



550

light control +³ Economy
Multi DALI
550-553



554

Casambi smart+free
554-557



558

light control +³ Professional
Control
558-561



562

light control +³ Professional
Customised
562-563

Components for controlling individual rooms



564

Stand-alone controllers
564-567



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LIGHT MANAGEMENT SYSTEMS

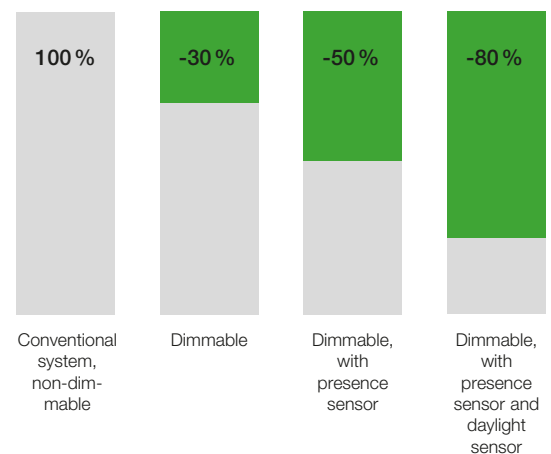
Overview

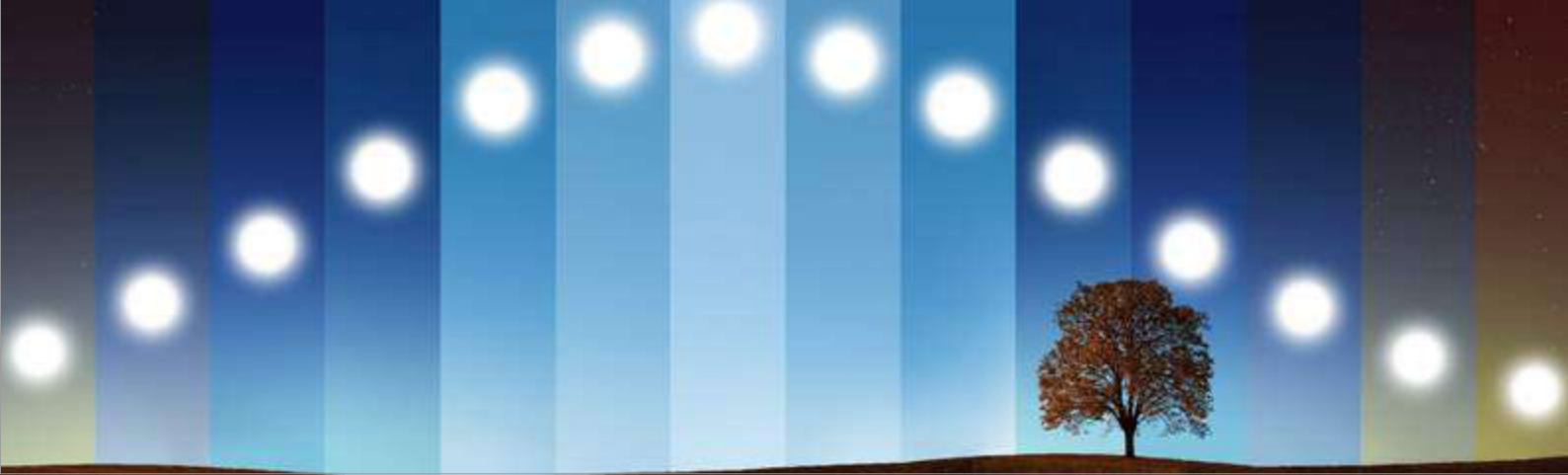
Modern lighting management ensures a significant increase in energy efficiency, economy and comfort and is an indispensable part of responsible and resource-saving corporate and household management.

RZB Lighting has always considered lighting management as an elementary part of a holistic planning approach and has long been considered a reliable partner in this area as well, offering consistently high quality products and advice.

- Daylight-dependent control
- Movement/presence detection
- Energy-saving
- Reduction of CO₂ emissions
- Timer and calendar functions
- Human Centric Lighting (HCL)

80%





HCL (HUMAN CENTRIC LIGHTING)

Feel better, be more efficient.

During evolution humans have developed a complex system of internal timers, the so-called circadian system by the perception of light and dark, cold and warm, as well as by the change of seasons, with daylight being the natural timer for this rhythm.

Only a few years ago scientists discovered in the eye's retina those cells which are not required for seeing, but are setting our internal timer by suppressing or distributing the hormone melatonin. Now chronobiologists, lighting designers and architects have the chance to decisively improve our living conditions by using dynamic light.

Biologically effective light in "tunable white" versions aims to support the hormone control process by simulating the light colour and intensity of the natural course of daylight.

Changing light scenes in the dynamic rhythm of daylight can have an extremely positive influence on wellbeing.

Health

HCL strengthening the biological rhythm of human beings and fostering well-being and good health.

Vitality

HCL creating a stimulating light to increase vitality and quality of life.

Activity

HCL increasing in educational institutions and workplaces the performance and ability of focusing.

Well-being

HCL avoiding sleep disorder, stabilising patients in hospitals and nursing homes.

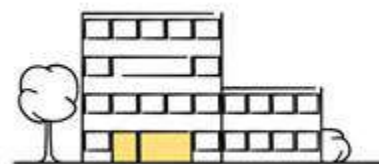
HCL-compatible products are marked with the following icons:





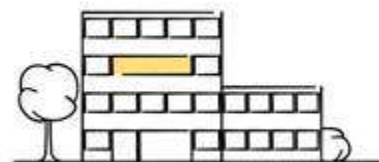
light control +³ Economy Blu2Light

The wireless light management system is ideal for **usage in linear systems and continuous-line luminaires** (e.g. showrooms, industrial areas, offices) because an individual module enables the separate control of the different segments of a luminaire. The wireless module acts as a sensor at the same time, thus enabling daylight-dependent lighting with a high degree of energy savings potential. There is no need to lay additional cables between the luminaires and the integration of wireless buttons makes the system easy to be remotely controlled.



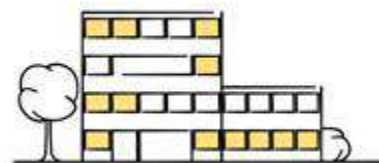
light control +³ Economy Multi DALI

The unbeatable price/performance winner for smaller installations. The system combines simple commissioning via smartphone, low wiring effort and flexible configuration and is therefore ideal for **group offices, conference rooms and classrooms**. Programmable buttons and sensors can also be integrated via DALI connections in order to achieve even greater energy savings. The system has an integrated timer and can therefore be used to set up HCL.



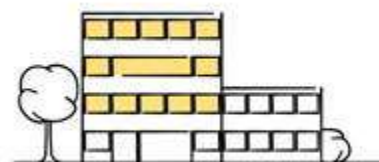
Casambi smart+free

The wireless light management system for maximum functions and configuration options. Casambi smart+free solutions are perfect for **residential buildings, shop and hotel**, as 3-wire cabling is enough - also suitable as a module for subsequent installation into existing luminaires. The module is already integrated into luminaires with the article number ending .730. You can configure the system to your individual needs due to the wide range of accessories from the Casambi ecosystem (starting on P. 554). The integration here is very intuitive and can be completed by users without prior knowledge in just a few minutes.



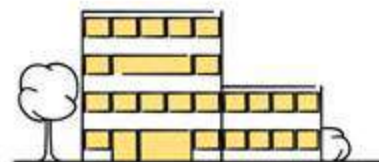
light control +³ Professional Control

The system is suitable for complex applications in **warehouses, room and floor control and production areas**; daylight dependant control, dynamic light control to circadian daylight simulation in Human Centric Lighting (HCL) and monitoring of energy data. In addition, the systems can be networked to make luminaire data available to other systems. light control+³ Professional is the perfect entry level lighting system for the IoT world.











light control +³ Professional Customised

Lighting management can integrate with your **building management system** in **office buildings, production halls and terminals**. In this way, you can combine trades such as heating, sanitation, ventilation, security and blinds with lighting in one control system and even add additional functions such as monitoring, predictive maintenance and energy reporting if desired. Other additional functions can be programmed and integrated as per your individual requirements. Our support team would be happy to help in this regard, from planning up to commissioning.



You still haven't found the right system for you?

Along with the systems shown here, we would also be happy to create a customised control system for your project. Please contact your designated on-site sales employee (see inside of the cover) or contact our Planning department via e-mail at ims@rzb-leuchten.de or by phone at +49 951 / 79 09-396.

	light control + ³ Economy Blu2Light	light control + ³ Economy Multi DALI	Casambi smart+free	light control + ³ Professional Control	light control + ³ Professional Customised
					
Application	Use in linear systems and continuous-line luminaires	Group offices Conference rooms Classrooms	Residential buildings Shop Hotel	Warehouses Floor control Production areas	Office buildings Production halls Terminals
Integration of indoor / outdoor lighting		✓	✓	✓	✓
Can be combined with					
Communication	wireless	wired	wireless	wired	wired + wireless
Infrastructure requirements	L, N, PE (3 wires cable)	L, N, PE, DA, DA (5 wires cable)	L, N, PE (3 wires cable)	L, N, PE, DA, DA (5 wires cable)	L, N, PE, DA, DA (5 wires cable)
Commissioning	by electrician	by electrician	by electrician	RZB service technician	RZB service technician
Configuration	App	App, Plug & Play	App, Remote access	PC-Tool, Remote access	RZB service technician
Operation	Switches, Buttons, App	Switches, Buttons, App	Switches, Buttons, App	Switches, Buttons, App, Web access	Switches, Buttons, PC, Web access
Number of luminaires (1 EB) (Number of luminaires depends on the number of EB in the luminaire)	64	32	1	256	any
Number of sensors (presence, motion)	1 (integrated)	4	1 per module	50	any
Dimmable	✓	✓	✓	✓	✓
Motion / presence detection	✓	✓	✓	✓	✓
Daylight-dependent control	✓	✓	✓	✓	✓
Scenes / Groups	✓	✓	✓	✓	✓
Timer / Calendar functions	✓	✓	✓	✓	✓
HCL / Tunable White		✓	✓	✓	✓
RGB			✓	✓	✓
Network integration			✓	✓	✓
Remote access: programming, operation, maintenance			✓	✓	✓
IoT ready			✓	✓	✓
Predictive maintenance, monitoring, read out luminaire data				✓	✓
Beacon for indoor navigation, tracking, asset management			✓		✓
Integration of additional sensors (CO ₂ , temperature, gas...)					✓
Integration of other trades (heating, air conditioning, security)					✓
Order number with extension	.76 (DALI)	.76 (DALI)	.76 (DALI) .730 (smart+free)	.76 (DALI)	.76 (DALI)
Predestined for our luminaire series e.g.	Linedo Less is more 27 Less is more 50	Sidelite ECO Sonis EVO Toledo Flat	Deecos Triona Ring of Fire	Linedo Light Case Planox	Linedo Light Case with sensor Parledo
More information on page	546	550	554	558	562



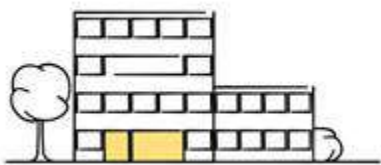
LIGHT CONTROL +³ ECONOMY BLU2LIGHT

Light management

- Bluetooth® networking of up to 100 DALI control modules
- System without central control
- Components integrated directly into the luminaire
- Connection of up to 64 DALI converters
- The intelligence of the classic DALI controller is transferred to a radio module or sensor that simultaneously detects daylight and movement
- Simple configuration and user-friendly operation via app on a smartphone or tablet

Application: Use in linear systems and continuous-line luminaires
(e.g. showrooms, industrial areas, offices)

Predestined for our luminaire series
e.g. Linedo, Less is more 27, Less is more 50



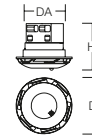
LiNA Connect App - download now!

Light management | light control +³ Economy Blu2Light

Type of Protection: IP 20
Protection Class: II

DALI control module for wired connection of up to 64 DALI converters. Additional Bluetooth® functionality for wireless connection of up to 100 DALI control modules. Can be used for both small and large projects thanks to a structure that grows with the project. The project size defines the number of DALI control modules. Combination of wired DALI network and wireless Bluetooth®-network increases project flexibility. Thanks to its small size it is ideal for luminaire installation. Housing: plastic.

Available colour: 2 = white



Reference number	Dimensions [mm]
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Control module

982746.002	D 40, H 40
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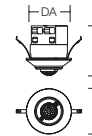
Price Category 21

Light management | light control +³ Economy Blu2Light

Type of Protection: IP 20
Protection Class: II

DALI control module including daylight and movement sensor for wired connection of up to 64 DALI converters. At the maximum mounting height of 4 m, the detection zone has a diameter of approx. 9 m. Additional Bluetooth® functionality for wireless connection of up to 100 DALI control modules. Can be used for both small and large projects thanks to a structure that grows with the project. The project size defines the number of DALI control modules. Combination of wired DALI network and wireless Bluetooth®-network increases project flexibility. Thanks to its small size it is ideal for luminaire integration. Housing: plastic.

Available colour: 2 = white



Reference number	Dimensions [mm]
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Control module with light and movement sensor

982747.002	D 40, H 44	Installation height: up to 4 m.
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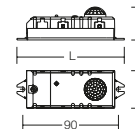
Price Category 21

Light management | light control +³ Economy Blu2Light

Type of Protection: IP 20
Protection Class: II

DALI control module including HighBay daylight and movement sensor for wired connection of up to 64 DALI converters. At the maximum mounting height of 12 m, the detection zone has a diameter of approx. 15 m (at 20 °C ambient temperature). Additional Bluetooth® functionality for wireless connection of up to 100 DALI control modules. Can be used for both small and large projects thanks to a structure that grows with the project. The project size defines the number of DALI control modules. Combination of wired DALI network and wireless Bluetooth®-network increases project flexibility. Thanks to its small size it is ideal for luminaire integration. Housing: plastic.

Available colour: 2 = white



Reference number	Dimensions [mm]
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Control module with light and movement sensor

982748.002	L 103, B 36, H 32	Installation height: up to 12 m.
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Price Category 21

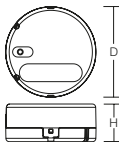


Accessories | light control +³ Economy Blu2Light

Type of Protection: IP 20
Protection Class: II

light control +³ Economy Blu2Light Bluetooth® pushbutton coupler for wireless operation of DALI luminaires. Conventional pushbutton can be connected on site. Maintenance-free thanks to mains supply. Installation in flush-type boxes. Housing: plastic.

Available colour: 2 = white



Reference number	Dimensions [mm]
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Interface for local switch		Price Category 21
982745.002	D 53, H 22	up to 2 pushbuttons can be connected

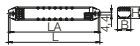


Accessories | light control +³ Economy Blu2Light

Type of Protection: IP 20
Protection Class: II

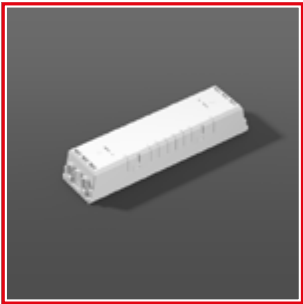
DALI power supply for up to 10 DALI converters (45 mA). Compact luminaire recessed housing. Built-in reversible short-circuit, overload and overtemperature protection. Housing: plastic.

Available colour: 2 = white



Reference number	Dimensions [mm]
------------------	-----------------

Power supply		Price Category 21
982743.002	L 189, B 30, H 21	DALI power supply for up to 10 DALI converters

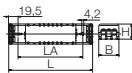


Accessories | light control +³ Economy Blu2Light

Type of Protection: IP 20
Protection Class: II

DALI power supply for up to 64 DALI converters (200 mA). Enables extension of the DALI cable by 300 m. Primary DALI current consumption 2 mA. Housing with strain relief for independent installation. Housing: plastic.

Available colour: 2 = white



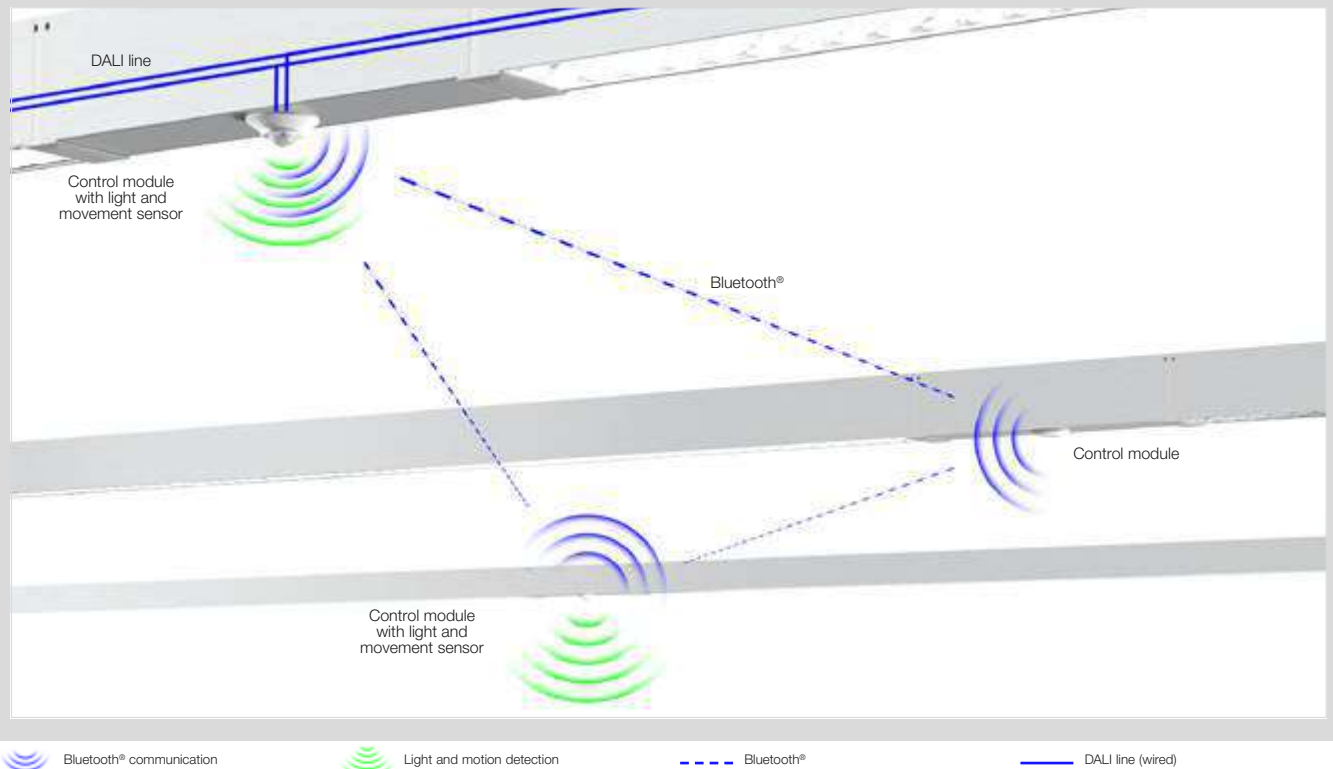
Reference number	Dimensions [mm]
------------------	-----------------

Power supply		Price Category 21
982744.002	L 175, B 42, H 32	DALI power supply for up to 64 DALI converters

FUNCTIONAL REPRESENTATION:

Communication within the linear system - DALI

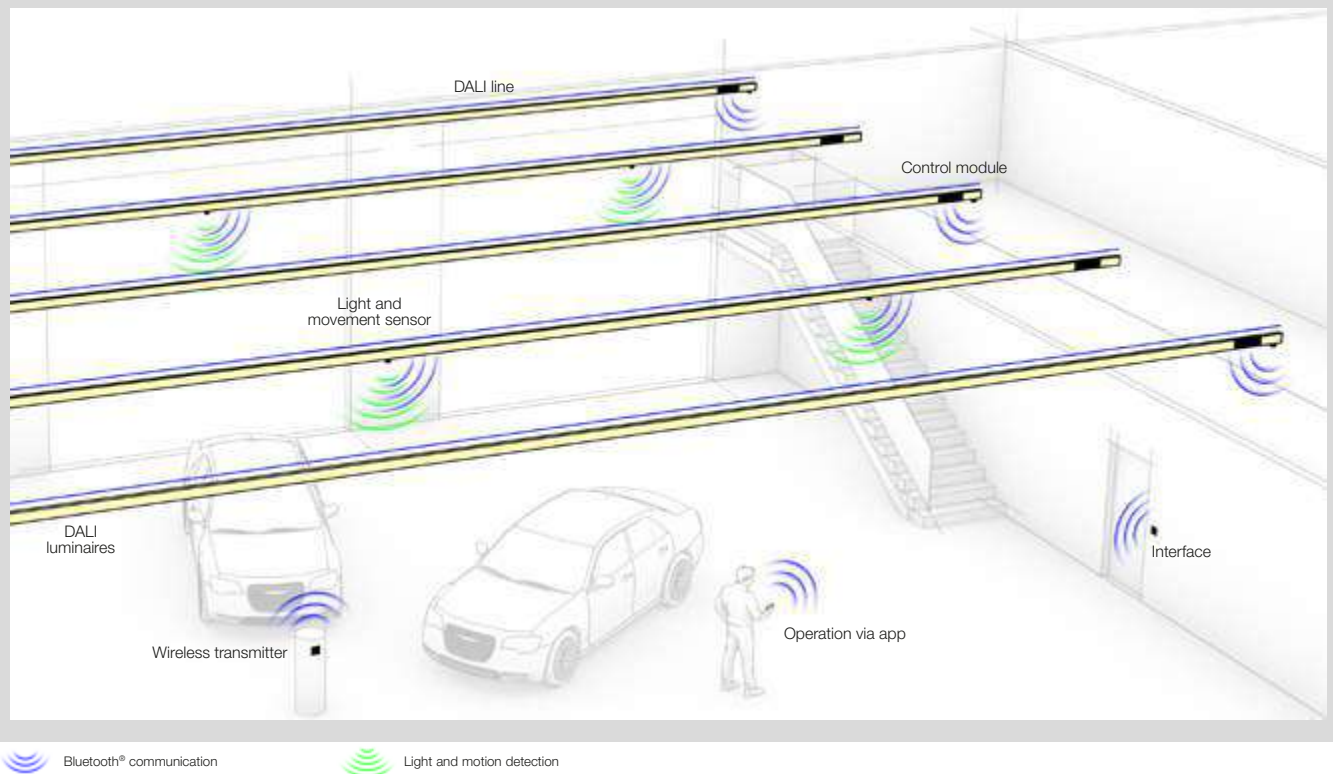
Communication between light control +³ Blu2Light modules - Bluetooth® Mesh



PROJECT EXAMPLE: Showroom

Linear system with one light control +³ Blu2Light module and power supply

Integration of push-button coupler (982745.002) and wireless push-button (982619.002)





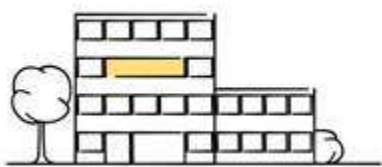
LIGHT CONTROL +³ ECONOMY MULTI DALI

Light management

- Light control with App connection via Bluetooth®
- Plug & Play
- Circadian daylight simulation
- Suitable for daylight-dependent control with presence function
- Energy savings up to 80% (compared to manual switching)
- Real time clock
- Different operating modes (on request)
- 4 sensors can be connected (one sensor is included.)
- Suitable for up to 32 luminaires (1 x **EB DALI**®)

Application: Group offices, conference rooms, classrooms

Predestined for our luminaire series
e.g. Sidelite ECO, Sonis EVO, Toledo Flat



Osram BT Config App (for configuration) -
download now!



Osram BT Control App (for operation) -
download now!



Light management | light control +³ Economy MULTI DALI

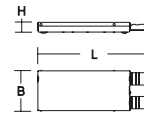
Type of Protection: IP 20
Protection Class: I

Light management system for daylight and presence-dependent lighting

Housing: metal, powder-coated; for universal mounting; ready to plug in (GST15 plug included).

Including light and presence sensor and installation housing.

Available colours (X): 2 = white, 3 = black



Reference number	Dimensions [mm]	Interface	Number of luminaires (EB)	Number of sensors that can be connected	Functions	Price Category 21
light control +³ Economy MULTI DALI						
981903.00X.2S2	L 206, B 106, H 30	DALI	32	4	Switchable, Dimmable, Movement / presence sensor, Daylight sensor, Scenes (individual luminaire/ballast addressing), Tunable White, HCL, Real time clock	

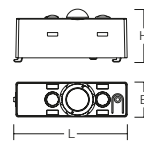
Accessories | light control +³ Economy / Professional

Type of Protection: IP 20
Protection Class: II

Housing of non-flammable, halogen-free plastic (polycarbonate). Direct connection to DALI bus. Presence detection range adjustable via integrated shutters between 40° and 90°. Presence detection with passive IR element. Light sensor range: 20-800 lx (measured at the sensor). Function display with two-colour LED. Installation height: 2-5 m. Ceiling installation or ceiling mounting with accessories.

Modular design: Please order recessed or surface-mounted housing separately.

Available colour: 9 = grey



Reference number	Dimensions [mm]	Price Category 21
Light and presence sensor for installation heights of 2-5 m		
09-6599.009	L 48, B 15, H 17	

Reference number	Dimensions [mm]	Price Category 21
Surface mounted housing for light and presence sensor		
08-6093.002	L 65, B 65, H 34	



Reference number	Dimensions [mm]	Price Category 21
Recessed housing for light and presence sensor cut out DA 68 mm		
01-8613.002	D 80, H 36	



Accessories | light control +³ Economy / Professional

Type of Protection: IP 20

Housing: plastic. Installation in flush-mounted box. Direct connection to DALI bus. Power supply through DALI line (no separate power supply required). 4 potential-free inputs. Conventional buttons can be connected.

Reference number	Dimensions [mm]	Price Category 21
Push-button coupler for connecting 4 buttons provided by customer		
09-6429.000	L 43, B 43, H 21	



Service | Commissioning

The RZB light control +³ light management system must be commissioned on site by an RZB service technician.

Reference number

Commissioning

06566





HCL COMPLETE PACKAGE | light control +³ Economy Multi DALI

Light management

The HCL (Human Centric Lighting) complete package consisting of **4 recessed lay-in Sidelite ECO luminaires with tunable white function** (TW 2700 K - 6500 K) and **pre-set control including light and presence sensor**, simulates the natural course of daylight in the sun and thus supports activity and well-being. Recessed ceiling sensor included.

The HCL complete package can be flexibly adjusted to your project:

A total of up to 32 luminaires (each 1 x EB DALI®) can be controlled. In addition, up to 4 sensors (type 09-6599.009) can be connected (with the ceiling installation housing 01-8613.002). (1 sensor is included in the scope of delivery. An automatic mean value is formed when using several light sensors.)

- Plug & Play

Pre-wired system
Quick and easy to install

- Easy commissioning

Connect the control to the smartphone
and your lighting is ready to use

- Human Centric Lighting (HCL)

HCL provides more power and
concentration

Reference
number

HCL complete package - Module 600

Price Category 21

99050.1169 1 x light control +³ Economy MULTI DALI
1 x Light and presence sensor incl. installation housing
4 x Sidelite ECO (312273.002.2.76AB): Lay-in luminaires for grid ceilings
(Frame: aluminium, powder-coated. Diffuser made of non-yellowing plastic microprismatic (suitable for use in environments with computer screens in accordance with EN 12464-1). Lightguide and diffuser made of non-yellowing plastic (PMMA). Lateral light emission thanks to LED. External driver. Tunable white versions, dynamically adjustable from 2700 K to 6500 K.)

HCL complete package - Module 625

Price Category 21

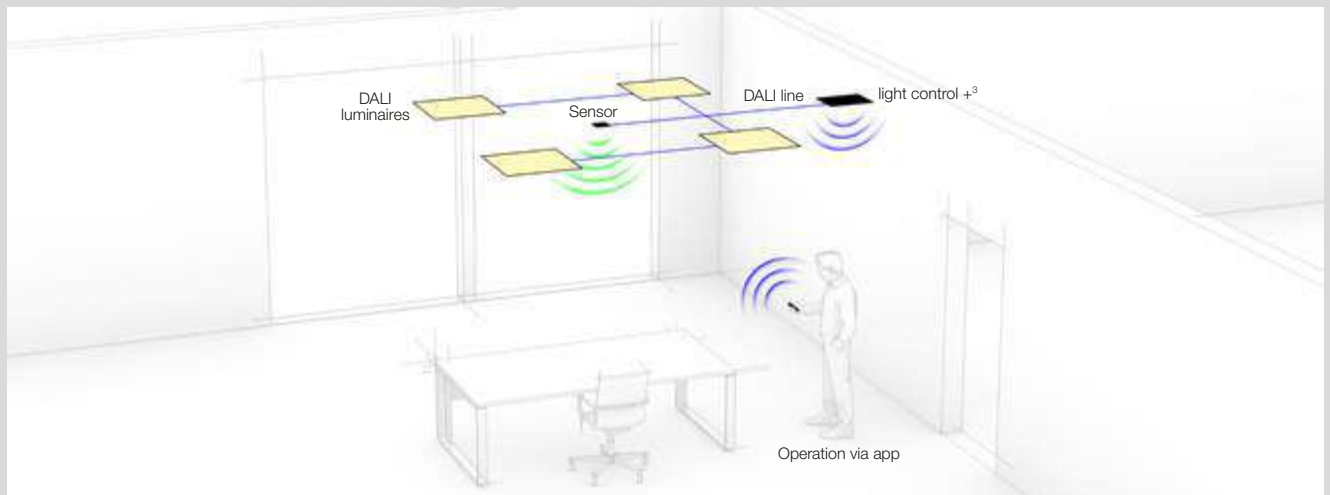
99050.1167 1 x light control +³ Economy MULTI DALI
1 x Light and presence sensor incl. installation housing
4 x Sidelite ECO (312275.002.2.76): Lay-in luminaires for grid ceilings
(Frame: aluminium, powder-coated. Diffuser made of non-yellowing plastic microprismatic (suitable for use in environments with computer screens in accordance with EN 12464-1). Lightguide and diffuser made of non-yellowing plastic (PMMA). Lateral light emission thanks to LED. External driver. Tunable white versions, dynamically adjustable from 2700 K to 6500 K.)



PROJECT EXAMPLE: HCL in a single office (25 m²) with a grid ceiling

It couldn't be simpler than this! You only require ONE HCL complete package: purchase - install - finished!

1 x HCL complete package - Module 600 or 625



PROJECT EXAMPLE: HCL in a classroom (50 m²) with a grid ceiling

Can be expanded as needed! Simply expand ONE HCL complete package with the desired individual components.

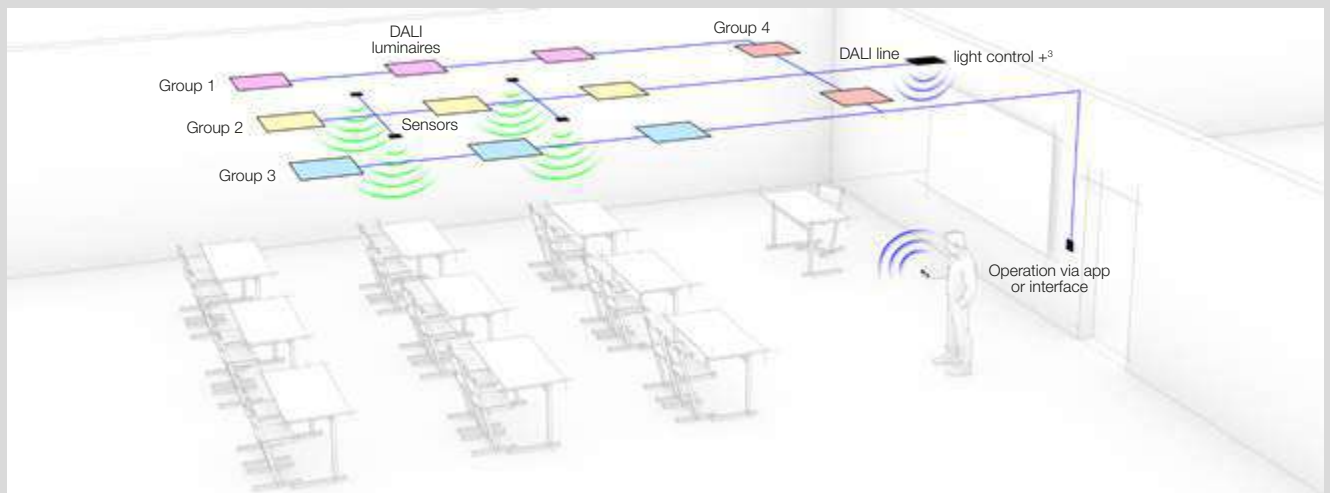
Ideal for renovation work in schools and educational buildings!

1 x HCL complete package - Module 600 or 625

7 x Additional luminaires Sidelite ECO (312275.002.2.76)

3 x Additional sensors (09-6599-009 with 01-8613.002)

1 x Push-button coupler (09-6429.000)



Bluetooth® communication

Light and motion detection



CASAMBI SMART+FREE

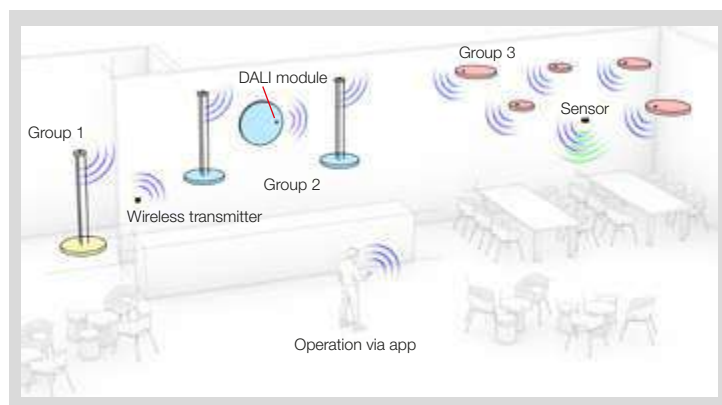
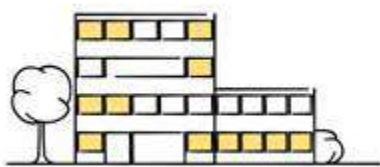
Light management

- Light management system for wireless control of lighting by Bluetooth®
- 3-wire cable sufficient, without additional control wire
- Wireless networking with Bluetooth® Low Energy
- Operation using standard pushbuttons, smartphones and tablet
- Control possible using Android / iOS devices
- Free App available for download
- Light and movement sensors can be integrated
- Tunable White and RGB/RGBW applications can be implemented
- Thanks to its small size it is ideal for luminaire installation

Application: Residential buildings, shop, hotel

Predestined for our luminaire series

e.g. Deecos, Triona, Ring of Fire



Bluetooth® communication

Light and motion detection



Download on the
App Store



GET IT ON
Google Play

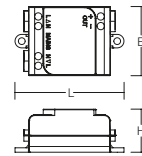
Casambi App - download now!

Light management | Casambi smart+free

Type of Protection: IP 20
Protection Class: II

Bluetooth® control module for the wireless networking and operation of DALI luminaires.
Control possible using Android / iOS device. Free app available for download.
A wireless network with up to 250 control modules could be set up.
Thanks to its small size it is ideal for luminaire installation. Housing: plastic.

Available colour: 2 = white



Reference number	Dimensions [mm]		Price Category 21
DALI module			
982378.002	L 56, B 36, H 22	1 DALI converter can be connected	
982378.012	L 56, B 36, H 22	1 RGB DALI DT6 converter can be connected	
982378.022	L 56, B 36, H 22	1 RGBW DALI DT6 converter can be connected	
982378.032	L 56, B 36, H 22	1 tunable white DALI DT8 converter can be connected	

Accessories | Installation box

Housing plastic. Installation box including terminals and strain relief.

Installation box		Price Category 21
982391.009	L 85, B 85, H 51	For a Casambi smart+free DALI control module 982378.002/.012/.022/.032

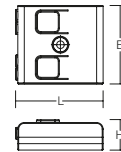


Light management | Casambi smart+free

Type of Protection: IP 20
Protection Class: II

Bluetooth® control module for the wireless networking and operation of luminaires that can be dimmed using conventional trailing edge dimmers. Control possible using Android / iOS device.
Free app available for download. A wireless network with up to 250 control modules could be set up. Thanks to its small size it is ideal for luminaire installation. Housing: plastic.

Available colour: 2 = white



Reference number	Dimensions [mm]		Price Category 21
Trailing edge dimmer			
982377.002	L 40, B 36, H 14	1 converter dimmable using conventional trailing edge dimmer can be connected	

Accessories | Installation box

Housing plastic. Installation box including terminals and strain relief.

Installation box		Price Category 21
982390.009	L 85, B 85, H 51	For a Casambi smart+free control module that can be dimmed using a conventional trailing edge dimmer 982377.002/982677.002

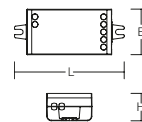


Accessories | Casambi smart+free

Type of Protection: IP 20

Bluetooth®-controllable, Casambi-enabled 4-channel PWM dimmer for LED loads with constant voltage, e.g. LED strips and LED modules with constant voltage. A 12-24 VDC power supply is required for the supply. The module can control up to four channels and is therefore suitable for RGBW and TW (Tunable White) applications. The maximum combined output current is 6 A and can be freely divided between 1 to 4 channels. Control possible using Android / iOS device.
Free app available for download. Thanks to its small size it is ideal for luminaire installation.
Housing: plastic.

Available colour: 2 = white



Reference number	Dimensions [mm]		Price Category 21
4-channel PWM dimmer			
982677.002	L 73, B 30, H 18		

Accessories | Installation box

Housing plastic. Installation box including terminals and strain relief.

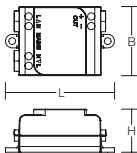
Installation box		Price Category 21
982390.009	L 85, B 85, H 51	For a Casambi smart+free control module that can be dimmed using a conventional trailing edge dimmer 982377.002/982677.002





Accessories | Casambi smart+free

Type of Protection: IP 20
Protection Class: II
Casambi smart+free Bluetooth® button coupler for the wireless operation of luminaires.
Conventional pushbutton can be connected on site. Installation in flush-type boxes.
Housing: plastic.
Available colour: 2 = white



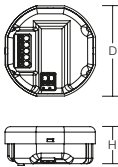
Reference number	Dimensions [mm]
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Interface for local switch		Price Category 21
982378.042	L 56, B 36, H 22	1 pushbutton provided by the customer can be connected



Accessories | Casambi smart+free

Type of Protection: IP 20
Protection Class: II
Casambi smart+free Bluetooth® button coupler for the wireless operation of luminaires.
Conventional pushbutton can be connected on site. Installation in flush-type boxes.
Housing: plastic.
Available colour: 2 = white



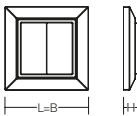
Reference number	Dimensions [mm]
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Interface for local switch		Price Category 21
982379.002	D 53, H 21	Up to 4 pushbuttons provided by the customer can be connected



Accessories | Casambi smart+free

Battery-free, maintenance-free Bluetooth® switch for Casambi smart+free luminaires. The energy for the signal transmission is generated by the button being pressed, which means that no mains voltage or batteries are required. The included frame (Jäger Direkt Opus 55 Inform) can be replaced by switch programs (internal dimensions 55x55 mm) from various manufacturers. Depending on the chosen screen, 2 or 4 buttons can be freely programmed. The colour temperature/dimming level of individual luminaires, groups or scenes can be controlled. The configuration is done directly in the app.
Available colour: 2 = white



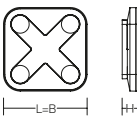
Reference number	Dimensions [mm]
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Wireless transmitter: EnOcean®		Price Category 21
982619.002	L 81, B 81, H 14	



Accessories | Casambi smart+free

Battery-operated, wireless light switch and remote control system for controlling Casambi smart+free luminaires. Enables direct access to all the important functions of the Casambi smart+free lighting control. The 4 freely programmable buttons can be configured within the app. The luminaires' colour temperature and the dimming level can be adjusted using the two rockers. Technical features: Range: up to 60 metres in the open, battery (included): CR2430 lithium button cell, battery life: 2-5 years, depending on use.
Available colours (X): 2 = white, 3 = black



Reference number	Dimensions [mm]
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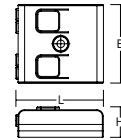
Wireless transmitter		Price Category 21
982620.00X	L 90, B 90, H 12	

Light management | Casambi smart+free

Type of Protection: IP 20
Protection Class: II

Bluetooth® control module for wireless connection of luminaires to a DALI controller.
Up to 64 devices per module can be mapped from the wireless network to a DALI controller.
Configuration app for Android/iOS available for download free of charge. A DALI power supply is required for operation. A wireless network with up to 250 control modules can be set up.
Housing: plastic.

Available colour: 2 = white



Reference number Dimensions [mm]

Casambi-DALI gateway

982618.012 L 40, B 36, H 14

Price Category 21

Accessories | Casambi smart+free

Housing plastic. Installation box including terminals and strain relief.

Installation box

982390.009 L 85, B 85, H 51

For a Casambi smart+free control module that can be dimmed using a conventional trailing edge dimmer 982377.002/982677.002

Price Category 21

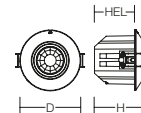


Accessories | Casambi smart+free

Type of Protection: IP 20

Casambi smart+free Bluetooth® sensor for wireless control of Casambi smart+free luminaires.
Intelligent presence control and daylight sensor. Housing: plastic.

Available colour: 2 = white



Reference number Dimensions [mm]

Light and presence sensor (for recessed installation)

Ceiling cut out DA 74 mm, HEL 56 mm

982616.002 D 85, H 73

Price Category 21



Accessories | Casambi smart+free

Plastic surface-mounted housing for ceiling mounting of a Casambi smart+free sensor.

Surface mounted housing for light and presence sensor

982617.002 D 95, H 65

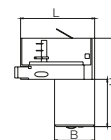
Price Category 21

Accessories | Casambi smart+free

Type of Protection: IP 20
Protection Class: I

Casambi smart+free Bluetooth® sensor for wireless control of Casambi smart+free luminaires.
Intelligent presence control and daylight sensor. Housing: plastic. With multi adaptor for 3-circuit tracks 230 V.

Available colours (X): 2 = white, 3 = black



Reference number Dimensions [mm]

Light and presence sensor with multi adaptor for 230 V 3-circuit tracks

701122.00X.19 L 72, B 39, H 86

Price Category 21





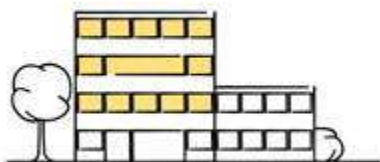
LIGHT CONTROL +³ PROFESSIONAL CONTROL

Light management

- Plug & Play
- Daylight-dependent and event-driven control with presence function of all groups
- Control of up to 64 luminaires per DALI® circuit (1 x **EB DALI**®), 16 groups, 16 light scenarios
- 4 integrated, freely configurable floating relays in the controller
- Circadian daylight simulation
- ON/OFF switching
- Individual light value settings
- Several Professional CONTROL systems can be linked together (network)
- Smartphone and tablet operation possible (Android and IOS)
- Programmable via PC

Application: Warehouses, floor control, production areas

Predestined for our luminaire series
e.g. Linedo, Light Case, Planox



Light management | light control +³ Professional CONTROL

Type of Protection: IP 20
Protection Class: I

Lighting management system for flexible control of lighting groups and lighting scenarios

Housing: metal, powder-coated; for universal mounting; ready to plug in (GST15 plug included).

Available colours (X): 2 = white, 3 = black



Reference number	Dimensions [mm]	Interface	Number of luminaires (EB)	Number of sensors that can be connected	Functions	Price Category 21
light control +³ Professional CONTROL						
981908.00X	L 313, B 313, H 85	DALI	256	50	Switchable, Dimmable, Movement / presence sensor, Daylight sensor, Scenes (individual luminaire/ballast addressing), RGB applications, Tunable White, HCL, Real time clock	

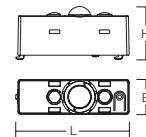
Accessories | light control +³ Economy / Professional

Type of Protection: IP 20
Protection Class: II

Housing of non-flammable, halogen-free plastic (polycarbonate). Direct connection to DALI bus. Presence detection range adjustable via integrated shutters between 40° and 90°. Presence detection with passive IR element. Light sensor range: 20-800 lx (measured at the sensor). Function display with two-colour LED. Installation height: 2-5 m. Ceiling installation or ceiling mounting with accessories.

Modular design: Please order recessed or surface-mounted housing separately.

Available colour: 9 = grey



Reference number	Dimensions [mm]		Price Category 21
Light and presence sensor for installation heights of 2-5 m			
09-6599.009	L 48, B 15, H 17		

		Price Category 21
Surface mounted housing for light and presence sensor		
08-6093.002	L 65, B 65, H 34	



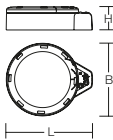
		Price Category 21
Recessed housing for light and presence sensor		
Ceiling cut out DA 68 mm		
01-8613.002	D 80, H 36	





Accessories | light control +³ Professional

Type of Protection: IP 20
Housing: plastic. Direct connection to DALI bus. Light control for installation heights of up to 13 m.
Power supply through DALI line (no separate power supply required). System rating: 0.1 W.



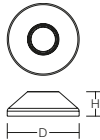
Reference number	Dimensions [mm]
------------------	-----------------

Light sensor for installation heights of up to 13 m		Price Category 21
981952.002	L 139, B 118, H 37	



Accessories | light control +³ Professional

Type of Protection: IP 20
Housing: plastic. Link to the Professional CONTROL system in connection with the light sensor 981952.002 or button coupler 09-6429.000. Power supply (120-277 V) required. System rating: 0.6 W. Detection angle 100°. Walking motion detection of persons: 3-10 m installation height. Vehicle motion detector (e.g. fork lift): 3-13 m installation height.
Available colour: 2 = white



Reference number	Dimensions [mm]
------------------	-----------------

Motion detector for installation heights of 3-13 m		Price Category 21
09-6422.002	D 116, H 39	



Accessories | light control +³ Economy / Professional

Type of Protection: IP 20
Housing: plastic. Installation in flush-mounted box. Direct connection to DALI bus.
Power supply through DALI line (no separate power supply required). 4 potential-free inputs.
Conventional buttons can be connected.

Reference number	Dimensions [mm]
------------------	-----------------

Push-button coupler for connecting 4 buttons provided by customer		Price Category 21
09-6429.000	L 43, B 43, H 21	



Service | Commissioning

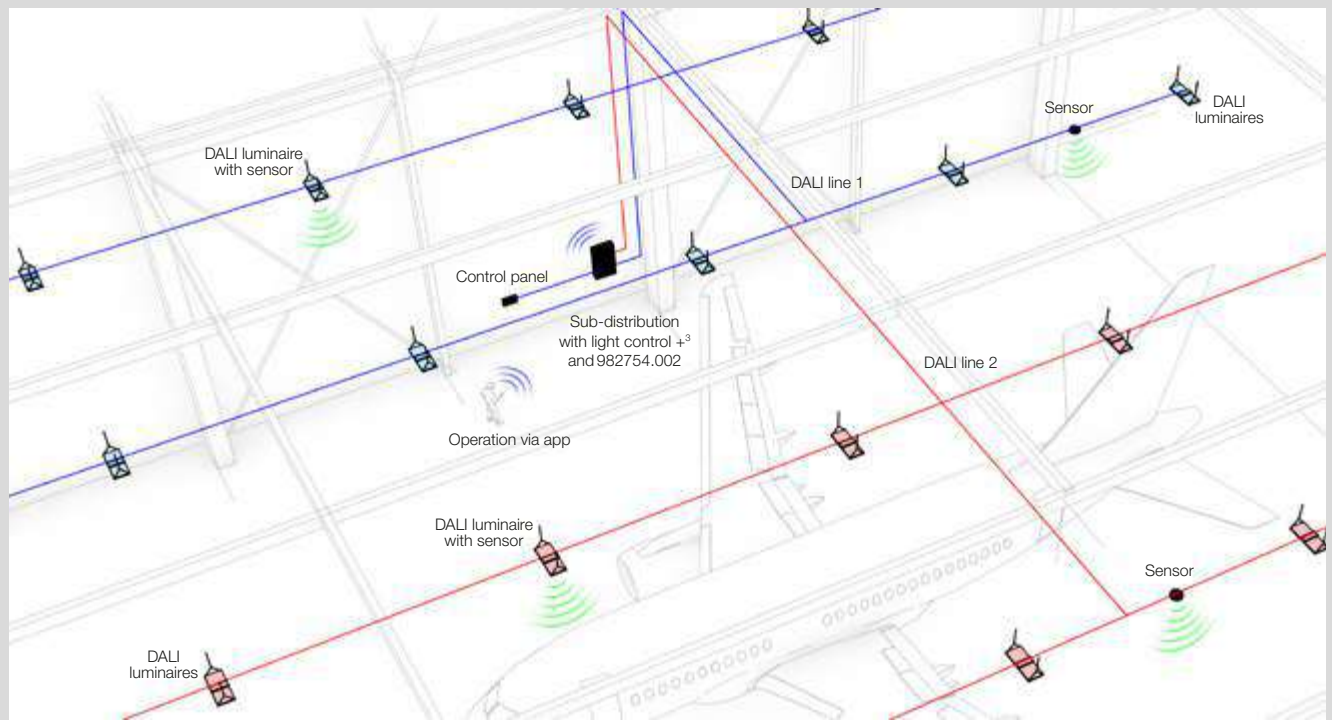
The RZB light control +³ light management system must be commissioned on site by an RZB service technician.

Reference number

Commissioning
06566

PROJECT EXAMPLE: Hangar

The Highbay luminaires are connected to the light control +³ Professional control system on 2 DALI lines. Via the PC tool, the luminaires and sensors can be grouped together and different scenes can be called up via the control panel or app.



Bluetooth® communication

Light and motion detection



LIGHT CONTROL +³ PROFESSIONAL CUSTOMISED

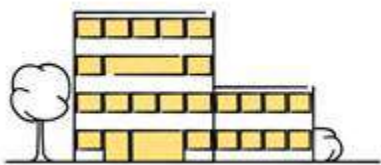
Light management

- Individual light management solutions tailored to your requirements
- Suitable solutions for indoor and outdoor lighting
- Integration into existing building automation systems possible
- Integration of additional trades such as shading, heating, air conditioning, security technology (camera)
- Integration in cloud infrastructure possible
- Acquisition of luminaire data locally or online

Application: Office buildings, production halls, terminals

Predestined for our luminaire series

e.g. Linedo, Light Case with sensor, Parledo, Lupalo



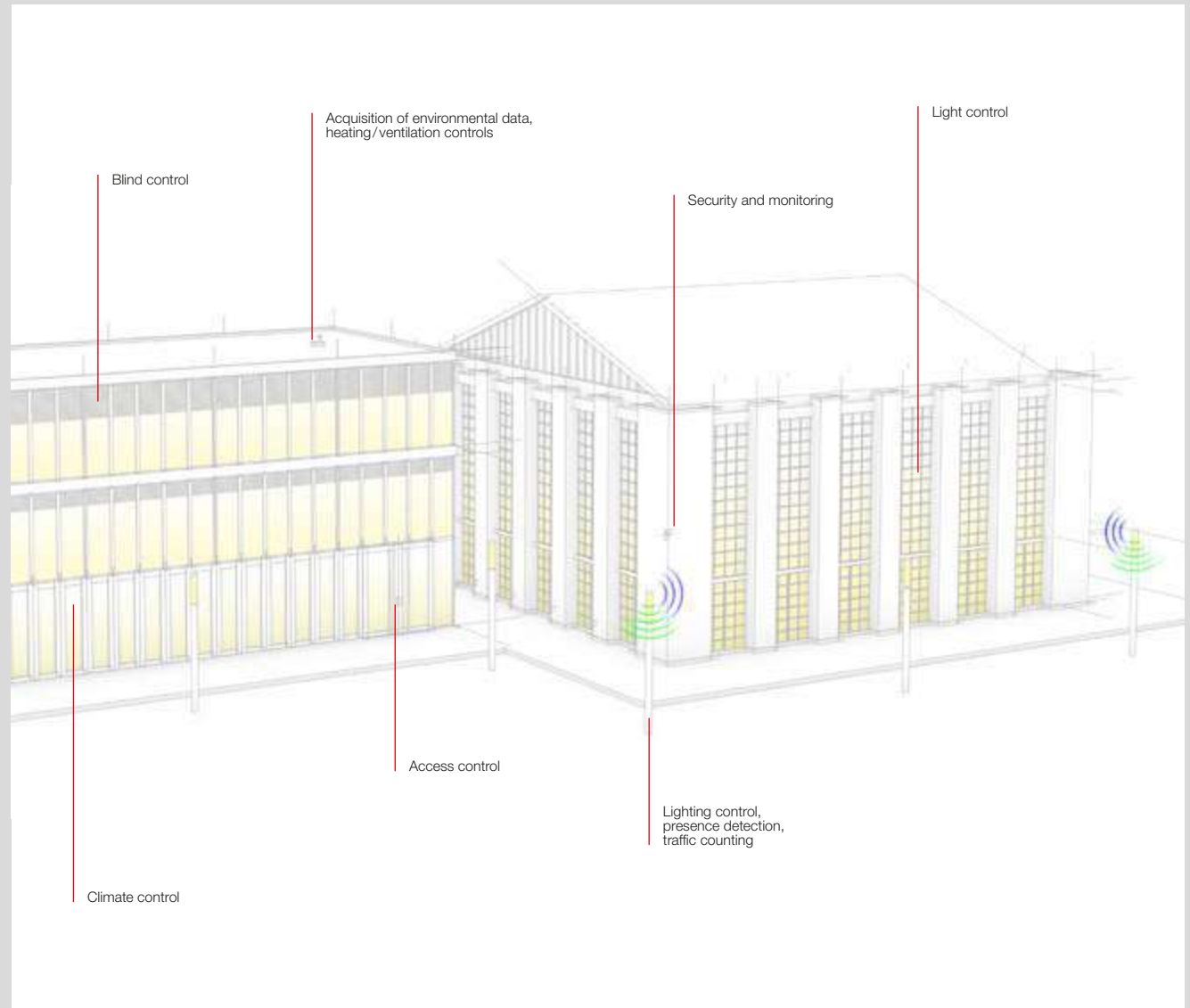
You still haven't found the right system for you?

Along with the systems shown here, we would also be happy to create a customised control system for your project.

Please contact your designated on-site sales employee (see inside of the cover) or contact our Planning department via e-mail at lms@rzb-leuchten.de or by phone at **+49 951/79 09-396**.

PROJECT EXAMPLE: Building control

Various trades are controlled centrally and linked with each other.
The intelligent outdoor lighting also enables statistical evaluations of the detection area.



Bluetooth® communication

Light and motion detection







© Linus Lintner

STAND-ALONE CONTROLLERS

Light management

- Controllers for DALI luminaires
- Operation and setup with button, rotary switch or smartphone / tablet using Bluetooth® connection
- Controllers for tunable white luminaires with DALI device type 8 EB
- Stand-alone DALI sensor

	DALI rotary potentiometers 	DALI push dimmer 	DALI broadcast controller with BLE 	Stand-alone DALI sensor 
Connecting the luminaires/sensors	wired	wired	wired	wired
Configuration	Plug & Play	Plug & Play	Plug & Play, App	Plug & Play, App
Luminaire type	DALI Broadcast*	DALI Broadcast*	DALI Groupcast**	DALI Broadcast*
Max. number of luminaires (1 EB)	25/50 (parallel operation)	25/50 (parallel operation)	32	20
Parallel operation	max. 4	max. 4	no	no
Number of sensors	-	-	max. 4	1 (integrated)
Switchable	✓	✓	✓	✓
Dimmable	✓	✓	✓	✓
Motion/presence detection			✓	✓
Daylight control			✓	✓
Tunable White	✓		✓	
Grouping			✓	
Threshold adjustable				✓
More information on page	566	566	567	567



Osram BT
Config App
(for configuration) -
download now!



Osram LUXEye
Config App
(for configuration) -
download now!

* **DALI Broadcast:** All connected luminaires are switched and dimmed together. Individual control of the luminaires is not possible.

** **DALI Groupcast:** Connected luminaires can be divided into several groups. Groups can be switched and dimmed separately.



Light management | DALI rotary potentiometers

Type of Protection: IP 20
Protection Class: II

Housing: plastic. Digital potentiometer for switching and dimming up to 25 DALI converters (max. 50 DALI converters when operating two DALI rotary potentiometers in parallel, can be extended to max. 4 control points). Automatic synchronisation between the control points. Integrated DALI power supply which supplies the necessary DALI control current (active mode) or power supply directly from the DALI control line (passive mode). Broadcast mode (no DALI addressing required). Max. length of the DALI control cable 300 m (with 1.5 mm²). White rotary switch with white cover included in the scope of delivery. Installation in flush-mounted box.

Available colour: 2 = white



Reference number	Dimensions [mm]
DALI rotary potentiometers	
982253.002	L 80, B 80, H 50

Price Category 21



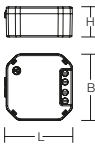
Light management | DALI push dimmer

Type of Protection: IP 20
Protection Class: II

For use with push buttons.

Housing: plastic. Digital push dimmer for switching and dimming up to 25 DALI converters (max. 50 DALI converters when operating two DALI push dimmers in parallel, can be extended to max. 4 control points). Automatic synchronisation between the control points. Integrated DALI power supply which supplies the necessary DALI control current (active mode) or power supply directly from the DALI control line (passive mode). Broadcast mode (no DALI addressing required). Max. length of the DALI control cable 300 m (with 1.5 mm²). Installation in flush-mounted box.

Available colour: 2 = white



Reference number	Dimensions [mm]
DALI push dimmer	
982252.002	L 48, B 48, H 22

Price Category 21

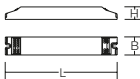


Light management | DALI-Repeater

Type of Protection: IP 20
Protection Class: II

Housing: plastic. DALI controller and signal amplifier. Connection of up to 64 DALI EB in broadcast operation. Touch dim control. Enables DALI line to be extended in 300 m increments (for 1.5 mm²). Suitable for installation in the luminaire or external operation with recess housing (09-6448.000).

Available colour: 2 = white



Reference number	Dimensions [mm]
Repeater-DALI	
982254.002	L 189, B 30, H 21

Price Category 21



Installation housing for DALI-Repeater	
09-6448.000	L 261, B 71, H 27

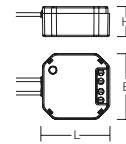
Price Category 21

Light management | DALI broadcast controller with BLE

Type of Protection: IP 20
Protection Class: II

Light control with App connection via Bluetooth® to control standard white or Tunable White light with DALI Device Type 8 (DT8). A DALI broadcast output channel for up to 32 DALI electronic ballasts. Integrated Bluetooth® low energy interface for setting and Operation of the lighting. Intuitive manual dimming and switching. Basic functionality also without configuration thanks to the presetting. Integrated DALI supply. Easy creation of scenes in the App. Operation via standard pushbuttons. Outputs with electronically reversible Overtemperature, short circuit, overload protection. Adaptation of all setting options via Smartphone. Free App for iOS and Android available. Cable length of DALI control cable: up to 300 m at 1.5 mm². Cable length up to push button: up to 50 m. Casing plastic.

Available colour: light grey



Reference number	Dimensions [mm]
------------------	-----------------

DALI broadcast controller with BLE	
982480.009	L 49, B 48, H 22

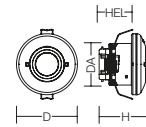
Price Category 21

Light management | Stand-alone DALI sensor

Type of Protection: IP 20
Protection Class: II

Stand-alone DALI sensor for daylight-dependent control and presence-dependent lighting control incl. Bluetooth® interface. A DALI broadcast output channel for up to 20 DALI ECGs. Automatic setup of the light control after mains connection (out-of-the box function). Basic functionality even without configuration thanks to the pre-setting. Easy and fast adjustment of the most important parameters with a screwdriver. Operation via Standard button. Halogen-free polycarbonate plastic housing. Presence detection via passive IR element. Light control with app connection via Bluetooth®. Adaptation of all Settings via smartphone. Free App for iOS and Android.

Available colour: 2 = white



Reference number	Dimensions [mm]
------------------	-----------------

Stand-alone DALI sensor, Installation height: 2-5 m	
982481.002	D 95, H 81

Price Category 21

Accessories | Surface-mounted housing for stand-alone DALI sensor

Surface-mounted housing for stand-alone DALI sensor. Lateral cable entry possible. Housing made of flame-retardant polycarbonate. Quick sensor mounting due to bayonet connection. Suitable for mounting on standard installation boxes (screw spacing 65 mm). Screws and dowels included.

Reference number	Dimensions [mm]
------------------	-----------------

Surface mounted housing	
982645.002	D 95, H 50

Price Category 11





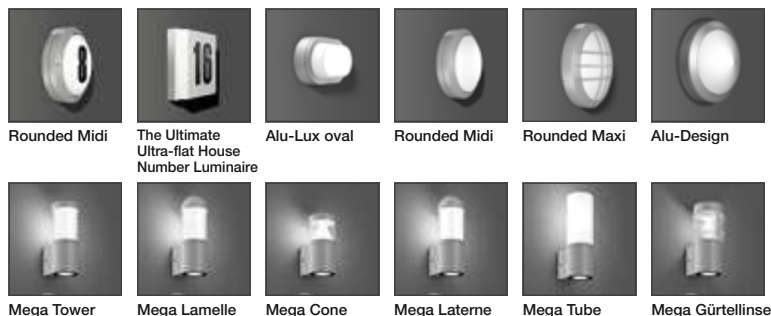


Overview - Luminaires with built-in sensors



Daylight sensor

A daylight sensor measures the incidence of light on a luminaire in order to switch it on and off depending on the brightness. Short light pulses (e.g. from car headlights) are filtered out to avoid repeated switching on and off within a short time. Daylight sensors are used exclusively in outdoor luminaires and are installed separately in each luminaire.



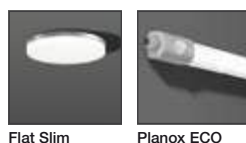
Stand-alone sensors

Stand-alone sensors are used to control unit a single luminaire. Since no external control is needed, the luminaire functions autonomously and requires a power supply only. Depending on the luminaire type, stand-alone devices can detect movement and brightness and are adjustable to a certain degree (delay time, brightness thresholds). Stand-alone sensors do not allow clustering of luminaires. Each luminaire with a stand-alone sensor works autonomously.



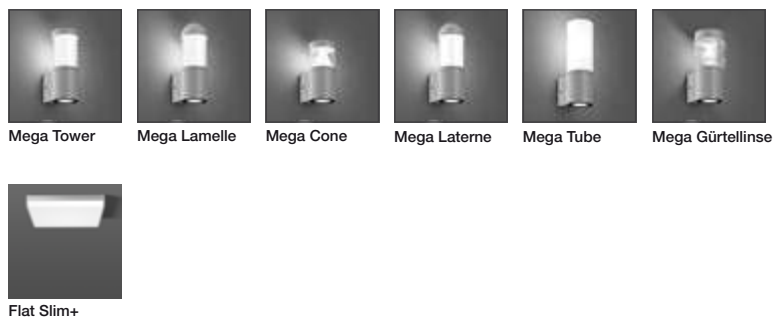
Master-slave systems









The luminaire with sensor (master) controls several other luminaires without sensor (slave). Depending on the system, several master luminaires can also be operated together. Master-slave systems are mainly used in stairwells and corridors. They can be used for corridor functions, guided light („running light“) and similar functions. Depending on the luminaire type, master luminaires can detect movement and brightness and can be adjusted to a certain degree (delay time, brightness thresholds).



Mesh sensors

Mesh sensors create a wireless connection between each other. This allows for flexible configuration via smartphone or tablet. The sensors (and luminaires connected to them) can be grouped as desired and the delay times and thresholds can be set individually. Just as with the master-slave systems, corridor functions, running lights, etc. can be set. Contrary to the previously mentioned systems, these, however, do not have to be connected by wire.



	Daylight sensor	Stand-alone sensors	Master-slave systems	Mesh sensors
	 	 	 	 
Application	House number lighting Outdoor lighting	Facade Roofing	Corridor lighting Staircase	Staircase Outdoor lighting
Communication	stand-alone	stand-alone	wired	wireless
Infrastructure requirements	L, N, PE (3 wires cable)	L, N, PE (3 wires cable)	L, L', N, PE (5 wires cable)	L, N, PE (3 wires cable)
Commissioning	by electrician	by electrician, App	by electrician	by electrician, App
Configuration	pre-configured	push-button, remote control	pre-configured, dip switch	App
Dimmability	switchable (on/off)	switchable /dimmable via sensor	switchable /dimmable via sensor	switchable /dimmable via sensor
Switchable	✓	✓	✓	✓
Dimmable		✓	✓	✓ (DALI)
Movement /presence detection		✓	✓	✓
Brightness threshold adjustable		✓	✓	✓
Daylight-dependent control		✓	✓ (luminaire-dependent*)	✓
Basic light		✓	✓	✓ (DALI)
Corridor function			✓ (luminaire-dependent*)	✓
Grouping			✓ (luminaire-dependent*)	✓
Further luminaires possible			✓	✓
Further sensors possible			✓	✓
SoftDim				✓ (DALI)

* For more information, see the operating instructions at www.rzb-lighting.com under the download area of the respective item.

Overview - Outdoor dimming functions



StepDIM

The StepDIM mode (Bi-Power mode) enables to switch between two power levels, „normal“ operation and „half-night“ operation, by means of an additionally switched phase. The light levels can be flexibly pre-programmed at the factory. A later adjustment can be realised by RZB Service.



AstroDIM

AstroDIM offers a multi-stage night setback based on an internal time actuator that is oriented to the switch-on and switch-off times. No external control infrastructure is required, the luminaires are pre-configured at the factory and operate autonomously after installation. When ordering, please specify the desired times and dimming levels for switch-on/switch-off and night setback. Changes to the settings can only be made by qualified staff.



DALI

DALI luminaires are controlled centrally via the DALI control lines. Luminaires can be combined in groups or controlled individually. Further functions depend on the DALI control used. You will find an overview on page 545.













NEMA

Zhaga / NEMA

Equipping a luminaire with a socket according to Zhaga or NEMA standards allows the connection of sensors and light management systems (e.g. third-party systems such as Signify Interact City, Philips City Touch or eSave) without affecting the IP protection factor of the luminaire. The corresponding modules are attached without tools via bayonet lock (also retrofitted) and can be replaced at any time without opening the luminaire. If sensor technology and light management are to be used together, several sockets are also possible on one luminaire.



	StepDIM 	AstroDIM 	DALI 	Zhaga / NEMA  
Application	Public lighting / existing (half-night switching)	Parking spaces Streets	Streets Parking spaces Squares	Public lighting Streets Parking spaces
Communication	wired	stand-alone	wired	wireless
Can be combined with			  	 
Infrastructure requirements	L1, L2, N (5 wires cable)	L, N (3 wires cable)	L, N, DA, DA (5 wires cable)	L, N (3 wires cable)
Commissioning	by electrician, RZB service technician	by electrician, RZB service technician	RZB service technician	RZB service technician
Configuration	pre-configured	pre-configured	control-dependent	control-dependent
Number of luminaires (1 EB)/ control system	luminaire-dependent*	1	Up to 64 per DALI line	limited by the light management system used
Number of sensors			50	limited by the light management system used
Luminaire control	relais	stand-alone	switch, button, App	App, web access
Flexibility to control of different light points			✓	✓
Integration into existing installation	✓	✓	✓	✓
Energy saving through dimming	✓	✓	✓	✓
Autonomous dimming		✓		✓
Use of the existing Bi-Power approach with KVGs (half-night switching)	✓			
Bidirectional communication in lighting management systems			✓	✓
Motion/presence detection			✓	✓
Daylight detection			✓	✓
Scenes/groups			✓	✓
Timer/calendar functions			✓	✓
Network integration			✓	✓
Remote maintenance			✓	✓
IoT ready			✓	✓
Predictive maintenance, monitoring, reading luminaire data			✓	✓
Integration of additional sensors (CO ₂ , temperature, gas...)				✓
Interface to building management			✓	✓
Series	Mingata, Gonja, Laruta, Lupalo series	Mingata, Gonja, Laruta, Lupalo series	Mingata, Gonja, Laruta, Lupalo series, Flat Slim, Alu-Star, Lightstream	Mingata, Gonja, Laruta, Lupalo series

* For more information, see the operating instructions at www.rzb-lighting.com under the download area of the respective item.

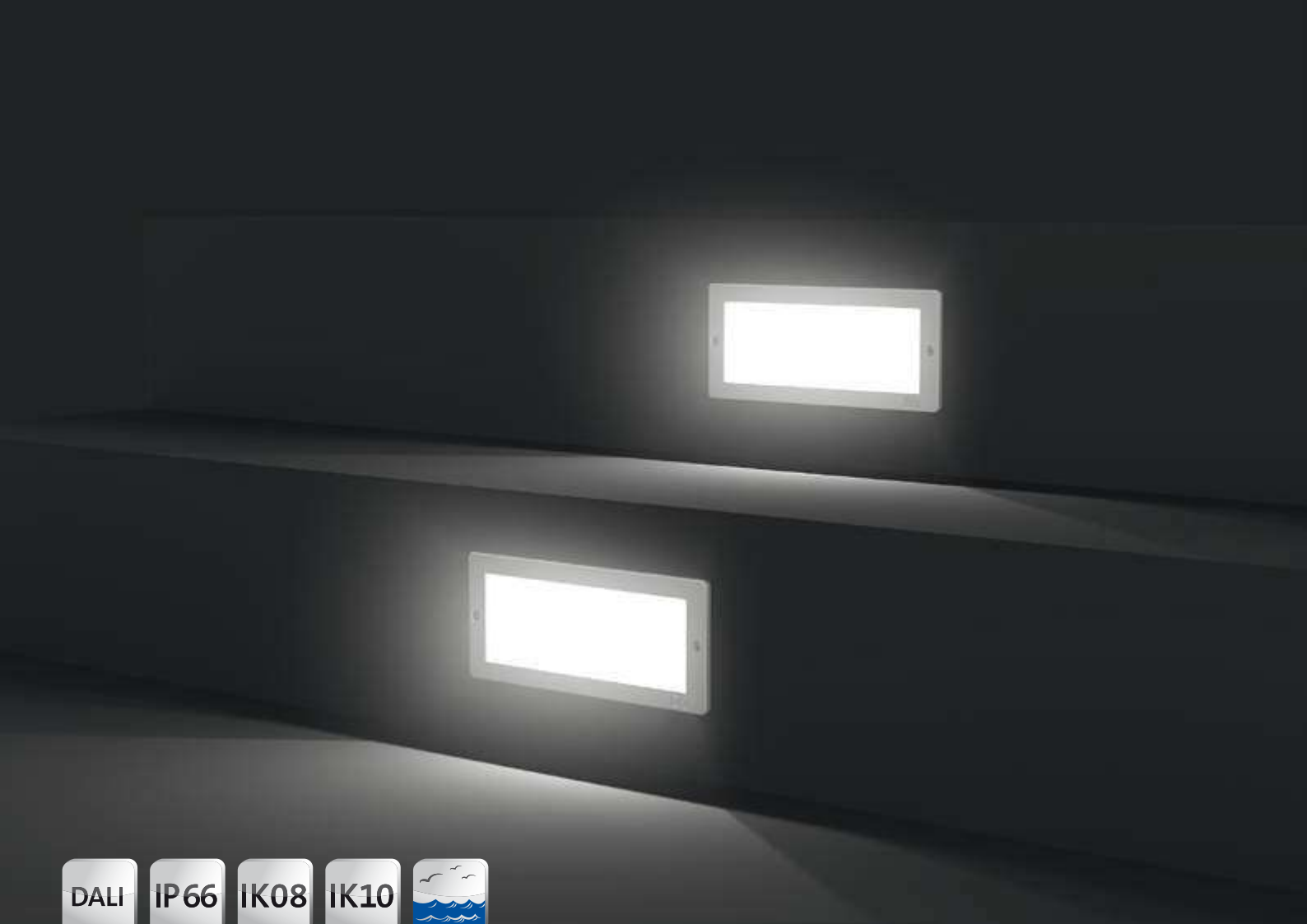


The application image shows:
Brick EVO



Brick Steps
576-577

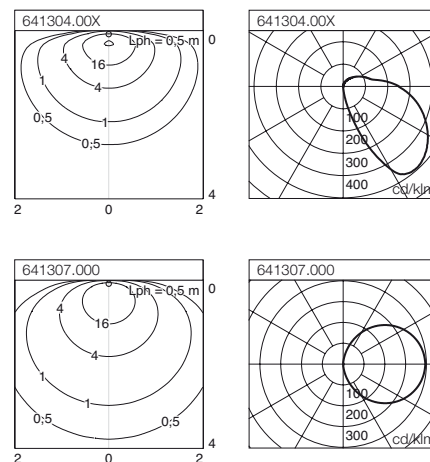
Brick EVO
578-579



BRICK® STEPS

Recessed wall and step luminaires

- Recessed wall/stairway luminaires
- Housing of die-cast aluminium, suitable for direct installation. Usage of installation support is highly recommended
- Seawater resistant coating
- Cover made of shock-resistant plastic (polycarbonate), opal
- Cover frame or louvre cover choice of stainless steel or powder-coated die-cast aluminium
- Selection of various luminous flux levels to prevent any glare. Choice of light colours



Recessed wall and step luminaires | Brick Steps

Type of Protection: **IP 66**

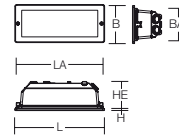
Protection Class: I

Impact Protection: IK08

Housing: die-cast aluminium, powder-coated. Frame: die-cast aluminium, powder-coated or stainless steel. Shock resistant plastic (polycarbonate) cover, opal. Integral driver. With second cable entry for loop through.

Recommended accessory: recessed support.

Available colours (X): 0 = stainless steel, 2 = white, 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Recessed wall and step luminaires						
cut out LA 228 x BA 85 mm, HE 70 mm						
Frame: die-cast aluminium						
641306.00X	L 236, B 100, H 5	LED	830	200	6	on/off
641306.00X.76	L 236, B 100, H 5	LED	830	200	6	DALI
641306.00X.1	L 236, B 100, H 5	LED	840	200	6	on/off
641306.00X.1.76	L 236, B 100, H 5	LED	840	200	6	DALI
Frame: stainless steel						
641307.000	L 236, B 100, H 5	LED	830	200	6	on/off
641307.000.76	L 236, B 100, H 5	LED	830	200	6	DALI
641307.000.1	L 236, B 100, H 5	LED	840	200	6	on/off
641307.000.1.76	L 236, B 100, H 5	LED	840	200	6	DALI

Price Category 12

Comparison LED vs. conventional lamps

LED 6 W ≈

1 x 40 W A60 (40 W Psys)

1 x 8 W T16 (11 W Psys)

Recessed wall and step luminaires | Brick Steps

Type of Protection: **IP 66**

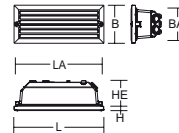
Protection Class: I

Impact Protection: IK10

Housing: die-cast aluminium, powder-coated. Lamella frame: die-cast aluminium, powder-coated or stainless steel. Shock resistant plastic (polycarbonate) cover, opal. Integral driver. With second cable entry for loop through.

Recommended accessory: recessed support.

Available colours (X): 0 = stainless steel, 2 = white, 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Recessed wall and step luminaires, anti-glare						
cut out LA 228 x BA 85 mm, HE 70 mm						
Lamella frame: die-cast aluminium						
641304.00X	L 236, B 100, H 5	LED	830	75	6	on/off
641304.00X.76	L 236, B 100, H 5	LED	830	75	6	DALI
641304.00X.1	L 236, B 100, H 5	LED	840	80	6	on/off
641304.00X.1.76	L 236, B 100, H 5	LED	840	80	6	DALI
Lamella frame: stainless steel						
641305.000	L 236, B 100, H 5	LED	830	110	6	on/off
641305.000.76	L 236, B 100, H 5	LED	830	110	6	DALI
641305.000.1	L 236, B 100, H 5	LED	840	110	6	on/off
641305.000.1.76	L 236, B 100, H 5	LED	840	110	6	DALI

Price Category 12

Comparison LED vs. conventional lamps

LED 6 W ≈

1 x 4 W T16 (6 W Psys)

1 x 15 W A60 (15 W Psys)

Accessories | Installation housing for Brick® Steps luminaires

Recessed housing for cavity walls made of sendzimir galvanised steel, cutout LA 232 x BA 92 mm, max. wall thickness 20 mm.

Set for installation in cavity walls

90-2780 L 230, B 98, HE 76

Price Category 12



Recessed mounting box for concrete or brick walls

64253.000 L 235, B 95, H 76, HE 76

Price Category 12



Frame: stainless steel



Frame: die-cast aluminium



Lamella frame: stainless steel



Lamella frame: die-cast aluminium



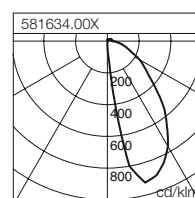
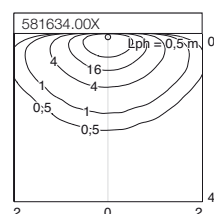
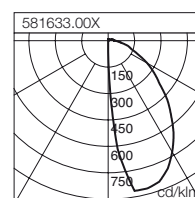
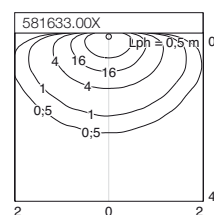
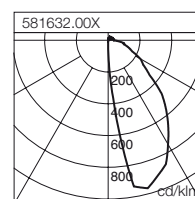
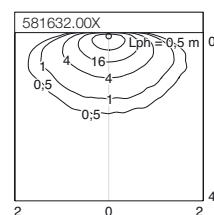
IP65

IK09

BRICK® EVO

Wall luminaires

- Flat surface-mounted LED fitting for illumination of wall related areas such as stairs, ramps or corridors
- Only 24 mm depth, can be mounted directly over the cable outlet
- Choice of three models for ideal adaption to the surroundings
- Sturdy housing of non-corrosive pressure die-cast aluminium for outdoor application, powder coated with stainless steel screws
- Drill hole deviations can be compensated to achieve precise positioning

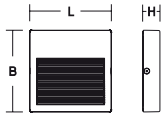


Wall luminaires | Brick EVO

Type of Protection: IP 65
 Protection Class: I
 Impact Protection: IK09

Housing made of corrosion-resistant die-cast aluminium, powder-coated. With compensation for drill hole deviations. Integral driver. Toughened glass cover. With connecting terminal up to 1 x 3 x 1.5 mm², for max. 13 mm diameter mains cable.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



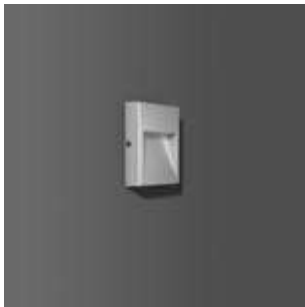
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Wall luminaires						
Brick EVO Mini, asymmetrical light distribution						
581632.00X	L 120, B 120, H 24	LED	830	55	4	on/off
581632.00X.1	L 120, B 120, H 24	LED	840	55	4	on/off
Brick EVO Midi, asymmetrical light distribution						
581633.00X	L 200, B 200, H 24	LED	830	190	10	on/off
581633.00X.1	L 200, B 200, H 24	LED	840	190	10	on/off
Brick EVO Duo, asymmetrical light distribution						
581634.00X	L 240, B 120, H 24	LED	830	180	10	on/off
581634.00X.1	L 240, B 120, H 24	LED	840	180	10	on/off

Price Category 12

**Comparison
LED vs. conventional lamps**

LED 4 W ≈
 1 x 20 W QT12 (22 W P_{sys})

LED 10 W ≈
 1 x 8 W T16 (11 W P_{sys})
 1 x 50 W QT12 (50 W P_{sys})



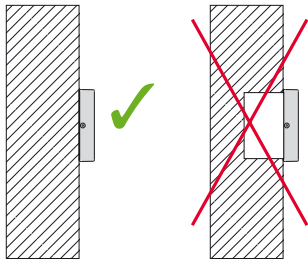
Brick EVO Mini



Brick EVO Midi



Brick EVO Duo



Brick EVO
 The revolutionary surface-mounted luminaire with recessed appearance



The application image shows:
Cyl

© RZB



Wallscaping
582-587

Mega
588-597

Rounded Midi
598-599

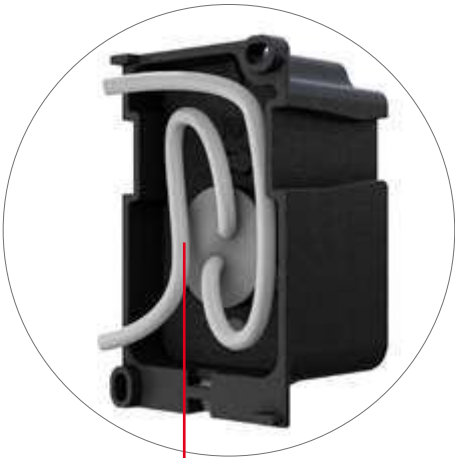
Alu-Design
600-601

Alu-Superior
602-603

Alu-Lux oval
604-607

WALLSCAPING

Everything at a glance



Two cable entries for loop-through
Generous space for cable placement

Fixing on the wall
outside the gasketed area,
drill hole deviations can be compensated



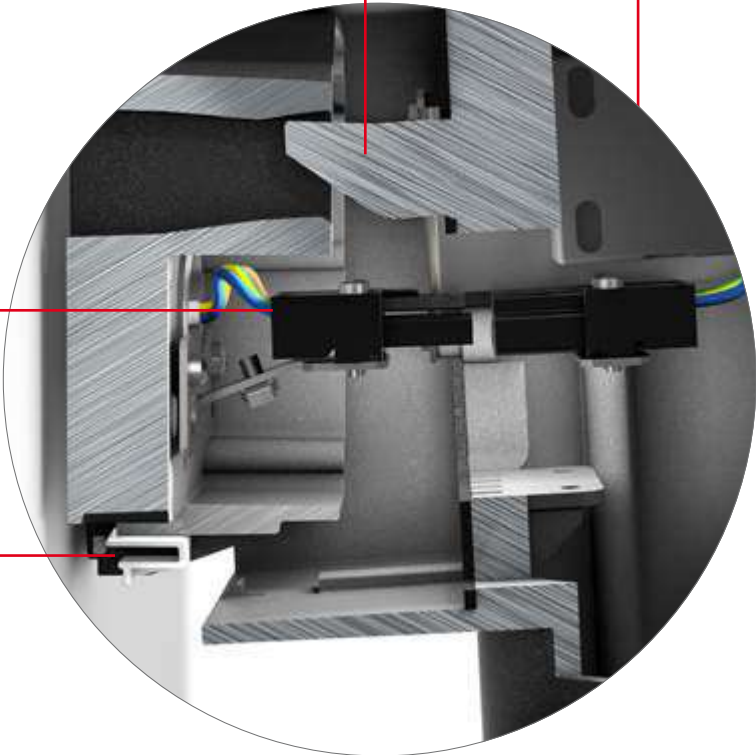
RZB Gravalock® system

Quick and easy installation of the luminaire head, without tools on the mounting base



Comfortable installation

A quick-connector between base and head provides safe power supply



Safety

A latch prevents from being unintentionally removed later

**Unmistakeable features**

The luminaire top and bottom consist of a frameless glass cover made of ceramic coated ESG



Housing made of corrosion-resistant pressure die-cast aluminium, seawater resistant powder-coated

IP65

High ingress protection rating: IP 65



Four luminaire heads - one mounting base

RZB GRAVOLOCK® SYSTEM

⊕ Innovation

The innovative Gravalock® lock system promises a quick and easy installation of the luminaire head.

⊕ Long service life

The use of state-of-the-art LED technology allows reduced energy consumption and a long LED service life. Corrosion-resistant, powder-coated housing made of die-cast aluminum prevents corrosion.

⊕ Impermeability

The innovative housing concept protects the light source safely from all effects of weather. The integrated vent valve avoids condensation in the luminaire.

⊕ Flexibility

A selection of different versions of the luminaire heads ensures creative freedom. Cylindrical and cubic types with several light characteristics are available for the planner. The powder coated parts can, in addition to the two standard colours silver metallic and anthracite metallic, be coated to suit specific customer requirements.



NADELSPOT | CYL | ZONO | TECHNO

Wall luminaires

- Four luminaire tops - one mounting bracket
- Seawater resistant coating
- Quick installation: fixing and electrical connection is done only at the fixing plate, the luminaire is screwlessly plugged on thereafter and held into position via RZB Gravalock® System
- Elegant appearance with no visible screws thanks to the RZB Gravalock® system, with a latch as theft protection
- The innovative housing concept protects light source and driver reliably against all weather conditions
- The standard large cable inlet allows a simple loop-through without an additional connection box
- The elegant linear shape excellently suits modern architecture
- Integral membrane valve for pressure compensation and avoidance of condensation

Wall luminaires | Nadelspot

Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Cover made of ceramic-coated toughened glass with bayonet lock. Fixing on the wall outside the gasketed volume, drill hole deviations can be compensated. Screwless luminaire fixing via RZB Gravalock® System. With membrane valve as a standard to avoid condensed water. Electrical plug and play featuring quick connector. Integral LED and driver. Cable entry granting two cables for loop-through.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	dimmable
Wall luminaires							
Price Category 12							
Light emission: up and down, Flood/Flood							
582077.00X	L 100, B 154, H 127	LED	830	360	6,2	70/70	on/off
Light emission: up and down, Spot/Flood							
582079.00X	L 100, B 154, H 127	LED	830	310	6,2	4/70	on/off
Light emission: down, Flood							
582078.00X	L 100, B 154, H 127	LED	830	180	3,5	70	on/off

Wall luminaires | Cyl

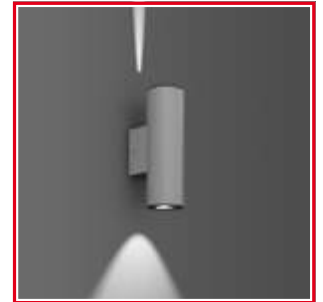
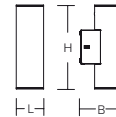
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Cover made of ceramic-coated toughened glass with bayonet lock. Fixing on the wall outside the gasketed volume, drill hole deviations can be compensated. Screwless luminaire fixing via RZB Gravalock® System. With membrane valve as a standard to avoid condensed water. Electrical plug and play featuring quick connector. Integral LED and driver. Cable entry granting two cables for loop-through.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	dimmable
Wall luminaires							
Price Category 12							
Light emission: up and down, Flood/Flood							
582083.00X	L 100, B 154, H 307	LED	830	360	6,2	68/68	on/off
Light emission: up and down, Spot/Flood							
582084.00X	L 100, B 154, H 307	LED	830	310	6,2	4/68	on/off

**Wall luminaires | Zono**Type of Protection: **IP 65**





Protection Class: I

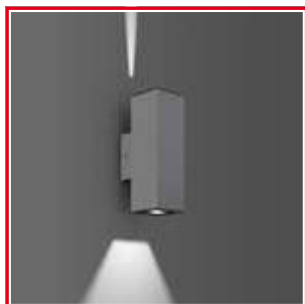
Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Cover made of ceramic-coated toughened glass with bayonet lock. Fixing on the wall outside the gasketed volume, drill hole deviations can be compensated. Screwless luminaire fixing via RZB Gravalock® System. With membrane valve as a standard to avoid condensed water. Electrical plug and play featuring quick connector. Integral LED and driver. Cable entry granting two cables for loop-through.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	dimmable
Wall luminaires							Price Category 12
 Light emission: up and down, Flood/Flood							
582080.00X	L 100, B 154, H 127	LED	830	220	6,2	70/70	on/off
 Light emission: up and down, Spot/Flood							
582082.00X	L 100, B 154, H 127	LED	830	220	6,2	4/70	on/off
 Light emission: down, Flood							
582081.00X	L 100, B 154, H 127	LED	830	110	3,5	70	on/off

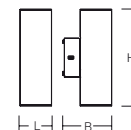
**Wall luminaires | Techno**Type of Protection: **IP 65**




Protection Class: I

Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Cover made of ceramic-coated toughened glass with bayonet lock. Fixing on the wall outside the gasketed volume, drill hole deviations can be compensated. Screwless luminaire fixing via RZB Gravalock® System. With membrane valve as a standard to avoid condensed water. Electrical plug and play featuring quick connector. Integral LED and driver. Cable entry granting two cables for loop-through.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic

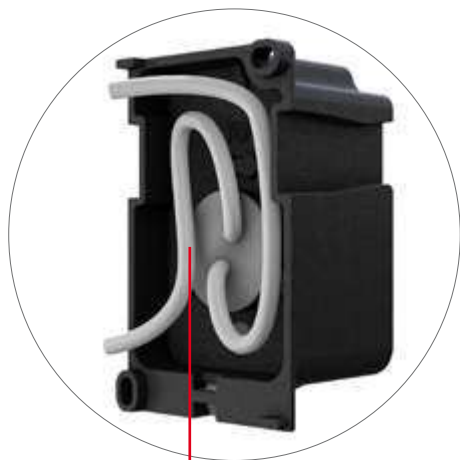


Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	dimmable
Wall luminaires							Price Category 12
 Light emission: up and down, Flood/Flood							
582085.00X	L 100, B 154, H 307	LED	830	220	6,2	70/70	on/off
 Light emission: up and down, Spot/Flood							
582086.00X	L 100, B 154, H 307	LED	830	220	6,2	4/70	on/off



MEGA

Everything at a glance



Two cable entries for loop-through
Generous space for cable placement

Fixing on the wall
outside the gasketed area,
drill hole deviations can be compensated



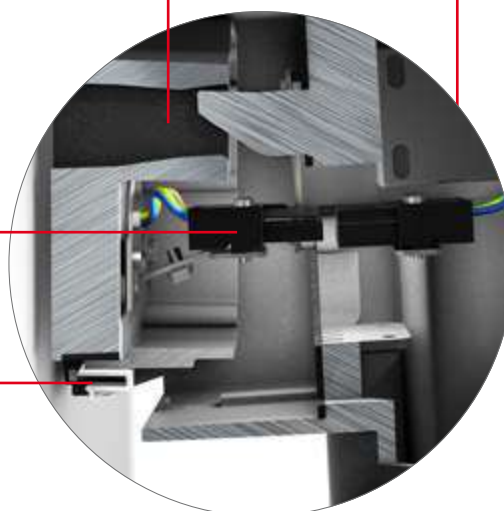
RZB Gravalock® system

Quick and easy installation of the luminaire head, without tools on the mounting base



Comfortable installation

A quick-connector between base and head provides safe power supply



Safety

A latch prevents from being unintentionally removed later



Housing made of corrosion-resistant pressure die-cast aluminium, seawater resistant powder-coated

Unmistakeable features

The luminaire bottom consist of a frameless glass cover made of ceramic coated ESG

IP 65

High ingress protection rating: IP 65



Versatile

Optionally with motion detector, twilight switch or additional light emission downwards (switchable separately)

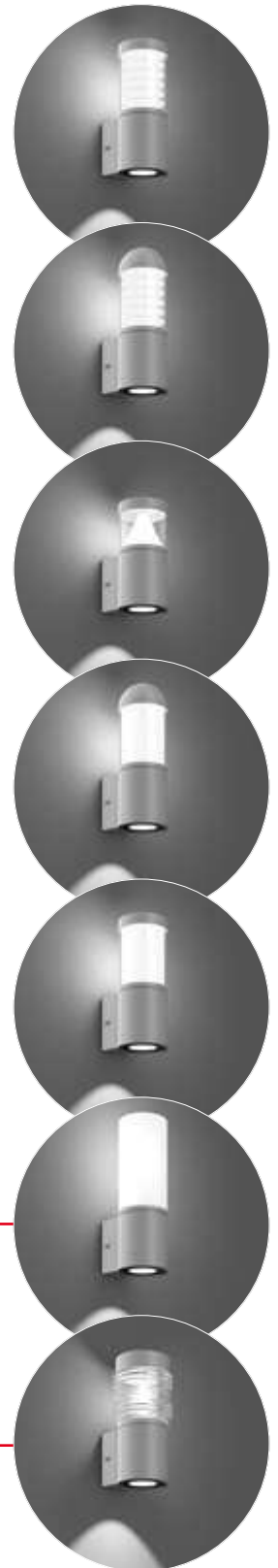


HF motion detector with **Bluetooth® interfaces** for switching and networking from individual luminaires up to complex light installations

Mesh sensors create a wireless connection between each other. This allows for flexible configuration via smartphone or tablet.



Diffuser: mouth-blown opal glass, satin finish or mouth-blown luminaire glass, clear, drum lens shape



Seven luminaire heads - one mounting base



MEGA

Wall luminaires

- The high quality LED optics provide balanced brightness while minimising energy consumption.
- Quick installation: fixing and electrical connection is done only at the fixing plate, the luminaire is screwlessly plugged on thereafter and held into position via RZB Gravalock® System
- The standard large cable inlet allows a simple loop-through without an additional connection box
- Integral membrane valve for pressure compensation and avoidance of condensation
- The elegant linear shape excellently suits modern architecture
- The flush fitting cover made of corrosion resistant pressure die-cast aluminium satisfies stringent aesthetic and functional requirements.
- Seawater resistant coating



Further luminaires of this series, see:
Outdoor lighting | Bollards



Download on the
App Store



GET IT ON
Google Play

MICAS Autolight App - download now!

Wall luminaires | Mega Tower

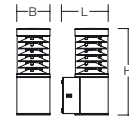
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK04

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Luminaire head made of corrosion-resistant pressure die-cast aluminium, powder coated, with transparent cylinder (glass) and translucent anti-glare louvres. Bottom cover printed toughened glass. Fixing on the wall outside the gasketed volume, drill hole deviations can be compensated. Screwless luminaire fixing via RZB Gravalock® System. With membrane valve as a standard to avoid condensed water. Electrical plug and play featuring quick connector. Cable entry granting two cables for loop-through. Mains connection 2 x 3 x 2.5 mm² (with additional light emission downwards 2 x 5 x 2.5 mm²).

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Movement sensor:

- HF detector 5.8 GHz
- Holding time 5 sec. - 60 min.; adjustable in 13 steps
- Detection angle 120°
- Range up to 10 m
- Speed detection: 0.3-3 m/s (1-10 km/h)
- Sensitivity 0-100% in 10 steps
- Daylight sensor 1-350 lx
- Factory setting: sensitivity 70%, hold time 30 seconds, daylight threshold value ∞
- Functions adjustable via MICAS Autolight app on tablet or smartphone
- Master-master via Bluetooth® mesh and master-slave wired

Daylight sensor:

Light-interference pulses of less than 5 seconds are suppressed. This prevents the luminaire from being switched on and off in case of brief incidences of light (e.g. passing vehicles with headlights).

- Switch-on threshold approx. 5-10 lx
- Switch-off threshold approx. 30-40 lx

Comparison

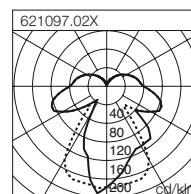
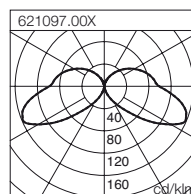
LED vs. conventional lamps

LED 10 / 14 W ≈

1 x 75 W A60 (75 W Psys)



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	
Wall luminaires							Price Category 12
621097.00X	L 160, B 115, H 303	LED	830	600	10	on/off	
621097.00X.1	L 160, B 115, H 303	LED	840	620	10	on/off	
Wall luminaires with additional light emission downwards (switchable separately)							Price Category 12
621097.02X	L 160, B 115, H 303	LED	830	750	14	on/off	
621097.02X.1	L 160, B 115, H 303	LED	840	780	14	on/off	
Wall luminaires with movement sensor							Price Category 12
621097.00X.19	L 160, B 115, H 303	LED	830	600	10	on/off	
621097.00X.1.19	L 160, B 115, H 303	LED	840	620	10	on/off	
Wall luminaires with daylight sensor							Price Category 12
621097.00X.25	L 160, B 115, H 303	LED	830	600	10	on/off	
621097.00X.1.25	L 160, B 115, H 303	LED	840	620	10	on/off	
Replacement glasses							Price Category 12
982260.00X	D 115, H 190	Spare diffuser with integral louvres					





Comparison LED vs. conventional lamps

LED 10 / 14 W ≈
1 x 75 W A60 (75 W Psys)



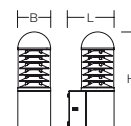
Wall luminaires | Mega Lamelle

Type of Protection: **IP 65**
Protection Class: I
Impact Protection: IK04

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Luminaire head made of corrosion-resistant pressure die-cast aluminium, powder coated, with transparent cylinder (glass) and translucent anti-glare louvres. Bottom cover printed toughened glass. Fixing on the wall outside the gasketed volume, drill hole deviations can be compensated. Screwless luminaire fixing via RZB Gravolock® System. With membrane valve as a standard to avoid condensed water. Electrical plug and play featuring quick connector. Cable entry granting two cables for loop-through.

Mains connection 2 x 3 x 2.5 mm² (with additional light emission downwards 2 x 5 x 2.5 mm²).

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Movement sensor:

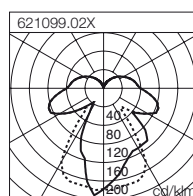
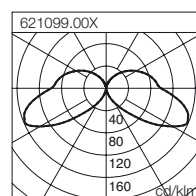
- HF detector 5.8 GHz
- Holding time 5 sec. - 60 min.; adjustable in 13 steps
- Detection angle 120°
- Range up to 10 m
- Speed detection: 0.3-3 m/s (1-10 km/h)
- Sensitivity 0-100% in 10 steps
- Daylight sensor 1-350 lx
- Factory setting: sensitivity 70%, hold time 30 seconds, daylight threshold value ∞
- Functions adjustable via MICAS Autolight app on tablet or smartphone
- Master-master via Bluetooth® mesh and master-slave wired

Daylight sensor:

Light-interference pulses of less than 5 seconds are suppressed. This prevents the luminaire from being switched on and off in case of brief incidences of light (e.g. passing vehicles with headlights).

- Switch-on threshold approx. 5-10 lx
- Switch-off threshold approx. 30-40 lx

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able	
Wall luminaires							Price Category 12
621099.00X	L 160, B 115, H 338	LED	830	600	10	on/off	
621099.00X.1	L 160, B 115, H 338	LED	840	620	10	on/off	
Wall luminaires with additional light emission downwards (switchable separately)							Price Category 12
621099.02X	L 160, B 115, H 338	LED	830	750	14	on/off	
621099.02X.1	L 160, B 115, H 338	LED	840	780	14	on/off	
Wall luminaires with movement sensor							Price Category 12
621099.00X.19	L 160, B 115, H 338	LED	830	600	10	on/off	
621099.00X.1.19	L 160, B 115, H 338	LED	840	620	10	on/off	
Wall luminaires with daylight sensor							Price Category 12
621099.00X.25	L 160, B 115, H 338	LED	830	600	10	on/off	
621099.00X.1.25	L 160, B 115, H 338	LED	840	620	10	on/off	
Replacement glasses							Price Category 12
982261.00X	D 115, H 228	Spare diffuser with integral louvres					



Wall luminaires | Mega Cone

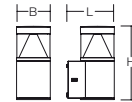
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK04

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Luminaire head made of corrosion-resistant pressure die-cast aluminium, powder coated, with clear glass cylinder and conical reflector. Bottom cover printed toughened glass. Fixing on the wall outside the gasketed volume, drill hole deviations can be compensated. Screwless luminaire fixing via RZB Gravalock® System. With membrane valve as a standard to avoid condensed water. Electrical plug and play featuring quick connector. Cable entry granting two cables for loop-through. Mains connection 2 x 3 x 2.5 mm² (with additional light emission downwards 2 x 5 x 2.5 mm²).

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Movement sensor:

- HF detector 5.8 GHz
- Holding time 5 sec. - 60 min.; adjustable in 13 steps
- Detection angle 120°
- Range up to 10 m
- Speed detection: 0.3-3 m/s (1-10 km/h)
- Sensitivity 0-100% in 10 steps
- Daylight sensor 1-350 lx
- Factory setting: sensitivity 70%, hold time 30 seconds, daylight threshold value ∞
- Functions adjustable via MICAS Autolight app on tablet or smartphone
- Master-master via Bluetooth® mesh and master-slave wired

Daylight sensor:

Light-interference pulses of less than 5 seconds are suppressed. This prevents the luminaire from being switched on and off in case of brief incidences of light (e.g. passing vehicles with headlights).

- Switch-on threshold approx. 5-10 lx
- Switch-off threshold approx. 30-40 lx

Comparison

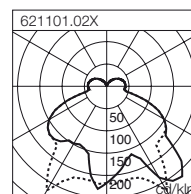
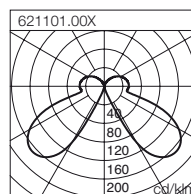
LED vs. conventional lamps

LED 10 / 14 W ≈

1 x 75 W A60 (75 W Psys)



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	
Wall luminaires							Price Category 12
621101.00X	L 160, B 115, H 338	LED	830	600	10	on/off	
621101.00X.1	L 160, B 115, H 338	LED	840	630	10	on/off	
Wall luminaires with additional light emission downwards (switchable separately)							Price Category 12
621101.02X	L 160, B 115, H 338	LED	830	750	14	on/off	
621101.02X.1	L 160, B 115, H 338	LED	840	790	14	on/off	
Wall luminaires with movement sensor							Price Category 12
621101.00X.19	L 160, B 115, H 338	LED	830	600	10	on/off	
621101.00X.1.19	L 160, B 115, H 338	LED	840	630	10	on/off	
Wall luminaires with daylight sensor							Price Category 12
621101.00X.25	L 160, B 115, H 338	LED	830	600	10	on/off	
621101.00X.1.25	L 160, B 115, H 338	LED	840	630	10	on/off	
Replacement glasses							Price Category 12
982527.00X	D 115, H 137	Replacement glass complete with conical screen					



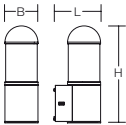


Wall luminaires | Mega Laterne

Type of Protection: **IP 65**
Protection Class: I
Impact Protection: IK04

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Luminaire head made of die cast aluminium, powder coated, with opal cylinder (glass). Bottom cover printed toughened glass. Fixing on the wall outside the gasketed volume, drill hole deviations can be compensated. Screwless luminaire fixing via RZB Gravalock® System. With membrane valve as a standard to avoid condensed water. Electrical plug and play featuring quick connector. Cable entry granting two cables for loop-through. Mains connection 2 x 3 x 2.5 mm² (with additional light emission downwards 2 x 5 x 2.5 mm²).

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Comparison
LED vs. conventional lamps

LED 10 / 14 W ≈
1 x 75 W A60 (75 W Psys)



Movement sensor:

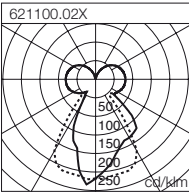
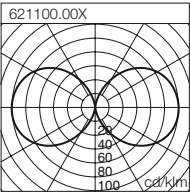
- HF detector 5.8 GHz
- Holding time 5 sec. - 60 min.; adjustable in 13 steps
- Detection angle 120°
- Range up to 10 m
- Speed detection: 0.3-3 m/s (1-10 km/h)
- Sensitivity 0-100% in 10 steps
- Daylight sensor 1-350 lx
- Factory setting: sensitivity 70%, hold time 30 seconds, daylight threshold value ∞
- Functions adjustable via MICAS Autolight app on tablet or smartphone
- Master-master via Bluetooth® mesh and master-slave wired

Daylight sensor:

Light-interference pulses of less than 5 seconds are suppressed. This prevents the luminaire from being switched on and off in case of brief incidences of light (e.g. passing vehicles with headlights).

- Switch-on threshold approx. 5-10 lx
- Switch-off threshold approx. 30-40 lx

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Wall luminaires						
Price Category 12						
621100.00X	L 160, B 115, H 338	LED	830	460	10	on/off
621100.00X.1	L 160, B 115, H 338	LED	840	480	10	on/off
Wall luminaires with additional light emission downwards (switchable separately)						
Price Category 12						
621100.02X	L 160, B 115, H 338	LED	830	610	14	on/off
621100.02X.1	L 160, B 115, H 338	LED	840	640	14	on/off
Wall luminaires with movement sensor						
Price Category 12						
621100.00X.19	L 160, B 115, H 338	LED	830	460	10	on/off
621100.00X.1.19	L 160, B 115, H 338	LED	840	480	10	on/off
Wall luminaires with daylight sensor						
Price Category 12						
621100.00X.25	L 160, B 115, H 338	LED	830	460	10	on/off
621100.00X.1.25	L 160, B 115, H 338	LED	840	480	10	on/off
Replacement glasses						
Price Category 13						
982262.00X	D 115, H 228	Spare diffuser				



Wall luminaires | Mega Laterne

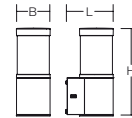
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK04

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Luminaire head made of die cast aluminium, powder coated, with opal cylinder (glass). Bottom cover printed toughened glass. Fixing on the wall outside the gasketed volume, drill hole deviations can be compensated. Screwless luminaire fixing via RZB Gravalock® System. With membrane valve as a standard to avoid condensed water. Electrical plug and play featuring quick connector. Cable entry granting two cables for loop-through. Mains connection 2 x 3 x 2.5 mm² (with additional light emission downwards 2 x 5 x 2.5 mm²).

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Movement sensor:

- HF detector 5.8 GHz
- Holding time 5 sec. - 60 min.; adjustable in 13 steps
- Detection angle 120°
- Range up to 10 m
- Speed detection: 0.3-3 m/s (1-10 km/h)
- Sensitivity 0-100% in 10 steps
- Daylight sensor 1-350 lx
- Factory setting: sensitivity 70%, hold time 30 seconds, daylight threshold value ∞
- Functions adjustable via MICAS Autolight app on tablet or smartphone
- Master-master via Bluetooth® mesh and master-slave wired

Daylight sensor:

Light-interference pulses of less than 5 seconds are suppressed. This prevents the luminaire from being switched on and off in case of brief incidences of light (e.g. passing vehicles with headlights).

- Switch-on threshold approx. 5-10 lx
- Switch-off threshold approx. 30-40 lx

Comparison

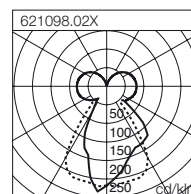
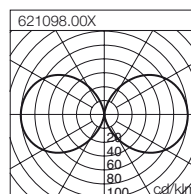
LED vs. conventional lamps

LED 10 / 14 W ≈

1 x 75 W A60 (75 W Psys)



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able	
Wall luminaires							Price Category 12
621098.00X	L 160, B 115, H 303	LED	830	460	10	on/off	
621098.00X.1	L 160, B 115, H 303	LED	840	480	10	on/off	
Wall luminaires with additional light emission downwards (switchable separately)							Price Category 12
621098.02X	L 160, B 115, H 303	LED	830	610	14	on/off	
621098.02X.1	L 160, B 115, H 303	LED	840	640	14	on/off	
Wall luminaires with movement sensor							Price Category 12
621098.00X.19	L 160, B 115, H 303	LED	830	460	10	on/off	
621098.00X.1.19	L 160, B 115, H 303	LED	840	480	10	on/off	
Wall luminaires with daylight sensor							Price Category 12
621098.00X.25	L 160, B 115, H 303	LED	830	460	10	on/off	
621098.00X.1.25	L 160, B 115, H 303	LED	840	480	10	on/off	
Replacement glasses							Price Category 13
982262.01X	D 116, H 193	Spare diffuser					





Comparison LED vs. conventional lamps

LED 10 / 14 W ≈
1 x 75 W A60 (75 W Psys)

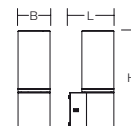


Wall luminaires | Mega Tube

Type of Protection: **IP 65**
Protection Class: I
Impact Protection: IK04

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Diffuser: mouth-blown opal glass, satin finish. Bottom cover printed toughened glass. Fixing on the wall outside the gasketed volume, drill hole deviations can be compensated. Screwless luminaire fixing via RZB Gravalock® System. With membrane valve as a standard to avoid condensed water. Electrical plug and play featuring quick connector. Cable entry granting two cables for loop-through. Mains connection 2 x 3 x 2.5 mm² (with additional light emission downwards 2 x 5 x 2.5 mm²).

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Movement sensor:

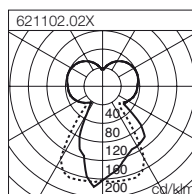
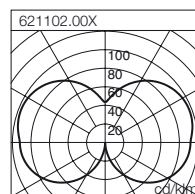
- HF detector 5.8 GHz
- Holding time 5 sec. - 60 min.; adjustable in 13 steps
- Detection angle 120°
- Range up to 10 m
- Speed detection: 0.3-3 m/s (1-10 km/h)
- Sensitivity 0-100% in 10 steps
- Daylight sensor 1-350 lx
- Factory setting: sensitivity 70%, hold time 30 seconds, daylight threshold value ∞
- Functions adjustable via MICAS Autolight app on tablet or smartphone
- Master-master via Bluetooth® mesh and master-slave wired

Daylight sensor:

Light-interference pulses of less than 5 seconds are suppressed. This prevents the luminaire from being switched on and off in case of brief incidences of light (e.g. passing vehicles with headlights).

- Switch-on threshold approx. 5-10 lx
- Switch-off threshold approx. 30-40 lx

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able	
Wall luminaires							Price Category 12
621102.00X	L 160, B 115, H 338	LED	830	650	10	on/off	
621102.00X.1	L 160, B 115, H 338	LED	840	670	10	on/off	
Wall luminaires with additional light emission downwards (switchable separately)							Price Category 12
621102.02X	L 160, B 115, H 338	LED	830	800	14	on/off	
621102.02X.1	L 160, B 115, H 338	LED	840	830	14	on/off	
Wall luminaires with movement sensor							Price Category 12
621102.00X.19	L 160, B 115, H 338	LED	830	650	10	on/off	
621102.00X.1.19	L 160, B 115, H 338	LED	840	670	10	on/off	
Wall luminaires with daylight sensor							Price Category 12
621102.00X.25	L 160, B 115, H 338	LED	830	650	10	on/off	
621102.00X.1.25	L 160, B 115, H 338	LED	840	670	10	on/off	
Replacement glasses							Price Category 13
982108.01X	D 115, H 244	Opal glass, satin finish, h 210 mm					



Wall luminaires | Mega Gürtellinse

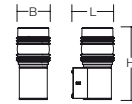
Type of Protection: IP 65

Protection Class: I

Impact Protection: IK04

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Mouth-blown luminaire glass, clear, drum lens shape. Bottom cover printed toughened glass. Fixing on the wall outside the gasketed volume, drill hole deviations can be compensated. Screwless luminaire fixing via RZB Gravalock® System. With membrane valve as a standard to avoid condensed water. Electrical plug and play featuring quick connector. Cable entry granting two cables for loop-through. Mains connection 2 x 3 x 2.5 mm² (with additional light emission downwards 2 x 5 x 2.5 mm²).

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Movement sensor:

- HF detector 5.8 GHz
- Holding time 5 sec. - 60 min.; adjustable in 13 steps
- Detection angle 120°
- Range up to 10 m
- Speed detection: 0.3-3 m/s (1-10 km/h)
- Sensitivity 0-100% in 10 steps
- Daylight sensor 1-350 lx
- Factory setting: sensitivity 70%, hold time 30 seconds, daylight threshold value ∞
- Functions adjustable via MICAS Autolight app on tablet or smartphone
- Master-master via Bluetooth® mesh and master-slave wired

Daylight sensor:

Light-interference pulses of less than 5 seconds are suppressed. This prevents the luminaire from being switched on and off in case of brief incidences of light (e.g. passing vehicles with headlights).

- Switch-on threshold approx. 5-10 lx
- Switch-off threshold approx. 30-40 lx

Comparison

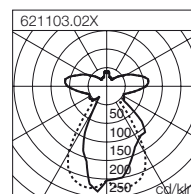
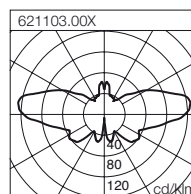
LED vs. conventional lamps

LED 10 / 14 W ≈

1 x 75 W A60 (75 W Psys)



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able	
Wall luminaires							Price Category 12
621103.00X	L 160, B 115, H 338	LED	830	500	10	on/off	
621103.00X.1	L 160, B 115, H 338	LED	840	520	10	on/off	
Wall luminaires with additional light emission downwards (switchable separately)							Price Category 12
621103.02X	L 160, B 115, H 338	LED	830	650	14	on/off	
621103.02X.1	L 160, B 115, H 338	LED	840	680	14	on/off	
Wall luminaires with movement sensor							Price Category 12
621103.00X.19	L 160, B 115, H 338	LED	830	500	10	on/off	
621103.00X.1.19	L 160, B 115, H 338	LED	840	520	10	on/off	
Wall luminaires with daylight sensor							Price Category 12
621103.00X.25	L 160, B 115, H 338	LED	830	500	10	on/off	
621103.00X.1.25	L 160, B 115, H 338	LED	840	520	10	on/off	
Replacement glasses							Price Category 12
982553.00X	D 140, H 187	Replacement glass with metal cap					



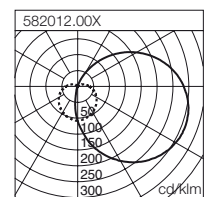
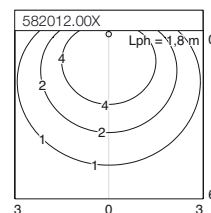


ROUNDED® MIDI

Wall luminaires

- Elegant appearance without visible screws featuring bayonet lock and safety catch for theft protection
- Smart and cost-saving LED modules for mains voltage on high efficiency level applied for energy saving operation
- Replaceable LED module
- Second cable inlet for loop through
- Sturdy housing made of corrosion resistant pressure die-cast aluminium, powder coated
- Seawater resistant coating
- Integral membrane valve for pressure compensation and avoidance of condensation

- Fixing points outside the gasketed area guarantee a safe mounting quality by consequently preventing mistakes
- Quick installation:
 - Drill hole deviations can be compensated
 - Generous space for displacing cables allows the wall outlet even in the luminaire centre
 - Electrical connection via piano key terminal
 - Diffuser retained in cover
- The flat circular shape can be applied everywhere



Further luminaires of this series, see:
 Outdoor lighting | Ceiling and wall luminaires
 Outdoor lighting | House number luminaires
 Emergency lighting | Escape route illumination

Wall luminaires | Rounded Midi

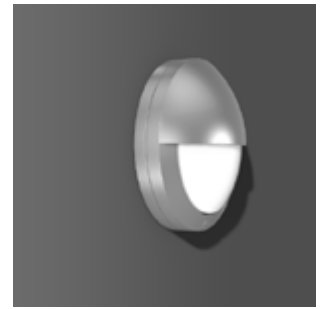
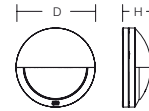
Type of Protection: **IP 66**

Protection Class: I

Impact Protection: IK08 (Glass), IK10 (polycarbonate)

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Visor with crystal glass or plastic (polycarbonate) spherical cap diffuser retained in cover ring, screwless cover fixing via bayonet lock. Includes 1 anti-theft device. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to avoid condensed water. With mains voltage LED module. Mains connection 2 x 3 x 1.5 mm².

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Wall luminaires with visor						Price Category 12
Glass						
582012.00X.1 *	D 268, H 96	LED ⁽¹⁾	830	270	10	on/off
582012.00X *	D 268, H 96	LED ⁽¹⁾	840	290	10	on/off
582057.00X *	D 268, H 96	LED ⁽¹⁾	830	370	13	on/off
582057.00X.1 *	D 268, H 96	LED ⁽¹⁾	840	400	13	on/off
582010.00X	D 268, H 96	1 x QA60 (clear) max. 57 W				
Plastic (polycarbonate)						
582013.00X.1 *	D 268, H 96	LED ⁽¹⁾	830	170	10	on/off
582013.00X *	D 268, H 96	LED ⁽¹⁾	840	180	10	on/off
582058.00X *	D 268, H 96	LED ⁽¹⁾	830	300	13	on/off
582058.00X.1 *	D 268, H 96	LED ⁽¹⁾	840	300	13	on/off
582011.00X	D 268, H 96	1 x QA60 (clear) max. 57 W				

* Suitable for phase cut dimming (10-100%)

Theft protection						Price Category 12
982410.003	L 13, B 11, H 16					

Replacement gasket						Price Category 12
982511.002	D 232, H 13					

Replacement glasses						Price Category 13
982512.002	D 232, H 61					

Replacement diffusers						Price Category 13
982516.002	D 226, H 60					

Comparison LED vs. conventional lamps

LED 10 W ≈

1 x 40 W A60 (40 W Psys)

LED 13 W ≈

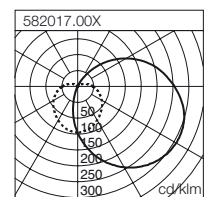
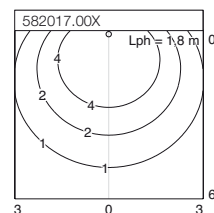
1 x 60 W A60 (60 W Psys)



ALU-DESIGN

Wall luminaires

- Elegant appearance without visible screws featuring bayonet lock and safety catch for theft protection
- Smart and cost-saving LED modules for mains voltage on high efficiency level applied for energy saving operation
- Sturdy housing made of corrosion resistant pressure die-cast aluminium, powder coated
- Seawater resistant coating
- Second cable inlet for loop through
- Fixing points outside the gasketed area guarantee a safe mounting quality by consequently preventing mistakes
- Quick installation:
 - Drill hole deviations can be compensated
 - Generous space for displacing cables allows the wall outlet even in the luminaire centre
 - Electrical connection via piano key terminal
 - Diffuser retained in cover
- Emergency versions for escape route lighting and central battery system available
- Integral membrane valve for pressure compensation and avoidance of condensation



Further luminaires of this series, see:
Outdoor lighting | Ceiling and wall luminaires

Wall luminaires | Alu-Design

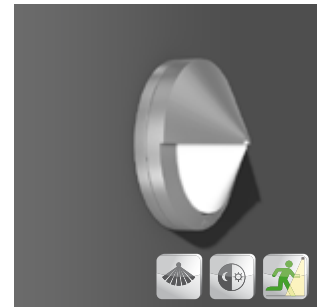
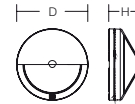
Type of Protection: **IP 66**

Protection Class: I

Impact Protection: IK08

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Opal glass cone diffuser retained in cover ring. Screwless cover fixing via bayonet lock with safety catch. Includes 1 anti-theft device. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to avoid condensed water. With mains voltage LED module. Mains connection 2 x 3 x 1.5 mm².

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	
Wall luminaires							Price Category 12
582017.00X *	D 268, H 120	LED ⁽¹⁾	830	310	10	on/off	✓
582017.00X.1 *	D 268, H 120	LED ⁽¹⁾	840	310	10	on/off	✓
582060.00X *	D 268, H 120	LED ⁽¹⁾	830	320	13	on/off	
582060.00X.1 *	D 268, H 120	LED ⁽¹⁾	840	340	13	on/off	
582016.00X	D 268, H 120	1 x QA60 (clear) max. 57 W					

Wall luminaires with daylight sensor							Price Category 12
582017.00X.25	D 268, H 120	LED ⁽¹⁾	830	260	10	on/off	
582017.00X.1.25	D 268, H 120	LED ⁽¹⁾	840	260	10	on/off	

Wall luminaires with integrated HF movement sensor							Price Category 12
582017.00X.19	D 268, H 120	LED ⁽¹⁾	830	260	10	on/off	
582017.00X.1.19	D 268, H 120	LED ⁽¹⁾	840	260	10	on/off	
582060.00X.19	D 268, H 120	LED ⁽¹⁾	830	320	13	on/off	
582060.00X.1.19	D 268, H 120	LED ⁽¹⁾	840	340	13	on/off	

* Suitable for phase cut dimming (10-100%)

Theft protection							Price Category 12
982410.003	L 13, B 11, H 16						

Replacement glasses							Price Category 13
982514.002	D 232, H 84						

Replacement gasket							Price Category 12
982511.002	D 232, H 13						

Comparison LED vs. conventional lamps

LED 10 W ≈

1 x 10 W TC-D (16 W Psys)

LED 13 W ≈

1 x 60 W A60 (60 W Psys)



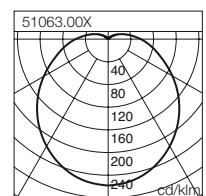
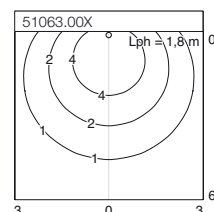
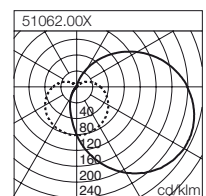
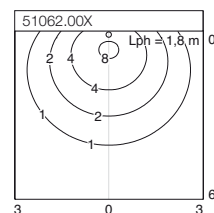
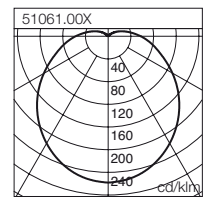
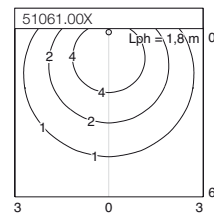
IP65

IK08

ALU-SUPERIOR

Wall luminaires, Ceiling and wall luminaires

- Impact resistant plastic diffuser is suitable for robust environmental requirements
- Smart and cost-saving LED modules for mains voltage on high efficiency level applied for energy saving operation
- High ingress protection rating supports continuous trouble-free operation
- A stainless steel bracket outside the sealed lamp compartment is used to certainly prevent installation failures. Additionally, drill hole tolerances can be compensated.
- A second cable gland provides simple loop through without additional connection box
- Integral membrane valve for pressure compensation and avoidance of condensation



Wall luminaires | Alu-Superior

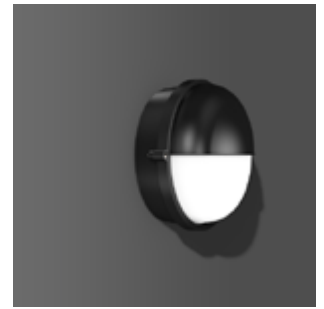
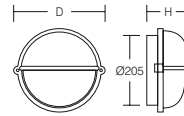
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK08

Base and cover cap: die-cast aluminium, powder coated. Stainless steel mounting bracket with compensation for drill hole deviations. Diffuser: plastic (polycarbonate), opal. With membrane valve to avoid condensation. With mains voltage LED module. Mains connection 2 x 3 x 1.5 mm².

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Wall luminaires with visor						Price Category 12
51062.00X	D 245, H 125	LED ⁽¹⁾	840	250	6	on/off
51051.00X	D 245, H 125	1 x QA60 (clear) max. 57 W				

Replacement diffusers						Price Category 13
08-1837.002	D 214, H 68	Plastic (polycarbonate)				

Comparison LED vs. conventional lamps

LED 6 W ≈
1 x 40 W A60 (40 W Psys)

Ceiling and wall luminaires | Alu-Superior

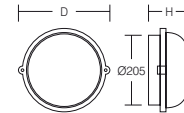
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK08

Base and cover ring: die-cast aluminium, powder-coated. Stainless steel mounting bracket with compensation for drill hole deviations. Diffuser: plastic (polycarbonate), opal. With membrane valve to avoid condensation. With mains voltage LED module. Mains connection 2 x 3 x 1.5 mm².

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						Price Category 12
51061.00X	D 245, H 120	LED ⁽¹⁾	840	410	6	on/off
51050.00X	D 245, H 120	1 x QA60 (clear) max. 57 W				

Replacement diffusers						Price Category 13
08-1837.002	D 214, H 68	Plastic (polycarbonate)				

Comparison LED vs. conventional lamps

LED 6 W ≈
1 x 60 W A60 (60 W Psys)

Ceiling and wall luminaires | Alu-Superior

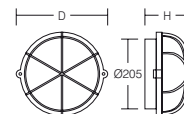
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK08

Base and protective guard: die-cast aluminium, powder-coated. Stainless steel mounting bracket with compensation for drill hole deviations. Diffuser: plastic (polycarbonate), opal. With membrane valve to avoid condensation. With mains voltage LED module. Mains connection 2 x 3 x 1.5 mm².

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires with grille						Price Category 12
51063.00X	D 245, H 125	LED ⁽¹⁾	840	410	6	on/off
51052.00X	D 245, H 125	1 x QA60 (clear) max. 57 W				

Replacement diffusers						Price Category 13
08-1837.002	D 214, H 68	Plastic (polycarbonate)				

Comparison LED vs. conventional lamps

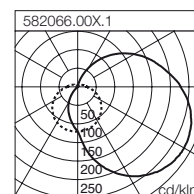
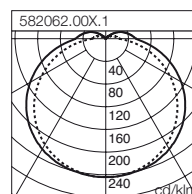
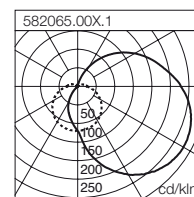
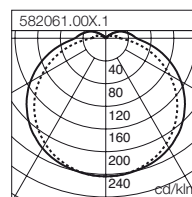
LED 6 W ≈
1 x 60 W A60 (60 W Psys)



ALU-LUX OVAL

Wall luminaires, Ceiling and wall luminaires

- Smart and cost-saving LED modules for mains voltage on high efficiency level applied for energy saving operation
- High ingress protection rating supports continuous trouble-free operation
- A stainless steel bracket outside the sealed lamp compartment is used to certainly prevent installation failures. Additionally, drill hole tolerances can be compensated.
- Sturdy housing made of corrosion resistant pressure die-cast aluminium, powder coated
- Seawater resistant coating
- Integral membrane valve for pressure compensation and avoidance of condensation
- Second cable inlet for loop through



Wall luminaires | Alu-Lux oval

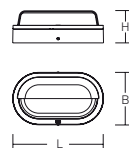
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated.
Crystal glass: matt inside. Fixing on the wall outside the gasketed volume, drill hole deviations can be compensated. With mains voltage LED module. Mains connection 1 x 3 x 2.5 mm².
With membrane valve to avoid condensation.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Wall luminaires with visor						
						Price Category 12
582065.00X *	L 258, B 148, H 92	LED ⁽¹⁾	830	220	8	on/off
582065.00X.1 *	L 258, B 148, H 92	LED ⁽¹⁾	840	240	8	on/off
582066.00X *	L 258, B 148, H 92	LED ⁽¹⁾	830	290	12	on/off
582066.00X.1 *	L 258, B 148, H 92	LED ⁽¹⁾	840	330	12	on/off

Wall luminaires with daylight sensor						
						Price Category 12
582065.00X.25	L 258, B 148, H 92	LED ⁽¹⁾	830	220	8	on/off
582065.00X.1.25	L 258, B 148, H 92	LED ⁽¹⁾	840	240	8	on/off
582066.00X.25	L 258, B 148, H 92	LED ⁽¹⁾	830	290	12	on/off
582066.00X.1.25	L 258, B 148, H 92	LED ⁽¹⁾	840	330	12	on/off

* Suitable for phase cut dimming (10-100%)

Replacement gasket						
						Price Category 11
982586.009	L 236, B 126, H 4					

Replacement glasses						
						Price Category 11
982587.002	L 234, B 124, H 44					

Ceiling and wall luminaires | Alu-Lux oval

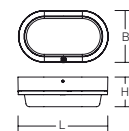
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated.
Crystal glass: matt inside. Fixing on the wall outside the gasketed volume, drill hole deviations can be compensated. With mains voltage LED module. Mains connection 1 x 3 x 2.5 mm².
With membrane valve to avoid condensation.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						
						Price Category 12
582061.00X *	L 258, B 148, H 86	LED ⁽¹⁾	830	490	8	on/off
582061.00X.1 *	L 258, B 148, H 86	LED ⁽¹⁾	840	540	8	on/off
582062.00X *	L 258, B 148, H 86	LED ⁽¹⁾	830	680	12	on/off
582062.00X.1 *	L 258, B 148, H 86	LED ⁽¹⁾	840	740	12	on/off

Ceiling and wall luminaires with daylight sensor						
						Price Category 12
582061.00X.25	L 258, B 148, H 86	LED ⁽¹⁾	830	490	8	on/off
582061.00X.1.25	L 258, B 148, H 86	LED ⁽¹⁾	840	540	8	on/off
582062.00X.25	L 258, B 148, H 86	LED ⁽¹⁾	830	680	12	on/off
582062.00X.1.25	L 258, B 148, H 86	LED ⁽¹⁾	840	740	12	on/off

* Suitable for phase cut dimming (10-100%)

Replacement gasket						
						Price Category 11
982586.009	L 236, B 126, H 4					

Replacement glasses						
						Price Category 11
982587.002	L 234, B 124, H 44					

Comparison LED vs. conventional lamps

LED 8 W ≈

1 x 40 W A60 (40 W Psys)
1 x 7 W TC-S (14 W Psys)

LED 12 W ≈

1 x 60 W A60 (60 W Psys)
1 x 9 W TC-S (16 W Psys)

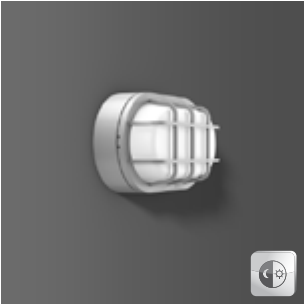
Comparison LED vs. conventional lamps

LED 8 W ≈

1 x 75 W A60 (75 W Psys)
1 x 13 W TC-D (19 W Psys)

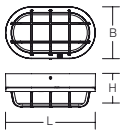
LED 12 W ≈

1 x 100 W A60 (100 W Psys)
1 x 18 W TC-D (26 W Psys)



Ceiling and wall luminaires | Alu-Lux oval

Type of Protection: **IP 65**
Protection Class: I
Impact Protection: IK07
Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated.
Crystal glass: matt inside. Fixing on the wall outside the gasketed volume, drill hole deviations can be compensated. With mains voltage LED module. Mains connection 1 x 3 x 2.5 mm².
With membrane valve to avoid condensation.
Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Comparison
LED vs. conventional lamps

LED 8 W ≈
1 x 75 W A60 (75 W Psys)
1 x 13 W TC-D (19 W Psys)

LED 12 W ≈
1 x 100 W A60 (100 W Psys)
1 x 18 W TC-D (26 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires with protective guard						Price Category 12
582063.00X *	L 258, B 148, H 95	LED ⁽¹⁾	830	480	8	on/off
582063.00X.1 *	L 258, B 148, H 95	LED ⁽¹⁾	840	530	8	on/off
582064.00X *	L 258, B 148, H 95	LED ⁽¹⁾	830	670	12	on/off
582064.00X.1 *	L 258, B 148, H 95	LED ⁽¹⁾	840	730	12	on/off
Ceiling and wall luminaires with protective guard and integrated daylight sensor						Price Category 12
582063.00X.25	L 258, B 148, H 95	LED ⁽¹⁾	830	480	8	on/off
582063.00X.1.25	L 258, B 148, H 95	LED ⁽¹⁾	840	530	8	on/off
582064.00X.25	L 258, B 148, H 95	LED ⁽¹⁾	830	670	12	on/off
582064.00X.1.25	L 258, B 148, H 95	LED ⁽¹⁾	840	730	12	on/off
* Suitable for phase cut dimming (10-100%)						
Replacement gasket						Price Category 11
982586.009	L 236, B 126, H 4					
Replacement glasses						Price Category 11
982587.002	L 234, B 124, H 44					



The application image shows:
Alu-Lux oval



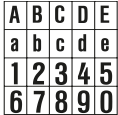
The application image shows:
Rounded Midi



611



612



613

Rounded Midi
610-611

The Ultimate Ultra-flat
House Number Luminaire
612

Self-adhesive black
numbers and letters
613



ROUNDED® MIDI

House number luminaires

- Elegant appearance without visible screws featuring bayonet lock and safety catch for theft protection
- LED: Smart and cost-saving LED modules for mains voltage on high efficiency level applied for energy saving operation
- Seawater resistant coating
- Replaceable LED module
- Second cable inlet for loop through
- Sturdy housing made of corrosion resistant pressure die-cast aluminium, powder coated
- Integral membrane valve for pressure compensation and prevention of condensation
- Fixing points outside the gasketed area guarantee a safe mounting quality by consequently preventing mistakes
- Quick installation:
 - Drill hole deviations can be compensated
 - Generous space for displacing cables allows the wall outlet even in the luminaire centre
 - Electrical connection via piano key terminal
 - Diffuser retained in cover



Further luminaires of this series, see:
 Outdoor lighting | Wall luminaires
 Outdoor lighting | Ceiling and wall luminaires

House number luminaires | Rounded Midi

Type of Protection: IP 66

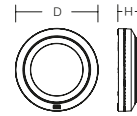
Protection Class: I

Impact Protection: IK08 (Glass), IK10 (polycarbonate)

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Diffuser: crystal glass (satin finish) or opal plastic (polycarbonate); with diffuser fixing. Screwless cover fixing via bayonet lock with safety catch. Includes 1 anti-theft device. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to prevent condensed water. With mains voltage LED module and daylight sensor. Mains connection 2 x 3 x 1.5 mm².

Please place a separate order for your lettering!

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Wall luminaires with daylight sensor: On abt. 5 lx, Off abt. 40 lx						
Glass						
582004.00X.1.25	D 268, H 70	LED ⁽¹⁾	830	150	4	on/off
582004.00X.25	D 268, H 70	LED ⁽¹⁾	840	160	4	on/off
Plastic (polycarbonate)						
582005.00X.1.25	D 268, H 70	LED ⁽¹⁾	830	190	4	on/off
582005.00X.25	D 268, H 70	LED ⁽¹⁾	840	200	4	on/off



Theft protection				Price Category 12		
982410.003	L 13, B 11, H 16					

Replacement gasket				Price Category 12		
982511.002	D 232, H 13					

Replacement glasses				Price Category 13		
982513.002	D 232, H 40					

Replacement diffusers				Price Category 13		
982515.002	D 226, H 39					

Comparison LED vs. conventional lamps

LED 4 W ≈
1 x 40 W A60 (40 W Psys)

A	B	C	D	E
a	b	c	d	e
1	2	3	4	5
6	7	8	9	0

Self-adhesive black digits and letters can be found at the end of the chapter





Comparison LED vs. conventional lamps

LED 4 W ≈

1 x 40 W A60 (40 W Psys)
1 x 7 W TC-S (14 W Psys)

House number luminaires | The Ultimate Ultra-flat House Number Luminaire

Type of Protection: **IP 44**

Protection Class: I

Impact Protection: IK06

Base: plastic. Diffuser: plastic, opal, satin finish. Diffuser fastening: spring system. With mains voltage LED module.

Please place a separate order for your lettering!

Available colours: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	
Wall luminaires							Price Category 12
with daylight sensor: On abt. 5 lx, Off abt. 40 lx							
221167.002.25 .Q	L 226, B 226, H 70	LED ⁽¹⁾	840	230	4	on/off	
without daylight sensor							
221167.002	L 226, B 226, H 70	LED ⁽¹⁾	840	230	4	on/off	
Replacement diffusers							Price Category 13
08-221066.002	L 226, B 226, H 50						

Accessories | Self-adhesive black numbers and letters (not for The Ultimate Ultra-flat House Number Luminaire series)

The viewing distance depends on the height of the number. A 10 cm high number can still be read at a distance of 25 m. When ordering, please specify the required numbers or letters after the reference number.

Order example for lettering

99220.003.2 = Number 2

99220.003.B = Capital letter B

99220.003.B/K = Small letter b

Reference number	Dimensions
------------------	------------

Adhesive lettering

Price Category 12

99220.003	H 40 mm
99221.003	H 60 mm
99222.003	H 100 mm
99223.003*	H 120 mm
99224.003*	H 200 mm

* Only digits and capital letters can be supplied

A	B	C	D	E
a	b	c	d	e
1	2	3	4	5
6	7	8	9	0

Accessories | Self-adhesive black numbers and letters for The Ultimate Ultra-flat House Number Luminaire series

Sturdy, firmly adhesive

The viewing distance depends on the height of the number. A 10 cm high number can still be read at a distance of 25 m. When ordering, please specify the required numbers or letters after the reference number.

Order example for lettering

99223.013.2 = Number 2 (number height: 120 mm)

99222.013.B = Capital letter B (letter height: 100 mm)

99222.013.B/K = Small letter b (letter height: 100 mm)

Reference number	Dimensions
------------------	------------

Adhesive lettering

Price Category 12






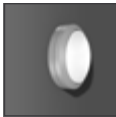
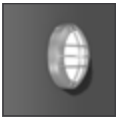




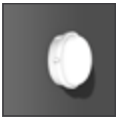




99221.013	H 60 mm
99222.013	H 100 mm
99223.013*	H 120 mm

* Only digits and capital letters can be supplied

A	B	C	D	E
a	b	c	d	e
1	2	3	4	5
6	7	8	9	0



The application image shows:
Rounded Midi

			Andho 616-617
			Flat Slim 618-623
			Flat Slim+ 624-627
			Cadero 628-631
			
			
			
			
			
			
			Alu-Design 628-629, 638-639
			Alu-Superior 640-641
			Alu-Lux oval 642-643
			Alu oval bulkhead luminaires 644-645
			
			

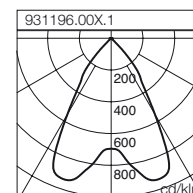


ANDHO®

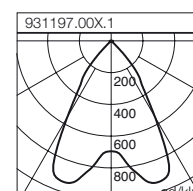
Surface mounted downlights

- High-quality LED die cast aluminium surface-mounted downlight
- Suitable for indoor and outdoor use
- Seawater resistant coating
- Reflector made of super-reflective **MIRO-SILVER®** for outstanding efficiency
- LED rated life 50,000 h (L80/B10)
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Easy installation with a separate ceiling frame and plug connection
- Suitable for through-wiring

931196.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	5	8



931197.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
1	2	3
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	4



Surface mounted downlights | Andho

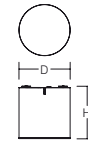
Type of Protection: **IP 65**


Protection Class: I

Impact Protection: IK06

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Cover clear single-pane tempered glass. Rotation-symmetric reflector made of reflex-boosted **MIRO-SILVER®**. With membrane valve as a standard to avoid condensed water. Connected via plug-in connector. 5 pole double terminal for through-wiring.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	UGR	dimmable
Surface mounted downlights								
931196.00X.2	D 154, H 157	LED	827	1800	15	61	17,9	on/off
931196.00X.2.76	D 154, H 157	LED	827	1800	15	61	17,9	DALI
931196.00X	D 154, H 157	LED	830	2000	15	63	18,7	on/off
931196.00X.76	D 154, H 157	LED	830	2000	15	63	18,7	DALI
931196.00X.1	D 154, H 157	LED	840	2100	15	63	18,8	on/off
931196.00X.1.76	D 154, H 157	LED	840	2100	15	63	18,8	DALI
931197.00X.2	D 154, H 157	LED	827	3650	31	61	20,3	on/off
931197.00X.2.76	D 154, H 157	LED	827	3650	31	61	20,3	DALI
931197.00X	D 154, H 157	LED	830	4000	31	63	21,1	on/off
931197.00X.76	D 154, H 157	LED	830	4000	31	63	21,1	DALI
931197.00X.1	D 154, H 157	LED	840	4150	31	63	21,2	on/off
931197.00X.1.76	D 154, H 157	LED	840	4150	31	63	21,2	DALI

Price Category 21

**Comparison
LED vs. conventional lamps**

LED 15 W ≈
 1 x 35 W HIT (45 W Psys)
 2 x 26 W TC-D (68 W Psys)

LED 31 W ≈
 1 x 70 W HIT (84 W Psys)
 4 x 26 W TC-D (136 W Psys)

Suspension								
982716.002	D 72, H 175, LP 3000	Pendant set, 3 m with 5-pin power cable (IP 68)						
982720.002	D 72, H 175, LP 5000	Pendant set, 5 m with 5-pin power cable (IP 68)						

Price Category 21





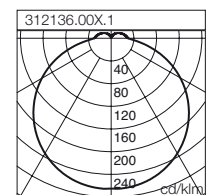
FLAT SLIM

Ceiling and wall luminaires

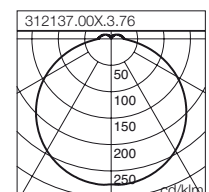
- Comprehensive range consisting of: Pendant luminaires, Ceiling and wall luminaires
- Base made of die-cast aluminium
- Mouth-blown three layer (triplex) opal glass satin finish or plastic diffuser (PMMA/PC) opal satin finish
- Diffuser mounting without use of tools, thanks to bayonet fixing
- Particularly homogeneous, soft and glare-free light thanks to the use of AC boards
- High ingress protection rating: IP 65
- Standard Gore™ Protective Vents diaphragm valve to avoid condensation

- Very easy installation thanks to plug & play connection
- LED module can be replaced without use of tools
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download
- Colour consistency within 3-steps MacAdam (3 SDCM)
- LED rated life 50,000 h (L70/B10)
- DALI and master boards suitable for DC voltage from 176-276 V; luminaire flux in DC mode 25%

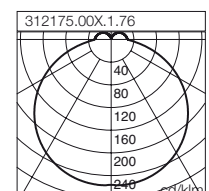
312136.00X.1		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	6	8
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
6	8	14



312137.00X.3.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	7



312175.00X.1.76		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
3	4	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
4	6	9



Further luminaires of this series, see:
Indoor lighting | Pendant luminaires





Applies to versions with .76

Comparison

LED vs. conventional lamps

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 21 W ≈

2 x 18 W TC-D (52 W Psys)

LED 27 W ≈

2 x 26 W TC-D (68 W Psys)

LED 31 / 32 / 33 W ≈

3 x 26 W TC-D (102 W Psys)

LED 38 / 40 W ≈

4 x 26 W TC-D (136 W Psys)

Ceiling and wall luminaires | Flat Slim

Type of Protection: IP 65

Protection Class: I

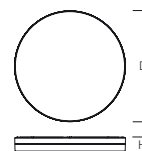
Impact Protection: IK03

Base: pressure die-cast aluminium, powder-coated. Opal glass: mouth-blown, satin finish.

Diffuser fastening: bayonet system. LED module can be connected without use of tools.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Ceiling and wall luminaires						
Glass						
D 230 mm						
312132.00X *	D 230, H 63	LED ⁽¹⁾	830	1000	13	on/off
312132.00X.76 **	D 230, H 63	LED ⁽¹⁾	830	1000	13	DALI
312132.00X.1 *	D 230, H 63	LED ⁽¹⁾	840	1000	13	on/off
312132.00X.1.76 **	D 230, H 63	LED ⁽¹⁾	840	1000	13	DALI
D 300 mm						
312133.00X *	D 300, H 63	LED ⁽¹⁾	830	1500	21	on/off
312133.00X.76 **	D 300, H 63	LED ⁽¹⁾	830	1500	21	DALI
312133.00X.730	D 300, H 63	LED ⁽¹⁾	830	1500	21	smart+free
312133.00X.1 *	D 300, H 63	LED ⁽¹⁾	840	1600	21	on/off
312133.00X.1.76 **	D 300, H 63	LED ⁽¹⁾	840	1600	21	DALI
312133.00X.1.730	D 300, H 63	LED ⁽¹⁾	840	1600	21	smart+free
D 400 mm						
312174.00X *	D 400, H 70	LED ⁽¹⁾	830	2200	27	on/off
312174.00X.76 **	D 400, H 70	LED ⁽¹⁾	830	2550	32	DALI
312174.00X.730	D 400, H 70	LED ⁽¹⁾	830	2200	27	smart+free
312174.00X.1 *	D 400, H 70	LED ⁽¹⁾	840	2300	27	on/off
312174.00X.1.76 **	D 400, H 70	LED ⁽¹⁾	840	2700	31	DALI
312174.00X.1.730	D 400, H 70	LED ⁽¹⁾	840	2300	27	smart+free
D 480 mm						
312134.00X	D 480, H 70	LED ⁽¹⁾	830	2600	33	on/off
312134.00X.76 **	D 480, H 70	LED ⁽¹⁾	830	3100	40	DALI
312134.00X.1	D 480, H 70	LED ⁽¹⁾	840	2700	33	on/off
312134.00X.1.76 **	D 480, H 70	LED ⁽¹⁾	840	3200	38	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Replacement glasses		Price Category 13
05-312132.002	D 230, H 51	
05-312133.002	D 300, H 51	
05-312174.022	D 400, H 58	
05-312134.002	D 480, H 59	

Replacement LED module for Flat Slim		Price Category 11
E90-6706.000	1 x LED 13 W 3000 K	
E90-6706.010	1 x LED 13 W 4000 K	
E90-6843.020	1 x LED 13 W 3000 K, DALI	
E90-6843.020.1	1 x LED 13 W 4000 K, DALI	
E90-6707.000	1 x LED 21 W 3000 K	
E90-6707.010	1 x LED 21 W 4000 K	
E90-6844.020	1 x LED 21 W 3000 K, DALI	
E90-6844.020.1	1 x LED 21 W 4000 K, DALI	
E90-6823.000	1 x LED 27 W 3000 K	
E90-6823.000.76	1 x LED 32 W 3000 K, DALI	
E90-6823.010	1 x LED 27 W 4000 K	
E90-6823.010.76	1 x LED 31 W 4000 K, DALI	
E90-6708.000	1 x LED 33 W 3000 K	
E90-6708.000.76	1 x LED 40 W 3000 K, DALI	
E90-6708.010	1 x LED 33 W 4000 K	
E90-6708.010.76	1 x LED 38 W 4000 K, DALI	

Ceiling and wall luminaires | Flat Slim with movement sensor

Type of Protection: **IP 65**

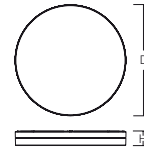
Protection Class: I

Impact Protection: IK03

Base: pressure die-cast aluminium, powder-coated. Opal glass: mouth-blown, satin finish.

Diffuser fastening: bayonet system. LED module can be connected without use of tools.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Functional parameters of a master luminaire with a ceiling height of approx. 2.8 m:

- HF detector 24 GHz with integrated corridor function
- Detection range approx. 130° radial
- Easy adjustment of functions via 3 associated push button switches
- Sensitivity/Range 0.5-5 m radial, adjustable from 10-100%
- Time control 1 second to 15 minutes in 8 different levels
- Daylight detection with 5 brightness levels and learning mode
- Up to 9 slave luminaires can be operated with one master luminaire (max. up to 150 W / 230 W)
- Suitable for outdoor use to a limited extent only, as it is sensitive to all movements

AC movement sensor luminaires with 24 GHz technology (Master / Slave) are not compatible with other movement sensor luminaires.



Applies to versions with .19

Comparison
LED vs. conventional lamps
LED 13 W ≈
1 x 26 W TC-D (34 W Psys)
LED 21 W ≈
2 x 18 W TC-D (52 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]		dimmable
Ceiling and wall luminaires with integrated movement sensor							
Glass							
D 230 mm							
312132.00X.19	D 230, H 63	LED ⁽¹⁾	830	1000	13	Master	on/off
312132.00X.191	D 230, H 63	LED ⁽¹⁾	830	1000	13	Slave	on/off
312132.00X.1.19	D 230, H 63	LED ⁽¹⁾	840	1000	13	Master	on/off
312132.00X.1.191	D 230, H 63	LED ⁽¹⁾	840	1000	13	Slave	on/off
D 300 mm							
312133.00X.19	D 300, H 63	LED ⁽¹⁾	830	1500	21	Master	on/off
312133.00X.191	D 300, H 63	LED ⁽¹⁾	830	1500	21	Slave	on/off
312133.00X.1.19	D 300, H 63	LED ⁽¹⁾	840	1600	21	Master	on/off
312133.00X.1.191	D 300, H 63	LED ⁽¹⁾	840	1600	21	Slave	on/off

Replacement glasses		Price Category 13
05-312132.002	D 230, H 51	
05-312133.002	D 300, H 51	

Replacement LED module for Flat Slim		Price Category 11
E90-6843.000	1 x LED 13 W 3000 K, Slave	
E90-6843.000.1	1 x LED 13 W 4000 K, Slave	
E90-6843.010	1 x LED 13 W 3000 K, Master	
E90-6843.010.1	1 x LED 13 W 4000 K, Master	
E90-6844.000	1 x LED 21 W 3000 K, Slave	
E90-6844.000.1	1 x LED 21 W 4000 K, Slave	
E90-6844.010	1 x LED 21 W 3000 K, Master	
E90-6844.010.1	1 x LED 21 W 4000 K, Master	



Applies to versions with .76

Comparison

LED vs. conventional lamps

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)

LED 21 W ≈

2 x 18 W TC-D (52 W Psys)

LED 27 W ≈

2 x 26 W TC-D (68 W Psys)

LED 31/32/33 W ≈

3 x 26 W TC-D (102 W Psys)

LED 38/40 W ≈

4 x 26 W TC-D (136 W Psys)

Ceiling and wall luminaires | Flat Slim

Type of Protection: **IP 65**

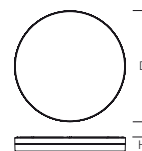
Protection Class: I

Impact Protection: IK02 (PMMA), IK08 (Polycarbonate)

Base: pressure die-cast aluminium, powder-coated. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof. Diffuser fastening: bayonet system. LED module can be connected without use of tools.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimming
Ceiling and wall luminaires						
Diffuser: plastic (PMMA)						
D 230 mm						
312135.00X *	D 230, H 63	LED ⁽¹⁾	830	1150	13	on/off
312135.00X.76 **	D 230, H 63	LED ⁽¹⁾	830	1150	13	DALI
312135.00X.1 *	D 230, H 63	LED ⁽¹⁾	840	1100	13	on/off
312135.00X.1.76 **	D 230, H 63	LED ⁽¹⁾	840	1100	13	DALI
D 300 mm						
312136.00X *	D 300, H 63	LED ⁽¹⁾	830	1800	21	on/off
312136.00X.76 **	D 300, H 63	LED ⁽¹⁾	830	1800	21	DALI
312136.00X.730	D 300, H 63	LED ⁽¹⁾	830	1800	21	smart+free
312136.00X.1 *	D 300, H 63	LED ⁽¹⁾	840	1900	21	on/off
312136.00X.1.76 **	D 300, H 63	LED ⁽¹⁾	840	1900	21	DALI
312136.00X.1.730	D 300, H 63	LED ⁽¹⁾	840	1900	21	smart+free
D 400 mm						
312175.00X *	D 400, H 70	LED ⁽¹⁾	830	2350	27	on/off
312175.00X.76 **	D 400, H 70	LED ⁽¹⁾	830	2750	32	DALI
312175.00X.730	D 400, H 70	LED ⁽¹⁾	830	2350	27	smart+free
312175.00X.1 *	D 400, H 70	LED ⁽¹⁾	840	2500	27	on/off
312175.00X.1.76 **	D 400, H 70	LED ⁽¹⁾	840	2900	31	DALI
312175.00X.1.730	D 400, H 70	LED ⁽¹⁾	840	2500	27	smart+free
D 480 mm						
312137.00X	D 480, H 70	LED ⁽¹⁾	830	3000	33	on/off
312137.00X.76 **	D 480, H 70	LED ⁽¹⁾	830	3550	40	DALI
312137.00X.1	D 480, H 70	LED ⁽¹⁾	840	3100	33	on/off
312137.00X.1.76 **	D 480, H 70	LED ⁽¹⁾	840	3700	38	DALI
Diffuser: plastic (polycarbonate)						
D 230 mm						
312135.00X.2 *	D 230, H 63	LED ⁽¹⁾	830	1300	13	on/off
312135.00X.2.76 **	D 230, H 63	LED ⁽¹⁾	830	1300	13	DALI
312135.00X.3 *	D 230, H 63	LED ⁽¹⁾	840	1300	13	on/off
312135.00X.3.76 **	D 230, H 63	LED ⁽¹⁾	840	1300	13	DALI
D 300 mm						
312136.00X.2 *	D 300, H 63	LED ⁽¹⁾	830	1900	21	on/off
312136.00X.2.76 **	D 300, H 63	LED ⁽¹⁾	830	1900	21	DALI
312136.00X.2.730	D 300, H 63	LED ⁽¹⁾	830	1900	21	smart+free
312136.00X.3 *	D 300, H 63	LED ⁽¹⁾	840	2000	21	on/off
312136.00X.3.76 **	D 300, H 63	LED ⁽¹⁾	840	2000	21	DALI
312136.00X.3.730	D 300, H 63	LED ⁽¹⁾	840	2000	21	smart+free
D 400 mm						
312175.00X.2 *	D 400, H 70	LED ⁽¹⁾	830	2650	27	on/off
312175.00X.2.76 **	D 400, H 70	LED ⁽¹⁾	830	3100	32	DALI
312175.00X.2.730	D 400, H 70	LED ⁽¹⁾	830	2650	27	smart+free
312175.00X.3 *	D 400, H 70	LED ⁽¹⁾	840	2800	27	on/off
312175.00X.3.76 **	D 400, H 70	LED ⁽¹⁾	840	3250	31	DALI
312175.00X.3.730	D 400, H 70	LED ⁽¹⁾	840	2800	27	smart+free
D 480 mm						
312137.00X.2	D 480, H 70	LED ⁽¹⁾	830	3300	33	on/off
312137.00X.2.76 **	D 480, H 70	LED ⁽¹⁾	830	3950	40	DALI
312137.00X.3	D 480, H 70	LED ⁽¹⁾	840	3400	33	on/off
312137.00X.3.76 **	D 480, H 70	LED ⁽¹⁾	840	4050	38	DALI

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable (10-100%)

Replacement diffusers

Price Category 13

08-2118.002	D 230, H 55	Plastic (PMMA)
08-2118.022	D 230, H 55	Plastic (polycarbonate)
08-2119.002	D 300, H 55	Plastic (PMMA)
08-2119.022	D 300, H 55	Plastic (polycarbonate)
08-312175.002	D 400, H 62	Plastic (PMMA)
08-312175.022	D 400, H 62	Plastic (polycarbonate)
08-2120.002	D 480, H 62	Plastic (PMMA)
08-2120.022	D 480, H 62	Plastic (polycarbonate)

Ceiling and wall luminaires | Flat Slim with movement sensor

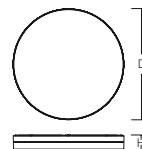
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK02 (PMMA), IK08 (Polycarbonate)

Base: pressure die-cast aluminium, powder-coated. Diffuser: plastic (PMMA), opal, or plastic (polycarbonate), opal and shockproof. Diffuser fastening: bayonet system. LED module can be connected without use of tools.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Applies to versions with .19

Comparison LED vs. conventional lamps

LED 13 W ≈

1 x 26 W TC-D (34 W Psys)


LED 21 W ≈

2 x 18 W TC-D (52 W Psys)

Functional parameters of a master luminaire with a ceiling height of approx. 2.8 m:

- HF detector 24 GHz with integrated corridor function
- Detection range approx. 130° radial
- Easy adjustment of functions via 3 associated push button switches
- Sensitivity/Range 0.5-5 m radial, adjustable from 10-100%
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- Daylight detection with 5 brightness levels and learning mode
- Up to 9 slave luminaires can be operated with one master luminaire (max. up to 150 W / 230 W)
- Suitable for outdoor use to a limited extent only, as it is sensitive to all movements

AC movement sensor luminaires with 24 GHz technology (Master / Slave) are not compatible with other movement sensor luminaires.

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]		dimmable
Ceiling and wall luminaires with integrated movement sensor							
Diffuser: plastic (PMMA)							
D 230 mm							
312135.00X.19	D 230, H 63	LED ⁽¹⁾	830	1150	13	Master	on/off
312135.00X.191	D 230, H 63	LED ⁽¹⁾	830	1150	13	Slave	on/off
312135.00X.1.19	D 230, H 63	LED ⁽¹⁾	840	1100	13	Master	on/off
312135.00X.1.191	D 230, H 63	LED ⁽¹⁾	840	1100	13	Slave	on/off
D 300 mm							
312136.00X.19	D 300, H 63	LED ⁽¹⁾	830	1800	21	Master	on/off
312136.00X.191	D 300, H 63	LED ⁽¹⁾	830	1800	21	Slave	on/off
312136.00X.1.19	D 300, H 63	LED ⁽¹⁾	840	1900	21	Master	on/off
312136.00X.1.191	D 300, H 63	LED ⁽¹⁾	840	1900	21	Slave	on/off
Diffuser: plastic (polycarbonate)							
D 230 mm							
312135.00X.2.19	D 230, H 63	LED ⁽¹⁾	830	1300	13	Master	on/off
312135.00X.2.191	D 230, H 63	LED ⁽¹⁾	830	1300	13	Slave	on/off
312135.00X.3.19	D 230, H 63	LED ⁽¹⁾	840	1300	13	Master	on/off
312135.00X.3.191	D 230, H 63	LED ⁽¹⁾	840	1300	13	Slave	on/off
D 300 mm							
312136.00X.2.19	D 300, H 63	LED ⁽¹⁾	830	1900	21	Master	on/off
312136.00X.2.191	D 300, H 63	LED ⁽¹⁾	830	1900	21	Slave	on/off
312136.00X.3.19	D 300, H 63	LED ⁽¹⁾	840	2000	21	Master	on/off
312136.00X.3.191	D 300, H 63	LED ⁽¹⁾	840	2000	21	Slave	on/off



Replacement LED module for Flat Slim		Price Category 11	
E90-6843.000	1 x LED 13 W 3000 K, Slave		
E90-6843.000.1	1 x LED 13 W 4000 K, Slave		
E90-6843.010	1 x LED 13 W 3000 K, Master		
E90-6843.010.1	1 x LED 13 W 4000 K, Master		
E90-6844.000	1 x LED 21 W 3000 K, Slave		
E90-6844.000.1	1 x LED 21 W 4000 K, Slave		
E90-6844.010	1 x LED 21 W 3000 K, Master		
E90-6844.010.1	1 x LED 21 W 4000 K, Master		

Replacement LED module for Flat Slim		Price Category 11	
E90-6706.000	1 x LED 13 W 3000 K		
E90-6706.010	1 x LED 13 W 4000 K		
E90-6843.020	1 x LED 13 W 3000 K, DALI		
E90-6843.020.1	1 x LED 13 W 4000 K, DALI		
E90-6707.000	1 x LED 21 W 3000 K		
E90-6707.010	1 x LED 21 W 4000 K		
E90-6844.020	1 x LED 21 W 3000 K, DALI		
E90-6844.020.1	1 x LED 21 W 4000 K, DALI		
E90-6823.000	1 x LED 27 W 3000 K		
E90-6823.000.76	1 x LED 32 W 3000 K, DALI		
E90-6823.010	1 x LED 27 W 4000 K		
E90-6823.010.76	1 x LED 31 W 4000 K, DALI		
E90-6708.000	1 x LED 33 W 3000 K		
E90-6708.000.76	1 x LED 40 W 3000 K, DALI		
E90-6708.010	1 x LED 33 W 4000 K		
E90-6708.010.76	1 x LED 38 W 4000 K, DALI		

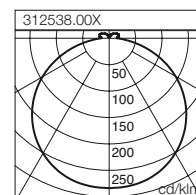


FLAT SLIM+

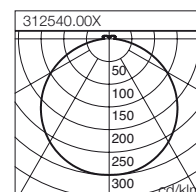
Ceiling and wall luminaires

- **MultiLumen:** 2 steps adjustable luminous flux
- **MultiColour:** You can choose between two different light colours (830 and 840) using a connector
- HF motion detector with DALI and Bluetooth® interfaces for switching, dimming and networking from individual luminaires up to complex light installations
- Big terminal block; ideal for through-wiring
- Diffuser mounting without use of tools, with clip system
- Very easy installation thanks to plug & play connection
- LED module can be replaced without use of tools
- Standard Gore™ Protective Vents diaphragm valve to avoid condensation
- Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download
- Connector for emergency light function (optional)

312538.00X		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
4	5	7
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
5	7	12



312540.00X		
Floor 12 x 2,5 x 3m (0,2m)		
100 lx	150 lx	200 lx
2	3	4
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
3	4	7



Further luminaires of this series, see:
Indoor lighting | Pendant luminaires





Comparison LED vs. conventional lamps

LED 14 W ≈

2 x 18 W TC-D (52 W Psys)

LED 22 W ≈

2 x 26 W TC-D (68 W Psys)

LED 28 W ≈

3 x 26 W TC-D (102 W Psys)

LED 41 W ≈

4 x 26 W TC-D (136 W Psys)

Ceiling and wall luminaires | Flat Slim+

Type of Protection: **IP 65** wall mounting, **IP 40** ceiling mounting

Protection Class: I

Impact Protection: IK07

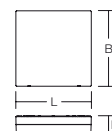
Base: pressure die-cast aluminium, powder-coated. Diffuser: matt or high-polish crystal glass, painted inside, with fixing device. Diffuser with frame made of pressure die-cast aluminium, powder coated, bonded. Diffuser attached with clip system. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to avoid condensed water. LED module can be connected without use of tools. The large connection compartment on the back for convenient connections is also ideal for through wiring.

MultiLumen version: 2 steps adjustable luminous flux.

MultiColour function: Light colour adjustable in 2 steps.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic

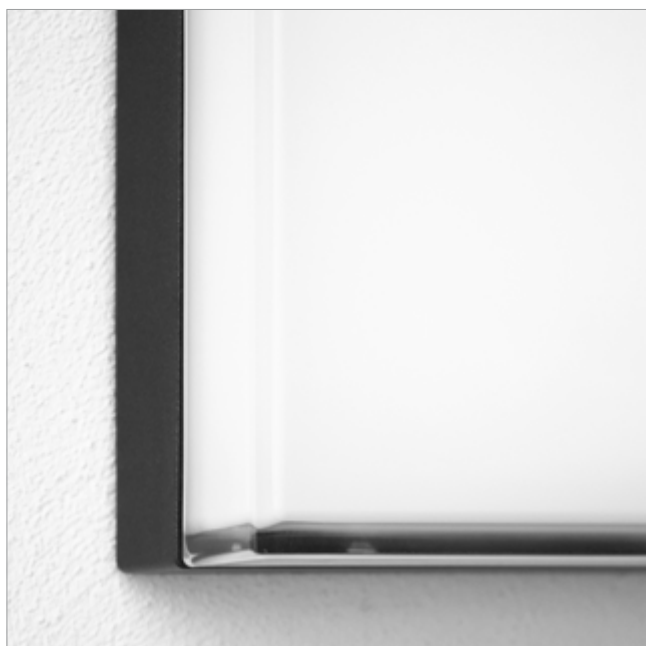
Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able	Price Category 11
Ceiling and wall luminaires							
Diffuser: high-polish crystal glass							
L 300 x B 300 mm							
312538.00X	L 300, B 300, H 67	LED	830, 840	1200...2100	14...22	on/off	
312538.00X.76	L 300, B 300, H 67	LED	830, 840	1200...2100	14...22	DALI	
312538.00X.730	L 300, B 300, H 67	LED	830, 840	1200...2100	14...22	smart+free	
L 430 x B 430 mm							
312540.00X	L 430, B 430, H 67	LED	830, 840	2600...3800	28...41	on/off	
312540.00X.76	L 430, B 430, H 67	LED	830, 840	2600...3800	28...41	DALI	
312540.00X.730	L 430, B 430, H 67	LED	830, 840	2600...3800	28...41	smart+free	
Diffuser: matt crystal glass							
L 300 x B 300 mm							
312537.00X	L 300, B 300, H 67	LED	830, 840	1200...2100	14...22	on/off	
312537.00X.76	L 300, B 300, H 67	LED	830, 840	1200...2100	14...22	DALI	
312537.00X.730	L 300, B 300, H 67	LED	830, 840	1200...2100	14...22	smart+free	
L 430 x B 430 mm							
312539.00X	L 430, B 430, H 67	LED	830, 840	2050...3250	28...41	on/off	
312539.00X.76	L 430, B 430, H 67	LED	830, 840	2050...3250	28...41	DALI	
312539.00X.730	L 430, B 430, H 67	LED	830, 840	2050...3250	28...41	smart+free	

MultiLumen/MultiColour version: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Replacement glasses			Price Category 13
982675.00X	L 300, B 300, H 67	High-polish crystal glass	
982675.01X	L 300, B 300, H 67	Matt crystal glass	
982676.00X	L 430, B 430, H 67	High-polish crystal glass	
982676.01X	L 430, B 430, H 67	Matt crystal glass	



Diffuser: high-polish crystal glass



Diffuser: matt crystal glass

Ceiling and wall luminaires | Flat Slim+ with movement sensor

Type of Protection: **IP 65** wall mounting, **IP 40** ceiling mounting

Protection Class: I

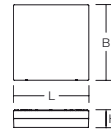
Impact Protection: IK07

Base: pressure die-cast aluminium, powder-coated. Diffuser: matt or high-polish crystal glass, painted inside, with fixing device. Diffuser with frame made of pressure die-cast aluminium, powder coated, bonded. Diffuser attached with clip system. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to avoid condensed water. LED module can be connected without use of tools. The large connection compartment on the back for convenient connections is also ideal for through wiring.

MultiLumen version: 2 steps adjustable luminous flux.

MultiColour function: Light colour adjustable in 2 steps.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Functional parameters of the movement sensor installed on a ceiling at a height of max. 4 m or on a wall at a height of approx. 2.7 m:

- HF detector 5.8 GHz
- Holding time 5 sec. - 60 min.; adjustable in 13 steps
- Detection angle 120°
- Range up to 5 m
- Speed detection: 0.3-3 m/s (1-10 km/h)
- Sensitivity 0-100% in 10 steps
- Daylight sensor 1-350 lx
- Factory setting: sensitivity 70%, hold time 30 seconds, daylight threshold value ∞, dim level 30%, program mode on/off, soft dim off
- Functions adjustable via MICAS Autolight app on tablet or smartphone
- Master-master via Bluetooth® mesh and master-slave wired

Comparison LED vs. conventional lamps	
LED 14 W ≈	2 x 18 W TC-D (52 W Psys)
LED 22 W ≈	2 x 26 W TC-D (68 W Psys)
LED 28 W ≈	3 x 26 W TC-D (102 W Psys)
LED 41 W ≈	4 x 26 W TC-D (136 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]		dim-able
Ceiling and wall luminaires with integrated HF movement sensor							
Diffuser: high-polish crystal glass							
L 300 x B 300 mm							
312538.00X.19	L 300, B 300, H 67	LED	830, 840	1200...2100	14...22	Yes	on/off
L 430 x B 430 mm							
312540.00X.19	L 430, B 430, H 67	LED	830, 840	2600...3800	28...41	Yes	on/off
Diffuser: matt crystal glass							
L 300 x B 300 mm							
312537.00X.19	L 300, B 300, H 67	LED	830, 840	1200...2100	14...22	Yes	on/off
L 430 x B 430 mm							
312539.00X.19	L 430, B 430, H 67	LED	830, 840	2050...3250	28...41	Yes	on/off

MultiLumen/MultiColour version: Specification of the lowest and highest possible lumen output. You will find more detailed information on www.rzb-lighting.com.

Replacement glasses			Price Category 13
982675.00X	L 300, B 300, H 67	High-polish crystal glass	
982675.01X	L 300, B 300, H 67	Matt crystal glass	
982676.00X	L 430, B 430, H 67	High-polish crystal glass	
982676.01X	L 430, B 430, H 67	Matt crystal glass	



MICAS Autolight App - download now!

MultiLumen: Adjustable luminous flux

312537.00X... 312538.00X...			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	1200	1300	14
2	1900	2100	22

MultiLumen: Adjustable luminous flux

312539.00X...			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	2050	2250	28
2	2950	3250	41

MultiLumen: Adjustable luminous flux

312540.00X...			
Step	Luminous flux [lm]	Luminous flux [lm]	System power [W]
	3000 K	4000 K	
1	2600	2800	28
2	3500	3800	41

CADERO | ROUNDED | ALU-DESIGN

Everything at a glance

Theft protection (optional)

Base and housing made of corrosion resistant pressure die-cast aluminium, marine grade powder coating

Elegant appearance without visible hardware featuring bayonet lock

Second cable inlet for loop through
Large cable entry space

Fixing points outside the gasketed space guarantee a steady mounting quality by consequently preventing mistakes

Membrane valve as a standard to prevent condensed water

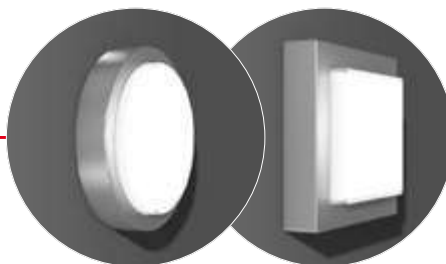


Emergency version for escape route lighting with central battery supply

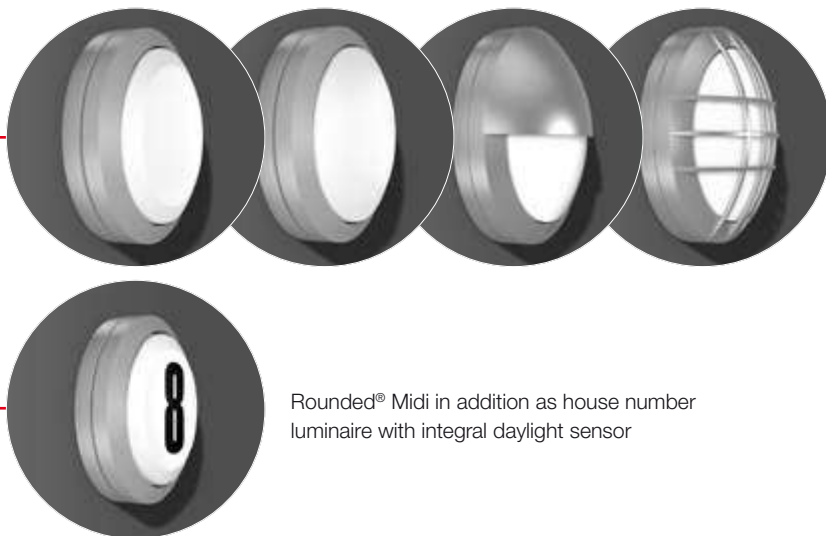
With HF movement sensor and daylight sensor



CADERO



ROUNDED MIDI

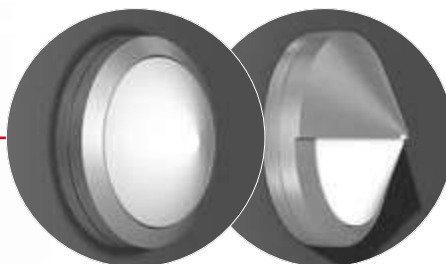


Rounded® Midi in addition as house number luminaire with integral daylight sensor

ROUNDED MAXI



ALU-DESIGN



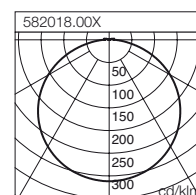
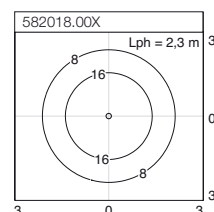
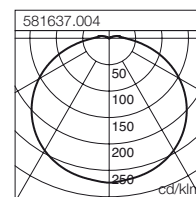
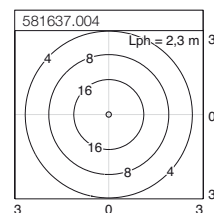


CADERO®

Ceiling and wall luminaires

- The flat design provides universal applicability with circular or square glass cover option
- Smart, cost-effective LED modules for mains voltage with high LED luminous efficiency for energy-saving operation
- Fixing points outside the gasketed area guarantee a safe mounting quality by consequently preventing mistakes
- Seawater resistant coating

- Quick installation:
 - Drill hole deviations can be compensated
 - Generous space for displacing cables allows the wall outlet even in the luminaire centre
 - Electrical connection via piano key terminal
 - Diffuser retained in cover
- Second cable inlet for loop through
- The high type of protection IP 65 enables maintenance-free, plain LED operation
- Emergency versions for escape route lighting and central battery system available



Further luminaires of this series, see:
Emergency lighting | Escape route illumination

Ceiling and wall luminaires | Cadero Disca

Type of Protection: **IP 65**

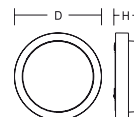
Protection Class: I

Impact Protection: IK07

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Clear crystal glass, painted inside, with fixing device. Screwless cover fixing via bayonet lock with safety catch. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to avoid condensed water.

With mains voltage LED module. Mains connection 2 x 3 x 1.5 mm².

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able	
Ceiling and wall luminaires							Price Category 12
582018.00X */**	D 276, H 66	LED ⁽¹⁾	830	710	13	on/off	✓
582018.00X.1 */**	D 276, H 66	LED ⁽¹⁾	840	740	13	on/off	✓

Ceiling and wall luminaires with integrated movement sensor							Price Category 12
582018.00X.19	D 276, H 66	LED ⁽¹⁾	830	710	13	on/off	
582018.00X.1.19	D 276, H 66	LED ⁽¹⁾	840	740	13	on/off	

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable versions available

Replacement glasses							Price Category 13
981211.002	D 245, H 32						

Comparison LED vs. conventional lamps

LED 13 W ≈
1 x 18 W TC-D (26 W Psys)

Ceiling and wall luminaires | Cadero Quadra

Type of Protection: **IP 65**

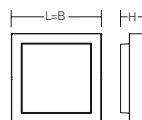
Protection Class: I

Impact Protection: IK05

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Clear crystal glass, painted inside, with fixing device. Simple mounting spring system for installation without tools. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to avoid condensed water.

With mains voltage LED module. Mains connection 2 x 3 x 1.5 mm².

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able	
Ceiling and wall luminaires							Price Category 12
581637.0031 */**	L 257, B 257, H 81	LED ⁽¹⁾	830	630	13	on/off	✓
581637.004 .Q */**	L 257, B 257, H 81	LED ⁽¹⁾	830	630	13	on/off	✓
581637.0031.1 */**	L 257, B 257, H 81	LED ⁽¹⁾	840	660	13	on/off	✓
581637.004.1 .Q */**	L 257, B 257, H 81	LED ⁽¹⁾	840	660	13	on/off	✓

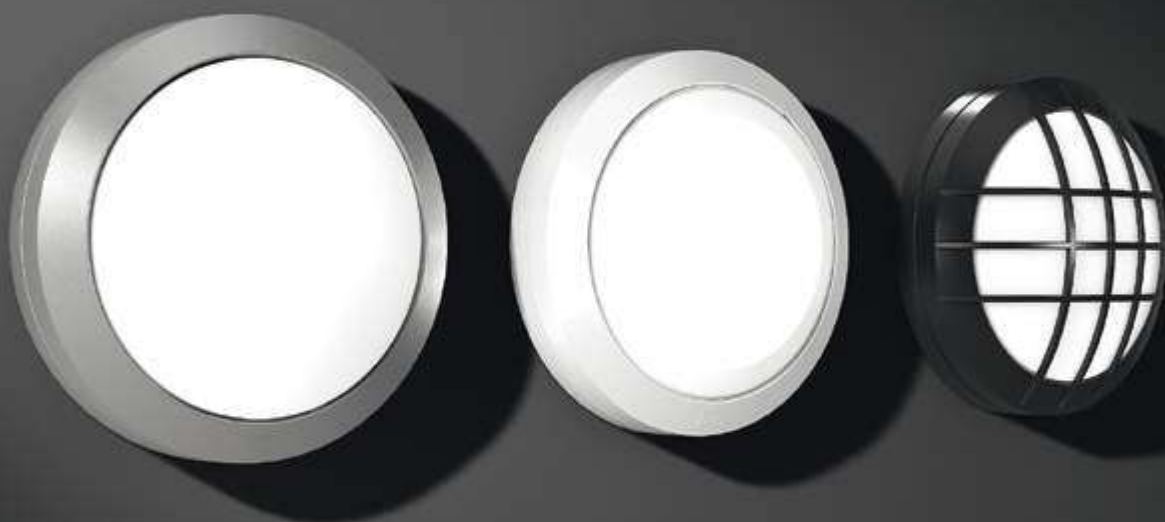
Ceiling and wall luminaires with integrated movement sensor							Price Category 12
581637.0031.19	L 257, B 257, H 81	LED ⁽¹⁾	830	630	13	on/off	
581637.004.19 .Q	L 257, B 257, H 81	LED ⁽¹⁾	830	630	13	on/off	
581637.0031.1.19	L 257, B 257, H 81	LED ⁽¹⁾	840	660	13	on/off	
581637.004.1.19 .Q	L 257, B 257, H 81	LED ⁽¹⁾	840	660	13	on/off	

* Suitable for phase cut dimming (10-100%) | ** DALI dimmable versions available

Replacement glasses							Price Category 13
981210.002	L 232, B 232, H 35						

Comparison LED vs. conventional lamps

LED 13 W ≈
1 x 18 W TC-D (26 W Psys)

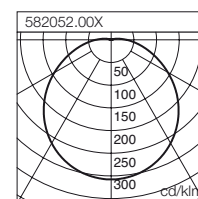
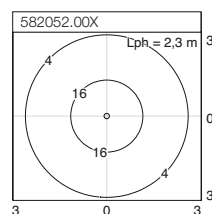
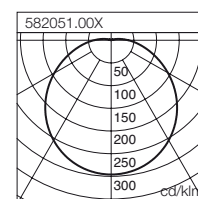
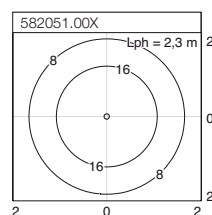


ROUNDED® MIDI

Ceiling and wall luminaires

- Elegant appearance without visible screws featuring bayonet lock and safety catch for theft protection
- LED: Smart and cost-saving LED modules for mains voltage on high efficiency level applied for energy saving operation
- Seawater resistant coating
- Replaceable LED module
- Second cable inlet for loop through
- Sturdy housing made of corrosion resistant pressure die-cast aluminium, powder coated
- Integral membrane valve for pressure compensation and prevention of condensation

- Fixing points outside the gasketed area guarantee a safe mounting quality by consequently preventing mistakes
- Quick installation:
 - Drill hole deviations can be compensated
 - Generous space for displacing cables allows the wall outlet even in the luminaire centre
 - Electrical connection via piano key terminal
 - Diffuser retained in cover
- Emergency versions for escape route lighting and central battery system available



Further luminaires of this series, see:
 Outdoor lighting | Wall luminaires
 Outdoor lighting | House number luminaires
 Emergency lighting | Escape route illumination

Ceiling and wall luminaires | Rounded Midi

Type of Protection: **IP 66**

Protection Class: I

Impact Protection: IK08 (Glass), IK10 (polycarbonate)

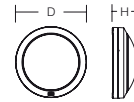
Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Diffuser: crystal glass (satin finish) or opal plastic (polycarbonate); with diffuser fixing. Screwless cover fixing via bayonet lock with safety catch. Includes 1 anti-theft device.

Base fixing slots outside of gasketed area, drill hole deviations can be compensated.

With membrane valve as a standard to avoid condensed water. With mains voltage LED module.

Mains connection 2 x 3 x 1.5 mm².

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able	
Ceiling and wall luminaires							Price Category 12

Glass

582002.00X.1 *	D 268, H 91	LED ⁽¹⁾	830	490	10	on/off	
582002.00X *	D 268, H 91	LED ⁽¹⁾	840	490	10	on/off	✓
582051.00X *	D 268, H 91	LED ⁽¹⁾	830	730	13	on/off	
582051.00X.1 *	D 268, H 91	LED ⁽¹⁾	840	790	13	on/off	
582000.00X	D 268, H 91	1 x QA60 (clear) max. 57 W					

Plastic (polycarbonate)

582003.00X.1 *	D 268, H 91	LED ⁽¹⁾	830	340	10	on/off	
582003.00X *	D 268, H 91	LED ⁽¹⁾	840	360	10	on/off	✓
582052.00X *	D 268, H 91	LED ⁽¹⁾	830	600	13	on/off	
582052.00X.1 *	D 268, H 91	LED ⁽¹⁾	840	650	13	on/off	
582001.00X	D 268, H 91	1 x QA60 (clear) max. 57 W					

Ceiling and wall luminaires with integrated HF movement sensor and light sensor

Price Category 12

Glass

582002.00X.1.19 **	D 268, H 91	LED ⁽¹⁾	830	490	10	on/off	
582002.00X.19 **	D 268, H 91	LED ⁽¹⁾	840	490	10	on/off	

Plastic (polycarbonate)

582003.00X.1.19 **	D 268, H 91	LED ⁽¹⁾	830	340	10	on/off	
582003.00X.19 **	D 268, H 91	LED ⁽¹⁾	840	360	10	on/off	
582052.00X.19 **	D 268, H 91	LED ⁽¹⁾	830	600	13	on/off	
582052.00X.1.19 **	D 268, H 91	LED ⁽¹⁾	840	650	13	on/off	

Ceiling and wall luminaires with integrated daylight sensor

Price Category 12

Glass

582002.00X.1.25	D 268, H 91	LED ⁽¹⁾	830	490	10	on/off	
582002.00X.25	D 268, H 91	LED ⁽¹⁾	840	490	10	on/off	

* Suitable for phase cut dimming (10-100%) | ** The light sensor cannot be operated separately as a daylight sensor

Theft protection

Price Category 12

982410.003	L 13, B 11, H 16						
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Replacement gasket

Price Category 12

982511.002	D 232, H 13						
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Replacement glasses

Price Category 13

982512.002	D 232, H 61						
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Replacement diffusers

Price Category 13

982516.002	D 226, H 60						
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Comparison

LED vs. conventional lamps

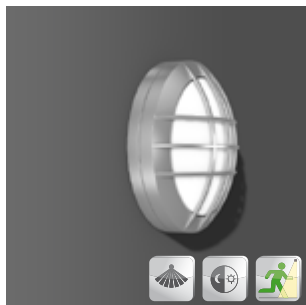
LED 10 W ≈

1 x 75 W A60 (75 W Psys)

1 x 60 W A60 (60 W Psys)

LED 13 W ≈

1 x 100 W A60 (100 W Psys)



Comparison LED vs. conventional lamps

LED 10 W ≈

1 x 75 W A60 (75 W Psys)
1 x 60 W A60 (60 W Psys)

LED 13 W ≈

1 x 100 W A60 (100 W Psys)
1 x 75 W A60 (75 W Psys)

Ceiling and wall luminaires | Rounded Midi

Type of Protection: **IP 66**

Protection Class: I

Impact Protection: IK08 (Glass), IK10 (polycarbonate)

Base, housing and protective guard made of corrosion resistant pressure die-cast aluminium (sea-water resistant powder-coated). Diffuser: crystal glass (satin finish) or opal plastic (polycarbonate); with diffuser fixing. Screwless cover fixing via bayonet lock with safety catch. Includes 1 anti-theft device. Base fixing slots outside of gasketed area, drill hole deviations can be compensated.

With membrane valve as a standard to avoid condensed water. With mains voltage LED module.

Mains connection 2 x 3 x 1.5 mm².

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able	
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Ceiling and wall luminaires

Price Category 12

Glass

582008.00X.1 *	D 268, H 100	LED ⁽¹⁾	830	420	10	on/off	
582008.00X *	D 268, H 100	LED ⁽¹⁾	840	440	10	on/off	✓
582055.00X *	D 268, H 100	LED ⁽¹⁾	830	580	13	on/off	
582055.00X.1 *	D 268, H 100	LED ⁽¹⁾	840	620	13	on/off	
582006.00X	D 268, H 100	1 x QA60 (clear) max. 57 W					

Plastic (polycarbonate)

582009.00X.1 *	D 268, H 100	LED ⁽¹⁾	830	270	10	on/off	
582009.00X *	D 268, H 100	LED ⁽¹⁾	840	280	10	on/off	✓
582056.00X *	D 268, H 100	LED ⁽¹⁾	830	470	13	on/off	
582056.00X.1 *	D 268, H 100	LED ⁽¹⁾	840	500	13	on/off	
582007.00X	D 268, H 100	1 x QA60 (clear) max. 57 W					

Ceiling and wall luminaires with integrated HF movement sensor and light sensor

Price Category 12

Glass

582008.00X.1.19 **	D 268, H 100	LED ⁽¹⁾	830	420	10	on/off	
582008.00X.19 **	D 268, H 100	LED ⁽¹⁾	840	440	10	on/off	

Plastic (polycarbonate)

582009.00X.1.19 **	D 268, H 100	LED ⁽¹⁾	830	270	10	on/off	
582009.00X.19 **	D 268, H 100	LED ⁽¹⁾	840	280	10	on/off	
582056.00X.19 **	D 268, H 100	LED ⁽¹⁾	830	470	13	on/off	
582056.00X.1.19 **	D 268, H 100	LED ⁽¹⁾	840	500	13	on/off	

Ceiling and wall luminaires with integrated daylight sensor

Price Category 12

Glass

582008.00X.1.25	D 268, H 100	LED ⁽¹⁾	830	420	10	on/off	
582008.00X.25	D 268, H 100	LED ⁽¹⁾	840	440	10	on/off	

* Suitable for phase cut dimming (10-100%) | ** The light sensor cannot be operated separately as a daylight sensor

Theft protection

Price Category 12

982410.003	L 13, B 11, H 16
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Replacement gasket

Price Category 12

982511.002	D 232, H 13
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Replacement glasses

Price Category 13

982512.002	D 232, H 61
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Replacement diffusers

Price Category 13

982516.002	D 226, H 60
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Ceiling and wall luminaires | Rounded Midi

Type of Protection: **IP 66**

Protection Class: I

Impact Protection: IK08 (Glass), IK10 (polycarbonate)

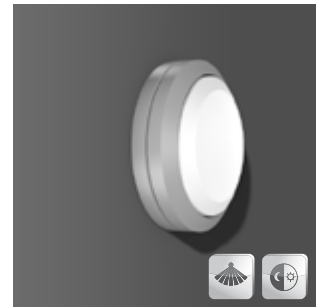
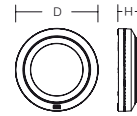
Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Diffuser: crystal glass (satin finish) or opal plastic (polycarbonate); with diffuser fixing. Screwless cover fixing via bayonet lock with safety catch. Includes 1 anti-theft device.

Base fixing slots outside of gasketed area, drill hole deviations can be compensated.

With membrane valve as a standard to avoid condensed water. With mains voltage LED module.

Mains connection 2 x 3 x 1.5 mm².

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimming
Ceiling and wall luminaires						
Flat glass						
582004.00X.1 *	D 268, H 70	LED ⁽¹⁾	830	460	10	on/off
582004.00X *	D 268, H 70	LED ⁽¹⁾	840	490	10	on/off
582053.00X *	D 268, H 70	LED ⁽¹⁾	830	640	13	on/off
582053.00X.1 *	D 268, H 70	LED ⁽¹⁾	840	690	13	on/off
Flat plastic (polycarbonate) diffuser						
582005.002.1 *	D 268, H 70	LED ⁽¹⁾	830	370	10	on/off
582005.0031.1 *	D 268, H 70	LED ⁽¹⁾	830	370	10	on/off
582005.004.1 .Q*	D 268, H 70	LED ⁽¹⁾	830	370	10	on/off
582005.002 *	D 268, H 70	LED ⁽¹⁾	840	390	10	on/off
582005.0031 *	D 268, H 70	LED ⁽¹⁾	840	390	10	on/off
582005.004 .Q*	D 268, H 70	LED ⁽¹⁾	840	390	10	on/off
582054.00X *	D 268, H 70	LED ⁽¹⁾	830	650	13	on/off
582054.00X.1 *	D 268, H 70	LED ⁽¹⁾	840	700	13	on/off

Ceiling and wall luminaires with integrated HF movement sensor and light sensor						
Flat glass						
582004.00X.1.19 **	D 268, H 70	LED ⁽¹⁾	830	460	10	on/off
582004.00X.19 **	D 268, H 70	LED ⁽¹⁾	840	490	10	on/off
Flat plastic (polycarbonate) diffuser						
582005.00X.1.19 **	D 268, H 70	LED ⁽¹⁾	830	370	10	on/off
582005.002.19 **	D 268, H 70	LED ⁽¹⁾	840	390	10	on/off
582005.0031.19 **	D 268, H 70	LED ⁽¹⁾	840	390	10	on/off
582005.004.19 .Q**	D 268, H 70	LED ⁽¹⁾	840	390	10	on/off
582054.00X.19 **	D 268, H 70	LED ⁽¹⁾	830	650	13	on/off
582054.00X.1.19 **	D 268, H 70	LED ⁽¹⁾	840	700	13	on/off

Ceiling and wall luminaires with integrated daylight sensor						
Flat glass						
582004.00X.3.25	D 268, H 70	LED ⁽¹⁾	830	460	10	on/off
582004.00X.2.25	D 268, H 70	LED ⁽¹⁾	840	490	10	on/off

* Suitable for phase cut dimming (10-100%) | ** The light sensor cannot be operated separately as a daylight sensor

Theft protection						
982410.003	L 13, B 11, H 16					

Replacement gasket						
982511.002	D 232, H 13					

Replacement glasses						
982513.002	D 232, H 40					

Replacement diffusers						
982515.002	D 226, H 39					

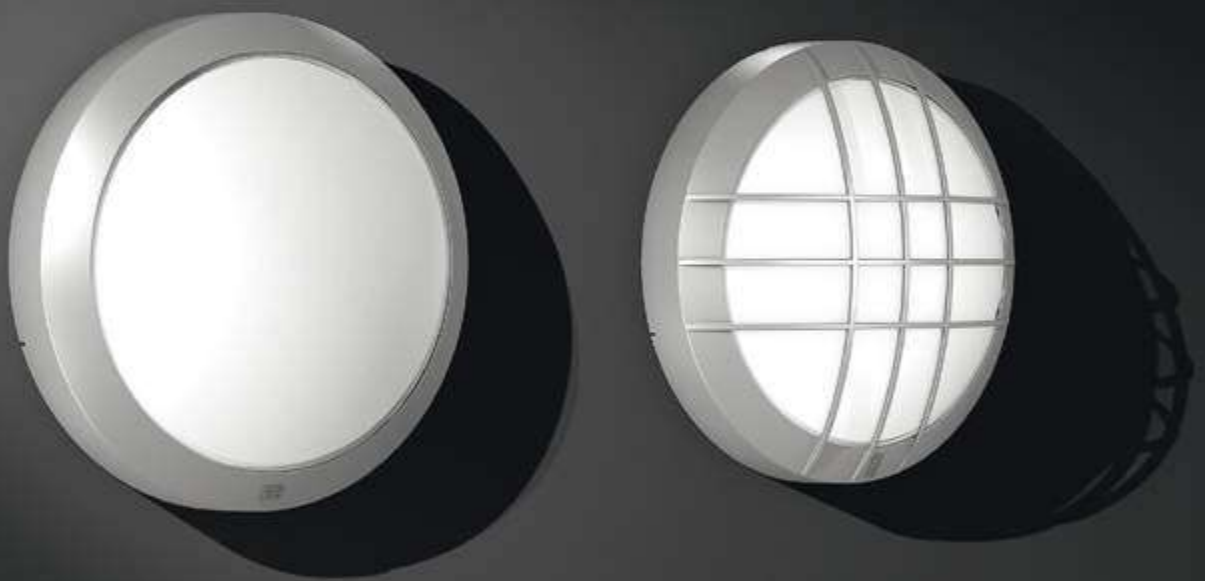
Comparison LED vs. conventional lamps

LED 10 W ≈

1 x 75 W A60 (75 W Psys)
1 x 60 W A60 (60 W Psys)

LED 13 W ≈

1 x 100 W A60 (100 W Psys)

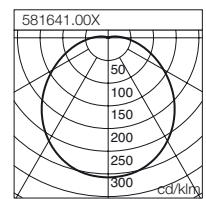
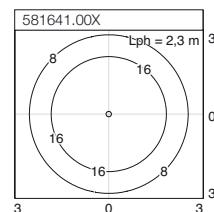
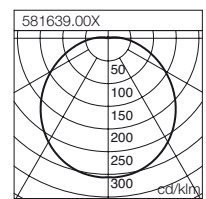
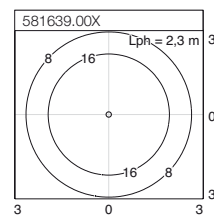


ROUNDED® MAXI

Ceiling and wall luminaires

- Elegant appearance without visible screws featuring bayonet lock and safety catch for theft protection
- LED: Smart and cost-saving LED modules for mains voltage on high efficiency level applied for energy saving operation
- Seawater resistant coating
- Replaceable LED module
- Second cable inlet for loop through
- Sturdy housing made of corrosion resistant pressure die-cast aluminium, powder coated

- Fixing points outside the gasketed area guarantee a safe mounting quality by consequently preventing mistakes
- Quick installation:
 - Drill hole deviations can be compensated
 - Generous space for displacing cables allows the wall outlet even in the luminaire centre
 - Electrical connection via piano key terminal
 - Diffuser retained in cover
- Emergency versions for escape route lighting and central battery system available



Further luminaires of this series, see:
Emergency lighting | Escape route illumination

Ceiling and wall luminaires | Rounded Maxi

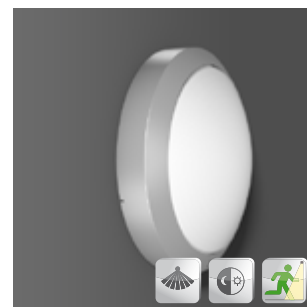
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Diffuser: crystal glass (satin finish) with diffuser fixing. Screwless cover fixing via bayonet lock with safety catch. Includes 1 anti-theft device. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to avoid condensed water. With mains voltage LED module. Mains connection 2 x 3 x 1.5 mm².

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able	
Ceiling and wall luminaires							Price Category 12
581639.00X *	D 400, H 120	LED ⁽¹⁾	830	1250	22	on/off	✓
581639.002.1 *	D 400, H 120	LED ⁽¹⁾	840	1250	22	on/off	✓
581639.0031.1 *	D 400, H 120	LED ⁽¹⁾	840	1250	22	on/off	✓
581639.004.1 .Q*	D 400, H 120	LED ⁽¹⁾	840	1250	22	on/off	✓
581638.00X	D 400, H 120	2 x QA60 (clear) max. 57 W					

Ceiling and wall luminaires with integrated HF movement sensor and light sensor							Price Category 12
581639.00X.19 **	D 400, H 120	LED ⁽¹⁾	830	1250	22	on/off	
581639.00X.1.19 **	D 400, H 120	LED ⁽¹⁾	840	1250	22	on/off	

* Suitable for phase cut dimming (10-100%) | ** The light sensor cannot be operated separately as a daylight sensor

Theft protection							Price Category 12
982410.003	L 13, B 11, H 16						

Replacement gasket							Price Category 11
982585.002	D 360, H 11						

Replacement glasses							Price Category 13
981212.002	D 356, H 66						

Ceiling and wall luminaires | Rounded Maxi

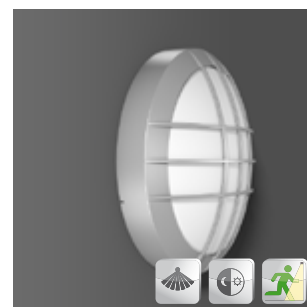
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Diffuser: crystal glass (satin finish) with diffuser fixing. Screwless cover fixing via bayonet lock with safety catch. Includes 1 anti-theft device. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to avoid condensed water. With mains voltage LED module. Mains connection 2 x 3 x 1.5 mm².

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able	
Ceiling and wall luminaires							Price Category 12
581641.00X *	D 400, H 127	LED ⁽¹⁾	830	1150	22	on/off	✓
581641.00X.1 *	D 400, H 127	LED ⁽¹⁾	840	1150	22	on/off	✓
581640.00X	D 400, H 127	2 x QA60 (clear) max. 57 W					

Ceiling and wall luminaires with integrated HF movement sensor and light sensor							Price Category 12
581641.00X.19 **	D 400, H 127	LED ⁽¹⁾	830	1150	22	on/off	
581641.00X.1.19 **	D 400, H 127	LED ⁽¹⁾	840	1150	22	on/off	

* Suitable for phase cut dimming (10-100%) | ** The light sensor cannot be operated separately as a daylight sensor

Theft protection							Price Category 12
982410.003	L 13, B 11, H 16						

Replacement gasket							Price Category 11
982585.002	D 360, H 11						

Replacement glasses							Price Category 13
981212.002	D 356, H 66						

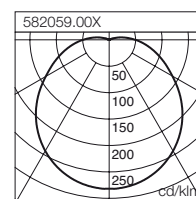
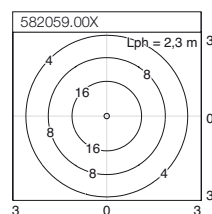
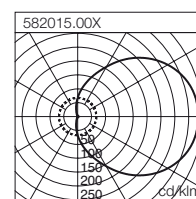
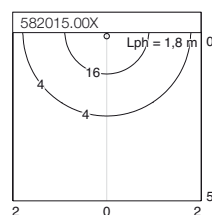


ALU-DESIGN

Ceiling and wall luminaires

- Elegant appearance without visible screws featuring bayonet lock and safety catch for theft protection
- LED: Smart and cost-saving LED modules for mains voltage on high efficiency level applied for energy saving operation
- Sturdy housing made of corrosion resistant pressure die-cast aluminium, powder coated
- Seawater resistant coating
- Second cable inlet for loop through
- Fixing points outside the gasketed area guarantee a safe mounting quality by consequently preventing mistakes

- Quick installation:
 - Drill hole deviations can be compensated
 - Generous space for displacing cables allows the wall outlet even in the luminaire centre
 - Electrical connection via piano key terminal
 - Diffuser retained in cover
- Emergency versions for escape route lighting and central battery system available



Further luminaires of this series, see:
Outdoor lighting | Wall luminaires

Ceiling and wall luminaires | Alu-Design

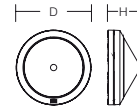
Type of Protection: **IP 66**

Protection Class: I

Impact Protection: IK08

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Diffuser: crystal glass (satin finish) with diffuser fixing. Screwless cover fixing via bayonet lock with safety catch. Includes 1 anti-theft device. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to avoid condensed water. With mains voltage LED module. Mains connection 2 x 3 x 1.5 mm².

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	
Ceiling and wall luminaires							Price Category 12
582015.00X *	D 268, H 115	LED ⁽¹⁾	830	490	10	on/off	✓
582015.00X.1 *	D 268, H 115	LED ⁽¹⁾	840	490	10	on/off	✓
582059.00X *	D 268, H 115	LED ⁽¹⁾	830	630	13	on/off	
582059.00X.1 *	D 268, H 115	LED ⁽¹⁾	840	680	13	on/off	

Ceiling and wall luminaires with integrated HF movement sensor and light sensor							Price Category 12
582015.00X.19 **	D 268, H 115	LED ⁽¹⁾	830	490	10	on/off	
582015.00X.1.19 **	D 268, H 115	LED ⁽¹⁾	840	490	10	on/off	
582059.00X.19 **	D 268, H 115	LED ⁽¹⁾	830	630	13	on/off	
582059.00X.1.19 **	D 268, H 115	LED ⁽¹⁾	840	680	13	on/off	

Ceiling and wall luminaires with daylight sensor							Price Category 12
582015.00X.25	D 268, H 115	LED ⁽¹⁾	830	490	10	on/off	
582015.00X.1.25	D 268, H 115	LED ⁽¹⁾	840	480	10	on/off	

* Suitable for phase cut dimming (10-100%) | ** The light sensor cannot be operated separately as a daylight sensor

Theft protection							Price Category 12
982410.003	L 13, B 11, H 16						

Replacement gasket							Price Category 12
982511.002	D 232, H 13						

Replacement glasses							Price Category 13
982514.002	D 232, H 84						

Comparison LED vs. conventional lamps

LED 10 W ≈

1 x 13 W TC-D (19 W Psys)

LED 13 W ≈

1 x 18 W TC-D (26 W Psys)



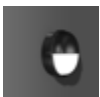
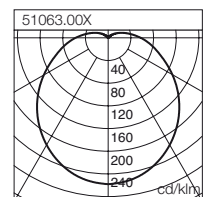
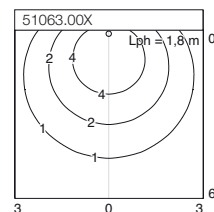
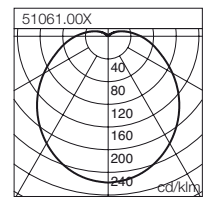
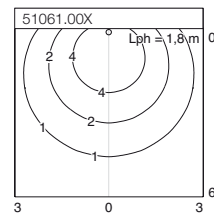
IP65

IK08

ALU-SUPERIOR

Ceiling and wall luminaires

- Impact resistant plastic diffuser is suitable for robust environmental requirements
- LED: Smart and cost-saving LED modules for mains voltage on high efficiency level applied for energy saving operation
- High ingress protection rating supports continuous trouble-free operation
- Replaceable LED module
- A stainless steel bracket outside the sealed lamp compartment is used to certainly prevent installation failures. Additionally, drill hole tolerances can be compensated.
- A second cable gland provides simple loop through without additional connection box



Further luminaires of this series, see:
Outdoor lighting | Wall luminaires

Ceiling and wall luminaires | Alu-Superior

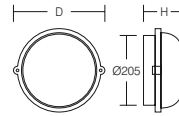
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK08

Base and cover ring: die-cast aluminium, powder-coated. Stainless steel mounting bracket with compensation for drill hole deviations. Diffuser: plastic (polycarbonate), opal. With membrane valve to avoid condensation. With mains voltage LED module. Mains connection 2 x 3 x 1.5 mm².

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Ceiling and wall luminaires						
						Price Category 12
51061.00X	D 245, H 120	LED ⁽¹⁾	840	410	6	on/off
51050.00X	D 245, H 120	1 x QA60 (clear) max. 57 W				

Replacement diffusers						Price Category 13
08-1837.002	D 214, H 68	Plastic (polycarbonate)				

Comparison LED vs. conventional lamps

LED 6 W ≈
1 x 60 W A60 (60 W Psys)

Ceiling and wall luminaires | Alu-Superior

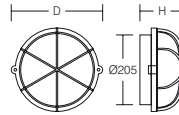
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK08

Base and protective guard: die-cast aluminium, powder-coated. Stainless steel mounting bracket with compensation for drill hole deviations. Diffuser: plastic (polycarbonate), opal. With membrane valve to avoid condensation. With mains voltage LED module. Mains connection 2 x 3 x 1.5 mm².

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Ceiling and wall luminaires with grille						
						Price Category 12
51063.00X	D 245, H 125	LED ⁽¹⁾	840	410	6	on/off
51052.00X	D 245, H 125	1 x QA60 (clear) max. 57 W				

Replacement diffusers						Price Category 13
08-1837.002	D 214, H 68	Plastic (polycarbonate)				

Comparison LED vs. conventional lamps

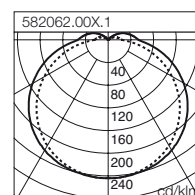
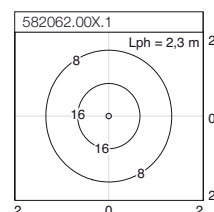
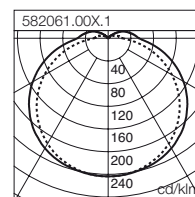
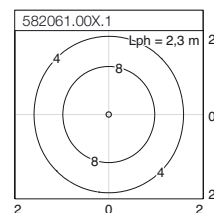
LED 6 W ≈
1 x 60 W A60 (60 W Psys)



ALU-LUX OVAL

Ceiling and wall luminaires

- LED: Smart and cost-saving LED modules for mains voltage on high efficiency level applied for energy saving operation
- Replaceable LED module
- High ingress protection rating supports continuous trouble-free operation
- A stainless steel bracket outside the sealed lamp compartment is used to certainly prevent installation failures. Additionally, drill hole tolerances can be compensated.
- Sturdy housing made of corrosion resistant pressure die-cast aluminium, powder coated
- Seawater resistant coating
- Integral membrane valve for pressure compensation and prevention of condensation
- Second cable inlet for loop through



Further luminaires of this series, see:
Outdoor lighting | Wall luminaires

Ceiling and wall luminaires | Alu-Lux oval

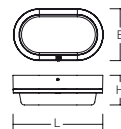
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated.
Crystal glass: matt inside. Fixing on the wall outside the gasketed volume, drill hole deviations can be compensated. With mains voltage LED module. Mains connection 1 x 3 x 2.5 mm².
With membrane valve to avoid condensation.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						
						Price Category 12
582061.00X *	L 258, B 148, H 86	LED ⁽¹⁾	830	490	8	on/off
582061.00X.1 *	L 258, B 148, H 86	LED ⁽¹⁾	840	540	8	on/off
582062.00X *	L 258, B 148, H 86	LED ⁽¹⁾	830	680	12	on/off
582062.00X.1 *	L 258, B 148, H 86	LED ⁽¹⁾	840	740	12	on/off

Ceiling and wall luminaires with daylight sensor						
						Price Category 12
582061.00X.25	L 258, B 148, H 86	LED ⁽¹⁾	830	490	8	on/off
582061.00X.1.25	L 258, B 148, H 86	LED ⁽¹⁾	840	540	8	on/off
582062.00X.25	L 258, B 148, H 86	LED ⁽¹⁾	830	680	12	on/off
582062.00X.1.25	L 258, B 148, H 86	LED ⁽¹⁾	840	740	12	on/off

* Suitable for phase cut dimming (10-100%)

Replacement gasket						
						Price Category 11
982586.009	L 236, B 126, H 4					

Replacement glasses						
						Price Category 11
982587.002	L 234, B 124, H 44					

Ceiling and wall luminaires | Alu-Lux oval

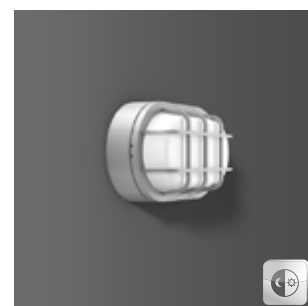
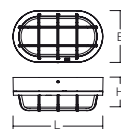
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated.
Crystal glass: matt inside. Fixing on the wall outside the gasketed volume, drill hole deviations can be compensated. With mains voltage LED module. Mains connection 1 x 3 x 2.5 mm².
With membrane valve to avoid condensation.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires with protective guard						
						Price Category 12
582063.00X *	L 258, B 148, H 95	LED ⁽¹⁾	830	480	8	on/off
582063.00X.1 *	L 258, B 148, H 95	LED ⁽¹⁾	840	530	8	on/off
582064.00X *	L 258, B 148, H 95	LED ⁽¹⁾	830	670	12	on/off
582064.00X.1 *	L 258, B 148, H 95	LED ⁽¹⁾	840	730	12	on/off

Ceiling and wall luminaires with protective guard and integrated daylight sensor						
						Price Category 12
582063.00X.25	L 258, B 148, H 95	LED ⁽¹⁾	830	480	8	on/off
582063.00X.1.25	L 258, B 148, H 95	LED ⁽¹⁾	840	530	8	on/off
582064.00X.25	L 258, B 148, H 95	LED ⁽¹⁾	830	670	12	on/off
582064.00X.1.25	L 258, B 148, H 95	LED ⁽¹⁾	840	730	12	on/off

* Suitable for phase cut dimming (10-100%)

Replacement gasket						
						Price Category 11
982586.009	L 236, B 126, H 4					

Replacement glasses						
						Price Category 11
982587.002	L 234, B 124, H 44					

Comparison LED vs. conventional lamps

LED 8 W ≈

1 x 75 W A60 (75 W Psys)
1 x 13 W TC-D (19 W Psys)

LED 12 W ≈

1 x 100 W A60 (100 W Psys)
1 x 18 W TC-D (26 W Psys)

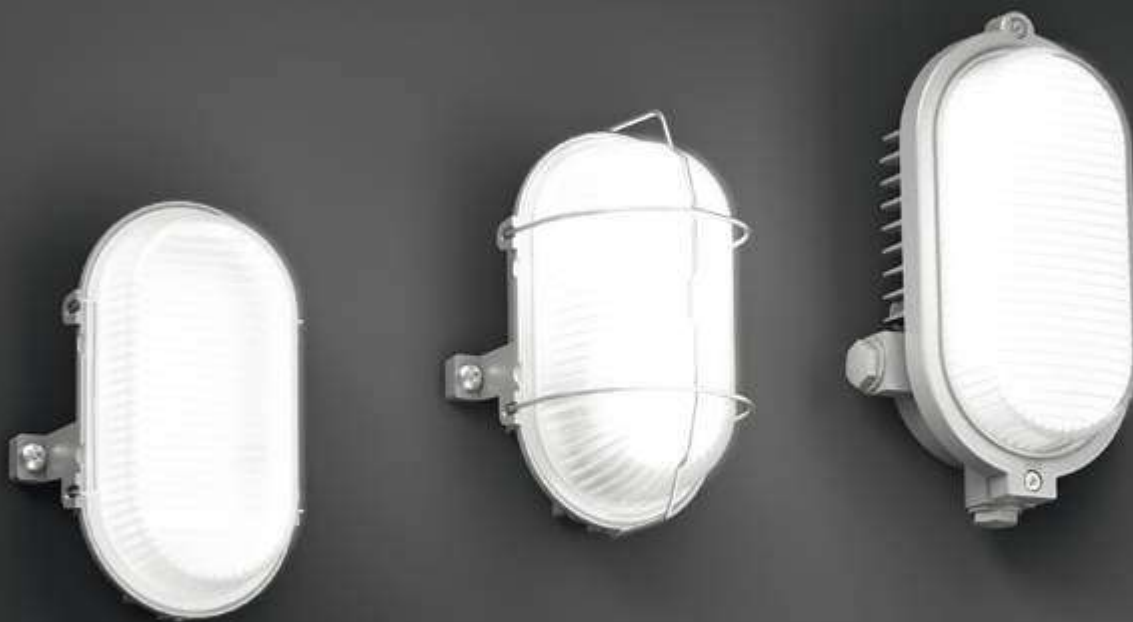
Comparison LED vs. conventional lamps

LED 8 W ≈

1 x 75 W A60 (75 W Psys)
1 x 13 W TC-D (19 W Psys)

LED 12 W ≈

1 x 100 W A60 (100 W Psys)
1 x 18 W TC-D (26 W Psys)



OVAL BULKHEAD LUMINAIRES

Die-cast aluminium oval bulkhead luminaires

- A reinterpretation of the oval bulkhead luminaire – a classic with a new design
- Diffuser made of textured tempered crystal glass
- Full-surface homogeneous illumination
- Replaceable LED unit
- LED rated life 35,000 h (L70/B50)
- Suitable for use in harsh environments

Die-cast aluminium oval bulkhead luminaires | Areno

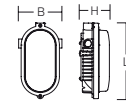
Type of Protection: **IP 66**

Protection Class: I

Impact Protection: IK03

High-quality housing made of pressure die-cast aluminium, powder coated. Diffuser: textured tempered crystal glass, coated white on one side. Full-surface homogeneous illumination. Bezel ring: powder coated die-cast aluminium, screwed on the luminaire. Drill holes at the inside, with silicone. With three cable inlets: M20x1.5. Replaceable LED unit.

Available colour: 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 11
501047.004	L 227, B 141, H 87	LED	840	500	8,5	on/off	



Die-cast aluminium oval bulkhead luminaires | Alu-Standard LED

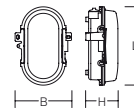
Type of Protection: **IP 66**

Protection Class: I

Impact Protection: IK04

Robust housing: pressure die-cast aluminium, powder coated. Diffuser: textured tempered crystal glass, opal. Diffuser attached with lateral spring clips. Full-surface homogeneous illumination. Speedy installation thanks to external fastening clips. Three cable inlets. Replaceable LED unit.

Available colour: 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 11
501045.004	L 171, B 123, H 70	LED	840	740	8,5	on/off	

Die-cast aluminium oval bulkhead luminaires | Alu-Standard E27

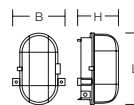
Type of Protection: **IP 44**

Protection Class: I

Impact Protection: IK04

Robust housing: pressure die-cast aluminium, powder coated. Diffuser: textured tempered crystal glass, transparent. Protective guard: steel wire, galvanised. Mounting of the diffuser by means of snap fasteners. Speedy installation thanks to external fastening clips. Three cable inlets.

Available colour: 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Price Category 11
501046.004	L 176, B 122, H 110	1 x E27 ^o max. 60 W	



The application image shows:
Mega Cone
Wallscaping - Zono



653

Bocaro
650-653



657

Lupalo
654-657



661



661

Lupalo Laterne
Lupalo Tower
658-661



665



665

Mega Tower
662-664, 665



666



666

Mega Lamelle
662-664, 666



667

Mega Cone
662-664, 667



668



668

Mega Laterne
662-664, 668



669



669

Mega Gürtellinse
662-664, 669



670



671

Mega Tube
662-664, 670-671



672

Mega Glaspoller
662-664, 672



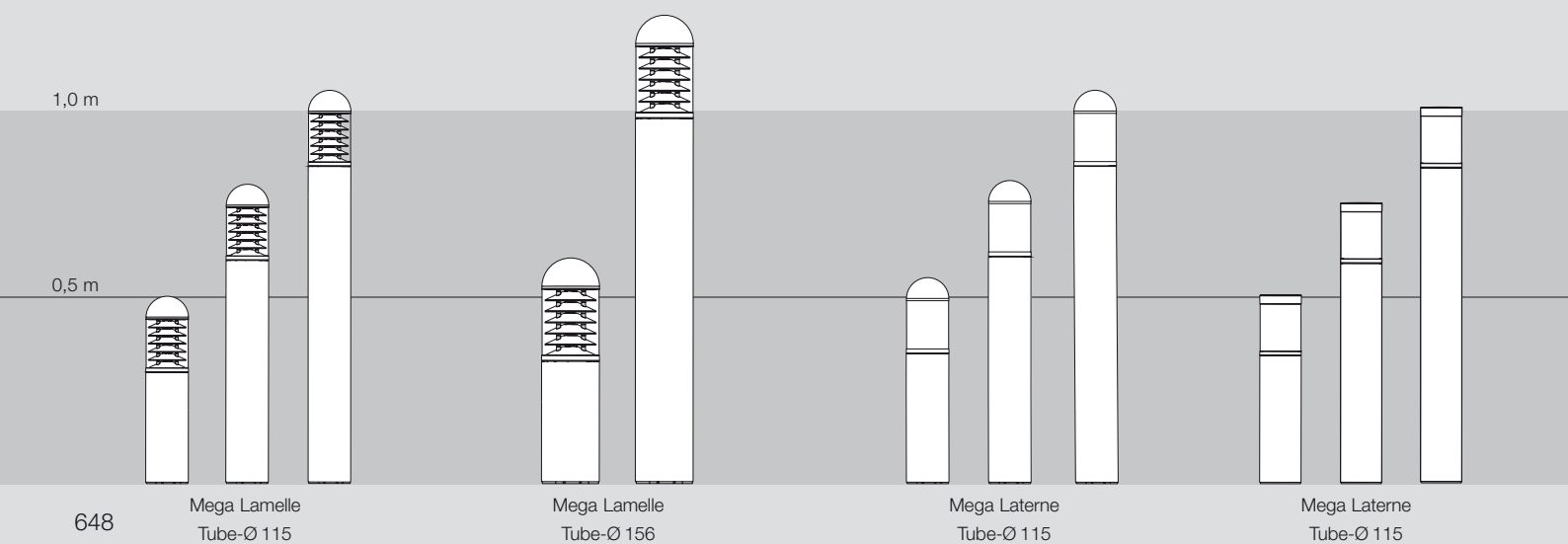
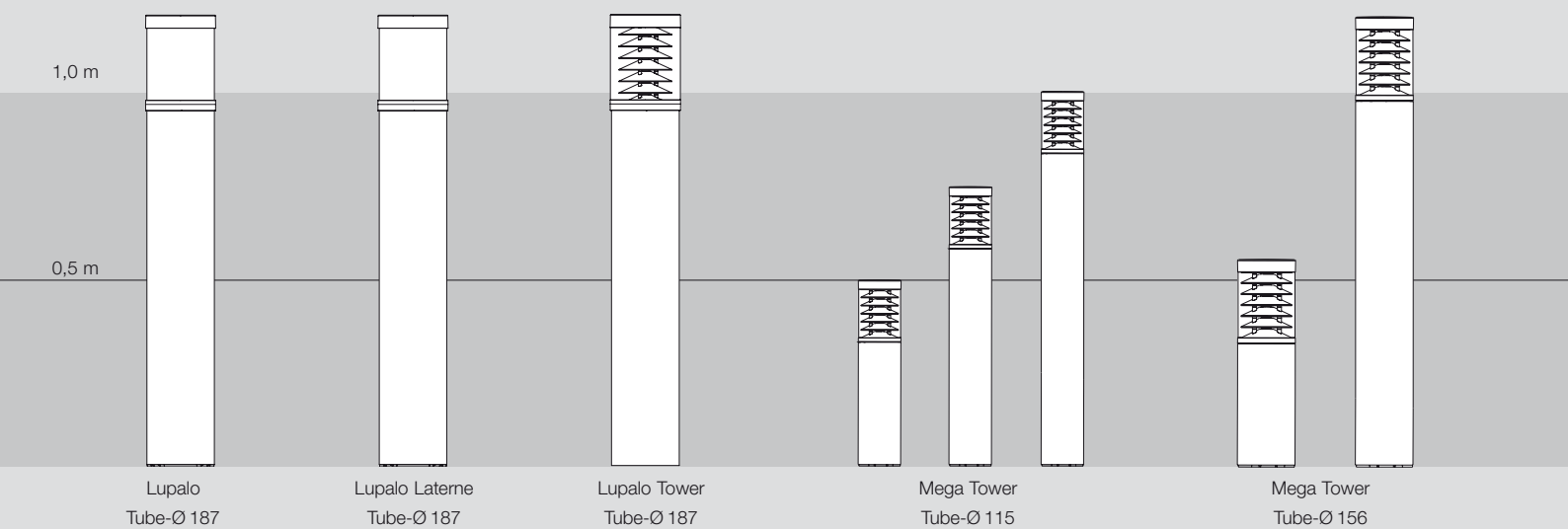
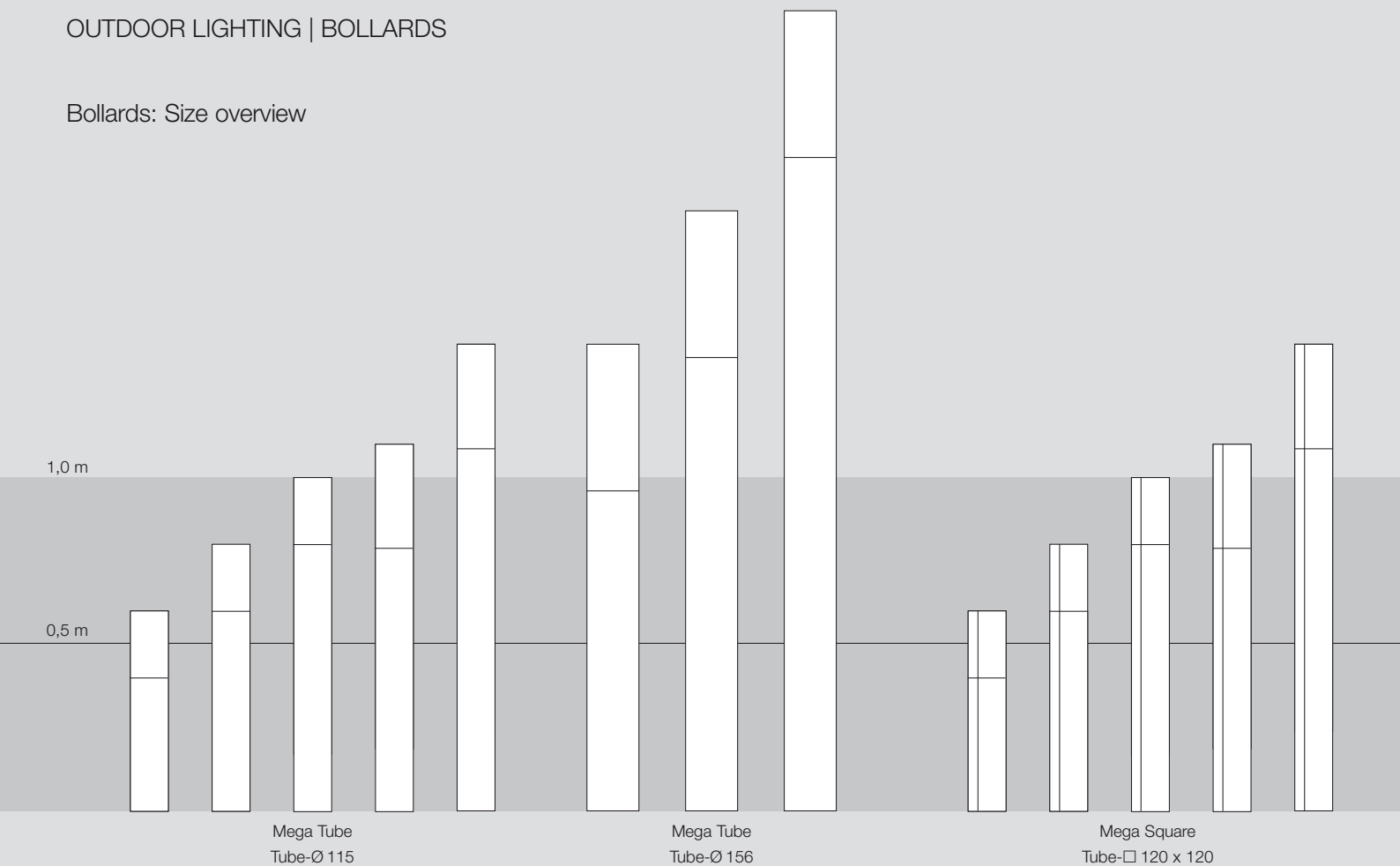
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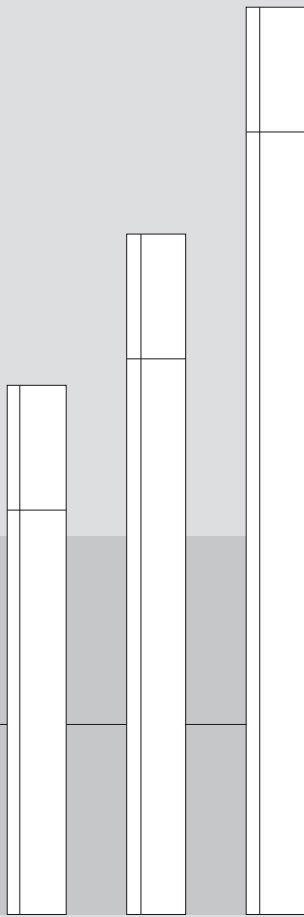


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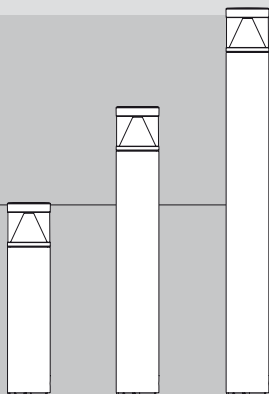
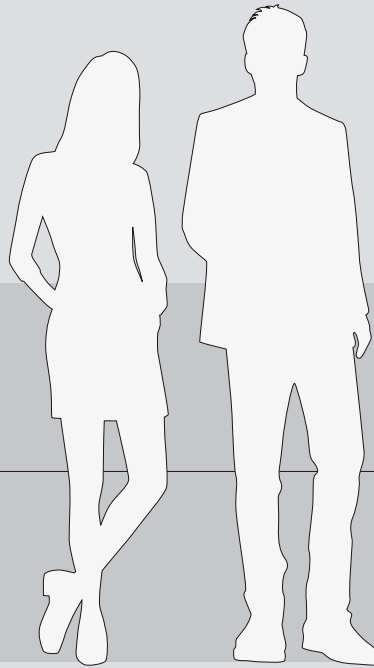
Mega Square
662-664, 673

Bollards: Size overview

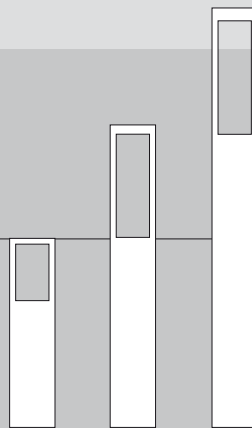




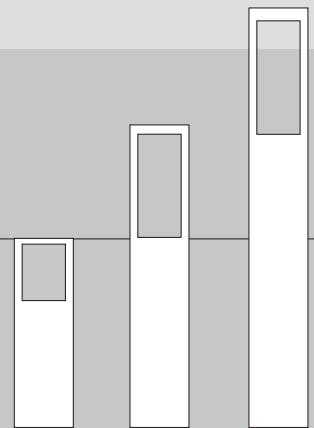
Mega Square
Tube-□ 156 x 156



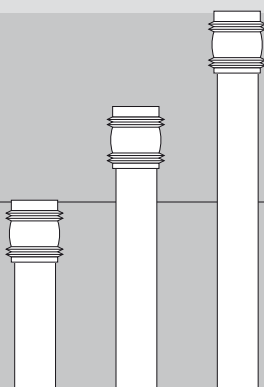
Mega Cone
Tube-Ø 115



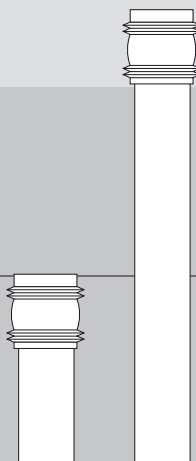
Bocaro
Tube-□ 120 x 120



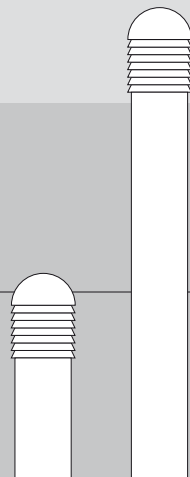
Bocaro
Tube-□ 156 x 156



Mega Gürtellinse
Tube-Ø 115



Mega Gürtellinse
Tube-Ø 156



Mega Glaspoller
Tube-Ø 156

BOCARO®

Everything at a glance



Highly efficient mains voltage LED,
exchangeable

Single pane safety glass (tempered glass)
as a protection cover



Square cross section made of corrosion
resistant aluminium (seawater resistant
powder-coated)

IP 66

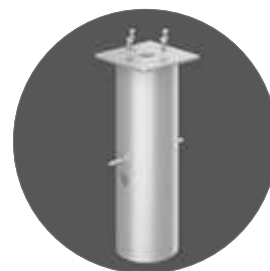
Connection box **IP 66** on base,
max. 2 x 3 x 2,5 mm² for through wiring



Exceedingly sturdy design
thanks to stainless steel fixing base
(fastening with 4 screws)
and integrated columns in
the profile cross section

with Gore™ Protective Vents diaphragm
valve to avoid condensed water

Ventilation slots for heat sink to avoid
waterlogging in the post



Buried base made of aluminium,
press nuts made of stainless steel

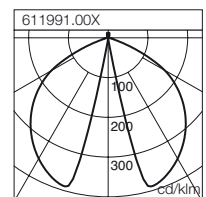
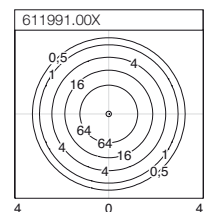
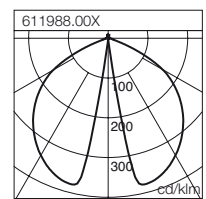
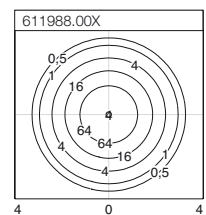




BOCARO®

Bollards

- Two in one: an interesting light sculpture and an efficient LED light source
- Choice of six sizes: from the compact short bollard to the slender standard bollard
- Exceedingly sturdy design thanks to stainless steel fixing base and integrated columns in the profile cross section
- Exchangeable mains voltage LED
- Seawater resistant coating
- Non-reflecting, single pane safety glass (toughened glass)
- A sophisticated vent system avoids successfully any condensed water



Bollards | Bocaro

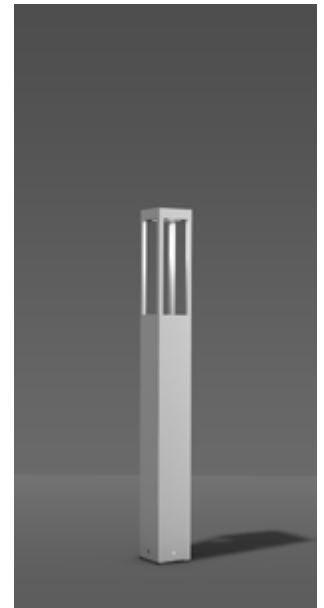
Type of Protection: IP 66

Protection Class: I

Impact Protection: IK06

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. With recessed stainless steel fixing bracket. LED protection cover made of clear single pane safety glass. With mains voltage LED module. Connection box on base, max. 2 x 3 x 2.5 mm² for through wiring.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Bollards						
Cross section 120 mm x 120 mm						
Height H 500 mm						
611986.00X	L 120, B 120, H 500	LED ⁽¹⁾	830	1700	20	Phase-cut
611986.00X.1	L 120, B 120, H 500	LED ⁽¹⁾	840	1750	20	Phase-cut
Height H 800 mm						
611987.00X	L 120, B 120, H 800	LED ⁽¹⁾	830	1850	20	Phase-cut
611987.00X.1	L 120, B 120, H 800	LED ⁽¹⁾	840	1900	20	Phase-cut
Height H 1100 mm						
611988.00X	L 120, B 120, H 1100	LED ⁽¹⁾	830	1900	20	Phase-cut
611988.00X.1	L 120, B 120, H 1100	LED ⁽¹⁾	840	1950	20	Phase-cut
Cross section 156 mm x 156 mm						
Height H 500 mm						
611989.00X	L 156, B 156, H 500	LED ⁽¹⁾	830	1600	20	Phase-cut
611989.00X.1	L 156, B 156, H 500	LED ⁽¹⁾	840	1650	20	Phase-cut
Height H 800 mm						
611990.00X	L 156, B 156, H 800	LED ⁽¹⁾	830	1850	20	Phase-cut
611990.00X.1	L 156, B 156, H 800	LED ⁽¹⁾	840	1900	20	Phase-cut
Height H 1100 mm						
611991.00X	L 156, B 156, H 1100	LED ⁽¹⁾	830	1900	20	Phase-cut
611991.0031.1 .Q	L 156, B 156, H 1100	LED ⁽¹⁾	840	1950	20	Phase-cut
611991.004.1	L 156, B 156, H 1100	LED ⁽¹⁾	840	1950	20	Phase-cut

Comparison LED vs. conventional lamps

LED 20 W ≈

1 x 150 W A60 (150 W P_{sys})

1 x 42 W TC-TEL (47 W P_{sys})

Accessory for ground installation

982103.010	L 120, B 120, H 401	Aluminium buried base with anti-sink protection and fixing set
982155.010	L 156, B 156, H 401	Aluminium buried base with anti-sink protection and fixing set



The application image shows:
Bocaro

LUPALO®

Everything at a glance

Extensively equipped with numerous features that ensure targeted lighting with efficient and lasting performance.

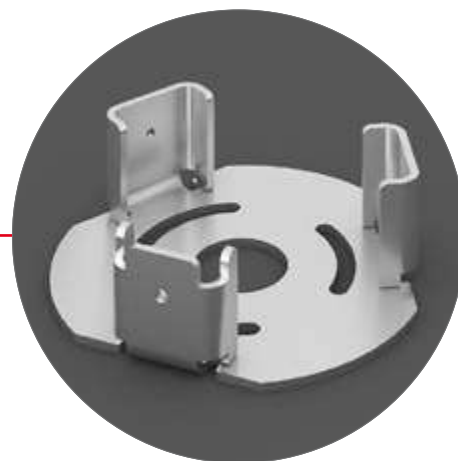
Elegant-looking power supply via delicate steel cables between converter and LED, thus reducing shadows



For maintenance the sealed luminaire head can be replaced quickly and safely as a complete module with a bayonet lock



Elongated holes in the base for subsequent and simple alignment of the luminaire, especially with asymmetrically wide distribution along a pathway



Optional cable junction box can be installed for use in public areas





Dark Sky

Protection for the environment and insects thanks to tailored light distribution without emitting light in the upper hemisphere thereby no light pollution

Multi-chip LED with high-performance refractor optics for targeted light distribution on the surfaces to be illuminated

Non-yellowing glass cylinder for consistently high light transmission

Membrane valve for pressure equalisation to avoid condensation



Control gear integrated in the luminaire

DALI dimmable, CLO as standard, integrated surge protection and various dim options

C-track for junction box/ fuse box behind the mast door

IP66

The high protection class (IP66) socket allows easy connection with the option of through wiring

Lockable mast door for easy access to the connection area



Bollard tube made of corrosion-resistant aluminum profile, seawater-resistant powder-coated

Stable stainless steel fixing plate, hidden in the post

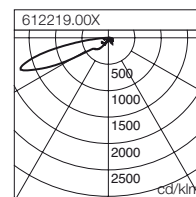
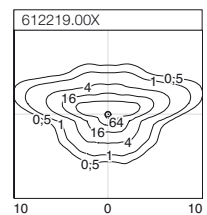
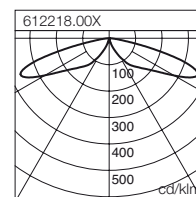
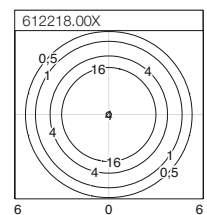
Buried base made of aluminium, press nuts made of stainless steel



LUPALO®

Bollards

- Bollard for public areas such as paths, squares, parks or car parking areas.
- **Dark Sky:** protects insects and the environment in general thanks to needs-based light distribution without light emitted in the upper hemisphere, thus avoiding light pollution
- The use of low-corrosion aluminium alloys in combination with a two-layer, seawater-resistant coating and stainless steel fastening and connecting elements ensures durability
- Aluminum profile with access door to the junction box or cable junction box (optional)
- High performance LED refractor optics with different light distribution
- Optically elegant power supply via delicate steel cable between control gear and LED, thus reducing shadows
- Control gear with integrated surge protection
- DALI converter is compatible with DC, suitable for central battery system
- Standard with CLO
- Different dim options are possible on request



Further luminaires of this series, see:
Outdoor lighting | Pole luminaires

Bollards | Lupalo Poller

Type of Protection: **IP 65**

Protection Class: II

Impact Protection: IK06

Bollard tube Ø 180 mm made of corrosion-resistant aluminium profile, powder coated. Recessed stainless steel fixing plate. Luminaire head made of corrosion resistant die-cast aluminium, seawater resistant powder-coated, stainless steel screws. Diffuser: glass, transparent. Multi-chip LED with high-performance refractor optics. Converter integrated in the luminaire head. Elegant-looking power supply via delicate steel cables between converter and LED. With membrane valve to avoid condensation. With C-track for junction box / fuse box behind the mast door. Junction box max. 2 x 3 x 2.5 mm² for through-wiring included.

Please order fuse box separately.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



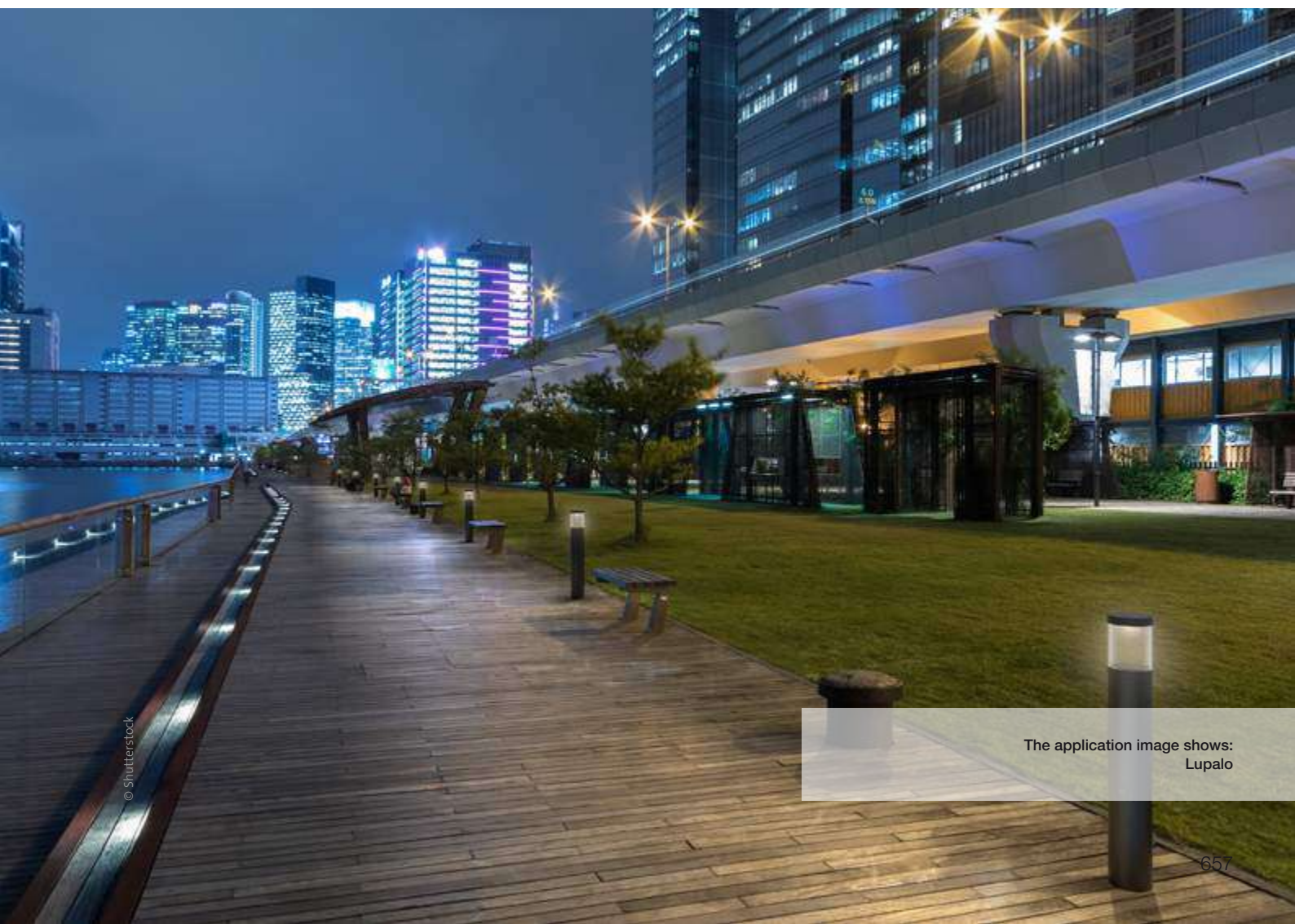
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Bollards						Price Category 12
Symmetrical light distribution for space illumination						
612218.00X	D 187, H 1200	LED	730	3900	36	DALI
612218.00X.1	D 187, H 1200	LED	740	4150	36	DALI
Asymmetrical light distribution						
612219.00X	D 187, H 1200	LED	730	3500	36	DALI
612219.00X.1	D 187, H 1200	LED	740	3700	36	DALI

Fuse box			Price Category 12
61199.009	L 265, B 72, H 75	Housing: plastic. Input for 3 cables 5 x 16 mm ² . One D01 / E14 Fuse. 2 luminaires outgoing lines.	

Accessory for ground installation			Price Category 12
982156.000	D 153, H 600	Aluminium buried base with anti-sink protection and fixing set	

Comparison
LED vs. conventional lamps

LED 36 W ≈
1 x 57 W TC-TEL (59 W Psys)



© Shutterstock

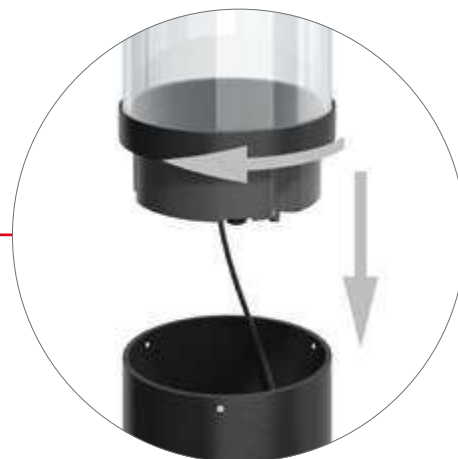
The application image shows:
Lupalo

LUPALO® LATERNE/TOWER

Everything at a glance

Basic versions of the stable bollard light for public areas. Ready for connection, equipped with all relevant basic features that bring light into the dark.

For maintenance the sealed luminaire head can be replaced quickly and safely as a complete module with a bayonet lock



Elongated holes in the base for subsequent and simple alignment of the luminaire



Optional cable junction box can be installed for use in public areas





A light transmission bar made of highly transparent, clear plastic (PMMA) with lasered optical structure diverts the light horizontally, ensuring optimum and even light distribution on the floor

The use of state-of-the-art LED technology allows reduced energy consumption and a long LED service life

Membrane valve for pressure equalisation to avoid condensation

C-track for junction box/ fuse box behind the mast door

IP 66

Lockable mast door for easy access to the connection area

The high protection class (IP 66) socket allows easy connection with the option of through wiring



Bollard tube made of corrosion-resistant aluminum profile, seawater-resistant powder-coated

Stable stainless steel fixing plate, hidden in the post

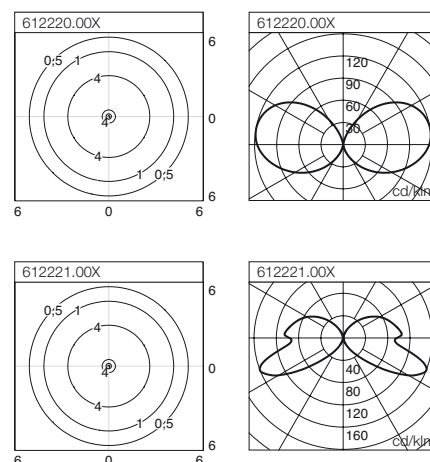
Buried base made of aluminium, press nuts made of stainless steel



LUPALO®

Bollards

- Bollard for public areas such as paths, squares, parks or car parking areas
- The post made of powder coated corrosion resistant aluminium is anchored to the ground with a sturdy stainless steel plate. This innovative assembly concept guarantees a long service life.
- Aluminum profile with access door to the junction box or fuse box (optional)
- Seawater resistant coating
- The high quality LED optics provide balanced brightness while minimising energy consumption



Bollards | Lupalo Laterne

Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK06

Bollard tube Ø 180 mm made of corrosion-resistant aluminium profile, powder coated. Recessed stainless steel fixing plate. Luminaire head made of corrosion resistant die-cast aluminium, seawater resistant powder-coated, stainless steel screws. Cover made of die cast aluminium, powder coated, with opal cylinder (glass). With mains voltage LED module. With membrane valve to avoid condensation. With C-track for junction box / fuse box behind the mast door. Junction box max. 2 x 3 x 2.5 mm² for through-wiring included.

Please order fuse box separately.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Bollards						Price Category 12
612220.00X	D 187, H 1200	LED ⁽¹⁾	830	650	20	Phase-cut
612220.00X.1	D 187, H 1200	LED ⁽¹⁾	840	650	20	Phase-cut

Fuse box						Price Category 12
61199.009	L 265, B 72, H 75	Housing: plastic. Input for 3 cables 5 x 16 mm ² . One D01 / E14 Fuse. 2 luminaires outgoing lines.				

Accessory for ground installation						Price Category 12
982156.000	D 153, H 600	Aluminium buried base with anti-sink protection and fixing set				

Comparison LED vs. conventional lamps

LED 20 W ≈

1 x 77 W QA60 (77 W Psys)

1 x 18 W TC-D (26 W Psys)

Bollards | Lupalo Tower

Type of Protection: **IP 65**

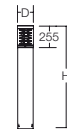
Protection Class: I

Impact Protection: IK06

Bollard tube Ø 180 mm made of corrosion-resistant aluminium profile, powder coated. Recessed stainless steel fixing plate. Luminaire head made of corrosion resistant die-cast aluminium, seawater resistant powder-coated, stainless steel screws. Cover made of corrosion-resistant pressure die-cast aluminium, powder coated, with transparent cylinder (glass) and translucent anti-glare louvres. With mains voltage LED module. With membrane valve to avoid condensation. With C-track for junction box / fuse box behind the mast door. Junction box max. 2 x 3 x 2.5 mm² for through-wiring included.

Please order fuse box separately.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Bollards						Price Category 12
612221.00X	D 187, H 1200	LED ⁽¹⁾	830	810	20	Phase-cut
612221.00X.1	D 187, H 1200	LED ⁽¹⁾	840	870	20	Phase-cut

Fuse box						Price Category 12
61199.009	L 265, B 72, H 75	Housing: plastic. Input for 3 cables 5 x 16 mm ² . One D01 / E14 Fuse. 2 outgoing lines.				

Accessory for ground installation						Price Category 12
982156.000	D 153, H 600	Aluminium buried base with anti-sink protection and fixing set				

Comparison LED vs. conventional lamps

LED 20 W ≈

1 x 77 W QA60 (77 W Psys)

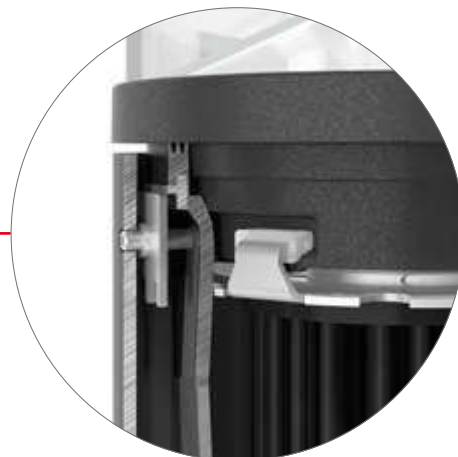
1 x 26 W TC-D (34 W Psys)

MEGA

Everything at a glance

With their slender design, the attractive light columns of the Mega range make graceful and yet powerful light statements. Various installation depths guarantee optimum integration in the architecture. The different luminaire heads distinguish themselves with a high level of light comfort, as well as achieving maximum clearance when complying with the relevant lighting regulations.

Lockable bayonet connection for quick and easy maintenance / replacement

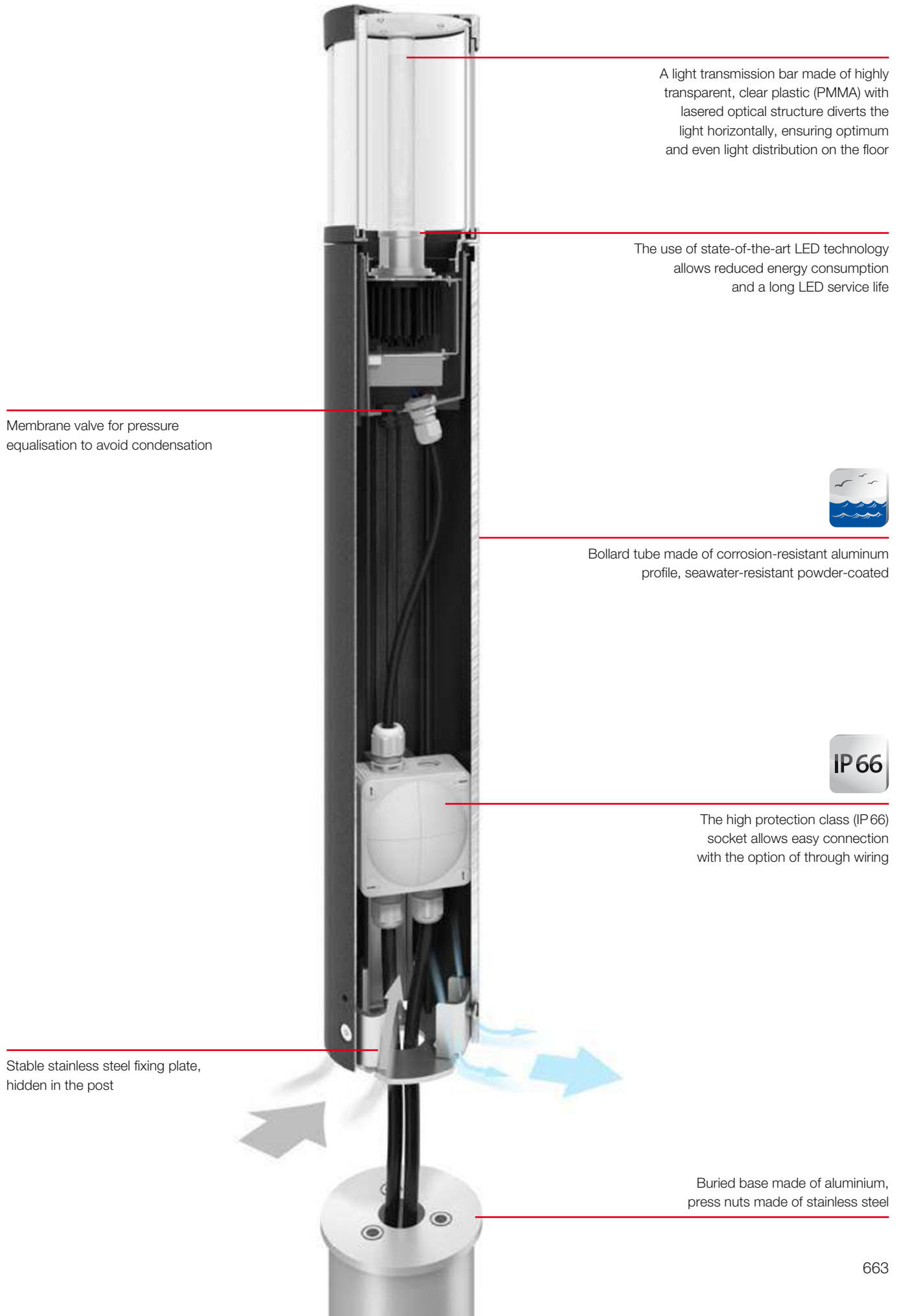


Elongated holes in the base for subsequent and simple alignment of the luminaire



Non-corrosive luminaire insert made of mould-cast dual compound thermoplastic with integral TP gasket







MEGA

Bollards

- The post made of powder coated corrosion resistant aluminium is anchored to the ground with a sturdy stainless steel plate. This innovative assembly concept guarantees a long service life.
- The innovative housing concept protects light source and driver reliably against all weather conditions
- Seawater resistant coating
- The flush fitting cover made of corrosion resistant pressure die-cast aluminium satisfies stringent aesthetic and functional requirements
- A sophisticated vent system avoids successfully any condensed water
- The high quality LED optics provide balanced brightness while minimising energy consumption
- Robust plastic cylinders made of UV-stabilised polyethylene also allow use in environments with increased mechanical stress



Further luminaires of this series, see:
Outdoor lighting | Wall luminaires

Bollards | Mega Tower

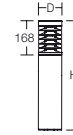
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK05

Bollard tube Ø 115 mm made of corrosion-resistant aluminium profile, powder coated. Recessed stainless steel fixing plate. Non-corrosive gear compartment made of mould-cast dual compound thermoplastic with integral TP gasket. Luminaire head made of corrosion-resistant pressure die-cast aluminium, powder coated, with transparent cylinder (glass) and translucent anti-glare louvres. With membrane valve to avoid condensation. Connection box on base, max. 2 x 3 x 2.5 mm² for through wiring.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Bollards						
Height H 500 mm						
611992.00X	D 115, H 500	LED	830	600	10	on/off
611992.00X.1	D 115, H 500	LED	840	620	10	on/off
Height H 750 mm						
612146.00X	D 115, H 750	LED	830	600	10	on/off
612146.00X.1	D 115, H 750	LED	840	620	10	on/off
Height H 1000 mm						
611993.00X	D 115, H 1000	LED	830	600	10	on/off
611993.00X.1	D 115, H 1000	LED	840	620	10	on/off

Accessory for ground installation			Price Category 12
982103.000	D 115, H 401	Aluminium buried base with anti-sink protection and fixing set	

Replacement glasses			Price Category 12			
982260.00X	Spare diffuser with integral louvres					

Comparison LED vs. conventional lamps

LED 10 W ≈

1 x 57 W QA60 (57 W Psys)
1 x 18 W TC-D (26 W Psys)

Bollards | Mega Tower

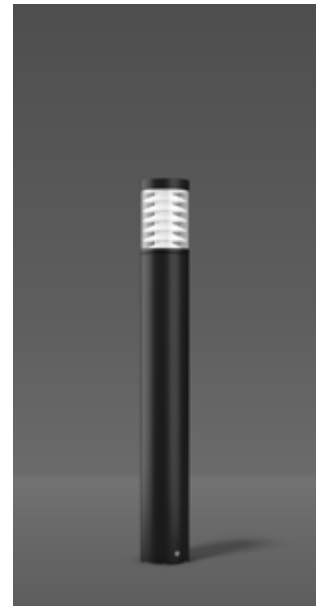
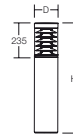
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK05

Bollard tube Ø 156 mm made of corrosion-resistant aluminium profile, powder coated. Recessed stainless steel fixing plate. Non-corrosive gear compartment made of mould-cast dual compound thermoplastic with integral TP gasket. Luminaire head made of corrosion-resistant pressure die-cast aluminium, powder coated, with transparent cylinder (glass) and translucent anti-glare louvres. With membrane valve to avoid condensation. Connection box on base, max. 2 x 3 x 2.5 mm² for through wiring.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Bollards						
Height H 550 mm						
611997.00X	D 156, H 550	LED ⁽¹⁾	830	1300	20	Phase-cut
611997.00X.1	D 156, H 550	LED ⁽¹⁾	840	1350	20	Phase-cut
Height H 1200 mm						
611998.00X	D 156, H 1200	LED ⁽¹⁾	830	1300	20	Phase-cut
611998.00X.1	D 156, H 1200	LED ⁽¹⁾	840	1350	20	Phase-cut

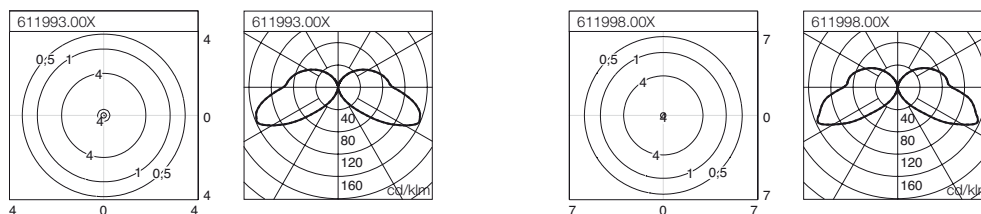
Accessory for ground installation			Price Category 12
982155.000	D 153, H 396	Aluminium buried base with anti-sink protection and fixing set	

Replacement glasses			Price Category 12			
982263.00X	Spare diffuser with integral louvres					

Comparison LED vs. conventional lamps

LED 20 W ≈

1 x 116 W QA60 (116 W Psys)
1 x 32 W TC-TEL (36 W Psys)





Comparison LED vs. conventional lamps

LED 10 W ≈

1 x 57 W QA60 (57 W Psys)
1 x 18 W TC-D (26 W Psys)

Bollards | Mega Lamelle

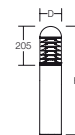
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK05

Bollard tube Ø 115 mm made of corrosion-resistant aluminium profile, powder coated. Recessed stainless steel fixing plate. Non-corrosive gear compartment made of mould-cast dual compound thermoplastic with integral TP gasket. Luminaire head made of corrosion-resistant pressure die-cast aluminium, powder coated, with transparent cylinder (glass) and translucent anti-glare louvres. With membrane valve to avoid condensation. Connection box on base, max. 2 x 3 x 2.5 mm² for through wiring.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Bollards						
Height H 550 mm						
611994.00X	D 115, H 550	LED	830	600	10	on/off
611994.00X.1	D 115, H 550	LED	840	620	10	on/off
Height H 800 mm						
612147.00X	D 115, H 800	LED	830	600	10	on/off
612147.00X.1	D 115, H 800	LED	840	620	10	on/off
Height H 1050 mm						
611995.00X	D 115, H 1050	LED	830	600	10	on/off
611995.00X.1	D 115, H 1050	LED	840	620	10	on/off

Price Category 12

Accessory for ground installation

982103.000 D 115, H 401 Aluminium buried base with anti-sink protection and fixing set

Price Category 12

Replacement glasses

982261.00X Spare diffuser with integral louvres

Price Category 12



Comparison LED vs. conventional lamps

LED 20 W ≈

1 x 116 W QA60 (116 W Psys)
1 x 32 W TC-TEL (36 W Psys)

Bollards | Mega Lamelle

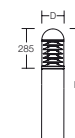
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK05

Bollard tube Ø 156 mm made of corrosion-resistant aluminium profile, powder coated. Recessed stainless steel fixing plate. Non-corrosive gear compartment made of mould-cast dual compound thermoplastic with integral TP gasket. Luminaire head made of corrosion-resistant pressure die-cast aluminium, powder coated, with transparent cylinder (glass) and translucent anti-glare louvres. With membrane valve to avoid condensation. Connection box on base, max. 2 x 3 x 2.5 mm² for through wiring.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Bollards						
Height H 600 mm						
611999.00X	D 156, H 600	LED ⁽¹⁾	830	1300	20	Phase-cut
611999.00X.1	D 156, H 600	LED ⁽¹⁾	840	1350	20	Phase-cut
Height H 1250 mm						
612114.00X	D 156, H 1250	LED ⁽¹⁾	830	1300	20	Phase-cut
612114.00X.1	D 156, H 1250	LED ⁽¹⁾	840	1350	20	Phase-cut

Price Category 12

Accessory for ground installation

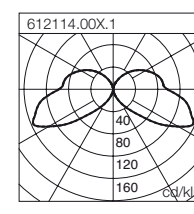
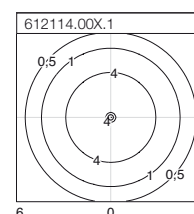
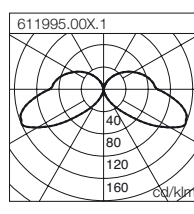
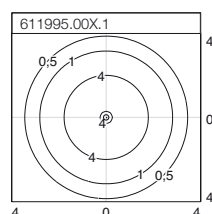
982155.000 D 153, H 396 Aluminium buried base with anti-sink protection and fixing set

Price Category 12

Replacement glasses

982264.00X Spare diffuser with integral louvres

Price Category 12



Bollards | Mega Cone

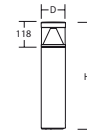
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK05

Bollard tube Ø 115 mm made of corrosion-resistant aluminium profile, powder coated. Recessed stainless steel fixing plate. Non-corrosive gear compartment made of mould-cast dual compound thermoplastic with integral TP gasket. Luminaire head made of corrosion-resistant pressure die-cast aluminium, powder coated, with clear glass cylinder and conical reflector. With membrane valve to avoid condensation. Connection box on base, max. 2 x 3 x 2.5 mm² for through wiring.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Bollards						
Price Category 12						
Height H 505 mm						
612161.00X	D 115, H 505	LED	830	600	10	on/off
612161.00X.1	D 115, H 505	LED	840	630	10	on/off
Height H 710 mm						
612162.00X	D 115, H 710	LED	830	600	10	on/off
612162.00X.1	D 115, H 710	LED	840	630	10	on/off
Height H 1035 mm						
612163.00X	D 115, H 1035	LED	830	600	10	on/off
612163.00X.1	D 115, H 1035	LED	840	630	10	on/off

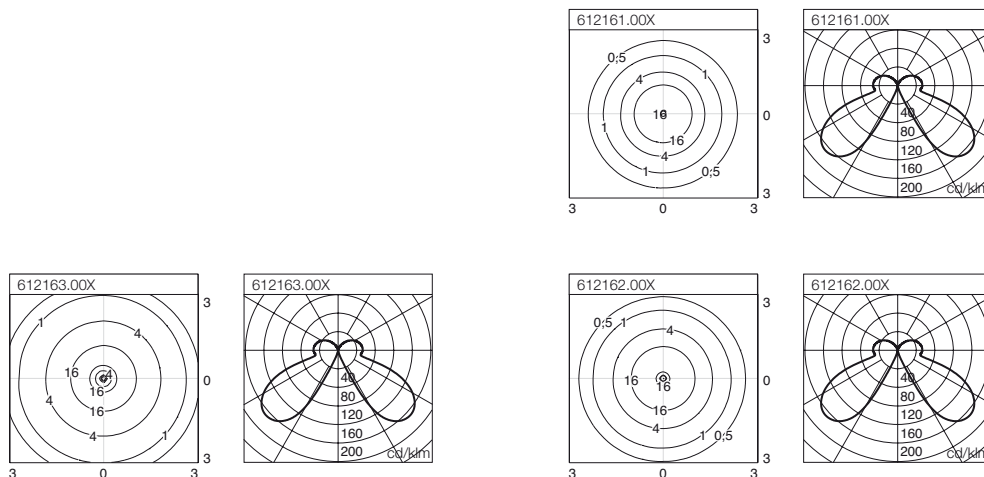
Accessory for ground installation			Price Category 12
982103.000	D 115, H 401	Aluminium buried base with anti-sink protection and fixing set	

Replacement glasses			Price Category 12
982527.00X		Replacement glass complete with conical screen	

Comparison LED vs. conventional lamps

LED 10 W ≈

1 x 57 W QA60 (57 W P_{sys})
1 x 18 W TC-D (26 W P_{sys})





Comparison LED vs. conventional lamps

LED 10 W ≈

1 x 57 W QA60 (57 W Psys)
1 x 18 W TC-D (26 W Psys)

Bollards | Mega Laterne

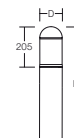
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK05

Bollard tube Ø 115 mm made of corrosion-resistant aluminium profile, powder coated. Recessed stainless steel fixing plate. Non-corrosive gear compartment made of mould-cast dual compound thermoplastic with integral TP gasket. Luminaire head made of die cast aluminium, powder coated, with opal cylinder (glass). With membrane valve to avoid condensation. Connection box on base, max. 2 x 3 x 2.5 mm² for through wiring.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Bollards						Price Category 12
Height H 550 mm						
611996.00X	D 115, H 550	LED	830	460	10	on/off
611996.00X.1	D 115, H 550	LED	840	480	10	on/off
612115.00X	D 115, H 550	1 x QA60 (clear) max. 57 W				on/off
Height H 800 mm						
612149.00X	D 115, H 800	LED	830	460	10	on/off
612149.00X.1	D 115, H 800	LED	840	480	10	on/off
612148.00X	D 115, H 800	1 x QA60 (clear) max. 57 W				on/off
Height H 1050 mm						
612117.00X	D 115, H 1050	LED	830	460	10	on/off
612117.00X.1	D 115, H 1050	LED	840	480	10	on/off
612116.00X	D 115, H 1050	1 x QA60 (clear) max. 57 W				on/off

Accessory for ground installation

982103.000 D 115, H 401 Aluminium buried base with anti-sink protection and fixing set

Replacement glasses

982262.00X Replacement glass with metal cap



Comparison LED vs. conventional lamps

LED 10 W ≈

1 x 57 W QA60 (57 W Psys)
1 x 18 W TC-D (26 W Psys)

Bollards | Mega Laterne

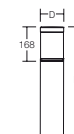
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK05

Bollard tube Ø 115 mm made of corrosion-resistant aluminium profile, powder coated. Recessed stainless steel fixing plate. Non-corrosive gear compartment made of mould-cast dual compound thermoplastic with integral TP gasket. Luminaire head made of die cast aluminium, powder coated, with opal cylinder (glass). With membrane valve to avoid condensation. Connection box on base, max. 2 x 3 x 2.5 mm² for through wiring.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



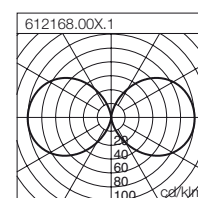
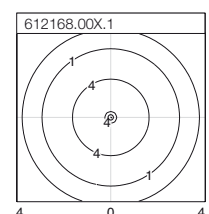
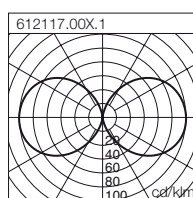
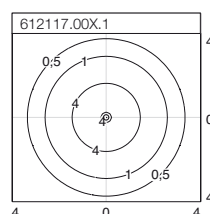
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Bollards						Price Category 12
Height H 500 mm						
612164.00X	D 115, H 500	LED	830	460	10	on/off
612164.00X.1	D 115, H 500	LED	840	480	10	on/off
612165.00X	D 115, H 500	1 x QA60 (clear) max. 57 W				on/off
Height H 750 mm						
612166.00X	D 115, H 750	LED	830	460	10	on/off
612166.00X.1	D 115, H 750	LED	840	480	10	on/off
612167.00X	D 115, H 750	1 x QA60 (clear) max. 57 W				on/off
Height H 1000 mm						
612168.00X	D 115, H 1000	LED	830	460	10	on/off
612168.00X.1	D 115, H 1000	LED	840	480	10	on/off
612169.00X	D 115, H 1000	1 x QA60 (clear) max. 57 W				on/off

Accessory for ground installation

982103.000 D 115, H 401 Aluminium buried base with anti-sink protection and fixing set

Replacement glasses

982262.01X Replacement glass with metal cap



Bollards | Mega Gürtellinse

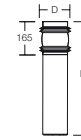
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK02

Bollard tube Ø 115 mm made of corrosion-resistant aluminium profile, powder coated. Recessed stainless steel fixing plate. Non-corrosive gear compartment made of mould-cast dual compound thermoplastic with integral TP gasket. Mouth-blown luminaire glass, clear, drum lens shape. With membrane valve as a standard to avoid condensed water. Integral driver. Connection box on base, max. 2 x 3 x 2.5 mm² for through wiring.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Bollards						Price Category 12
Height H 500 mm						
611882.00X	D 140, H 500	LED	830	500	10	on/off
611882.00X.1	D 140, H 500	LED	840	520	10	on/off
611885.00X	D 140, H 500	1 x QA60 (clear) max. 57 W				on/off
Height H 750 mm						
611883.00X	D 140, H 750	LED	830	500	10	on/off
611883.00X.1	D 140, H 750	LED	840	520	10	on/off
611886.00X	D 140, H 750	1 x QA60 (clear) max. 57 W				on/off
Height H 1000 mm						
611884.00X	D 140, H 1000	LED	830	500	10	on/off
611884.00X.1	D 140, H 1000	LED	840	520	10	on/off
611887.00X	D 140, H 1000	1 x QA60 (clear) max. 57 W				on/off

Accessory for ground installation			Price Category 12
982103.000	D 115, H 401	Aluminium buried base with anti-sink protection and fixing set	

Replacement glasses			Price Category 12			
982553.00X	Replacement glass with metal cap					

Bollards | Mega Gürtellinse

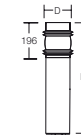
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK02

Bollard tube Ø 156 mm made of corrosion-resistant aluminium profile, powder coated. Recessed stainless steel fixing plate. Non-corrosive gear compartment made of mould-cast dual compound thermoplastic with integral TP gasket. Mouth-blown luminaire glass, clear, drum lens shape. With membrane valve as a standard to avoid condensed water. Integral driver. Connection box on base, max. 2 x 3 x 2.5 mm² for through wiring.

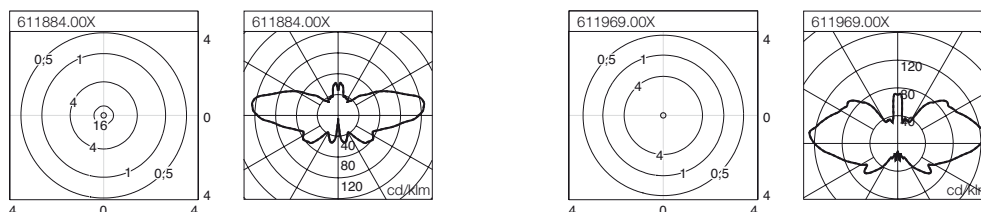
Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 12
Bollards							
Height H 500 mm							
611968.00X	D 179, H 500	LED ⁽¹⁾	830	1000	20	Phase-cut	
611968.00X.1	D 179, H 500	LED ⁽¹⁾	840	1050	20	Phase-cut	
611966.00X	D 179, H 500	1 x QA60 (clear) max. 77 W					on/off
Height H 1200 mm							
611969.00X	D 179, H 1200	LED ⁽¹⁾	830	1000	20	Phase-cut	
611969.00X.1	D 179, H 1200	LED ⁽¹⁾	840	1050	20	Phase-cut	
611967.00X	D 179, H 1200	1 x QA60 (clear) max. 77 W					on/off

Accessory for ground installation			Price Category 12
982155.000	D 153, H 396	Aluminium buried base with anti-sink protection and fixing set	

Replacement glasses			Price Category 13
981142.01X	D 176, H 232	Replacement glass with metal cap	





Comparison LED vs. conventional lamps

LED 10 W ≈

1 x 77 W QA60 (77 W Psys)
1 x 26 W TC-D (34 W Psys)

Bollards | Mega Tube

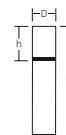
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK03 (Glass), IK07 (Plastic)

Bollard tube Ø 115 mm made of corrosion-resistant aluminium profile, powder coated. Recessed stainless steel fixing plate. Non-corrosive gear compartment made of mould-cast dual compound thermoplastic with integral TP gasket. Diffuser: Opal glass, mouth-blown, satin finish, or opal plastic (polyethylene), satin finish. With membrane valve to avoid condensation. Connection box on base, max. 2 x 3 x 2.5 mm² for through wiring.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Bollards						
Opal glass, satin finish						
Height H 600 mm, h 210 mm						
611872.00X	D 115, H 600	LED	830	650	10	on/off
611872.00X.1	D 115, H 600	LED	840	670	10	on/off
611875.00X	D 115, H 600	1 x QA60 (clear) max. 57 W				on/off
Height H 800 mm, h 210 mm						
612151.00X	D 115, H 800	LED	830	650	10	on/off
612151.00X.1	D 115, H 800	LED	840	670	10	on/off
612150.00X	D 115, H 800	1 x QA60 (clear) max. 57 W				on/off
Height H 1000 mm, h 210 mm						
611876.00X	D 115, H 1000	1 x QA60 (clear) max. 57 W				on/off
Height H 1100 mm, h 310 mm						
611873.00X	D 115, H 1100	LED	830	610	10	on/off
611873.00X.1	D 115, H 1100	LED	840	620	10	on/off
Height H 1400 mm, h 310 mm						
611874.00X	D 115, H 1400	LED	830	610	10	on/off
611874.00X.1	D 115, H 1400	LED	840	620	10	on/off
Diffuser: plastic (polyethylene), opal, satin finish						
Height H 600 mm, h 210 mm						
611913.00X	D 115, H 600	LED	830	750	10	on/off
611913.00X.1	D 115, H 600	LED	840	770	10	on/off
Height H 1100 mm, h 310 mm						
611914.00X	D 115, H 1100	LED	830	640	10	on/off
611914.00X.1	D 115, H 1100	LED	840	660	10	on/off
Height H 1400 mm, h 310 mm						
611915.00X	D 115, H 1400	LED	830	640	10	on/off
611915.00X.1	D 115, H 1400	LED	840	660	10	on/off

Glass and plastic diffusers are not interchangeable.

Accessory for ground installation

Price Category 12

982103.000	D 115, H 401	Aluminium buried base with anti-sink protection and fixing set
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Replacement diffusers

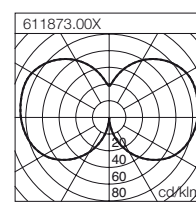
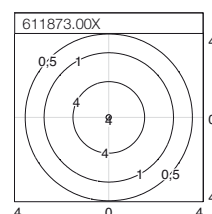
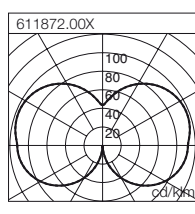
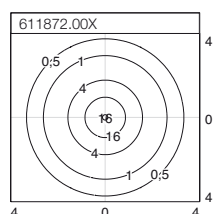
Price Category 13

982142.002	D 115, H 230	Plastic (polyethylene), opal, satin finish, h 210 mm
982143.002	D 115, H 330	Plastic (polyethylene), opal, satin finish, h 310 mm

Replacement glasses

Price Category 13

982108.01X	D 115, H 244	Opal glass, satin finish, h 210 mm
982554.00X	D 115, H 344	Opal glass, satin finish, h 310 mm



Bollards | Mega Tube

Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK03 (Glass), IK07 (Plastic)

Bollard tube Ø 156 mm made of corrosion-resistant aluminium profile, powder coated. Recessed stainless steel fixing plate. Non-corrosive gear compartment made of mould-cast dual compound thermoplastic with integral TP gasket. Diffuser: Opal glass, mouth-blown, satin finish, or opal plastic (polyethylene), satin finish. With membrane valve to avoid condensation. Connection box on base, max. 2 x 3 x 2.5 mm² for through wiring.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Bollards						
Opal glass, satin finish						
Height H 1400 mm, h 440 mm						
611916.00X	D 156, H 1400	LED ⁽¹⁾	830	1500	20	Phase-cut
611916.00X.1	D 156, H 1400	LED ⁽¹⁾	840	1550	20	Phase-cut
Height H 1800 mm, h 440 mm						
611917.00X	D 156, H 1800	LED ⁽¹⁾	830	1500	20	Phase-cut
611917.00X.1	D 156, H 1800	LED ⁽¹⁾	840	1550	20	Phase-cut
Height H 2400 mm, h 440 mm						
611918.00X	D 156, H 2400	LED ⁽¹⁾	830	1500	20	Phase-cut
611918.00X.1	D 156, H 2400	LED ⁽¹⁾	840	1550	20	Phase-cut
Diffuser: plastic (polyethylene), opal, satin finish						
Height H 1400 mm, h 440 mm						
611919.00X	D 156, H 1400	LED ⁽¹⁾	830	1850	20	Phase-cut
611919.00X.1	D 156, H 1400	LED ⁽¹⁾	840	1900	20	Phase-cut
Height H 1800 mm, h 440 mm						
611920.00X	D 156, H 1800	LED ⁽¹⁾	830	1850	20	Phase-cut
611920.00X.1	D 156, H 1800	LED ⁽¹⁾	840	1900	20	Phase-cut
Height H 2400 mm, h 440 mm						
611921.00X	D 156, H 2400	LED ⁽¹⁾	830	1850	20	Phase-cut
611921.00X.1	D 156, H 2400	LED ⁽¹⁾	840	1900	20	Phase-cut

Glass and plastic diffusers are not interchangeable.

Accessory for ground installation			Price Category 12
982155.000	D 153, H 396	Aluminium buried base with anti-sink protection and fixing set	
982156.000	D 153, H 600	Aluminium buried base with anti-sink protection and fixing set	

Replacement glasses			Price Category 13
982152.00X	D 156, H 462	Opal glass, satin finish, h 440 mm	

Replacement diffusers			Price Category 13
982154.002	D 157, H 467	Plastic (polyethylene), opal, satin finish, h 440 mm	

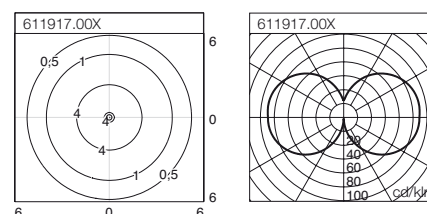


Comparison LED vs. conventional lamps

LED 20 W ≈

1 x 116 W QA60 (116 W Psys)

1 x 32 W TC-TEL (36 W Psys)





Comparison

LED vs. conventional lamps

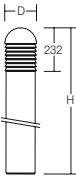
LED 20 W ≈
1 x 77 W QA60 (77 W Psys)
1 x 26 W TC-D (34 W Psys)

Bollards | Mega Glaspoller

Type of Protection: **IP 65**
Protection Class: I
Impact Protection: IK03

Bollard tube Ø 156 mm made of corrosion-resistant aluminium profile, powder coated. Recessed stainless steel fixing plate. Non-corrosive gear compartment made of mould-cast dual compound thermoplastic with integral TP gasket. Opal glass: mouth-blown, satin finish, powder coated metal cap. With membrane valve as a standard to avoid condensed water. Connection box on base, max. 2 x 3 x 2.5 mm² for through wiring.

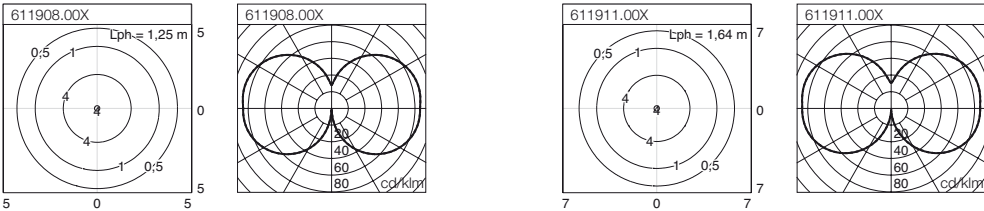
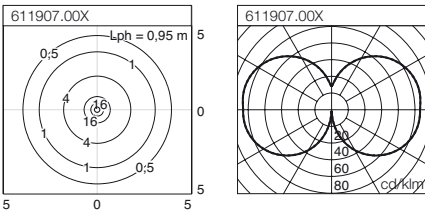
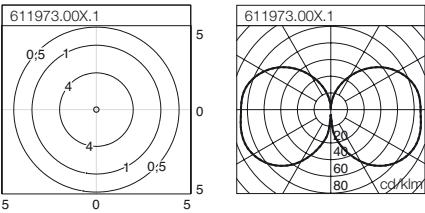
Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Bollards						Price Category 12
Height H 550 mm						
611972.00X	D 169, H 550	LED ⁽¹⁾	830	950	20	Phase-cut
611972.00X.1	D 169, H 550	LED ⁽¹⁾	840	980	20	Phase-cut
611970.00X	D 169, H 550	1 x QA60 (klar) max. 77 W				on/off
Height H 1200 mm						
611973.00X	D 169, H 1200	LED ⁽¹⁾	830	950	20	on/off
611973.00X.1	D 169, H 1200	LED ⁽¹⁾	840	980	20	on/off
611971.00X	D 169, H 1200	1 x QA60 (klar) max. 77 W				on/off

Accessory for ground installation		Price Category 12
982155.000	D 153, H 396	Aluminium buried base with anti-sink protection and fixing set

Replacement glasses		Price Category 13
981143.01X	D 169, H 248	Replacement glass with metal cap



Bollards | Mega Square

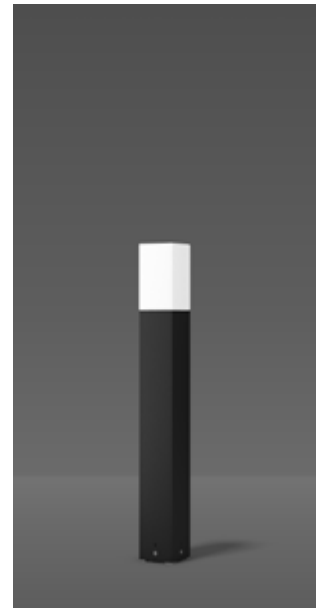
Type of Protection: IP 65

Protection Class: I

Impact Protection: IK02

Bollard tube □ 120 mm made of corrosion-resistant aluminium profile, powder coated.
Recessed stainless steel fixing plate. Non-corrosive gear compartment made of mould-cast dual compound thermoplastic with integral TP gasket. Opal glass: mouth-blown, satin finish.
With membrane valve as a standard to avoid condensed water. Connection box on base, max. 2 x 3 x 2.5 mm² for through wiring.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Comparison LED vs. conventional lamps

LED 10 W ≈

1 x 77 W QA60 (77 W P_{sys})

1 x 26 W TC-D (34 W P_{sys})

1 x 100 W A60 (100 W P_{sys})

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Bollards						Price Category 12
Height H 600 mm, h 210 mm						
611905.00X	L 120, B 120, H 600	LED	830	740	10	on/off
611905.00X.1	L 120, B 120, H 600	LED	840	750	10	on/off
611904.00X	L 120, B 120, H 600	1 x QA60 (klar) max. 57 W				on/off
Height H 800 mm, h 210 mm						
612153.00X	L 120, B 120, H 800	LED	830	640	10	on/off
612153.00X.1	L 120, B 120, H 800	LED	840	760	10	on/off
612152.00X	L 120, B 120, H 800	1 x QA60 (klar) max. 57 W				on/off
Height H 1000 mm, h 210 mm						
611909.00X	L 120, B 120, H 1000	1 x QA60 (klar) max. 57 W				on/off
Height H 1100 mm, h 310 mm						
611907.00X	L 120, B 120, H 1100	LED	830	640	10	on/off
611907.00X.1	L 120, B 120, H 1100	LED	840	760	10	on/off
Height H 1400 mm, h 310 mm						
611908.00X	L 120, B 120, H 1400	LED	830	640	10	on/off
611908.00X.1	L 120, B 120, H 1400	LED	840	760	10	on/off

Accessory for ground installation			Price Category 12
982103.010	L 120, B 120, H 401	Aluminium buried base with anti-sink protection and fixing set	

Replacement glasses			Price Category 13
982132.002	L 120, B 120, H 235	Opal glass, satin finish, h 210 mm	
982133.002	L 120, B 120, H 335	Opal glass, satin finish, h 310 mm	

Bollards | Mega Square

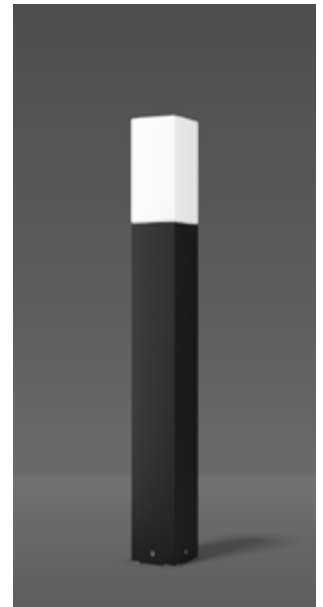
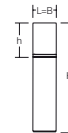
Type of Protection: IP 65

Protection Class: I

Impact Protection: IK02

Bollard tube □ 156 mm made of corrosion-resistant aluminium profile, powder coated.
Recessed stainless steel fixing plate. Non-corrosive gear compartment made of mould-cast dual compound thermoplastic with integral TP gasket. Opal glass: mouth-blown, satin finish.
With membrane valve as a standard to avoid condensed water. Connection box on base, max. 2 x 3 x 2.5 mm² for through wiring.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Comparison LED vs. conventional lamps

LED 20 W ≈

1 x 116 W QA60 (116 W P_{sys})

1 x 32 W TC-TEL (36 W P_{sys})

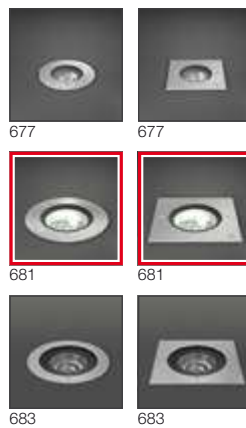
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Bollards						
Price Category 12						
Height H 1400 mm, h 330 mm						
611910.00X	L 156, B 156, H 1400	LED ⁽¹⁾	830	1450	20	Phase-cut
611910.00X.1	L 156, B 156, H 1400	LED ⁽¹⁾	840	1500	20	Phase-cut
Height H 1800 mm, h 330 mm						
611911.00X	L 156, B 156, H 1800	LED ⁽¹⁾	830	1450	20	Phase-cut
611911.00X.1	L 156, B 156, H 1800	LED ⁽¹⁾	840	1500	20	Phase-cut
Height H 2400 mm, h 330 mm						
611912.00X	L 156, B 156, H 2400	LED ⁽¹⁾	830	1450	20	Phase-cut
611912.00X.1	L 156, B 156, H 2400	LED ⁽¹⁾	840	1500	20	Phase-cut

Accessory for ground installation			Price Category 12
982155.010	L 156, B 156, H 401	Aluminium buried base with anti-sink protection and fixing set	
982157.000	L 156, B 156, H 596	Aluminium buried base with anti-sink protection and fixing set	

Replacement glasses			Price Category 13
982176.002	L 156, B 156, H 352	Opal glass, satin finish, h 330 mm	



The application image shows:
Terra Edelstahl 245



Terra Edelstahl 130
676-677

Terra Edelstahl 190
678-681

Terra Edelstahl 245
682-683



IP68

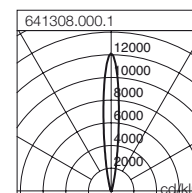
IK08

TERRA EDELSTAHL 130

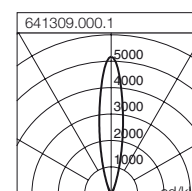
In-ground luminaires

- In-ground luminaire for pedestrian areas, maximum load 2000 kg
- Choice of three different light distributions: Narrow Spot, Medium Spot and Flood
- No condensed water inside by hermetically sealed inner compartment and vapour seal
- Durable corrosion resistance even in aggressive soil thanks to housing of thermoset material, cover ring made of marine grade stainless steel
- High object illuminance due to precise optics despite low power

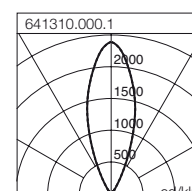
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h [m]	Ø [m]	E [lx]
5,0	1,12	109
4,0	0,90	171
3,0	0,67	304
2,0	0,45	684
1,0	0,22	2734



641309.000.1		
h [m]	Ø [m]	E [lx]
5,0	1,76	46
4,0	1,41	72
3,0	1,06	128
2,0	0,71	288
1,0	0,35	1151



641310.000.1		
h [m]	Ø [m]	E [lx]
5,0	3,23	21
4,0	2,58	33
3,0	1,94	59
2,0	1,29	134
1,0	0,65	535



In-ground luminaires | Terra Edelstahl 130

Type of Protection: **IP 68**

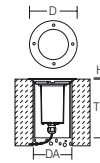
Protection Class: I

Impact Protection: IK08

Housing made of epoxy resin thermoset, stainless steel, aluminium. Round marine grade stainless steel cover, mill finish. Flush mounted toughened glass with secondary sealing glass. High performance LED refractor optics with different beam angles. Integral vapour seal against condensed water. The interior of the housing is sealed in accordance with IP 68 even during installation. With H07RN8-F connecting cable, L 500 mm.

Use of in-ground support is necessary, please order separately

Available colour: 0 = stainless steel



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	dimmable
In-ground luminaires							
Cut out DA 125 mm, TE 200 mm							
641308.000	D 130, H 2	LED	830	240	4	12	on/off
641309.000	D 130, H 2	LED	830	240	4	20	on/off
641310.000	D 130, H 2	LED	830	240	4	37	on/off
641308.000.1	D 130, H 2	LED	840	280	4	12	on/off
641309.000.1	D 130, H 2	LED	840	280	4	20	on/off
641310.000.1	D 130, H 2	LED	840	280	4	37	on/off

Comparison LED vs. conventional lamps

LED 4 W ≈
1 x 30 W QA60 (30 W Psys)

In-ground luminaires | Terra Edelstahl 130

Type of Protection: **IP 68**

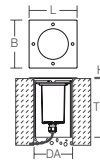
Protection Class: I

Impact Protection: IK08

Housing made of epoxy resin thermoset, stainless steel, aluminium. Square marine grade stainless steel cover, mill finish. Flush mounted toughened glass with secondary sealing glass. High performance LED refractor optics with different beam angles. Integral vapour seal against condensed water. The interior of the housing is sealed in accordance with IP 68 even during installation. With H07RN8-F connecting cable, L 500 mm.

Use of in-ground support is necessary, please order separately

Available colour: 0 = stainless steel



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	dimmable
In-ground luminaires							
Cut out DA 125 mm, TE 200 mm							
641311.000	L 130, B 130, H 2	LED	830	240	4	12	on/off
641312.000	L 130, B 130, H 2	LED	830	240	4	20	on/off
641313.000	L 130, B 130, H 2	LED	830	240	4	37	on/off
641311.000.1	L 130, B 130, H 2	LED	840	280	4	12	on/off
641312.000.1	L 130, B 130, H 2	LED	840	280	4	20	on/off
641313.000.1	L 130, B 130, H 2	LED	840	280	4	37	on/off

Comparison LED vs. conventional lamps

LED 4 W ≈
1 x 30 W QA60 (30 W Psys)

In-ground support required, can be cut on site

982194.003 D 125, H 540 In-ground support: plastic

Price Category 12

Accessories

982408.010 D 78, H 10 Glass, non-slip with seal
982398.003 L 81, B 35, H 35 IP 68 plug connector
982399.003 L 170, B 71, H 35 H-distributor IP 68

Price Category 11

Replacement glass

982408.000 D 78, H 10 Glass with seal

Price Category 13



TERRA EDELSTAHL 190

Everything at a glance

When you think what effort, usually unsuccessful, is put into the search for the „perfect“ recessed ground luminaire, one does in fact tend to describe the TERRA EDELSTAHL family as „out of this world“. Yet its members are by no means extraterrestrials - they are simply heavenly solutions for earthly problems like condensation, corrosion, wiring etc.

⊕ Long service life

Durable corrosion resistance even in aggressive soil thanks to housing made of thermoset material, cover ring made of marine grade stainless steel and flush mounted toughened glass. The use of state-of-the-art LED technology allows a long luminaire service life and reduced energy consumption.

⊕ Impermeability

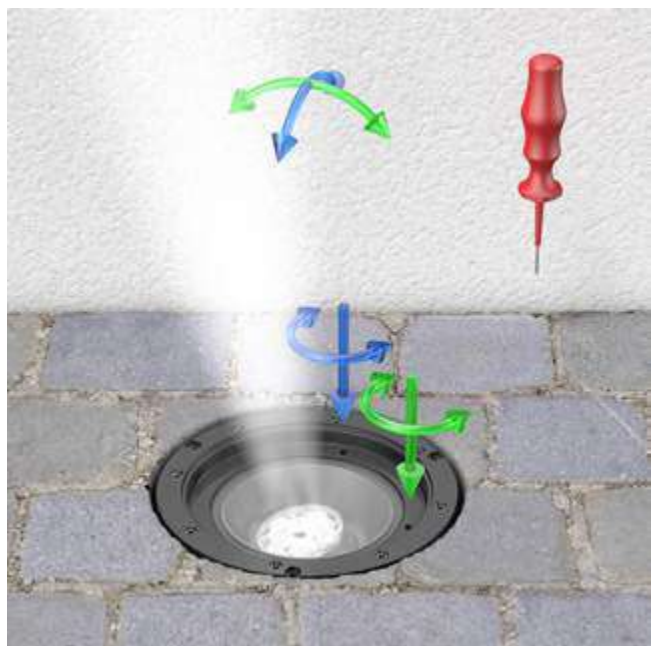
The innovative housing concept (IP 68) reliably protects the light source and converter from all environmental conditions. No condensed water inside thanks to hermetically sealed inner compartment and vapour seal. The inside of the housing is completely airtight even during connection and adjustment.

⊕ Flexibility

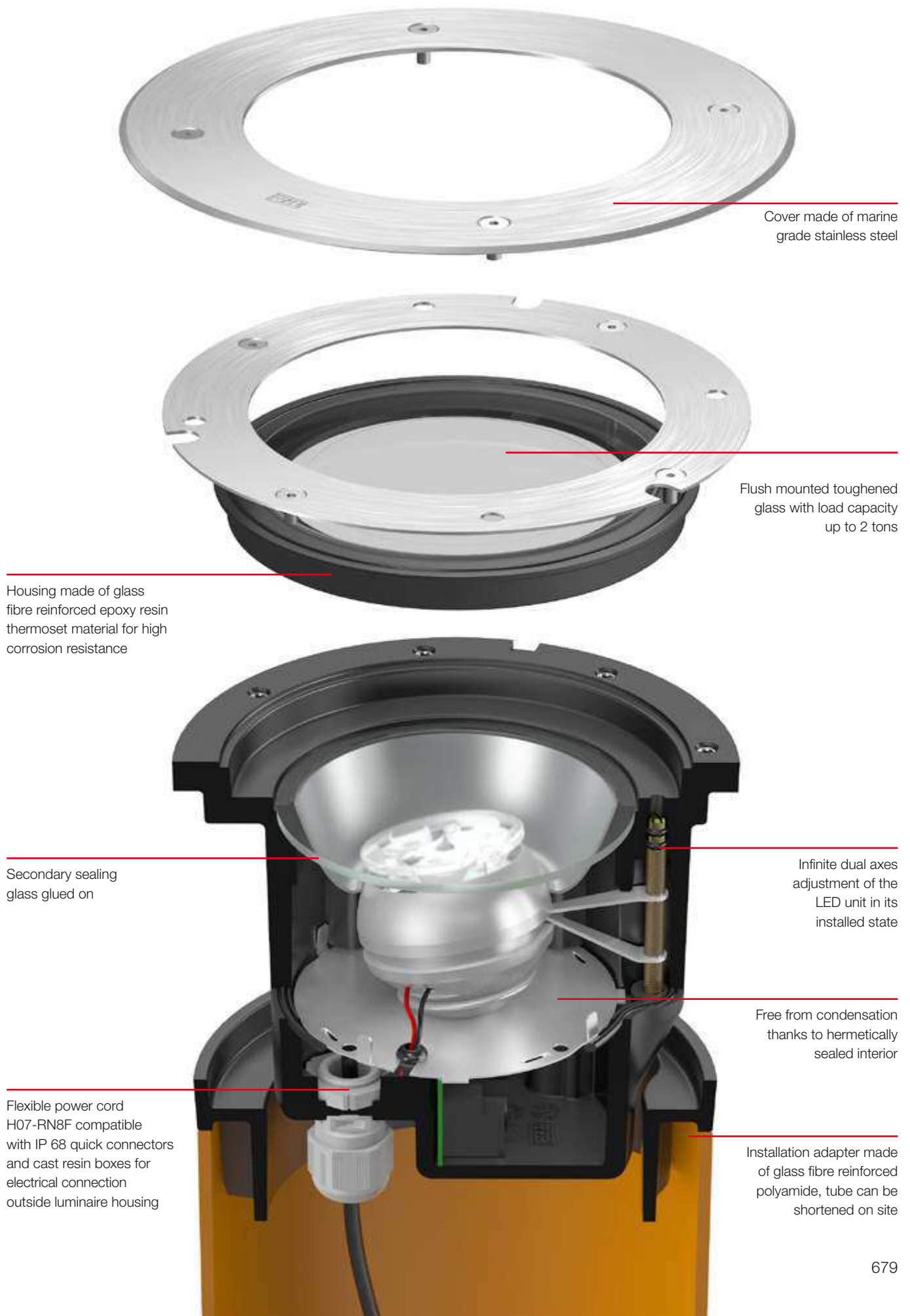
High-quality LED optics provide balanced brightness. 3 different LED beam angles ensure planning flexibility. The LED can be continuously adjusted by a max. of 15 degrees in all directions in its installed state. Hence the light cone can be precisely directed and provides perfect illumination.

⊕ Connection options

Flexible power cord H07-RN8F compatible with IP 68 quick connectors and cast resin boxes for electrical connection outside luminaire housing



Infinite adjustment of the LED unit by a max. of 15° in all directions in its installed state.





IP68

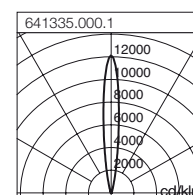
IK08

TERRA EDELSTAHL 190

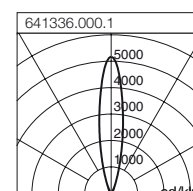
In-ground luminaires

- In-ground luminaire for pedestrian areas, maximum load 2000 kg
- Selection of three beam angles, beam direction can be adjusted from 0 to 15 degrees in all directions
- Beam adjusting is performed from outside while fitting is already mounted in place and sealed
- No condensed water inside by hermetically sealed inner compartment and vapour seal
- Durable corrosion resistance even in aggressive soil thanks to housing of thermoset material, cover ring made of marine grade stainless steel
- Flexible power cord H07-RN8F compatible with IP 68 quick connectors and cast resin boxes for electrical connection outside luminaire housing
- High object illuminance due to precise optics despite low power

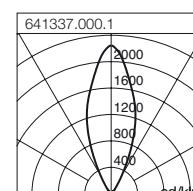
641335.000.1		
h [m]	Ø [m]	E [lx]
5,0	1,12	336
4,0	0,90	525
3,0	0,67	933
2,0	0,45	2099
1,0	0,22	8398



641336.000.1		
h [m]	Ø [m]	E [lx]
5,0	1,76	141
4,0	1,41	221
3,0	1,06	393
2,0	0,71	884
1,0	0,35	3536



641337.000.1		
h [m]	Ø [m]	E [lx]
5,0	3,42	62
4,0	2,74	96
3,0	2,05	171
2,0	1,37	386
1,0	0,68	1543



In-ground luminaires | Terra Edelstahl 190

Type of Protection: **IP 68**

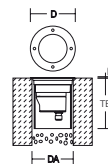
Protection Class: II

Impact Protection: IK08

Housing made of epoxy resin thermoset, stainless steel, aluminium. Round marine grade stainless steel cover, mill finish. Flush mounted toughened glass with secondary sealing glass. High performance LED refractor optics with different beam angles. Aiming can be adjusted by up to 15° from the vertical from the outside while fitting is already mounted in place and sealed. Integral vapour seal against condensed water. The interior of the housing is sealed in accordance with IP 68 even during installation. With H07RN8-F connecting cable, L 500 mm.

Use of in-ground support is necessary, please order separately

Available colour: 0 = stainless steel



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	dimmable
In-ground luminaires							Price Category 12
Cut out DA 175 mm, TE 250 mm							
Rotation symmetrical light distribution, aiming can be adjusted circularly by up to 15 degrees from outside							
641332.000.2	D 190, H 2	LED	827	660	12	12	on/off
641333.000.2	D 190, H 2	LED	827	660	12	20	on/off
641334.000.2	D 190, H 2	LED	827	660	12	37	on/off
641332.000	D 190, H 2	LED	830	810	12	12	on/off
641333.000	D 190, H 2	LED	830	810	12	20	on/off
641334.000	D 190, H 2	LED	830	810	12	37	on/off
641332.000.1	D 190, H 2	LED	840	860	12	12	on/off
641333.000.1	D 190, H 2	LED	840	860	12	20	on/off
641334.000.1	D 190, H 2	LED	840	860	12	37	on/off

In-ground luminaires | Terra Edelstahl 190

Type of Protection: **IP 68**

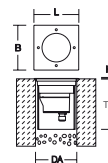
Protection Class: II

Impact Protection: IK08

Housing made of epoxy resin thermoset, stainless steel, aluminium. Square marine grade stainless steel cover, mill finish. Flush mounted toughened glass with secondary sealing glass. High performance LED refractor optics with different beam angles. Aiming can be adjusted by up to 15° from the vertical from the outside while fitting is already mounted in place and sealed. Integral vapour seal against condensed water. The interior of the housing is sealed in accordance with IP 68 even during installation. With H07RN8-F connecting cable, L 500 mm.

Use of in-ground support is necessary, please order separately

Available colour: 0 = stainless steel



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	dimmable
In-ground luminaires							Price Category 12
Cut out DA 175 mm, TE 250 mm							
Rotation symmetrical light distribution, aiming can be adjusted circularly by up to 15 degrees from outside							
641335.000.2	L 190, B 190, H 2	LED	827	660	12	12	on/off
641336.000.2	L 190, B 190, H 2	LED	827	660	12	20	on/off
641337.000.2	L 190, B 190, H 2	LED	827	660	12	37	on/off
641335.000	L 190, B 190, H 2	LED	830	810	12	12	on/off
641336.000	L 190, B 190, H 2	LED	830	810	12	20	on/off
641337.000	L 190, B 190, H 2	LED	830	810	12	37	on/off
641335.000.1	L 190, B 190, H 2	LED	840	860	12	12	on/off
641336.000.1	L 190, B 190, H 2	LED	840	860	12	20	on/off
641337.000.1	L 190, B 190, H 2	LED	840	860	12	37	on/off

In-ground support required, can be cut on site			Price Category 12
982089.003	D 172, H 500	In-ground support: plastic	

Accessories			Price Category 11
982398.003	L 81, B 35, H 35	IP 68 plug connector	
982399.003	L 170, B 71, H 35	H-distributor IP 68	

Accessories			Price Category 13
982088.030	D 132, H 12	Glass, non-slip with seal	

Replacement glass			Price Category 13
982088.020	D 132, H 12	Glass with seal	





IP68

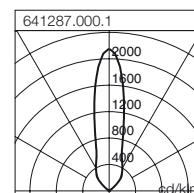
IK10

TERRA EDELSTAHL 245

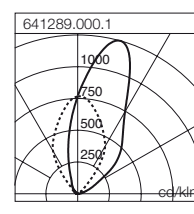
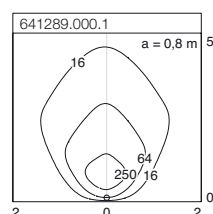
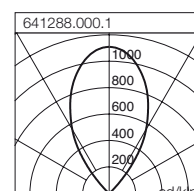
In-ground luminaires

- In-ground luminaire for pedestrian areas, maximum load 2000 kg
- Selection of circular or square shape marine grade stainless steel cover with flush mounted toughened glass
- Non corrosive pressure die-cast aluminium housing
- Flexible power cord H07-RN8F compatible with IP 68 quick connectors and cast resin boxes for electrical connection outside luminaire housing
- Housing with integral vapour seal preventing condensed water
- Choice of 3 in-ground supports for under-ground cable or cabling with empty conduits
- Slip resistant glass (R12) and anti-glare louvre available as accessories

641287.000.1		
h [m]	Ø [m]	E [lx]
5,0	2,11	154
4,0	1,69	241
3,0	1,26	428
2,0	0,84	963
1,0	0,42	3853



641288.000.1		
h [m]	Ø [m]	E [lx]
5,0	5,80	78
4,0	4,64	122
3,0	3,48	217
2,0	2,32	487
1,0	1,16	1949



In-ground luminaires | Terra Edelstahl 245

Type of Protection: **IP 68**

Protection Class: I

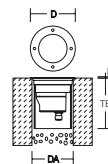
Impact Protection: IK10


Maximum Static Load: 2000 kg

Housing made of corrosion-resistant die-cast aluminium, powder-coated. Circular shape marine grade stainless steel cover and screws. Flush mounted toughened glass. High-performance LED freeform mirror optics. With H07RN8-F connecting cable, L 500 mm. Integral vapour seal against condensed water.

Use of in-ground support is necessary, please order chosen version for your application separately.

Available colour: 0 = stainless steel



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	dim-able
In-ground luminaires							
Cut out DA 225 mm, TE 145 mm							
Rotation symmetrical light distribution							
641284.000	D 245, H 2	LED	830	2300	28	24	on/off
641285.000	D 245, H 2	LED	830	2550	28	62	on/off
641284.000.1	D 245, H 2	LED	840	2200	28	24	on/off
641285.000.1	D 245, H 2	LED	840	2200	28	62	on/off
Asymmetrical light distribution							
641286.000	D 245, H 2	LED	830	2400	28		on/off
641286.000.1	D 245, H 2	LED	840	2200	28		on/off

Comparison LED vs. conventional lamps

LED 28 W ≈

1 x 150 W QT12 (150 W Psys)
1 x 42 W TC-TEL (47 W Psys)
1 x 35 W HIT (45 W Psys)

In-ground luminaires | Terra Edelstahl 245

Type of Protection: **IP 68**

Protection Class: I

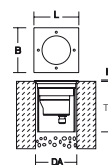
Impact Protection: IK10


Maximum Static Load: 2000 kg

Housing made of corrosion-resistant die-cast aluminium, powder-coated. Marine grade stainless steel square shaped cover and screws. Flush mounted toughened glass. High-performance LED freeform mirror optics. With H07RN8-F connecting cable, L 500 mm. Integral vapour seal against condensed water.

Use of in-ground support is necessary, please order chosen version for your application separately.

Available colour: 0 = stainless steel



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	dim-able
In-ground luminaires							
Cut out DA 225 mm, TE 145 mm							
Rotation symmetrical light distribution							
641287.000	L 245, B 245, H 2	LED	830	2150	28	24	on/off
641288.000	L 245, B 245, H 2	LED	830	2150	28	62	on/off
641287.000.1	L 245, B 245, H 2	LED	840	2200	28	24	on/off
641288.000.1	L 245, B 245, H 2	LED	840	2200	28	62	on/off
Asymmetrical light distribution							
641289.000	L 245, B 245, H 2	LED	830	2150	28		on/off
641289.000.1	L 245, B 245, H 2	LED	840	2200	28		on/off

Comparison LED vs. conventional lamps

LED 28 W ≈

1 x 150 W QT12 (150 W Psys)
1 x 42 W TC-TEL (47 W Psys)
1 x 35 W HIT (45 W Psys)

In-ground support required

Price Category 12

982011.000	D 220, H 141	In-ground support for empty conduits cabling
982013.000	D 300, H 60	Bottom closure for large in-ground support
982012.000	D 302, H 320	Large in-ground support for underground cable

Accessories

Price Category 12

982015.003	D 130, H 19	Lamellar insert
982014.010	D 185, H 15	Slip resistant glass R12



The application image shows:
Lightstream LED



Alu-Star
686-689

Lightstream LED Mini
690-691
700-701

Lightstream LED Midi
692-695
702-703

Lightstream LED Maxi
696-699
704-705

Alu-Star
706

PAR16
707



DALI



IP65

IK07



DESIGN
AWARD
2017

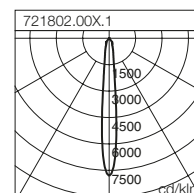
ALU-STAR

Spotlights

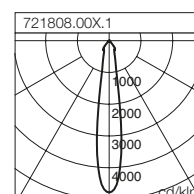
- High efficient LED outdoor floodlight by strict thermal separation of LED and driver compartment
- Reflectors made of reflex boosted **MIRO-SILVER®** with choice of four beam angles for ultimate flexibility in application
- Universal mounting position allowed due to sophisticated design details like generous space for cable placement
- Beam direction can be precisely adjusted and locked into position for tilt and rotation by a sophisticated step mechanism

- Robust outdoor operation ensured by use of high quality material like powder coated, corrosion-resistant pressure die-cast aluminium, tempered glass and stainless steel
- Seawater resistant coating
- Corrosion-resistant fixing straps of stainless steel; drill hole deviations can be easily compensated

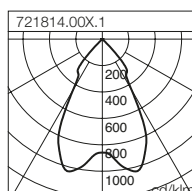
721802.00X.1			
h [m]	Ø [m]	E [lx]	
1,0	0,20	23846	
2,0	0,40	5961	
3,0	0,60	2650	
4,0	0,80	1490	
5,0	1,00	954	



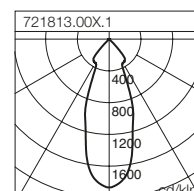
721808.00X.1			
h [m]	Ø [m]	E [lx]	
1,0	0,30	24932	
2,0	0,60	6233	
3,0	0,91	2770	
4,0	1,21	1558	
5,0	1,51	997	



721814.00X.1			
h [m]	Ø [m]	E [lx]	
1,0	1,10	6924	
2,0	2,20	1731	
3,0	3,30	769	
4,0	4,40	433	
5,0	5,50	277	



721813.00X.1			
h [m]	Ø [m]	E [lx]	
1,0	0,68	15127	
2,0	1,35	3782	
3,0	2,03	1681	
4,0	2,71	945	
5,0	3,38	605	



Further luminaires of this series, see:
Outdoor lighting | Pole luminaires

Spotlights | Alu-Star Mini

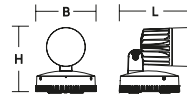
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Stainless steel fixing clips with compensation for drill hole deviations. Rotation angle can be adjusted and locked in 3 degree steps, tilt angle in 5 degree steps with angular scale. Thermally decoupled driver compartment, integral driver. Toughened glass cover. COB-LEDs with socket, selection of light colour 830 or 840. Rotation-symmetric reflector made of reflex-boosted **MIRO-SILVER®**. With membrane valve as a standard to prevent condensed water. Piano-key terminal up to 2 x 5 x 2,5 mm², max cable Ø 13 mm, comes with second cable gland for loop through.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	dim-able
Floodlight							
Spot, narrow beam							
721802.00X	L 200, B 180, H 210	LED	830	3800	42	10	on/off
721802.00X.76	L 240, B 240, H 215	LED	830	3800	42	10	DALI
721802.00X.1	L 200, B 180, H 210	LED	840	3950	42	10	on/off
721802.00X.1.76	L 240, B 240, H 215	LED	840	3950	42	10	DALI
Spot, medium beam							
721803.00X	L 200, B 180, H 210	LED	830	4550	40	26	on/off
721803.00X.76	L 240, B 240, H 215	LED	830	4550	40	26	DALI
721803.00X.1	L 200, B 180, H 210	LED	840	4650	40	26	on/off
721803.00X.1.76	L 240, B 240, H 215	LED	840	4650	40	26	DALI
Spot, wide beam							
721804.00X	L 200, B 180, H 210	LED	830	4400	40	40	on/off
721804.00X.76	L 240, B 240, H 215	LED	830	4400	40	40	DALI
721804.00X.1	L 200, B 180, H 210	LED	840	4550	40	40	on/off
721804.00X.1.76	L 240, B 240, H 215	LED	840	4550	40	40	DALI

Light colour 827 on request.

Comparison LED vs. conventional lamps

LED 40 / 42 W ≈

1 x 70 W HIT-CE (84 W Psys)

Snap-on hood			Price Category 12
982165.003	D 120, H 130	Can be rotated 360 degrees stainless steel, powder coated, black	



Louvre as push-on attachment			Price Category 12
982162.003	D 120, H 85	Can be rotated 360 degrees stainless steel, powder coated, black	



Barn door shutter with mounting attachment			Price Category 12
982168.003	L 266, B 266, H 31	Can be rotated 360 degrees stainless steel, powder coated, black	



Accessory for ground installation			Price Category 12
982241.0031	D 180, H 40, HE 400	Aluminium root with anti-sink protection and fixing set	
982242.0031	D 240, H 40, HE 400	Aluminium root with anti-sink protection and fixing set	





Spotlights | Alu-Star Midi

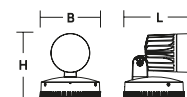
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07






Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Stainless steel fixing clips with compensation for drill hole deviations. Rotation angle can be adjusted and locked in 3,6 degree steps, tilt angle in 5 degree steps with angular scale. Thermally decoupled driver compartment, integral driver. Toughened glass cover. COB-LEDs with socket, selection of light colour 830 or 840. Rotation-symmetric reflector made of reflex-boosted **MIRO-SILVER®**. With membrane valve as a standard to prevent condensed water. Piano-key terminal up to 2 x 5 x 2,5 mm², max cable Ø 13 mm, comes with second cable gland for loop through.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Comparison LED vs. conventional lamps

LED 56 / 57 W ≈
1 x 100 W HIT-CE (115 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	dimmable
Floodlight							
Spot, narrow beam							
 721807.00X	L 255, B 240, H 255	LED	830	5100	57	10	on/off
721807.00X.76	L 255, B 240, H 255	LED	830	5100	57	10	DALI
721807.00X.1	L 255, B 240, H 255	LED	840	5250	57	10	on/off
721807.00X.1.76	L 255, B 240, H 255	LED	840	5250	57	10	DALI
Spot, medium beam							
 721808.00X	L 255, B 240, H 255	LED	830	6300	56	24	on/off
721808.00X.76	L 255, B 240, H 255	LED	830	6300	56	24	DALI
721808.00X.1	L 255, B 240, H 255	LED	840	6450	56	24	on/off
721808.00X.1.76	L 255, B 240, H 255	LED	840	6450	56	24	DALI
Spot, wide beam							
 721809.00X	L 255, B 240, H 255	LED	830	6200	56	34	on/off
721809.00X.76	L 255, B 240, H 255	LED	830	6200	56	34	DALI
721809.00X.1	L 255, B 240, H 255	LED	840	6400	56	34	on/off
721809.00X.1.76	L 255, B 240, H 255	LED	840	6400	56	34	DALI
Wide flood							
 721810.00X	L 255, B 240, H 255	LED	830	6350	56	63	on/off
721810.00X.76	L 255, B 240, H 255	LED	830	6350	56	63	DALI
721810.00X.1	L 255, B 240, H 255	LED	840	6500	56	63	on/off
721810.00X.1.76	L 255, B 240, H 255	LED	840	6500	56	63	DALI



Snap-on hood

Price Category 12

982166.003 D 160, H 170 Can be rotated 360 degrees stainless steel, powder coated, black



Louvre as push-on attachment

Price Category 12

982163.003 D 160, H 97 Can be rotated 360 degrees stainless steel, powder coated, black



Barn door shutter with mounting attachment

Price Category 12

982169.003 L 340, B 340, H 31 Can be rotated 360 degrees stainless steel, powder coated, black



Accessory for ground installation

Price Category 12

982242.0031 D 240, H 40, HE 400 Aluminium root with anti-sink protection and fixing set

Spotlights | Alu-Star Maxi

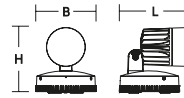
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Stainless steel fixing clips with compensation for drill hole deviations. Rotation angle can be adjusted and locked in 3,6 degree steps, tilt angle in 5 degree steps with angular scale. Thermally decoupled driver compartment, integral driver. Toughened glass cover. COB-LEDs with socket, selection of light colour 830 or 840. Rotation-symmetric reflector made of reflex-boosted **MIRO-SILVER®**. With membrane valve as a standard to prevent condensed water. Piano-key terminal up to 2 x 5 x 2,5 mm², max cable Ø 13 mm, comes with second cable gland for loop through.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	dim-able	Price Category 12
Floodlight								
Spot, narrow beam								
721811.00X	L 305, B 240, H 310	LED	830	9500	88	12	on/off	
721811.00X.76	L 305, B 240, H 310	LED	830	9500	88	12	DALI	
721811.00X.1	L 305, B 240, H 310	LED	840	9800	88	12	on/off	
721811.00X.1.76	L 305, B 240, H 310	LED	840	9800	88	12	DALI	
Spot, medium beam								
721812.00X	L 305, B 240, H 310	LED	830	9700	88	24	on/off	
721812.00X.76	L 305, B 240, H 310	LED	830	9700	88	24	DALI	
721812.00X.1	L 305, B 240, H 310	LED	840	9950	88	24	on/off	
721812.00X.1.76	L 305, B 240, H 310	LED	840	9950	88	24	DALI	
Spot, wide beam								
721813.00X	L 305, B 240, H 310	LED	830	9700	88	36	on/off	
721813.00X.76	L 305, B 240, H 310	LED	830	9700	88	36	DALI	
721813.00X.1	L 305, B 240, H 310	LED	840	10000	88	36	on/off	
721813.00X.1.76	L 305, B 240, H 310	LED	840	10000	88	36	DALI	
Wide flood								
721814.00X	L 305, B 240, H 310	LED	830	9750	88	56	on/off	
721814.00X.76	L 305, B 240, H 310	LED	830	9750	88	56	DALI	
721814.00X.1	L 305, B 240, H 310	LED	840	10000	88	56	on/off	
721814.00X.1.76	L 305, B 240, H 310	LED	840	10000	88	56	DALI	

Comparison LED vs. conventional lamps

LED 88 W ≈
1 x 150 W HIT-CE (170 W P_{sys})

Snap-on hood			Price Category 12
982167.003	D 211, H 221	Can be rotated 360 degrees stainless steel, powder coated, black	



Louvre as push-on attachment			Price Category 12
982164.003	D 211, H 100	Can be rotated 360 degrees stainless steel, powder coated, black	



Barn door shutter with mounting attachment			Price Category 12
982170.003	L 438, B 438, H 31	Can be rotated 360 degrees stainless steel, powder coated, black	



Accessory for ground installation			Price Category 12
982242.0031	D 240, H 40, HE 400	Aluminium root with anti-sink protection and fixing set	



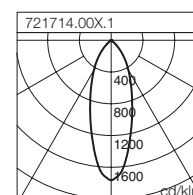


LIGHTSTREAM® LED MINI

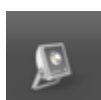
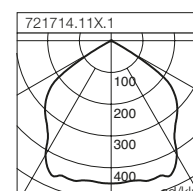
Spotlights

- Seawater resistant coating
- Peg available as accessory
- Emergency lighting version for central battery feed available
- Second cable inlet for loop through
- Mounting accessories available for pole and wall mounting

721714.00X.1		
h [m]	Ø [m]	E [lx]
1,0	0,63	3178
2,0	1,26	795
3,0	1,89	353
4,0	2,52	199
5,0	3,15	127



721714.11X.1		
h [m]	Ø [m]	E [lx]
1,0	2,66	826
2,0	5,33	207
3,0	7,99	92
4,0	10,66	52
5,0	13,32	33



Further luminaires of this series, see:
Emergency lighting | Escape route illumination

Spotlights | Lightstream LED Mini

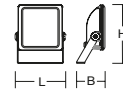
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Bracket: aluminium, powder-coated. COB LED with socket for easy replacement. Reflector made of high purity aluminium, glossy brightened and anodised. Standard Gore™ Protective Vents diaphragm valve to avoid condensation. Plano-key terminal up to 5 x 2,5 mm², max cable Ø 13 mm. Second cable gland for loop through available as accessory.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	Beam angle [°]	dimming	Icon
Projector for direct mains connection								
Spot, Rotationally symmetric medium beam light distribution								
721714.00X	L 194, B 109, H 226	LED	830	2150	23	32	on/off	
721714.00X.76	L 194, B 109, H 226	LED	830	2700	30	35	DALI	
721714.00X.1	L 194, B 109, H 226	LED	840	2200	23	32	on/off	
721714.00X.1.76	L 194, B 109, H 226	LED	840	2800	30	35	DALI	
Flood, Rotationally symmetric wide beam light distribution								
721714.11X	L 194, B 109, H 226	LED	830	2200	23	106	on/off	✓
721714.11X.76	L 194, B 109, H 226	LED	830	2750	30	101	DALI	
721714.11X.1	L 194, B 109, H 226	LED	840	2250	23	106	on/off	✓
721714.11X.1.76	L 194, B 109, H 226	LED	840	2850	30	101	DALI	

Light colour 827 on request.

Installation accessories	Price Category 11
982367.009	Cable gland M16x1,5

Accessories

Wall arm for Lightstream LED for wall mounting. Made of stainless steel, blasted or powder coated finish. Option of top or lateral mounting at frontal bracket. Hidden cabling inside tubular profile with additional inlet at wall mounting plate.

Wall bracket	Price Category 12
982058.000	L 500, B 180, H 180 Overall length 500 mm, uncoated
982058.0031	L 500, B 180, H 180 Overall length 500 mm, anthracite metallic
982086.000	L 1000, B 180, H 180 Overall length 1000 mm, uncoated
982086.0031	L 1000, B 180, H 180 Overall length 1000 mm, anthracite metallic

Accessories

Pole attachment for Lightstream LED for installation on the pole top. Steel, hot-dip galvanised, unpainted or powder coated. Set of stainless steel fixing screws included. Cable gland into the pole as strain-relief and protection against rainwater.

Pole tops	Price Category 12
Pole top fixings, single	
982047.000	L 250, B 95, H 153 for spigot 60 mm, uncoated
982047.00X	L 250, B 95, H 153 for spigot 60 mm, powder-coated
982048.000	L 250, B 95, H 153 for spigot 76 mm, uncoated
982048.00X	L 250, B 95, H 153 for spigot 76 mm, powder-coated
Pole top fixings opposite mounting	
982049.000	L 250, B 114, H 153 for spigot 60 mm, uncoated
982049.00X	L 250, B 114, H 153 for spigot 60 mm, powder-coated
982050.000	L 250, B 114, H 153 for spigot 76 mm, uncoated
982050.00X	L 250, B 114, H 153 for spigot 76 mm, powder-coated

Accessories

Mounting bracket for Lightstream LED for lateral attachment along the pole. Stainless steel bracket with galvanised screws. Smooth span width for different mounting heights. Powder coating on request.

Pole clip	Price Category 12
982090.000	L 178, B 174, H 38 for pole diameter 95 - 113 mm
982091.000	L 178, B 194, H 38 for pole diameter 114 - 132 mm

Accessories

Adapter plate set for mounting from several Lightstream spotlights on a double pole attachment. stainless steel, powder-coated. With IP 66 junction box and additional fixing screws. **The double pole attachment for a matching top dimension must be ordered separately.**

Adapter set for pole attachments	Price Category 11
982524.00X	L 365, B 365, H 55 Adapter set for 4-fold configuration (4 x 90°)

Earth spike kit	Price Category 12
981962.003	D 86, H 246

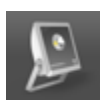
Spare glass	Price Category 12
981933.00X	L 175, B 170, H 13



LIGHTSTREAM® LED MIDI

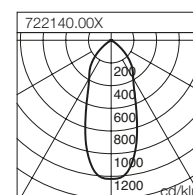
Spotlights

- Sturdy housing made of corrosion resistant pressure die cast aluminium, powder coated, with stainless steel screws.
- Seawater resistant coating
- Bracket: aluminium, powder-coated
- Quick connection possible without opening the housing by screw-less plug connector on bayonet locked slide
- Mounting accessories available for pole and wall mounting

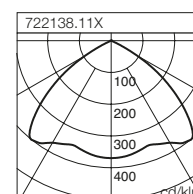


Further luminaires of this series, see:
Emergency lighting | Escape route illumination

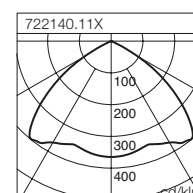
722140.00X		
h [m]	Ø [m]	E [lx]
1,0	0,76	10077
2,0	1,53	2519
3,0	2,29	1120
4,0	3,06	630
5,0	3,82	403



722138.11X		
h [m]	Ø [m]	E [lx]
1,0	2,76	1388
2,0	5,53	347
3,0	8,29	154
4,0	11,05	87
5,0	13,81	56



722140.11X		
h [m]	Ø [m]	E [lx]
1,0	2,78	2945
2,0	5,57	736
3,0	8,35	327
4,0	11,13	184
5,0	13,92	118







Spotlights | Lightstream LED Midi

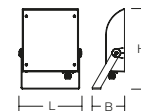
Type of Protection: IP 66

Protection Class: I

Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Bracket: aluminium, powder-coated. Tilt angle can be adjusted with angular scale. Ceramic coated toughened glass. COB LED with socket for easy replacement. Reflector made of high purity aluminium, glossy brightened and anodised. With membrane valve as a standard to avoid condensed water. Quick connection possible without opening the housing by screw-less plug connector on bayonet locked slide. Piano-key terminal up to 5 x 2,5 mm², max cable Ø 13 mm.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic

Comparison
LED vs. conventional lamps

LED 37 W ≈

1 x 50 W HIT (60 W Psys)

LED 56 W ≈

1 x 100 W HIT (106 W Psys)

LED 88 W ≈

1 x 150 W HIT (160 W Psys)



Projector for direct mains connection

Spot, Rotationally symmetric medium beam light distribution

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	Beam angle [°]	dim-able
722138.00X	L 267, B 138, H 343	LED	830	4150	37	43	on/off
722138.00X.76	L 267, B 138, H 343	LED	830	4750	37	43	DALI
722138.00X.1	L 267, B 138, H 343	LED	840	4950	37	43	on/off
722138.00X.1.76	L 267, B 138, H 343	LED	840	4950	37	43	DALI
722139.00X	L 267, B 138, H 343	LED	830	6550	56	43	on/off
722139.00X.76	L 267, B 138, H 343	LED	830	6550	56	43	DALI
722139.00X.1	L 267, B 138, H 343	LED	840	6800	56	43	on/off
722139.00X.1.76	L 267, B 138, H 343	LED	840	6800	56	43	DALI
722140.00X	L 267, B 138, H 343	LED	830	10300	88	42	on/off
722140.00X.76	L 267, B 138, H 343	LED	830	10300	88	42	DALI
722140.00X.1	L 267, B 138, H 343	LED	840	10700	88	42	on/off
722140.00X.1.76	L 267, B 138, H 343	LED	840	10700	88	42	DALI



Flood, Rotationally symmetric wide beam light distribution

722138.11X	L 267, B 138, H 343	LED	830	4700	37	108	on/off
722138.11X.76	L 267, B 138, H 343	LED	830	4700	37	108	DALI
722138.11X.1	L 267, B 138, H 343	LED	840	4900	37	108	on/off
722138.11X.1.76	L 267, B 138, H 343	LED	840	4900	37	108	DALI
722139.11X	L 267, B 138, H 343	LED	830	6450	56	109	on/off
722139.11X.76	L 267, B 138, H 343	LED	830	6450	56	109	DALI
722139.11X.1	L 267, B 138, H 343	LED	840	6700	56	109	on/off
722139.11X.1.76	L 267, B 138, H 343	LED	840	6700	56	109	DALI
722140.11X	L 267, B 138, H 343	LED	830	10100	88	109	on/off
722140.11X.76	L 267, B 138, H 343	LED	830	10100	88	109	DALI
722140.11X.1	L 267, B 138, H 343	LED	840	10500	88	109	on/off
722140.11X.1.76	L 267, B 138, H 343	LED	840	10500	88	109	DALI

Light colour 827 on request.



Zhaga

Spotlights | Lightstream LED Midi

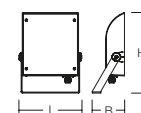
Type of Protection: IP 66

Protection Class: I

Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Bracket: aluminium, powder-coated. Tilt angle can be adjusted with angular scale. Ceramic coated toughened glass. Replaceable LED spot modules according to ZHAGA standards. With membrane valve as a standard to avoid condensed water. Quick connection possible without opening the housing by screw-less plug connector on bayonet locked slide. Piano-key terminal up to 5 x 2,5 mm², max cable Ø 13 mm.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic

Comparison
LED vs. conventional lamps

LED 52 W ≈

1 x 100 W HIT (106 W Psys)



Projector for direct mains connection

Spot, Rotationally symmetric narrow beam light distribution

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	Beam angle [°]	dim-able
722141.00X	L 267, B 138, H 343	LED	830	5650	52	13	on/off
722141.00X.76	L 267, B 138, H 343	LED	830	5650	52	13	DALI
722141.00X.1	L 267, B 138, H 343	LED	840	5900	52	13	on/off
722141.00X.1.76	L 267, B 138, H 343	LED	840	5900	52	13	DALI

Light colour 827 on request.

Accessories

Wall arm for Lightstream LED for wall mounting. Made of stainless steel, blasted or powder coated finish. Option of top or lateral mounting at frontal bracket. Hidden cabling inside tubular profile with additional inlet at wall mounting plate.

Wall bracket		Price Category 12
982058.000	L 500, B 180, H 180	Overall lenght 500 mm, uncoated
982058.0031	L 500, B 180, H 180	Overall lenght 500 mm, anthracite metallic
982086.000	L 1000, B 180, H 180	Overall lenght 1000 mm, uncoated
982086.0031	L 1000, B 180, H 180	Overall lenght 1000 mm, anthracite metallic



Accessories

Pole attachment for Lightstream LED for installation on the pole top. Steel, hot-dip galvanised, unpainted or powder coated. Set of stainless steel fixing screws included. Cable gland into the pole as strain-relief and protection against rainwater.

Pole tops		Price Category 12
Pole top fixings, single		
982047.000	L 250, B 95, H 153	for spigot 60 mm, uncoated
982047.00X	L 250, B 95, H 153	for spigot 60 mm, powder-coated
982048.000	L 250, B 95, H 153	for spigot 76 mm, uncoated
982048.00X	L 250, B 95, H 153	for spigot 76 mm, powder-coated
Pole top fixings opposite mounting		
982049.000	L 250, B 114, H 153	for spigot 60 mm, uncoated
982049.00X	L 250, B 114, H 153	for spigot 60 mm, powder-coated
982050.000	L 250, B 114, H 153	for spigot 76 mm, uncoated
982050.00X	L 250, B 114, H 153	for spigot 76 mm, powder-coated



Accessories

Mounting bracket for Lightstream LED for lateral attachment along the pole. Stainless steel bracket with galvanised srews. Smooth span width for different mounting heights. Powder coating on request.

Pole clip		Price Category 12
982092.000	L 178, B 174, H 38	for pole diameter 95 - 114 mm
982093.000	L 178, B 194, H 38	for pole diameter 115 - 135 mm



Accessories

Adapter plate set for mounting from several Lightstream spotlights on a double pole attachment. stainless steel, powder coated. With IP 66 junction box and additional fixing screws. **The double pole attachment for a matching top dimension must be ordered separately.**

Adapter set for pole attachments		Price Category 11
982524.00X	L 365, B 365, H 55	Adapter set for 4-fold configuration (4 x 90°)



Accessories

Junction box H with strain relief for cables up to max. 4 x 1.5 mm² and cable diameter Ø 0.75 mm to Ø 12 mm. 1 x In / 3 x Out, including 1 blind plug.

Junction box		Price Category 11
982638.003	L 78, B 53, H 28	



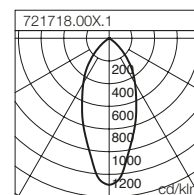


LIGHTSTREAM® LED MAXI

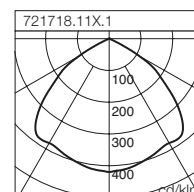
Spotlights

- LED floodlight for accent and area lighting
- Rotation-symmetric optics made of spun, glossy brightened and anodised high purity aluminium
- Rotation-symmetric medium-wide and wide beam distribution
- Housing made of corrosion-resistant pressure die-cast aluminium for outdoor application, stainless steel bracket, powder coated
- Tilt angle can be precisely adjusted and locked in 6° degrees
- Thermally decoupled driver compartment
- Quick connection possible without opening the housing by screw-less plug connector on bayonet locked slide
- COB-LEDs with socket for change on site, selection of two light colours 830 or 840
- With Gore™ Protective Vents diaphragm valve for reduction of condensation

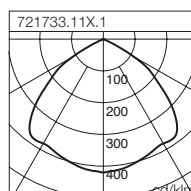
721718.00X.1		
h [m]	Ø [m]	E [lx]
1,0	0,80	25268
2,0	1,59	6317
3,0	2,39	2808
4,0	3,18	1579
5,0	3,98	1011



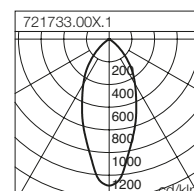
721718.11X.1		
h [m]	Ø [m]	E [lx]
1,0	2,60	8023
2,0	5,19	2006
3,0	7,79	891
4,0	10,39	501
5,0	12,99	321



721733.11X.1		
h [m]	Ø [m]	E [lx]
1,0	2,60	4028
2,0	5,19	1007
3,0	7,79	448
4,0	10,39	252
5,0	12,99	161



721733.00X.1		
h [m]	Ø [m]	E [lx]
3,0	2,39	1410
6,0	4,78	352
9,0	7,16	157
12,0	9,55	88
15,0	11,94	56







Spotlights | Lightstream LED Maxi

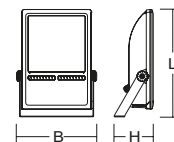
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK08

Housing made of corrosion-resistant die-cast aluminium for outdoor use, powder-coated. Bracket stainless steel, powder-coated. Tilt angle can be adjusted and locked in 6° steps with precise angular scale. Thermally decoupled driver compartment. Toughened glass cover. COB LED with socket for easy replacement. Reflector made of high purity aluminium, glossy brightened and anodised. Standard Gore™ Protective Vents diaphragm valve to avoid condensation. Quick connection possible without opening the housing by screw-less plug connector on bayonet locked slide. Piano-key terminal up to 5 x 2,5 mm², max cable Ø 13 mm. Windage area $A_w = 0.155 \text{ m}^2$.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Comparison LED vs. conventional lamps

LED 110 W ≈


1 x 150 W HIT (160 W Psys)
1 x 750 W QT-DE (750 W Psys)

LED 221 / 225 W ≈

1 x 400 W HIT (444 W Psys)
1 x 1500 W QT-DE (1500 W Psys)

LED 322 W ≈

1 x 400 W HIE (440 W Psys)

Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	dim-able
Area floodlight							
Rotationally symmetric medium beam light distribution							
721733.00X	L 501, B 374, H 182	LED	830	14400	110	45	on/off
721733.00X.76	L 501, B 374, H 182	LED	830	14400	110	45	DALI
721733.00X.1	L 501, B 374, H 182	LED	840	14900	110	45	on/off
721733.00X.1.76	L 501, B 374, H 182	LED	840	14900	110	45	DALI
721718.00X.1	L 501, B 374, H 182	LED	840	29700	221	45	on/off
721718.00X.1.76	L 501, B 374, H 182	LED	840	29700	221	45	DALI
721718.00X	L 501, B 374, H 182	LED	830	28900	225	45	on/off
721718.00X.76	L 501, B 374, H 182	LED	830	28900	225	45	DALI
722142.00X	L 501, B 374, H 182	LED	830	34100	322	45	on/off
722142.00X.76	L 501, B 374, H 182	LED	830	34100	322	45	DALI
722142.00X.1	L 501, B 374, H 182	LED	840	35000	322	45	on/off
722142.00X.1.76	L 501, B 374, H 182	LED	840	35000	322	45	DALI
Rotationally symmetric wide beam light distribution							
721733.11X	L 501, B 374, H 182	LED	830	14100	110	102	on/off
721733.11X.76	L 501, B 374, H 182	LED	830	14100	110	102	DALI
721733.11X.1	L 501, B 374, H 182	LED	840	15600	110	102	on/off
721733.11X.1.76	L 501, B 374, H 182	LED	840	15600	110	102	DALI
721718.11X.1	L 501, B 374, H 182	LED	840	29000	221	102	on/off
721718.11X.1.76	L 501, B 374, H 182	LED	840	29000	221	102	DALI
721718.11X	L 501, B 374, H 182	LED	830	28100	225	102	on/off
721718.11X.76	L 501, B 374, H 182	LED	830	28100	225	102	DALI
722142.11X	L 501, B 374, H 182	LED	830	32500	322	105	on/off
722142.11X.76	L 501, B 374, H 182	LED	830	32500	322	105	DALI
722142.11X.1	L 501, B 374, H 182	LED	840	33600	322	105	on/off
722142.11X.1.76	L 501, B 374, H 182	LED	840	33600	322	105	DALI

Price Category 12

Accessories

Pole attachment for Lightstream LED for installation on the pole top. Steel, hot-dip galvanised, unpainted or powder coated. Set of stainless steel fixing screws included. Cable gland into the pole as strain-relief and protection against rainwater.

Pole tops

Price Category 12

Pole top fixings, single

982045.000	L 346, B 97, H 154	for spigot 60 mm, uncoated
982045.00X	L 346, B 97, H 154	for spigot 60 mm, powder-coated
982002.000	L 346, B 97, H 154	for spigot 76 mm, uncoated
982002.00X	L 346, B 97, H 154	for spigot 76 mm, powder-coated
982046.000	L 346, B 110, H 204	for spigot 89 mm, uncoated
982046.00X	L 346, B 110, H 204	for spigot 89 mm, powder-coated

Pole top fixings opposite mounting

982003.000	L 346, B 112, H 154	for spigot 76 mm, uncoated
982003.00X	L 346, B 112, H 154	for spigot 76 mm, powder-coated
982004.000	L 346, B 136, H 204	for spigot 89 mm, uncoated
982004.00X	L 346, B 136, H 204	for spigot 89 mm, powder-coated
982005.000	L 346, B 136, H 204	for spigot 108 mm, uncoated
982005.00X	L 346, B 136, H 204	for spigot 108 mm, powder-coated



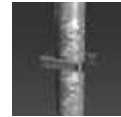
Accessories

Mounting bracket for Lightstream LED for lateral attachment along the pole. Stainless steel bracket with galvanised screws. Smooth span width for different mounting heights.

Pole clip

Price Category 12

982478.00X	L 346, B 235, H 90	for pole diameter 95 - 140 mm
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Accessories

Adapter plate set for mounting from several Lightstream spotlights on a double pole attachment. stainless steel, powder coated. With IP 66 junction box and additional fixing screws. **The double pole attachment for a matching top dimension must be ordered separately.**

Adapter set for pole attachments

Price Category 12

982525.00X	L 460, B 410, H 55	Adapter set for 4-fold configuration (4 x 90°)
982401.00X	L 525, B 381, H 87	Adapter set for 3-fold configuration (3 x 120°)



Exchange Brackets for alternative mounting method

Price Category 12

982052.00X	Bracket for Maxi, symmetrical for pole top mounting
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Accessories

Junction box H with strain relief for cables up to max. 4 x 1.5 mm² and cable diameter Ø 0.75 mm to Ø 12 mm. 1 x In / 3 x Out, including 1 blind plug.

Junction box

Price Category 11

982638.003	L 78, B 53, H 28
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Spare glass

Price Category 12

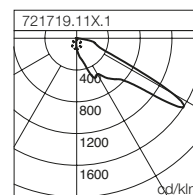
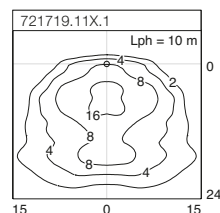
981984.00X	L 465, B 325, H 32
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LIGHTSTREAM® LED MINI

Spotlights

- Sturdy housing made of corrosion resistant pressure die cast aluminium, powder coated, with stainless steel screws.
- Bracket: aluminium, powder-coated
- Seawater resistant coating
- Asymmetrical reflector of **MIRO-SILVER®** with reflex-boosted coating
- Asymmetrical flood light distribution – **No backwards light trespass**
- Quick connection possible without opening the housing by screw-less plug connector on bayonet locked slide
- COB-LEDs with socket for change on site, selection of two light colours 830 or 840
- The comprehensive installation accessories for mounting on the pole or wall are matched exactly to the Lightstream family



Spotlights | Lightstream LED Mini

Type of Protection: **IP 66**

Protection Class: I

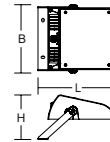
Impact Protection: IK04

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated.

Bracket: aluminium, powder-coated. Tilt angle can be adjusted with angular scale. Toughened glass cover. COB-LEDs with socket, selection of light colour 830 or 840. Asymmetrical area flood reflector of **MIRO-SILVER®** with reflex-boosted coating. With membrane valve as a standard to prevent condensed water. Quick connection possible without opening the housing by screw-less plug connector on bayonet locked slide. Piano-key terminal up to 5 x 2,5 mm², max cable Ø 13 mm. Windage area A_w = 0,023 m².

Accessories must be ordered separately.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	
Area floodlight							Price Category 12
Asymmetrical light distribution							
722143.11X	L 315, B 276, H 180	LED	830	1800	14	on/off	
722143.11X.1	L 315, B 276, H 180	LED	840	1850	14	on/off	
722144.11X	L 315, B 276, H 180	LED	830	3200	25	on/off	
722144.11X.1	L 315, B 276, H 180	LED	840	3300	25	on/off	
721719.1131	L 315, B 276, H 180	LED	830	6050	54	on/off	
721719.114.Q	L 315, B 276, H 180	LED	830	6050	54	on/off	
721719.11X.76	L 315, B 276, H 180	LED	830	6050	54	DALI	
721719.11X.1	L 315, B 276, H 180	LED	840	6200	54	on/off	
721719.11X.1.76	L 315, B 276, H 180	LED	840	6200	54	DALI	

Accessories

Wall arm for Lightstream LED for wall mounting. Made of stainless steel, blasted or powder coated finish. Option of top or lateral mounting at frontal bracket. Hidden cabling inside tubular profile with additional inlet at wall mounting plate.

Wall bracket			Price Category 12
982058.000	L 500, B 180, H 180	Overall length 500 mm, uncoated	
982058.0031	L 500, B 180, H 180	Overall length 500 mm, anthracite metallic	
982086.000	L 1000, B 180, H 180	Overall length 1000 mm, uncoated	
982086.0031	L 1000, B 180, H 180	Overall length 1000 mm, anthracite metallic	

Accessories

Pole attachment for Lightstream LED for installation on the pole top. Steel, hot-dip galvanised, unpainted or powder coated. Set of stainless steel fixing screws included. Cable gland into the pole as strain-relief and protection against rainwater.

Pole tops			Price Category 12
Pole top fixings, single			
982047.000	L 250, B 95, H 153	for spigot 60 mm, uncoated	
982047.00X	L 250, B 95, H 153	for spigot 60 mm, powder-coated	
982048.000	L 250, B 95, H 153	for spigot 76 mm, uncoated	
982048.00X	L 250, B 95, H 153	for spigot 76 mm, powder-coated	
Pole top fixings opposite mounting			
982049.000	L 250, B 114, H 153	for spigot 60 mm, uncoated	
982049.00X	L 250, B 114, H 153	for spigot 60 mm, powder-coated	
982050.000	L 250, B 114, H 153	for spigot 76 mm, uncoated	
982050.00X	L 250, B 114, H 153	for spigot 76 mm, powder-coated	

Accessories

Mounting bracket for Lightstream LED for lateral attachment along the pole. Stainless steel bracket with galvanised screws. Smooth span width for different mounting heights. Powder coating on request.

Pole clip			Price Category 12
982092.000	L 178, B 174, H 38	for pole diameter 95 - 114 mm	
982093.000	L 178, B 194, H 38	for pole diameter 115 - 135 mm	

Accessories

Adapter plate set for mounting from several Lightstream spotlights on a double pole attachment. stainless steel, powder-coated. With IP 66 junction box and additional fixing screws. **The double pole attachment for a matching top dimension must be ordered separately.**

Adapter set for pole attachments			Price Category 11
982524.00X	L 365, B 365, H 55	Adapter set for 4-fold configuration (4 x 90°)	

Accessories

Junction box H with strain relief for cables up to max. 4 x 1.5 mm² and cable diameter Ø 0.75 mm to Ø 12 mm. 1 x In / 3 x Out, including 1 blind plug.

Junction box			Price Category 11
982638.003	L 78, B 53, H 28		

Spare glass

			Price Category 11
982407.003	L 220 x B 240, H 4		

**Comparison
LED vs. conventional lamps**

LED 14 W ≈
1 x 35 W HIT (45 W Psys)

LED 25 W ≈
1 x 50 W HIT (60 W Psys)

LED 54 W ≈
1 x 100 W HIT-CE (115 W Psys)

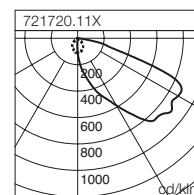
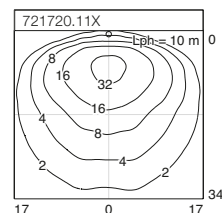




LIGHTSTREAM® LED MIDI

Spotlights

- Sturdy housing made of corrosion resistant pressure die cast aluminium, powder coated, with stainless steel screws.
- Bracket: aluminium, powder-coated
- Seawater resistant coating
- Heat sink optimised for long term LED operation
- Asymmetrical reflector of **MIRO-SILVER®** with reflex-boosted coating
- Asymmetrical flood light distribution – **No backwards light trespass**
- Quick connection possible without opening the housing by screw-less plug connector on bayonet locked slide
- COB-LEDs with socket for change on site, selection of two light colours 830 or 840
- Wide range of pole mounting accessories available



Spotlights | Lightstream LED Midi

Type of Protection: **IP 65**

Protection Class: I

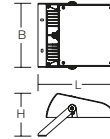
Impact Protection: IK05

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated.

Bracket: aluminium, powder-coated. Tilt angle can be adjusted with angular scale. Toughened glass cover. COB-LEDs with socket, selection of light colour 830 or 840. Asymmetrical area flood reflector of **MIRO-SILVER®** with reflex-boosted coating. With membrane valve as a standard to avoid condensed water. Quick connection possible without opening the housing by screw-less plug connector on bayonet locked slide. Piano-key terminal up to 5 x 2,5 mm², max cable Ø 13 mm. Windage area $A_w = 0,036 \text{ m}^2$.

Accessories must be ordered separately.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able	
Area floodlight							Price Category 12
Asymmetrical light distribution							
721720.11X	L 382, B 330, H 215	LED	830	12200	114	on/off	
721720.11X.76	L 382, B 330, H 215	LED	830	12200	114	DALI	
721720.11X.1	L 382, B 330, H 215	LED	840	12400	114	on/off	
721720.11X.1.76	L 382, B 330, H 215	LED	840	12400	114	DALI	



Comparison LED vs. conventional lamps

LED 114 W ≈

1 x 150 W HIT (160 W Psys)

1 x 750 W QT-DE (750 W Psys)

Accessories

Pole attachment for Lightstream LED for installation on the pole top. Steel, hot-dip galvanised, unpainted or powder coated.

Set of stainless steel fixing screws included. Cable gland into the pole as strain-relief and protection against rainwater.

Pole tops

Price Category 12

Pole top fixings, single

982047.000	L 250, B 95, H 153	for spigot 60 mm, uncoated
982047.00X	L 250, B 95, H 153	for spigot 60 mm, powder-coated
982048.000	L 250, B 95, H 153	for spigot 76 mm, uncoated
982048.00X	L 250, B 95, H 153	for spigot 76 mm, powder-coated

Pole top fixings opposite mounting

982049.000	L 250, B 114, H 153	for spigot 60 mm, uncoated
982049.00X	L 250, B 114, H 153	for spigot 60 mm, powder-coated
982050.000	L 250, B 114, H 153	for spigot 76 mm, uncoated
982050.00X	L 250, B 114, H 153	for spigot 76 mm, powder-coated



Accessories

Mounting bracket for Lightstream LED for lateral attachment along the pole. Stainless steel bracket with galvanised screws.

Smooth span width for different mounting heights. Powder coating on request.

Pole clip

Price Category 12

982092.000	L 178, B 174, H 38	for pole diameter 95 - 114 mm
982093.000	L 178, B 194, H 38	for pole diameter 115 - 135 mm



Accessories

Adapter plate set for mounting from several Lightstream spotlights on a double pole attachment. stainless steel, powder coated. With IP 66 junction box and additional fixing screws. **The double pole attachment for a matching top dimension must be ordered separately.**

Adapter set for pole attachments

Price Category 11

982524.00X	L 365, B 365, H 55	Adapter set for 4-fold configuration (4 x 90°)
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Accessories

Junction box H with strain relief for cables up to max. 4 x 1.5 mm² and cable diameter Ø 0.75 mm to Ø 12 mm.

1 x In / 3 x Out, including 1 blind plug.

Junction box

Price Category 11

982638.003	L 78, B 53, H 28
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Spare glass

Price Category 12

982275.003	L 272 x B 294, H 4
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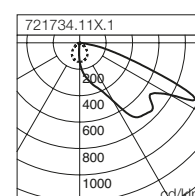
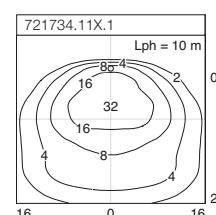
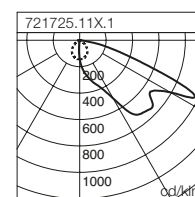
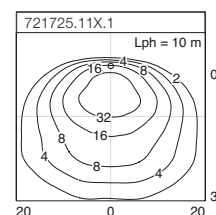


LIGHTSTREAM® LED MAXI

Spotlights

- Housing made of corrosion-resistant pressure die-cast aluminium for outdoor application, stainless steel bracket, powder coated
- Asymmetrical reflector of **MIRO-SILVER®** with reflex-boosted coating
- Asymmetrical flood light distribution – **No backwards light trespass**
- Quick connection possible without opening the housing by screw-less plug connector on bayonet locked slide

- Tilt angle can be precisely adjusted and locked in 6° degrees
- Thermally decoupled driver compartment
- COB-LEDs with socket for change on site, selection of two light colours 830 or 840
- With Gore™ Protective Vents diaphragm valve for reduction of condensation



Spotlights | Lightstream LED Maxi

Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK08

Housing made of corrosion-resistant die-cast aluminium for outdoor use, powder-coated.

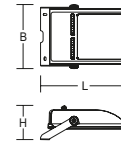
Bracket stainless steel, powder-coated. Tilt angle can be adjusted and locked in 6° steps with

precise angular scale. Thermally decoupled driver compartment. Toughened glass cover.

COB LED with socket for easy replacement. Asymmetrical area flood reflector of **MIRO-SILVER®** with reflex-boosted coating. Standard Gore™ Protective Vents diaphragm valve to avoid condensation. Plano-key terminal up to 5 x 2,5 mm², max cable Ø 13 mm. Wind-exposed area $A_w = 0.052 \text{ m}^2$.

Accessories must be ordered separately.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Area floodlight						
Asymmetrical light distribution						
721734.11X	L 509, B 374, H 174	LED	830	13400	110	on/off
721734.11X.76	L 509, B 374, H 174	LED	830	13400	110	DALI
721734.11X.1	L 509, B 374, H 174	LED	840	13900	110	on/off
721734.11X.1.76	L 509, B 374, H 174	LED	840	13900	110	DALI
721725.11X	L 509, B 374, H 174	LED	830	26600	225	on/off
721725.11X.76	L 509, B 374, H 174	LED	830	26600	225	DALI
721725.11X.1	L 509, B 374, H 174	LED	840	27900	221	on/off
721725.11X.1.76	L 509, B 374, H 174	LED	840	27900	221	DALI
722145.11X	L 509, B 374, H 174	LED	830	30600	314	on/off
722145.11X.76	L 509, B 374, H 174	LED	830	30600	314	DALI
722145.11X.1	L 509, B 374, H 174	LED	840	32100	314	on/off
722145.11X.1.76	L 509, B 374, H 174	LED	840	32100	314	DALI

Accessories

Pole attachment for Lightstream LED for installation on the pole top. Steel, hot-dip galvanised, unpainted or powder coated. Set of stainless steel fixing screws included. Cable gland into the pole as strain-relief and protection against rainwater.

Pole tops

Pole top fixings, single

982045.000	L 346, B 97, H 154	for spigot 60 mm, uncoated
982045.00X	L 346, B 97, H 154	for spigot 60 mm, powder-coated
982002.000	L 346, B 97, H 154	for spigot 76 mm, uncoated
982002.00X	L 346, B 97, H 154	for spigot 76 mm, powder-coated
982046.000	L 346, B 110, H 204	for spigot 89 mm, uncoated
982046.00X	L 346, B 110, H 204	for spigot 89 mm, powder-coated

Pole top fixings opposite mounting

982003.000	L 346, B 112, H 154	for spigot 76 mm, uncoated
982003.00X	L 346, B 112, H 154	for spigot 76 mm, powder-coated
982004.000	L 346, B 136, H 204	for spigot 89 mm, uncoated
982004.00X	L 346, B 136, H 204	for spigot 89 mm, powder-coated
982005.000	L 346, B 136, H 204	for spigot 108 mm, uncoated
982005.00X	L 346, B 136, H 204	for spigot 108 mm, powder-coated

Accessories

Mounting bracket for Lightstream LED for lateral attachment along the pole. Stainless steel bracket with galvanised screws. Smooth span width for different mounting heights.

Pole clip

982478.00X	L 346, B 235, H 90	for pole diameter 95 - 140 mm
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Accessories

Adapter plate set for mounting from several Lightstream spotlights on a double pole attachment. stainless steel, powder coated. With IP 66 junction box and additional fixing screws. **The double pole attachment for a matching top dimension must be ordered separately.**

Adapter set for pole attachments

982525.00X	L 460, B 410, H 55	Adapter set for 4-fold configuration (4 x 90°)
982401.00X	L 525, B 381, H 87	Adapter set for 3-fold configuration (3 x 120°)
982475.00X	L 622, B 284, H 55	Adapter set for 2-fold configuration (2 x 90°)

Exchange Brackets for alternative mounting method

982053.00X	Bracket for Maxi, symmetrical for pole top mounting
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Accessories

Junction box H with strain relief for cables up to max. 4 x 1.5 mm² and cable diameter Ø 0.75 mm to Ø 12 mm. 1 x In / 3 x Out, including 1 blind plug.

Junction box

982638.003	L 78, B 53, H 28
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Spare glass

981984.00X	L 465, B 325, H 32
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Comparison LED vs. conventional lamps

LED 110 W ≈

1 x 150 W HIT-CE (170 W Psys)
1 x 750 W QT-DE (750 W Psys)

LED 221 / 225 W ≈

1 x 250 W HIT-CE (280 W Psys)
1 x 400 W HIT (444 W Psys)

LED 314 W ≈

1 x 400 W HIE (440 W Psys)



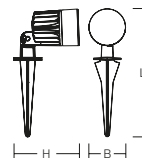


Garden spotlights | Alu-Star Mini

Type of Protection: **IP 65**
Protection Class: I
Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Peg made of fiber reinforced plastic. Tilt angle can be adjusted and locked in 5 degree steps featuring angular scale. Toughened glass cover. With mains voltage LED module. Rotation-symmetric reflector made of reflex-boosted **MIRO-SILVER®**. With membrane valve as a standard to avoid condensed water. With 5 m power supply cable, including safety plug.

Available colour: 31 = anthracite metallic



Comparison LED vs. conventional lamps

LED 20 W ≈

1 x 35 W HIT (45 W Psys)
1 x 200 W QT32 (200 W Psys)



Garden spotlights

Spot, medium beam

721806.0031

L 400, B 115, H 205

LED ⁽¹⁾

830

1550

20

18

on/off

721806.0031.1

L 400, B 115, H 205

LED ⁽¹⁾

840

1600

20

18

on/off



Spot, wide beam

721815.0031

L 400, B 115, H 205

LED ⁽¹⁾

830

1700

20

43

on/off

721815.0031.1

L 400, B 115, H 205

LED ⁽¹⁾

840

1750

20

43

on/off

Price Category 12



Snap-on hood

982165.003

D 120, H 130

Can be rotated 360 degrees stainless steel, powder coated, black

Price Category 12



Louvre as push-on attachment

982162.003

D 120, H 85

Can be rotated 360 degrees stainless steel, powder coated, black

Price Category 12



Barn door shutter with mounting attachment

982168.003

L 266, B 266, H 31

Can be rotated 360 degrees stainless steel, powder coated, black

Price Category 12

Garden spotlights | PAR16, portable

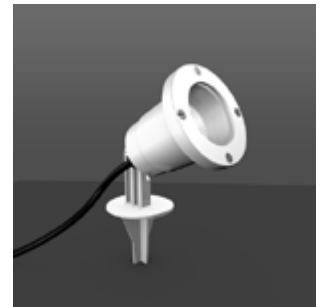
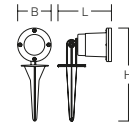
Type of Protection: **IP 55**

Protection Class: I

Impact Protection: IK04

Housing: die-cast aluminium, powder-coated. Fiber reinforced plastic peg. Safety glass, clear.
With 3 m connection cable including safety plug (Schuko).

Available colours (X): 2 = white, 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	dimmable
Garden spotlight with earth spike			Price Category 12
721680.092	L 157, B 98, H 275	LEDPAR16 5 W	on/off
721680.0931 .Q	L 157, B 98, H 275	LEDPAR16 5 W	on/off

Garden spotlights | PAR16, portable

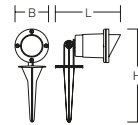
Type of Protection: **IP 55**

Protection Class: I

Impact Protection: IK04

Housing and antiglare hood: die-cast aluminium, powder-coated. Fiber reinforced plastic peg. Safety glass, clear. With 3 m connection cable including safety plug (Schuko).

Available colours (X): 2 = white, 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	dimmable
Garden spotlight with earth spike and anti-glare shield			Price Category 12
721681.09X	L 191, B 98, H 275	LEDPAR16 5 W	on/off

Garden spotlights | PAR16, portable

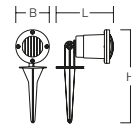
Type of Protection: **IP 55**

Protection Class: I

Impact Protection: IK04

Housing and protective grill: die-cast aluminium, powder-coated. Fiber reinforced plastic peg. Safety glass, clear. With 3 m connection cable including safety plug (Schuko).

Available colour: 31 = anthracite metallic

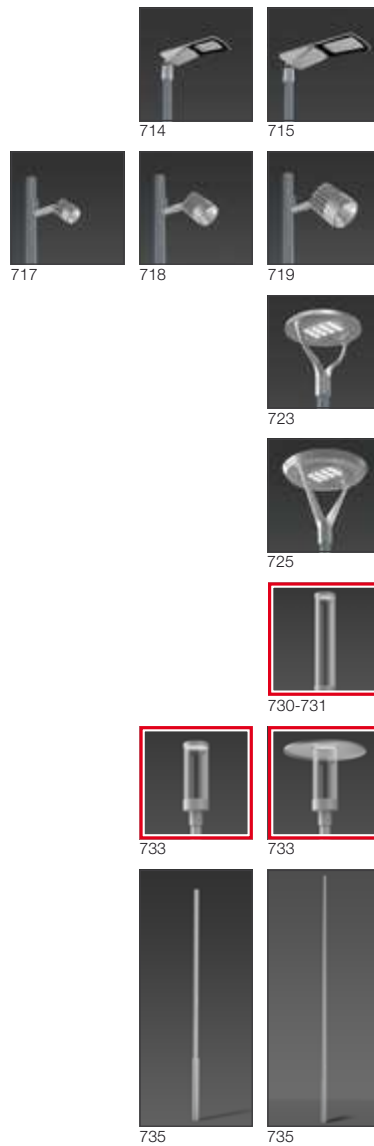


Reference number	Dimensions [mm]	Lamp	dimmable
Garden spotlight with earth spike and protective grille			Price Category 12
721682.0931	L 170, B 98, H 275	LEDPAR16 5 W	on/off



The application image shows:
Lupalo Scandia

© shutterstock



Mingata
710-715

Alu-Star
716-719

Gonia
720-723

Laruta
724-725

Lupalo
726-731

Lupalo Scandia
726-727, 732-733

Steel poles
734-735

MINGATA

Everything at a glance

Tempered safety glass (ESG)

Future-proof:
Simple LED replacement
by Zhaga standard



Housing made of corrosion resistant
pressure die-cast aluminium
(seawater resistant powder-coated)

2 mast attachments for spigot size 76 mm
(60 mm via reducing adapter) and 42 mm



Plug & Play concept for simple and safe installation:
pre-assembled 8 m connecting cable means that the
luminaire does not have to be opened for installation

Longer cable possible on request



Tool-free replacement of the gear tray
with LED and ballast thanks to Hybrid Lock System



Hybrid Lock System

- Fixed maintenance position
- Quick tool-free replacement
- No corrosion due to material mix



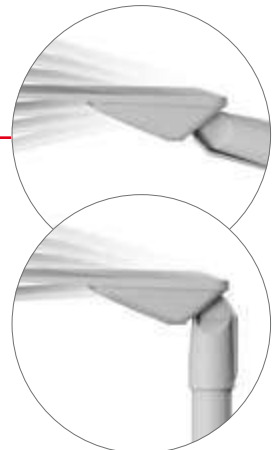
Eccentric Lock System

- Safe locking by eccentric system
- Tool-free opening
- One-handed operation



Smart Lighting

Versions with either 1 or 2 **Zhaga Book 18 / NEMA sockets** available for the integration of components for light management systems or sensors



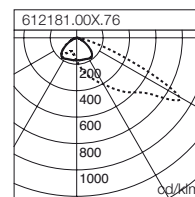
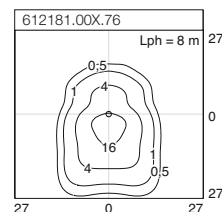
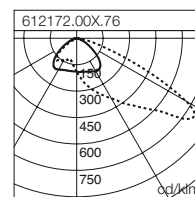
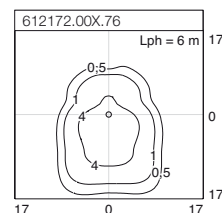
Installation on the pole as pole-top or side-mounted pole-top luminaire. Adjustable and lockable in 5° steps:
Side mounting: tilted from 0° to -30° (poles with curved bracket)
Top mounting: tilted from -5° to +15° (straight poles)



MINGATA

Outdoor luminaires and pole top luminaires

- Installation on the pole as pole-top or side-mounted pole-top luminaire. Adjustable and lockable in 5° steps:
 - Top mounting: tilted from -5° to +15° (straight poles)
 - Side mounting: tilted from 0° to -30° (poles with curved bracket)
- 2 mast attachments for spigot size 76 mm (60 mm via reducing adapter) and 42 mm
- **Dark Sky:** protects insects and the environment in general thanks to needs-based light distribution without light emitted in the upper hemisphere, thus avoiding light pollution
- **Smart lighting:** Versions with either 1 or 2 Zhaga Book 18 / NEMA sockets available for the integration of components for light management systems or sensors
- The comprehensive selection of light distributions and light outputs allows for an universal application regarding illumination of private paths, public roads up to area lighting (parking lots) according to EN 13201
- Plug & Play concept for simple and safe installation: pre-assembled 8 m connecting cable means that the luminaire does not have to be opened for installation
- Power interruption when the housing is opened
- Tool-free maintenance / replacement by Eccentric-Lock system and Hybrid-Lock-System
- Seawater resistant coating
- Control gear with integrated surge protection up to 10 kV
- Standard with CLO
- LED rated life 100,000 h (L_{CL0}) at 25°C ambient temperature
- LED rated life 50,000 h (L_{CL0}) at 50°C ambient temperature
- Up to 21,400 lm on request
- Operating range -20°C to +50°C







Comparison LED vs. conventional lamps

LED 15 W ≈

1 x 35 W HIT (45 W Psys)

LED 28 W ≈

1 x 50 W HIT (60 W Psys)

LED 45 W ≈

1 x 70 W HIT (84 W Psys)

Outdoor luminaires and pole top luminaires | Mingata Mini

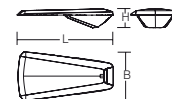
Type of Protection: IP 66

Protection Class: II

Impact Protection: IK08

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Pole-top fixing with integrated cable routing and stainless steel screws. Tilt angle can be adjusted and locked in 5 degree steps featuring angular scale. Cover clear single-pane tempered glass. With membrane valve as a standard to avoid condensed water. Tool-free maintenance / replacement by Eccentric-Lock system with disconnect plug and Hybrid-Lock-System. Light distribution optimised for road or area lighting. DALI control gear with integrated surge protection up to 10 kV. Constant light output (CLO). The converter is compatible with DC, making it ideal for central battery systems. With NFC programming interface. 4 x 1.0 mm² connecting cable included, length 8 m. Other lengths on request.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Luminaires for spigot Ø 42 mm						
Asymmetrical linear light distribution for streets and paths according to DIN EN 13201						
612191.00X.76	L 530, B 270, H 100	LED	730	2000	15	DALI
612191.00X.1.76	L 530, B 270, H 100	LED	740	2000	15	DALI
612192.00X.76	L 530, B 270, H 100	LED	730	4000	28	DALI
612192.00X.1.76	L 530, B 270, H 100	LED	740	4000	28	DALI
612193.00X.76	L 530, B 270, H 100	LED	730	6000	45	DALI
612193.00X.1.76	L 530, B 270, H 100	LED	740	6000	45	DALI
Asymmetrical narrow beam light distribution for area lighting (e.g. parking lots, loading zones)						
612194.00X.76	L 530, B 270, H 100	LED	730	2000	15	DALI
612194.00X.1.76	L 530, B 270, H 100	LED	740	2000	15	DALI
612195.00X.76	L 530, B 270, H 100	LED	730	4000	28	DALI
612195.00X.1.76	L 530, B 270, H 100	LED	740	4000	28	DALI
612196.00X.76	L 530, B 270, H 100	LED	730	6000	45	DALI
612196.00X.1.76	L 530, B 270, H 100	LED	740	6000	45	DALI
Luminaires for spigot Ø 76 mm						
Asymmetrical linear light distribution for streets and paths according to DIN EN 13201						
612171.00X.76	L 530, B 270, H 100	LED	730	2000	15	DALI
612171.00X.1.76	L 530, B 270, H 100	LED	740	2000	15	DALI
612174.00X.76	L 530, B 270, H 100	LED	730	4000	28	DALI
612174.00X.1.76	L 530, B 270, H 100	LED	740	4000	28	DALI
612177.00X.76	L 530, B 270, H 100	LED	730	6000	45	DALI
612177.00X.1.76	L 530, B 270, H 100	LED	740	6000	45	DALI
Asymmetrical narrow beam light distribution for area lighting (e.g. parking lots, loading zones)						
612172.00X.76	L 530, B 270, H 100	LED	730	2000	15	DALI
612172.00X.1.76	L 530, B 270, H 100	LED	740	2000	15	DALI
612175.00X.76	L 530, B 270, H 100	LED	730	4000	28	DALI
612175.00X.1.76	L 530, B 270, H 100	LED	740	4000	28	DALI
612178.00X.76	L 530, B 270, H 100	LED	730	6000	45	DALI
612178.00X.1.76	L 530, B 270, H 100	LED	740	6000	45	DALI

Outdoor luminaires and pole top luminaires | Mingata Midi

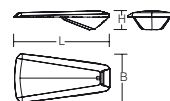
Type of Protection: **IP 66**

Protection Class: II

Impact Protection: IK08

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated. Pole-top fixing with integrated cable routing and stainless steel screws. Tilt angle can be adjusted and locked in 5 degree steps featuring angular scale. Cover clear single-pane tempered glass. With membrane valve as a standard to avoid condensed water. Tool-free maintenance / replacement by Eccentric-Lock system with disconnect plug and Hybrid-Lock-System. Light distribution optimised for road or area lighting. DALI control gear with integrated surge protection up to 10 kV. Constant light output (CLO). The converter is compatible with DC, making it ideal for central battery systems. With NFC programming interface. 4 x 1.0 mm² connecting cable included, length 8 m. Other lengths on request.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Luminaires for spigot Ø 42 mm						
Price Category 12						
Asymmetrical linear light distribution for streets and paths according to DIN EN 13201						
612200.00X.76	L 700, B 340, H 100	LED	730	8000	51	DALI
612200.00X.1.76	L 700, B 340, H 100	LED	740	8000	51	DALI
612201.00X.76	L 700, B 340, H 100	LED	730	10000	66	DALI
612201.00X.1.76	L 700, B 340, H 100	LED	740	10000	66	DALI
612202.00X.76	L 700, B 340, H 100	LED	730	12000	84	DALI
612202.00X.1.76	L 700, B 340, H 100	LED	740	12000	84	DALI
Asymmetrical narrow beam light distribution for area lighting (e.g. parking lots, loading zones)						
612203.00X.76	L 700, B 340, H 100	LED	730	8000	51	DALI
612203.00X.1.76	L 700, B 340, H 100	LED	740	8000	51	DALI
612204.00X.76	L 700, B 340, H 100	LED	730	10000	66	DALI
612204.00X.1.76	L 700, B 340, H 100	LED	740	10000	66	DALI
612205.00X.76	L 700, B 340, H 100	LED	730	12000	84	DALI
612205.00X.1.76	L 700, B 340, H 100	LED	740	12000	84	DALI

Luminaires for spigot Ø 76 mm						
Price Category 12						
Asymmetrical linear light distribution for streets and paths according to DIN EN 13201						
612180.00X.76	L 700, B 340, H 100	LED	730	8000	51	DALI
612180.00X.1.76	L 700, B 340, H 100	LED	740	8000	51	DALI
612183.00X.76	L 700, B 340, H 100	LED	730	10000	66	DALI
612183.00X.1.76	L 700, B 340, H 100	LED	740	10000	66	DALI
612186.00X.76	L 700, B 340, H 100	LED	730	12000	84	DALI
612186.00X.1.76	L 700, B 340, H 100	LED	740	12000	84	DALI
Asymmetrical narrow beam light distribution for area lighting (e.g. parking lots, loading zones)						
612181.00X.76	L 700, B 340, H 100	LED	730	8000	51	DALI
612181.00X.1.76	L 700, B 340, H 100	LED	740	8000	51	DALI
612184.00X.76	L 700, B 340, H 100	LED	730	10000	66	DALI
612184.00X.1.76	L 700, B 340, H 100	LED	740	10000	66	DALI
612187.00X.76	L 700, B 340, H 100	LED	730	12000	84	DALI
612187.00X.1.76	L 700, B 340, H 100	LED	740	12000	84	DALI

Accessories | Multiple brackets

Pole bracket for side mounting, hot-dip galvanized steel. For spigot diameter Ø 76 mm. Bracket arm length 500 mm, Ø 60 mm.

Powder coating on request. **Please order reducer adapter separately for installation on the bracket!**

Multiple brackets			Price Category 12
982588.000	L 1015, B 90, H 250	Pole bracket for 2 luminaires	
982589.000	L 894, B 787, H 250	Pole bracket for 3 luminaires	
982590.000	L 1015, B 1015, H 250	Pole bracket for 4 luminaires	



Accessories | Wall bracket

Wall bracket made of hot-dip galvanized steel. Bracket arm length 215 mm, Ø 76 mm, 75 ° vertically inclined. Powder coating on request.

Wall bracket		Price Category 12
982591.000	L 215, B 150, H 150	



Reducing adapter

982562.000	L 43, B 76, H 95	For reducing Ø 76 mm spigot size to Ø 60 mm	Price Category 12
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Fuse box

61199.009	L 265, B 72, H 75	Housing: plastic. Input for 3 cables 5 x 16 mm ² . One D01 / E14 Fuse. 2 outgoing lines.	Price Category 12
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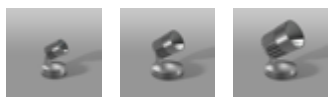




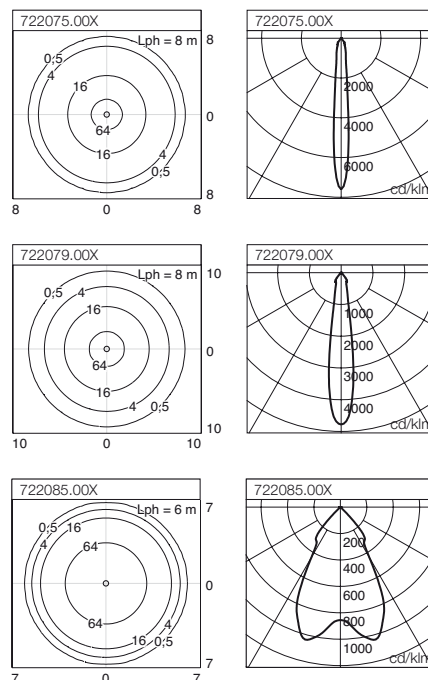
ALU-STAR

Outdoor luminaires and pole top luminaires

- Reflectors made of reflex boosted **MIRO-SILVER®** with choice of four beam angles for ultimate flexibility in application
- Beam direction can be precisely adjusted and locked into position for tilt and rotation by a sophisticated step mechanism
- Robust outdoor operation ensured by use of high quality material like powder coated, corrosion-resistant pressure die-cast aluminium, tempered glass and stainless steel
- Seawater resistant coating



Further luminaires of this series, see:
Outdoor lighting | Projectors and floodlights



Outdoor luminaires and pole top luminaires | Alu-Star Mini

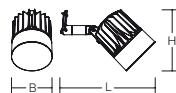
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium with extension arm, seawater resistant powder-coated. Spotlight with 8 m connecting cable. Pole mounting by means of 2 drilled holes Ø 28 mm (provided on site). Rotation angle: 318° in increments of 6°, tilt angle 90° in increments of 5°, angle scale can be adjusted and locked. Cover clear single-pane tempered glass. Rotation-symmetric reflector made of reflex-boosted **MIRO-SILVER®**. With membrane valve as a standard to avoid condensed water. With terminal block 2 x max. 2.5 mm² for mains cable max. Ø 12 mm.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	[°]	dimmable
Floodlight - 1 extension							Price Category 12
Spot, narrow beam							
722075.00X *	L 342, B 115, H 231	LED	830	3600	40	10	on/off
722075.00X.1 *	L 342, B 115, H 231	LED	840	3750	40	10	on/off
Spot, medium beam							
722076.00X	L 342, B 115, H 231	LED ⁽¹⁾	830	2950	40	26	on/off
722076.00X.1	L 342, B 115, H 231	LED ⁽¹⁾	840	3100	40	26	on/off
Spot, wide beam							
722077.00X	L 342, B 115, H 231	LED ⁽¹⁾	830	2900	40	50	on/off
722077.00X.1	L 342, B 115, H 231	LED ⁽¹⁾	840	3000	40	50	on/off
Floodlight - 2 extension set							Price Category 12
Spot, narrow beam							
722137.00X *	L 342, B 115, H 231	LED	830	7200	80	10	on/off
722137.00X.1 *	L 342, B 115, H 231	LED	840	7500	80	10	on/off

* Thermally decoupled converter unit must be integrated externally in the pole on site.

Pole attachment for 76 mm spigot			Price Category 12
982455.00X	D 100, H 237	for mounting 1 projector	
982456.00X	D 100, H 237	for mounting 2 projectors (2 x 180°)	
982457.00X	D 100, H 237	for mounting 3 projectors (3 x 120°)	
982458.00X	D 100, H 237	for mounting 4 projectors (4 x 90°)	



Snap-on hood			Price Category 12
982165.003	D 120, H 130	Can be rotated 360 degrees stainless steel, powder coated, black	



Louvre as push-on attachment			Price Category 12
982162.003	D 120, H 85	Can be rotated 360 degrees stainless steel, powder coated, black	



Barn door shutter with mounting attachment			Price Category 12
982168.003	L 266, B 266, H 31	Can be rotated 360 degrees stainless steel, powder coated, black	





Outdoor luminaires and pole top luminaires | Alu-Star Midi

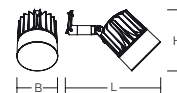
Type of Protection: IP 65


Protection Class: I

Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium with extension arm, seawater resistant powder-coated. Spotlight with 8 m connecting cable. Pole mounting by means of 2 drilled holes Ø 28 mm (provided on site). Rotation angle: 318° in increments of 6°, tilt angle 90° in increments of 5°, angle scale can be adjusted and locked. Cover clear single-pane tempered glass. Rotation-symmetric reflector made of reflex-boosted **MIRO-SILVER®**. With membrane valve as a standard to avoid condensed water. Thermally decoupled converter unit must be integrated externally in the pole on site. With terminal block 2 x max. 2.5 mm² for mains cable max. Ø 12 mm.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 dimmable	
Floodlight - 1 extension							Price Category 12
Spot, narrow beam							
722078.00X	L 400, B 153, H 270	LED	830	4750	60	9	on/off
722078.00X.1	L 400, B 153, H 270	LED	840	4900	60	9	on/off
Spot, medium beam							
722079.00X	L 400, B 153, H 270	LED	830	6250	60	17	on/off
722079.00X.1	L 400, B 153, H 270	LED	840	6500	60	17	on/off
Spot, wide beam							
722080.00X	L 400, B 153, H 270	LED	830	6200	60	34	on/off
722080.00X.1	L 400, B 153, H 270	LED	840	6450	60	34	on/off
Wide flood							
722081.00X	L 400, B 153, H 270	LED	830	6300	60	64	on/off
722081.00X.1	L 400, B 153, H 270	LED	840	6550	60	64	on/off



Floodlight - 2 extension set							Price Category 12
Spot, narrow beam							
722133.00X	L 400, B 153, H 270	LED	830	9500	120	9	on/off
722133.00X.1	L 400, B 153, H 270	LED	840	9800	120	9	on/off
Spot, medium beam							
722134.00X	L 400, B 153, H 270	LED	830	12500	120	17	on/off
722134.00X.1	L 400, B 153, H 270	LED	840	13000	120	17	on/off
Spot, wide beam							
722135.00X	L 400, B 153, H 270	LED	830	12400	120	34	on/off
722135.00X.1	L 400, B 153, H 270	LED	840	12900	120	34	on/off
Wide flood							
722136.00X	L 400, B 153, H 270	LED	830	12600	120	64	on/off
722136.00X.1	L 400, B 153, H 270	LED	840	13100	120	64	on/off



Pole attachment for 76 mm spigot							Price Category 12
982455.00X	D 100, H 237	for mounting 1 projector					
982456.00X	D 100, H 237	for mounting 2 projectors (2 x 180°)					
982457.00X	D 100, H 237	for mounting 3 projectors (3 x 120°)					
982458.00X	D 100, H 237	for mounting 4 projectors (4 x 90°)					



Snap-on hood							Price Category 12
982166.003	D 160, H 170	Can be rotated 360 degrees stainless steel, powder coated, black					



Louvre as push-on attachment							Price Category 12
982163.003	D 160, H 97	Can be rotated 360 degrees stainless steel, powder coated, black					



Barn door shutter with mounting attachment							Price Category 12
982169.003	L 340, B 340, H 31	Can be rotated 360 degrees stainless steel, powder coated, black					

Outdoor luminaires and pole top luminaires | Alu-Star Maxi

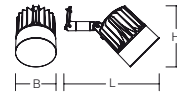
Type of Protection: **IP 65**


Protection Class: I

Impact Protection: IK07

Housing made of corrosion-resistant die-cast aluminium with extension arm, seawater resistant powder-coated. Spotlight with 8 m connecting cable. Pole mounting by means of 2 drilled holes Ø 28 mm (provided on site). Rotation angle: 318° in increments of 6°, tilt angle 90° in increments of 5°, angle scale can be adjusted and locked. Cover clear single-pane tempered glass. Rotation-symmetric reflector made of reflex-boosted **MIRO-SILVER®**. With membrane valve as a standard to avoid condensed water. Thermally decoupled converter unit must be integrated externally in the pole on site. With terminal block 2 x max. 2.5 mm² for mains cable max. Ø 12 mm.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 dimmable	
Floodlight - 1 extension							Price Category 12
Spot, narrow beam							
722082.00X	L 476, B 204, H 306	LED	830	8650	90	11	on/off
722082.00X.1	L 476, B 204, H 306	LED	840	9050	90	11	on/off
Spot, medium beam							
722083.00X	L 476, B 204, H 306	LED	830	8850	90	24	on/off
722083.00X.1	L 476, B 204, H 306	LED	840	9200	90	24	on/off
Spot, wide beam							
722084.00X	L 476, B 204, H 306	LED	830	8900	90	37	on/off
722084.00X.1	L 476, B 204, H 306	LED	840	9250	90	37	on/off
Wide flood							
722085.00X	L 476, B 204, H 306	LED	830	8900	90	57	on/off
722085.00X.1	L 476, B 204, H 306	LED	840	9250	90	57	on/off

Floodlight - 2 extension set							Price Category 12
Spot, narrow beam							
722117.00X	L 476, B 204, H 306	LED	830	17300	180	11	on/off
722117.00X.1	L 476, B 204, H 306	LED	840	18100	180	11	on/off
Spot, medium beam							
722118.00X	L 476, B 204, H 306	LED	830	17700	180	24	on/off
722118.00X.1	L 476, B 204, H 306	LED	840	18400	180	24	on/off
Spot, wide beam							
722119.00X	L 476, B 204, H 306	LED	830	17700	180	37	on/off
722119.00X.1	L 476, B 204, H 306	LED	840	18500	180	37	on/off
Wide flood							
722120.00X	L 476, B 204, H 306	LED	830	17800	180	57	on/off
722120.00X.1	L 476, B 204, H 306	LED	840	18500	180	57	on/off



Pole attachment for 76 mm spigot							Price Category 12
982455.00X	D 100, H 237	for mounting 1 projector					
982456.00X	D 100, H 237	for mounting 2 projectors (2 x 180°)					
982457.00X	D 100, H 237	for mounting 3 projectors (3 x 120°)					
982458.00X	D 100, H 237	for mounting 4 projectors (4 x 90°)					



Snap-on hood							Price Category 12
982167.003	D 211, H 221	Can be rotated 360 degrees stainless steel, powder coated, black					



Louvre as push-on attachment							Price Category 12
982164.003	D 211, H 100	Can be rotated 360 degrees stainless steel, powder coated, black					



Barn door shutter with mounting attachment							Price Category 12
982170.003	L 438, B 438, H 31	Can be rotated 360 degrees stainless steel, powder coated, black					







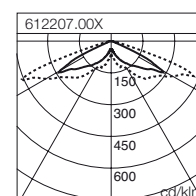
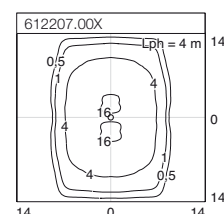
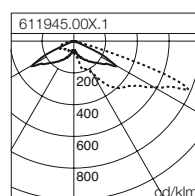
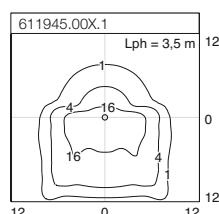
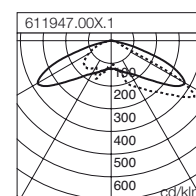
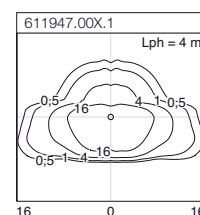
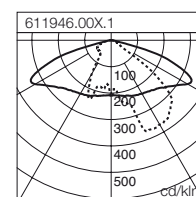
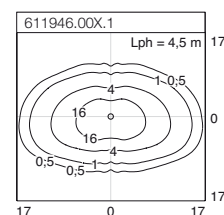
The application image shows:
Gonia



GONIA®

Pole top luminaires

- The classically linear design supports applications in small scale surroundings
- Comprehensive selection of light distributions and luminous flux enables universal application range starting with private pathways to main roads with public lighting
- **Dark Sky:** protects insects and the environment in general thanks to needs-based light distribution without light emitted in the upper hemisphere, thus avoiding light pollution
- **Smart lighting:** Versions with either 1 or 2 Zhaga Book 18 / NEMA sockets available for the integration of components for light management systems or sensors
- Standard DALI design
- Standard with CLO
- Different dim options are possible on request
- Plug & play design with pre-assembled connecting cable for easy installation and small transport volume
- Quick maintenance due to plug & play standard lighting inserts
- Seawater resistant coating
- DALI converter is compatible with DC, suitable for central battery system



Pole top luminaires | Gonia

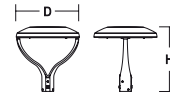
Type of Protection: **IP 65**

Protection Class: II

Impact Protection: IK07

Luminaire body aluminium, arm cast aluminium with integrated wiring and stainless steel threaded inserts (seawater resistant powder-coated). Pole attachment for 76 mm spigot. With stainless steel screws. Aluminium light insert with tempered glazing, powder coated. Twist-lock and plug connector for quick replacement. With membrane valve as a standard to avoid condensed water. Refractor optics with multichip LED. Light distribution optimised for road or area lighting. DALI control gear with integrated surge protection up to 10 kV. Constant light output (CLO). The converter is compatible with DC, making it ideal for central battery systems. With NFC programming interface. 4 x 1.0 mm² connecting cable included, length 5.5 m.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dim-able
Luminaires for spigot Ø 76 mm						
Asymmetrical linear light distribution for wide streets and paths according to DIN EN 13201						
611940.00X	D 500, H 525	LED	730	1800	24	DALI
611940.00X.1	D 500, H 525	LED	740	2100	24	DALI
611943.00X	D 500, H 525	LED	730	3450	45	DALI
611943.00X.1	D 500, H 525	LED	740	4050	45	DALI
611946.00X	D 500, H 525	LED	730	5350	65	DALI
611946.00X.1	D 500, H 525	LED	740	6200	65	DALI
611949.00X	D 500, H 525	LED	730	7050	86	DALI
611949.00X.1	D 500, H 525	LED	740	8200	86	DALI
Asymmetrical linear light distribution for narrow streets and paths according to DIN EN 13201						
611941.00X	D 500, H 525	LED	730	1800	24	DALI
611941.00X.1	D 500, H 525	LED	740	2100	24	DALI
611944.00X	D 500, H 525	LED	730	3450	45	DALI
611944.00X.1	D 500, H 525	LED	740	4050	45	DALI
611947.00X	D 500, H 525	LED	730	5300	65	DALI
611947.00X.1	D 500, H 525	LED	740	6200	65	DALI
611950.00X	D 500, H 525	LED	730	7050	86	DALI
611950.00X.1	D 500, H 525	LED	740	8250	86	DALI
Asymmetrical narrow beam light distribution on both sides for area lighting (e.g. squares, parking lots)						
612207.00X	D 500, H 525	LED	730	3600	45	DALI
612207.00X.1	D 500, H 525	LED	740	4200	45	DALI
612208.00X	D 500, H 525	LED	730	7300	86	DALI
612208.00X.1	D 500, H 525	LED	740	8500	86	DALI
Asymmetrical single-sided narrow light distribution for area lighting (e.g. squares, parking lots)						
611942.00X	D 500, H 525	LED	730	1850	24	DALI
611942.00X.1	D 500, H 525	LED	740	2150	24	DALI
611945.00X	D 500, H 525	LED	730	3600	45	DALI
611945.00X.1	D 500, H 525	LED	740	4200	45	DALI
611948.00X	D 500, H 525	LED	730	5550	65	DALI
611948.00X.1	D 500, H 525	LED	740	6450	65	DALI
611951.00X	D 500, H 525	LED	730	7300	86	DALI
611951.00X.1	D 500, H 525	LED	740	8500	86	DALI

Comparison LED vs. conventional lamps

LED 24 W ≈

1 x 35 W HIT (45 W Psys)

LED 45 W ≈

1 x 70 W HIT (84 W Psys)

LED 65 W ≈

1 x 100 W HIT (106 W Psys)

LED 86 W ≈

1 x 150 W HIT (160 W Psys)

Reducing adapter

Price Category 12

982436.000	D 77, H 90	Spigot adapter for mounting Ø 76 mm pole-top on Ø 60 mm spigot, with 6 headless screws for replacement. Stainless steel, uncoated.
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Fuse box

Price Category 12

61199.009	L 265, B 72, H 75	Housing: plastic. Input for 3 cables 5 x 16 mm ² . One D01 / E14 Fuse. 2 outgoing lines.
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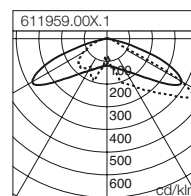
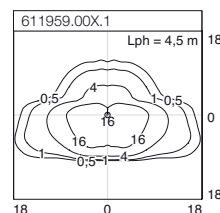
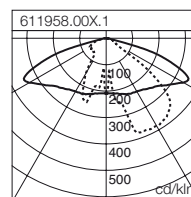
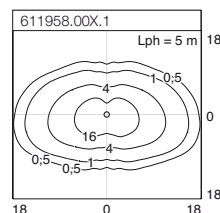
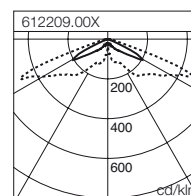
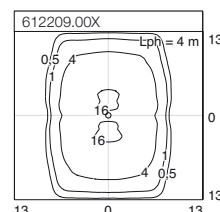
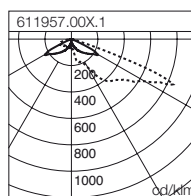
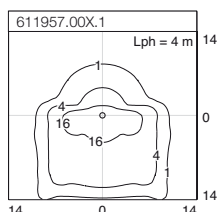




LARUTA®

Pole top luminaires

- The elegant linear shape excellently suits modern architecture
- Comprehensive selection of light distributions and luminous flux enables universal application range starting with private pathways to main roads with public lighting
- **Dark Sky:** protects insects and the environment in general thanks to needs-based light distribution without light emitted in the upper hemisphere, thus avoiding light pollution
- **Smart lighting:** Versions with either 1 or 2 Zhaga Book 18 / NEMA sockets available for the integration of components for light management systems or sensors
- Standard DALI design
- Standard with CLO
- Different dim options are possible on request
- Plug & play design with pre-assembled connecting cable for easy installation and small transport volume
- Quick maintenance due to plug & play standard lighting inserts
- Seawater resistant coating
- DALI converter is compatible with DC, suitable for central battery system



Pole top luminaires | Laruta

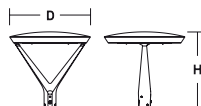
Type of Protection: **IP 65**

Protection Class: II

Impact Protection: IK07

Luminaire body aluminium, arm cast aluminium with integrated wiring and stainless steel threaded inserts (seawater resistant powder-coated). Pole attachment for 76 mm spigot. With stainless steel screws. Aluminium light insert with tempered glazing, powder coated. Twist-lock and plug connector for quick replacement. With membrane valve as a standard to avoid condensed water. Refractor optics with multichip LED. Light distribution optimised for road or area lighting. DALI control gear with integrated surge protection up to 10 kV. Constant light output (CLO). The converter is compatible with DC, making it ideal for central battery systems. With NFC programming interface. 4 x 1.0 mm² connecting cable included, length 5.5 m.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Luminaires for spigot Ø 76 mm						
Price Category 12						
Asymmetrical linear light distribution for wide streets and paths according to DIN EN 13201						
611952.00X	D 650, H 610	LED	730	1750	24	DALI
611952.00X.1	D 650, H 610	LED	740	2050	24	DALI
611955.00X	D 650, H 610	LED	730	3400	45	DALI
611955.00X.1	D 650, H 610	LED	740	3950	45	DALI
611958.00X	D 650, H 610	LED	730	5200	65	DALI
611958.00X.1	D 650, H 610	LED	740	6050	65	DALI
611961.00X	D 650, H 610	LED	730	6900	86	DALI
611961.00X.1	D 650, H 610	LED	740	8000	86	DALI
Asymmetrical linear light distribution for narrow streets and paths according to DIN EN 13201						
611953.00X	D 650, H 610	LED	730	1750	24	DALI
611953.00X.1	D 650, H 610	LED	740	2050	24	DALI
611956.00X	D 650, H 610	LED	730	3400	45	DALI
611956.00X.1	D 650, H 610	LED	740	3950	45	on/off
611959.00X	D 650, H 610	LED	730	5250	65	DALI
611959.00X.1	D 650, H 610	LED	740	6100	65	DALI
611962.00X	D 650, H 610	LED	730	6950	86	DALI
611962.00X.1	D 650, H 610	LED	740	8050	86	DALI
Asymmetrical narrow beam light distribution on both sides for area lighting (e.g. squares, parking lots)						
612209.00X	D 650, H 610	LED	730	3600	45	DALI
612209.00X.1	D 650, H 610	LED	740	4200	45	DALI
612210.00X	D 650, H 610	LED	730	7200	86	DALI
612210.00X.1	D 650, H 610	LED	740	8400	86	DALI
Asymmetrical single-sided narrow light distribution for area lighting (e.g. squares, parking lots)						
611954.00X	D 650, H 610	LED	730	1850	24	DALI
611954.00X.1	D 650, H 610	LED	740	2150	24	DALI
611957.00X	D 650, H 610	LED	730	3600	45	DALI
611957.00X.1	D 650, H 610	LED	740	4200	45	DALI
611960.00X	D 650, H 610	LED	730	5500	65	DALI
611960.00X.1	D 650, H 610	LED	740	6400	65	DALI
611963.00X	D 650, H 610	LED	730	7200	86	DALI
611963.00X.1	D 650, H 610	LED	740	8400	86	DALI

Reducers

Price Category 12

982436.000	D 77, H 90	Spigot adaptor for mounting Ø 76 mm pole-top on Ø 60 mm spigot, with 6 headless screws for replacement. Stainless steel, uncoated.
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Fuse box

Price Category 12

61199.009	L 265, B 72, H 75	Housing: plastic. Input for 3 cables 5 x 16 mm ² . One D01 / E14 Fuse. 2 outgoing lines.
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Comparison LED vs. conventional lamps

LED 24 W ≈

1 x 35 W HIT (45 W Psys)

LED 45 W ≈

1 x 70 W HIT (84 W Psys)

LED 65 W ≈

1 x 100 W HIT (106 W Psys)

LED 86 W ≈

1 x 150 W HIT (160 W Psys)

LUPALO® | LUPALO® SCANDIA

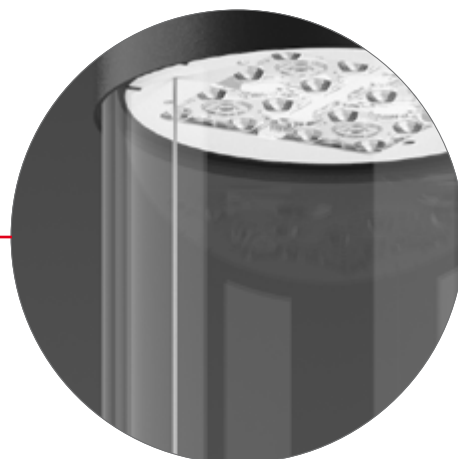
Everything at a glance

Depending on personal taste and the area of installation, LUPALO can be used as a bollard, stack or pole-top luminaire. When the optional top roof is added to the latter, it produces a symbolic, almost archetypal effect ... without losing its characteristically modern simplicity.

LUPALO

Non-yellowing glass cylinder for consistently high light transmission

Optically elegant power supply via delicate steel cable between control gear and LED, thus reducing shadows



LUPALO

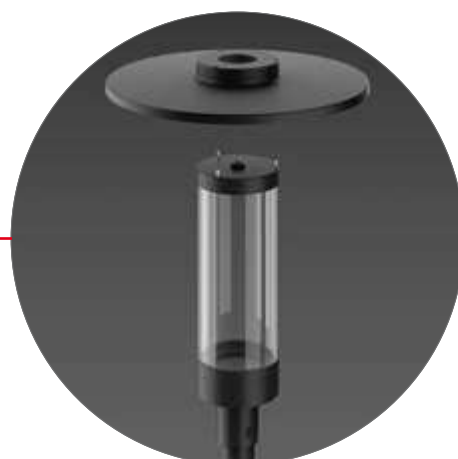
Alternatively clear **impact resistant PMMA cylinder**



LUPALO SCANDIA

Top roof made of aluminum, seawater-resistant powder-coated with 3 keyholes

Flexible design: Optionally as standard version in a simple cylinder shape or in a classic lantern design with an top roof which is available as accessory



Zhaga

NEMA

Smart Lighting

Versions with either 1 or 2 **Zhaga Book 18 / NEMA sockets** available for the integration of components for light management systems or sensors



Dark Sky

Protects insects and the environment thanks to needs-based light distribution without light emitted in the upper hemisphere, thus avoiding light pollution

Multichip-LED with high performance refractor optics, selection of light distribution optimised for road or area lighting



Converter integrated in the luminaire head.

DALI dimmable, CLO as standard, integrated surge protection and various dim options

DALI converter is compatible with DC, suitable for central battery system



Bollard tube made of corrosion-resistant aluminum profile, seawater-resistant powder-coated

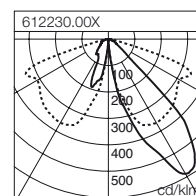
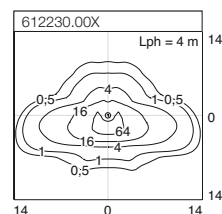
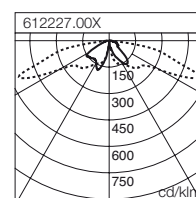
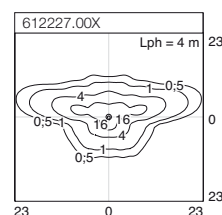
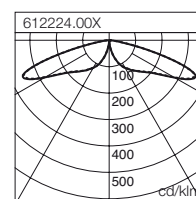
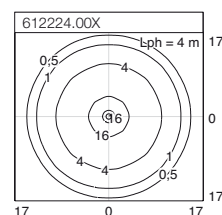


LUPALO®

Light stack

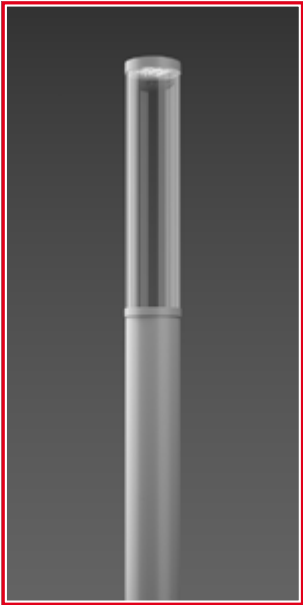
- Light stack for public places such as pedestrian areas, squares, bridges, parks and car parks
- **Dark Sky:** Protects insects and the environment thanks to needs-based light distribution without light emitted in the upper hemisphere, thus avoiding light pollution
- **Smart lighting:** Versions with either 1 or 2 Zhaga Book 18 / NEMA sockets available for the integration of components for light management systems or sensors
- Non-yellowing glass cylinder or clear impact resistant PMMA cylinder
- Seawater resistant coating

- Tube made of aluminum profile with access door to the junction box or fuse box (optional)
- Multichip-LED with high performance refractor optics, selection of light distribution optimised for road or area lighting
- Control gear with integrated surge protection up to 10 kV
- DALI converter is compatible with DC, suitable for central battery system
- Standard with CLO
- LED rated life 100,000 h (L_{CL0}) at 25°C ambient temperature
- Different dim options are possible on request



Further luminaires of this series, see:
Outdoor lighting | Bollards





Comparison
LED vs. conventional lamps

LED 55 W ≈
1 x 70 W HIT (84 W Psys)
1 x 300 W QT-DE (300 W Psys)

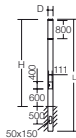
Light stack | Lupalo

Type of Protection: **IP 65**
Protection Class: II
Impact Protection: IK06

Tube made of aluminium profile with access door and buried base. Luminaire head made of corrosion resistant die-cast aluminium, seawater resistant powder-coated, stainless steel screws. Diffuser: glass, transparent. With membrane valve as a standard to avoid condensed water. Multi-chip LED with high-performance refractor optics. Light distribution optimised for road or area lighting. Elegant-looking power supply via delicate steel cables between converter and LED. DALI control gear with integrated surge protection up to 10 kV. Constant light output (CLO). The converter is compatible with DC, making it ideal for central battery systems. With NFC programming interface. Converter integrated in the luminaire head. With C-track for cable fuse box behind the mast door. Alternatively with base plate on request.

Please order fuse box separately.

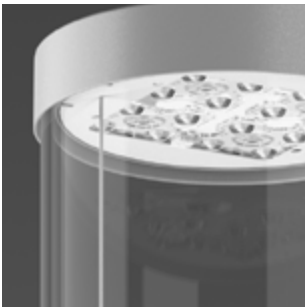
Available colours (X): 31 = anthracite metallic, 4 = silver metallic



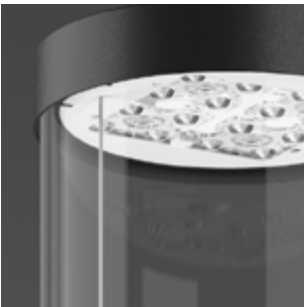
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Light stacks						
Asymmetrical linear light distribution for narrow streets and paths according to DIN EN 13201						
Height H 4000 mm						
612227.00X	D 187, L 4800, H 4000	LED	730	5150	55	DALI
612227.00X.1	D 187, L 4800, H 4000	LED	740	5450	55	DALI
Height H 4500 mm						
612228.00X	D 187, L 5300, H 4500	LED	730	5150	55	DALI
612228.00X.1	D 187, L 5300, H 4500	LED	740	5450	55	DALI
Height H 5000 mm						
612229.00X	D 187, L 5800, H 5000	LED	730	5150	55	DALI
612229.00X.1	D 187, L 5800, H 5000	LED	740	5450	55	DALI
Asymmetrical linear light distribution for wide streets and paths according to DIN EN 13201						
Height H 4000 mm						
612230.00X	D 187, L 4800, H 4000	LED	730	5250	55	DALI
612230.00X.1	D 187, L 4800, H 4000	LED	740	5550	55	DALI
Height H 4500 mm						
612231.00X	D 187, L 5300, H 4500	LED	730	5250	55	DALI
612231.00X.1	D 187, L 5300, H 4500	LED	740	5550	55	DALI
Height H 5000 mm						
612232.00X	D 187, L 5800, H 5000	LED	730	5250	55	DALI
612232.00X.1	D 187, L 5800, H 5000	LED	740	5550	55	DALI
Symmetrical light distribution for area lighting (e.g. squares, pedestrian zones)						
Height H 4000 mm						
612224.00X	D 187, L 4800, H 4000	LED	730	5550	55	DALI
612224.00X.1	D 187, L 4800, H 4000	LED	740	5800	55	DALI
Height H 4500 mm						
612225.00X	D 187, L 5300, H 4500	LED	730	5550	55	DALI
612225.00X.1	D 187, L 5300, H 4500	LED	740	5800	55	DALI
Height H 5000 mm						
612226.00X	D 187, L 5800, H 5000	LED	730	5550	55	DALI
612226.00X.1	D 187, L 5800, H 5000	LED	740	5800	55	DALI



Fuse box			Price Category 12
61199.009	L 265, B 72, H 75	Housing: plastic. Input for 3 cables 5 x 16 mm². One D01 / E14 Fuse. 2 outgoing lines.	



Diffuser: glass, transparent



Light stack | Lupalo

Type of Protection: IP 65

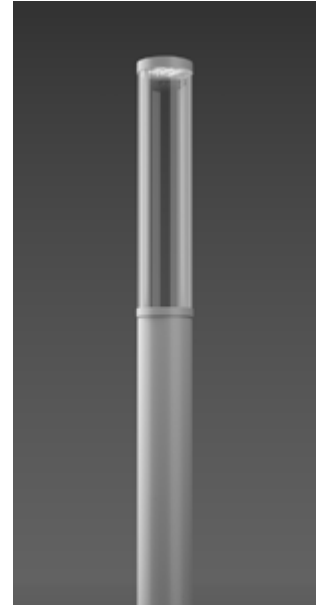
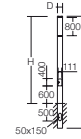
Protection Class: II

Impact Protection: IK08

Tube made of aluminium profile with access door and buried base. Luminaire head made of corrosion resistant die-cast aluminium, seawater resistant powder-coated, stainless steel screws. Clear, impact resistant PMMA diffuser. With membrane valve as a standard to avoid condensed water. Multi-chip LED with high-performance refractor optics. Light distribution optimised for road or area lighting. DALI control gear with integrated surge protection up to 10 kV. Constant light output (CLO). The converter is compatible with DC, making it ideal for central battery systems. With NFC programming interface. Converter integrated in the luminaire head. With C-track for cable fuse box behind the mast door. Alternatively with base plate on request.

Please order fuse box separately.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Light stacks						
Asymmetrical linear light distribution for narrow streets and paths according to DIN EN 13201						
Height H 4000 mm						
612121.00X	D 187, L 4800, H 4000	LED	730	4900	55	DALI
612121.00X.1	D 187, L 4800, H 4000	LED	740	5150	55	DALI
Height H 4500 mm						
612122.00X	D 187, L 5300, H 4500	LED	730	4900	55	DALI
612122.00X.1	D 187, L 5300, H 4500	LED	740	5150	55	DALI
Height H 5000 mm						
612123.00X	D 187, L 5800, H 5000	LED	730	4900	55	DALI
612123.00X.1	D 187, L 5800, H 5000	LED	740	5150	55	DALI
Asymmetrical linear light distribution for wide streets and paths according to DIN EN 13201						
Height H 4000 mm						
612274.00X	D 187, L 4800, H 4000	LED	730	5050	55	DALI
612274.00X.1	D 187, L 4800, H 4000	LED	740	5350	55	DALI
Height H 4500 mm						
612275.00X	D 187, L 5300, H 4500	LED	730	5050	55	DALI
612275.00X.1	D 187, L 5300, H 4500	LED	740	5350	55	DALI
Height H 5000 mm						
612276.00X	D 187, L 5800, H 5000	LED	730	5050	55	DALI
612276.00X.1	D 187, L 5800, H 5000	LED	740	5350	55	DALI
Symmetrical light distribution for area lighting (e.g. squares, pedestrian zones)						
Height H 4000 mm						
612118.00X	D 187, L 4800, H 4000	LED	730	5550	56	DALI
612118.00X.1	D 187, L 4800, H 4000	LED	740	5850	56	DALI
Height H 4500 mm						
612119.00X	D 187, L 5300, H 4500	LED	730	5550	56	DALI
612119.00X.1	D 187, L 5300, H 4500	LED	740	5850	56	DALI
Height H 5000 mm						
612120.00X	D 187, L 5800, H 5000	LED	730	5550	56	DALI
612120.00X.1	D 187, L 5800, H 5000	LED	740	5850	56	DALI

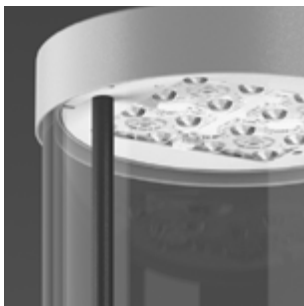
Comparison LED vs. conventional lamps

LED 55 / 56 W ≈

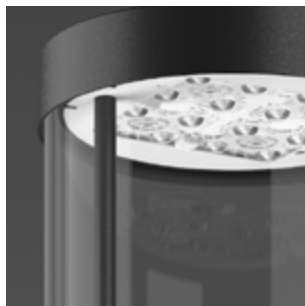
1 x 70 W HIT (84 W Psys)

1 x 300 W QT-DE (300 W Psys)

Fuse box			Price Category 12
61199.009	L 265, B 72, H 75	Housing: plastic. Input for 3 cables 5 x 16 mm ² . One D01 / E14 Fuse. 2 outgoing lines.	



Clear, impact resistant PMMA diffuser





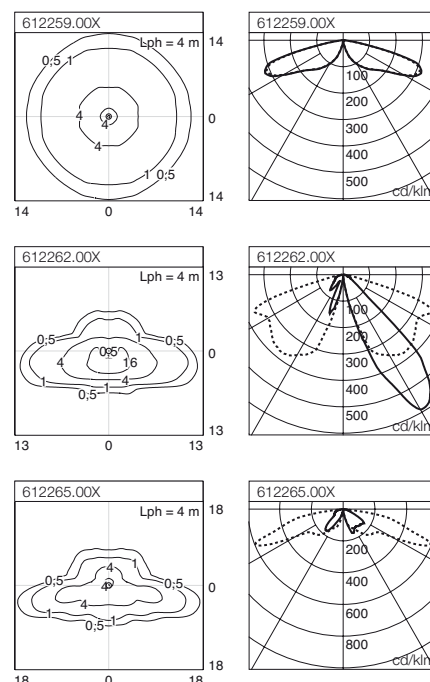
LUPALO® SCANDIA

Pole top luminaires

- Pole-top luminaire with classic design and modern LED technology
- The comprehensive selection of light distributions and light outputs allows for an universal application regarding illumination of private paths, public roads up to area lighting (parking lots) according to EN 13201
- **Dark Sky:** Protects insects and the environment thanks to needs-based light distribution without light emitted in the upper hemisphere, thus avoiding light pollution
- **Smart lighting:** Versions with either 1 or 2 Zhaga Book 18 / NEMA sockets available for the integration of components for light management systems or sensors
- Seawater resistant coating
- Optically elegant power supply via delicate steel cable between control gear and LED, thus reducing shadows
- Control gear with integrated surge protection up to 10 kV
- Different dim options are possible on request
- DALI converter is compatible with DC, suitable for central battery system
- Standard with CLO
- LED rated life 100,000 h (L_{CLO}) at 25°C ambient temperature
- Flexible design: Optionally as standard version in a simple cylinder shape or in a classic lantern design with an top roof which is available as accessory



Further luminaires of this series, see:
Outdoor lighting | Bollards



Pole top luminaires | Lupalo Scandia

Type of Protection: **IP 66**

Protection Class: II

Impact Protection: IK06

Housing made of corrosion-resistant die-cast aluminium, seawater resistant powder-coated.

Pole attachment for 76 mm spigot. With stainless steel screws. Diffuser: glass, transparent.

With membrane valve as a standard to avoid condensed water. Refractor optics with multichip

LED. Light distribution optimised for road or area lighting. Elegant-looking power supply via delicate

steel cables between converter and LED. DALI control gear with integrated surge protection up to

10 kV. Constant light output (CLO). The converter is compatible with DC, making it ideal for central

battery systems. With NFC programming interface. Converter integrated in the luminaire head.

Pre-assembled connection cable, length 6 m.

Please order reducer for pole clamp D 60 mm separately.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Pole top luminaires						
Asymmetrical linear light distribution for narrow streets and paths according to DIN EN 13201						
612265.00X	D 187, H 572	LED	730	1600	14	on/off
612265.00X.76	D 187, H 572	LED	730	1600	14	DALI
612265.00X.1	D 187, H 572	LED	740	1650	14	on/off
612265.00X.1.76	D 187, H 572	LED	740	1650	14	DALI
612266.00X	D 187, H 572	LED	730	2250	20	on/off
612266.00X.76	D 187, H 572	LED	730	2250	20	DALI
612266.00X.1	D 187, H 572	LED	740	2400	20	on/off
612266.00X.1.76	D 187, H 572	LED	740	2400	20	DALI
612267.00X	D 187, H 572	LED	730	3700	35	on/off
612267.00X.76	D 187, H 572	LED	730	3700	35	DALI
612267.00X.1	D 187, H 572	LED	740	3900	35	on/off
612267.00X.1.76	D 187, H 572	LED	740	3900	35	DALI
Asymmetrical linear light distribution for wide streets and paths according to DIN EN 13201						
612262.00X	D 187, H 572	LED	730	1550	14	on/off
612262.00X.76	D 187, H 572	LED	730	1550	14	DALI
612262.00X.1	D 187, H 572	LED	740	1650	14	on/off
612262.00X.1.76	D 187, H 572	LED	740	1650	14	DALI
612263.00X	D 187, H 572	LED	730	2250	20	on/off
612263.00X.76	D 187, H 572	LED	730	2250	20	DALI
612263.00X.1	D 187, H 572	LED	740	2350	20	on/off
612263.00X.1.76	D 187, H 572	LED	740	2350	20	DALI
612264.00X	D 187, H 572	LED	730	3650	35	on/off
612264.00X.76	D 187, H 572	LED	730	3650	35	DALI
612264.00X.1	D 187, H 572	LED	740	3850	35	on/off
612264.00X.1.76	D 187, H 572	LED	740	3850	35	DALI
Symmetrical light distribution for area lighting (e.g. squares, pedestrian zones)						
612259.00X	D 187, H 572	LED	730	1750	14	on/off
612259.00X.76	D 187, H 572	LED	730	1750	14	DALI
612259.00X.1	D 187, H 572	LED	740	1800	14	on/off
612259.00X.1.76	D 187, H 572	LED	740	1800	14	DALI
612260.00X	D 187, H 572	LED	730	2450	20	on/off
612260.00X.76	D 187, H 572	LED	730	2450	20	DALI
612260.00X.1	D 187, H 572	LED	740	2600	20	on/off
612260.00X.1.76	D 187, H 572	LED	740	2600	20	DALI
612261.00X	D 187, H 572	LED	730	4100	35	on/off
612261.00X.76	D 187, H 572	LED	730	4100	35	DALI
612261.00X.1	D 187, H 572	LED	740	4300	35	on/off
612261.00X.1.76	D 187, H 572	LED	740	4300	35	DALI

Comparison LED vs. conventional lamps

LED 14 W ≈

1 x 35 W HIT (45 W Psys)

LED 20 W ≈

1 x 50 W HIT (60 W Psys)

LED 35 W ≈

1 x 70 W HIT (84 W Psys)

Top roof

Price Category 12

982752.00X D 601, H 66 Aluminum, seawater-resistant powder-coated with 3 keyholes

Reducing adapters

Price Category 12

982762.000 D 84, H 85 Spigot adaptor for mounting Ø 76 mm pole-top on Ø 60 mm spigot, with 2 headless screws.



Top roof



STEEL POLES

Accessories

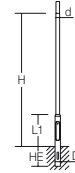
- CE-certified steel poles, compliant with EN 40, with continuous buried base as a standard, on request available with flange plate
- Precise door cut out for accurate flush fitting
- Powder-coated with RZB standard colours for optimum consistency with the luminaire paint, RAL colours possible on request
- Careful smoothing of the visible area as pre-treatment for powder-coating
- Direct transport with special vehicles from the production plant to the place of delivery to avoid transport damage

Accessories | Steel poles, spigot Ø: 76 mm

Cylindrical stepped pole made of steel according to DIN EN 40. Hot-dip galvanised in compliance with DIN EN ISO 1461. Flush pole door, 85 x 400 mm. Triangular lock, other locks on request. C-slot with two sliding nuts M6 and earthing stud M8. Cable hole 50 x 150 mm (UKK 500 mm below level).

We charge additional shipping costs for small quantities up to 5 poles per place of delivery, regardless of the order value. Please ask for exact conditions for specific orders.

Available colours (X): 0 = uncoated, 31 = anthracite metallic, 4 = silver metallic



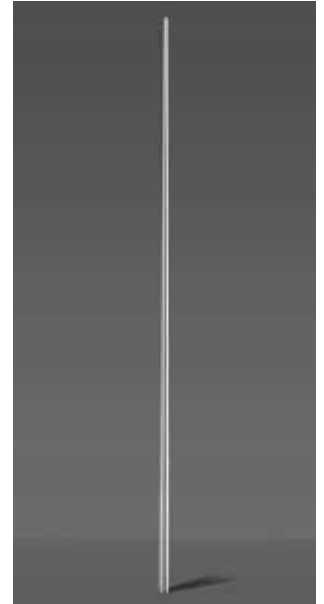
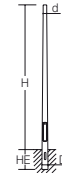
Reference number	Dimensions [mm]		Price Category 12
Straight light poles cylindrical, stepped with swaged joint, according to EN 40			
611891.000	D 114, H 3500, HE 600	uncoated	
611891.00X	D 114, H 3500, HE 600	powder-coated	
611892.000	D 114, H 4000, HE 800	uncoated	
611892.00X	D 114, H 4000, HE 800	powder-coated	
611893.000	D 114, H 4500, HE 800	uncoated	
611893.00X	D 114, H 4500, HE 800	powder-coated	
611894.000	D 114, H 5000, HE 800	uncoated	
611894.00X	D 114, H 5000, HE 800	powder-coated	
611895.000	D 114, H 6000, HE 1000	uncoated	
611895.00X	D 114, H 6000, HE 1000	powder-coated	

Accessories | Steel poles, spigot Ø: 76 mm

Conical steel pole, according to DIN EN 40. Hot-dip galvanised in compliance with DIN EN ISO 1461. Flush pole door, 85 x 400 mm. Triangular lock, other locks on request. C-slot with two sliding nuts M6 and earthing stud M8. Cable hole 50 x 150 mm (UKK 500 mm below level).

We charge additional shipping costs for small quantities up to 5 poles per place of delivery, regardless of the order value. Please ask for exact conditions for specific orders.

Available colours (X): 0 = uncoated, 31 = anthracite metallic, 4 = silver metallic



Reference number	Dimensions [mm]		Price Category 12
Straight light poles conical round according to EN40			
611896.000	D 134, H 3500, HE 600	uncoated	
611896.00X	D 134, H 3500, HE 600	powder-coated	
611897.000	D 124, H 4000, HE 800	uncoated	
611897.00X	D 124, H 4000, HE 800	powder-coated	
611898.000	D 129, H 4500, HE 800	uncoated	
611898.00X	D 129, H 4500, HE 800	powder-coated	
611899.000	D 134, H 5000, HE 800	uncoated	
611899.00X	D 134, H 5000, HE 800	powder-coated	
611900.000	D 146, H 6000, HE 1000	uncoated	
611900.00X	D 146, H 6000, HE 1000	powder-coated	
611901.000	D 156, H 7000, HE 1000	uncoated	
611901.00X	D 156, H 7000, HE 1000	powder-coated	
611902.000	D 168, H 8000, HE 1200	uncoated	
611902.00X	D 168, H 8000, HE 1200	powder-coated	
611903.000	D 191, H 10000, HE 1500	uncoated	
611903.00X	D 191, H 10000, HE 1500	powder-coated	

Base plate set			Price Category 12
982099.000	L 300, B 300, H 3	loose incl. fastening screws	
982100.000	L 400, B 400, H 3	loose incl. fastening screws	



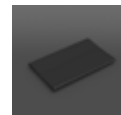
Fuse box			Price Category 12
61199.009	L 265, B 72, H 75	Housing: plastic. Input for 3 cables 5 x 16 mm². One D01 / E14 Fuse. 2 outgoing lines.	



Edge guard for cable hole			Price Category 12
982098.003	Edge guard for cable hole 50 x 150 mm		



Shrink sleeve for earth transition area, plastic			Price Category 12
982566.003	L 450, D 130	for pole diameter 110 - 130 mm	
982567.003	L 450, D 150	for pole diameter 125 - 150 mm	
982101.003	L 450, D 170	for pole diameter 145 - 170 mm	
982102.003	L 450, D 215	for pole diameter 170 - 195 mm	

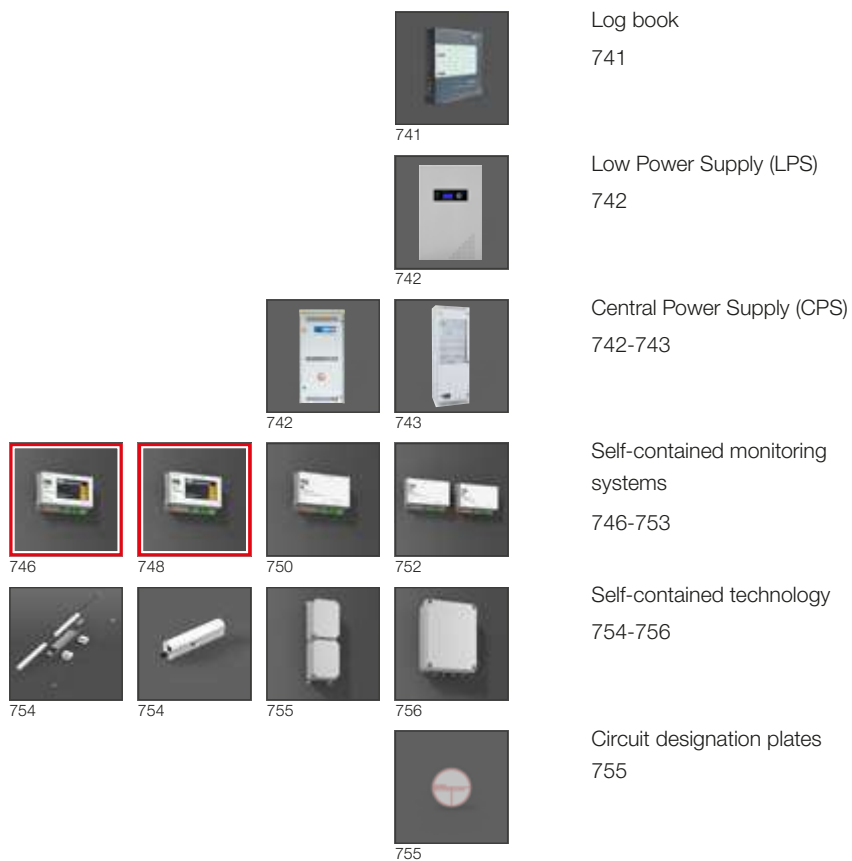








The application image shows:
GSUN D



Log book
741

Low Power Supply (LPS)
742

Central Power Supply (CPS)
742-743

Self-contained monitoring
systems
746-753

Self-contained technology
754-756

Circuit designation plates
755

Requirements for the electrical system for emergency lighting

Example of structural installations for gatherings of people	Max. switching time [s]	Rated operating time [h]	Continuous operation Exit signs
Places of assembly (temporary buildings excluded), theatres, cinemas	1	3	yes
Temporary buildings (places of assembly)	1	3	yes
Exhibition halls	1	3	yes
Shops	1	3	yes
Restaurants	1	3	yes
Hospitals	15 depending on panic risk (risk assessment)	24	yes
Hotels, guest houses, accomodation facilities, nursing homes	15 depending on panic risk (risk assessment)	8 (3) 3 h permissible, depending on circuit	yes
Spa, nursing, therapy, treatment centres	15 depending on panic risk (risk assessment)	8	yes
Schools	15 depending on panic risk (risk assessment)	3	yes
Car-parks, underground parking garages	15	1	yes
Airports, railway stations	1	3 (1) for above ground areas 1 h may be permissible	yes
Multi-storey buildings	15 depending on panic risk (risk assessment)	3 (8) for high-rise residential buildings 8 h, depending on circuit	yes
Workplaces	15	1	yes (depending on risk assessment)
High-risk workplaces	0,5	Duration of the risk	yes (depending on risk assessment)
Stages	1	3	yes

Maintenance and testing

	Test	DIN EN 50172	DIN VDE V 0108-100-1
Initial inspection	DIN VDE 0100-600:2017-06	No requirement	Initial inspection
	Function test	No requirement	yes
	DIN EN 1838	No requirement	Measurement of the photometric values
Daily	Display of the central power supply (central battery system)	Visual inspection	Visual inspection
	Display of decentralised power supply (single battery)	No requirement	Visual inspection
	Documentation of the test results	in writing	in writing
Weekly	Connecting the power source for safety purposes	No requirement	Function test
	Documentation of the test results	No requirement	written / automatic test device
Monthly	Simulation of a failure of the general power supply	Function test	Function test
	Documentation of the test results	written / automatic test device	written / automatic test device
Annual	Testing over the rated operating time	Function test	Function test
	Documentation of the test results	written / automatic test device	written / automatic test device
Every 3 years	Measurement of the illuminance of the emergency lighting system according to DIN EN 1838	Measurement with photometer	Measurement with photometer
	Documentation of the test results	in writing	in writing



Test log for emergency lighting installation

Folder in RZB design in a wide version with mechanical system and edge protection. For keeping the emergency lighting test log required by DIN VDE 0108 Part 100. With index and inserts for a period of 4 years. In addition, papers for the documentation of the entire system can be added to the folder, for example plans and luminaire documentation.

The folder optionally contains a USB stick with digital print templates and the option of storing electronic test logs.

- Professional documentation of the emergency lighting installation
- Sufficient capacity for more than 10 years of test logs (inserts included for 4 years)
- Suitable for single and central battery systems
- Clear index
- Additional USB stick with digital print templates (optional)
- Storage option for digital test books and documentation (optional)

Reference
number

Dimensions
[mm]

Log book

Price Category 30

985578	L 290, B 80, H 315	without USB stick
985578.1	L 290, B 80, H 315	with USB stick



with USB stick



Low Power Supply (LPS) | RZB LUXIFAIR Quattro

The RZB Luxifair Quattro is a central supply and monitoring system for emergency lighting in an attractive housing made of galvanised sheet steel with a two-colour plastic cover, side parts brilliant blue, the front aluminium-coloured with a brushed look. In the event of a mains failure, the Luxifair Quattro supplies emergency luminaires with an output of up to 350 VA for one hour, for 3 hours or even for 8 hours with an output voltage of 230 V AC in battery mode, depending on the version. The Luxifair Quattro is available with 4 outgoing circuits, up to 20 luminaires per circuit. For clear localisation of the connected luminaires, a location can be stored for each luminaire when using an AC-Control module, which is displayed in plain text in the event of a fault. The system communicates with the luminaires via Powerline communication. Bus lines to the luminaires are not required. Monitoring via TCP/IP with e-mail transmission in the event of a fault is also possible. Programming can be done via the internal display or a connected PC. Switching operations can be triggered via the standard digital inputs and messages can be forwarded to a higher-level BMS or a message panel via the potential-free changeover relays. Optionally, up to 20 bus-network monitors can be connected, which indicate the exact location of the fault in the event of a local network failure.

In addition, the RZB Quattro is also available in a robust wall/standing housing or in a housing with functional integrity E30 and building authority approval.

- Fully automated, processor-controlled monitoring system
- For powers up to 350 VA
- Combination cabinet for electronics and batteries
- Suitable for wall mounting, optionally with robust wall/stand housing
- Four freely programmable outgoing circuits up to 20 luminaires each
- Optional individual luminaire monitoring in mixed operation or circuit monitoring per end circuit
- No bus lines to the luminaire necessary due to Powerline communication
- Programmable destination for each connected luminaire
- Free programming software for commissioning the system via PC
- Optionally with approved fire protection housing E30
- Made in Germany



Central Power Supply (CPS) | RZB LUXIFAIR KV 2000

The RZB Luxifair KV 2000 is a central supply and monitoring system for emergency lighting. In the event of a mains failure, the Luxifair KV 2000 supplies luminaires with a power of up to 2000 W for one hour or 800 W for 3 hours or even 350 W for 8 hours. The KV 2000 is available with up to 20 outgoing circuits, up to 20 luminaires per circuit. For clear localisation of the connected luminaires, a location can be stored for each luminaire, which is displayed in plain text in the event of a fault. The system communicates with the luminaires via Powerline communication. Bus lines to the luminaires are not required. The system can also exchange data with KNX, BACnet or Modbus networks via optionally available gateways. Monitoring via TCP/IP with e-mail transmission in the event of a fault is also optionally possible. Switching operations can be triggered via the standard digital inputs and messages can be forwarded to a higher-level BMS or a message panel via the potential-free changeover relays. The KV 2000 is suitable for lead batteries up to a capacity of 18 Ah.

For areas where an enclosure with functional integrity is required, an optional RZB E30 fire protection enclosure with building authority approval Z-86-2-76 is available. In this case, the correspondingly approved batteries must be used.

- Fully automated, processor-controlled monitoring system
- For powers up to 2000 Watt
- Simple scalability of the systems due to modular design
- Combination cabinet for electronics and batteries
- Suitable for stand or wall mounting
- Up to 20 final circuits
- Automatic test log book
- Free choice of switching type per luminaire
- Optional individual luminaire monitoring in mixed operation or circuit monitoring per final circuit
- No bus lines to the luminaire necessary due to Powerline communication
- Programmable destination for each connected luminaire
- Free programming software for commissioning the system via PC
- Visualisation via TCP/IP optionally possible
- Optionally with approved fire protection housing E30
- Made in Germany

Central Power Supply (CPS) | RZB LUXIFAIR Compact / Compact Kombi

The RZB Luxifair Compact or Compact Kombi is a central supply and monitoring system for emergency lighting. In the event of a mains failure, the Luxifair Compact or Compact Kombi supplies luminaires with a power of up to 18,000 VA. The CPS system is available with up to 72 outgoing circuits, up to 20 luminaires per circuit. For clear localisation of the connected luminaires, a location can be stored for each luminaire, which is displayed in plain text in the event of a fault. The system communicates with the luminaires via Powerline communication. Bus lines to the luminaires are not required. The system can also exchange data with KNX, BACnet or Modbus networks via optionally available gateways. Monitoring via TCP/IP with e-mail transmission in the event of a fault is also optionally possible. Switching operations can be triggered via the standard digital inputs and messages can be forwarded to a higher-level BMS or a message panel via the potential-free changeover relays. Optionally, the Luxifair Compact (Compact Kombi) can be supplied with up to 6 (2) outlets for sub-distribution boards and with additional optional fittings.

Optionally, an E30 enclosure with functional integrity approved by the building authorities is available for the Compact Kombi.



- Fully automated, processor-controlled monitoring system
- For powers up to bis 9200 VA (Compact Kombi)
- For powers up to 18000 VA (Compact)
- Simple scalability of the systems due to modular design
- Combination cabinet for electronics and batteries (Compact Kombi)
- Up to 56 final circuits (Compact Kombi)
- Up to 72 final circuits (Compact)
- Up to 6 (2) outlets for sub-distributors (Compact Kombi)
- Automatic test log book
- Free choice of switching type per luminaire
- Optional individual luminaire monitoring in mixed operation or circuit monitoring per final circuit
- No bus lines to the luminaire necessary due to Powerline communication
- Programmable destination for each connected luminaire
- Free programming software for commissioning the system via PC
- Visualisation via TCP/IP optionally possible
- Various modules for interfaces to building management systems optionally available
- Standard built-in socket for e.g. laptops
- Made in Germany

**You will find the suitable system for your project,
whether Low Power System (LPS) or Central Power System (CPS).**

Contact us and we would be happy to support you.

Contact details in page 944



System overview	MWEBtouch
System design	Single module
Colour display	•
Number of circuits base unit	1
Number of luminaires per circuits	125
Number of luminaires per base unit	max. 125
Expandable	• max. 125 signal amplifier
Max. Luminaires	15625
Fault indication	Touchscreen and web browser
Potential-free fault signal contacts	•
E-mail dispatch	•
TCP/IP	•
Display of building plans	•
Modual structure	–
Bus line topology	free
Bus line	IY-ST(Y) 4 x 2 x 0.8
Application area	small to medium projects
Automatic test log book	•
Status of individual luminaires can be called up	•
Installation type	DIN rail



MWEBtouch DALI

MWEBplus

MultiDigit®plus

Single module

Single module

Modular

•

–

–

2

1

1

64

125

125

max. 128

max. 125

max. 125

–

–

•
max. 125 signal amplifier

128

125

7 500

Touchscreen and web browser

LED + web browser

LED + web browser

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free

free

free

NYM

IY-ST(Y) 4 x 2 x 0.8

IY-ST(Y) 4 x 2 x 0.8

small to medium projects

small to medium projects

large to largest projects

•

•

•

•

•

•

Wall mounting

DIN rail

DIN rail



MWEB

Monitoring system for up to 125 self-contained luminaires

- Visualization via Ethernet interface with integrated web server
- Status query via integrated touchscreen or via PC with web browser
- Commissioning via PC with web browser
- Automatic luminaire search for the commissioning
- Automatic email dispatch at status changes
- Password protection
- Formation of groups
- Planning of test times
- Integration of building plans
- Display of the luminaire location in plain text
- Evacuation mode via external switching contact switchable
- Automatic generation of detailed test record
- Additional alarm contact for forwarding of faults
- Can be expanded to up 15,000 luminaires via a signal amplifier, these luminaires can be monitored

MWEBtouch

With the MWEB*touch* system, it is possible to constantly monitor single-battery safety luminaires from a central location. The emergency luminaires report their current status via the integrated touchscreen or LAN network to a PC with a web browser, which takes over the evaluation and control of the entire system. An immediate and clear overview of the entire system can thus be provided and used for determining the operational readiness of the emergency lighting system. No special software is required. 125 self-contained emergency luminaires can be installed according to the general circuit diagram indicated below. When used in conjunction with signal amplifiers, the MultiDigit*plus* system can monitor up to 15,625 luminaires. Up to 125 signal amplifiers can be used. The bus line does not need to comply with any particular requirements; its structure can be T-shaped, star-shaped, linear or even mixed. Bus line polarity needs not to be considered.

Operation in connection with briefing of operating staff by an RZB employee is available at a cost.

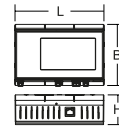
If you have any technical queries or you require support for your planning, please contact your sales office.

Monitoring system for RZB self-contained luminaires with .04 coding

Available colour: grey

Reference number	Dimensions [mm]
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MWEBtouch monitoring module		Price Category 30
672174.000	L 160, B 110, H 53	



No. of luminaires per line	Max. line length	Min. cross-section of bus line
40	1000 m	0.5 mm ²
80	1000 m	1.0 mm ²
125	1000 m	1.5 mm ²

Accessories | Signal amplifier

Accessories | Signal amplifier
For connection of further 125 RZB luminaires with .04 coding

Type of installation: DIN profile track

Signal amplifier	Price Category 30
671148.000 L 155, B 75, H 120	



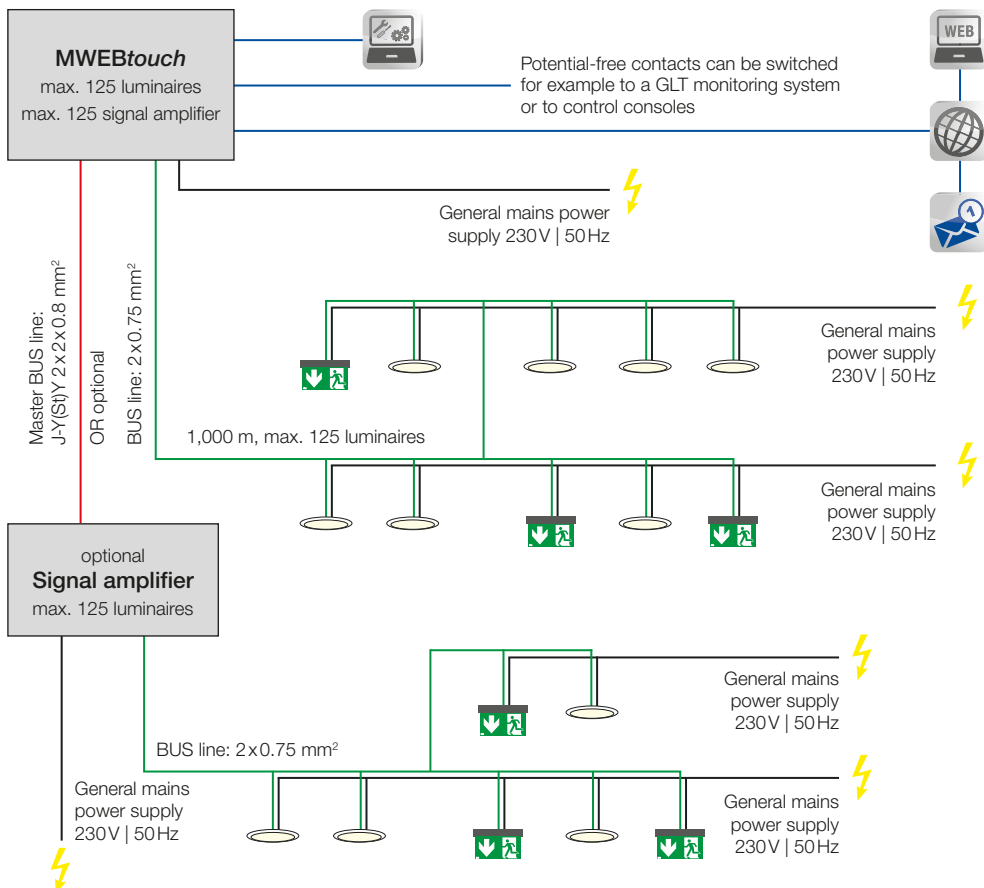
Wall-mounted housing

982772.004.37	L 236, B 59, H 234
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Mounting set for through wiring surface installation

982460.0031	L 226, B 216, H 31
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Attention!

All modules and luminaires for **MWEBtouch** must have order suffix **.04**



MWEBTOUCH DALI

Monitoring system for up to 2 x 64 self-contained luminaires

- Visualization via Ethernet interface with integrated web server
- Status query via integrated touchscreen or via PC with web browser
- Commissioning via PC with web browser
- Automatic luminaire search for the commissioning
- Automatic email dispatch at status changes
- Password protection
- Formation of groups
- Planning of test times
- Integration of building plans
- Display of the luminaire location in plain text
- Evacuation mode via external switching contact switchable
- Automatic generation of detailed test record
- Additional alarm contact for forwarding of faults

MWEBtouch DALI

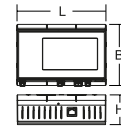
With the MWEBtouch system, it is possible to constantly monitor single-battery safety luminaires from a central location. The emergency luminaires report their status to the MWEBtouch DALI monitoring system, whose displays can be viewed either directly on the integrated touchscreen or via a LAN network with a web browser. Up to 128 self-contained emergency luminaires can be installed on two BUS circuits in accordance with the basic circuit diagram shown below. The BUS line does not need to comply with any particular requirements; its structure can be T-shaped, star-shaped, linear or even mixed. BUS line polarity needs not to be considered.

Operation in connection with briefing of operating staff by an RZB employee is available at a cost.

If you have any technical queries or you require support for your planning, please contact your sales office.

Monitoring system for RZB self-contained luminaires with .07 coding

Available colour: grey



Reference number Dimensions [mm]

MWEBtouch DALI monitoring module

672511.000 L 160, B 110, H 53

Price Category 30

Max. line length	Min. cross-section of bus line
150 m	0,75 mm ²
200 m	1,0 mm ²
300 m	1,5 mm ²

Wall-mounted housing

982772.004.37 L 236, B 59, H 234

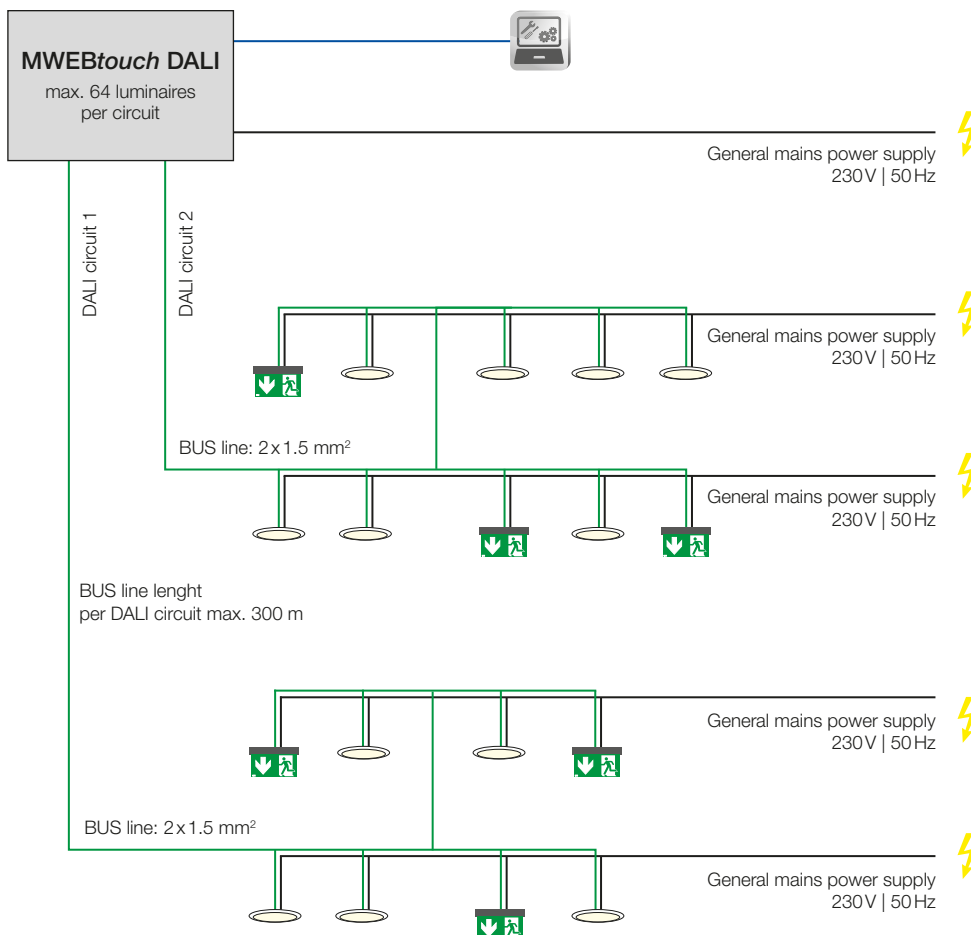
Price Category 30



Mounting set for through wiring surface installation

982460.0031 L 226, B 216, H 31

Price Category 30



Attention!

All modules and luminaires for MWEBtouch DALI must have order suffix .07



MWEBPLUS

Monitoring system for up to 125 self-contained luminaires

- Visualization via Ethernet interface with integrated web server
- Status query via PC with web browser
- Commissioning via PC with web browser
- Automatic luminaire search for the commissioning
- Automatic email dispatch at status changes
- Password protection
- Formation of groups
- Planning of test times
- Integration of building plans
- Display of the luminaire location in plain text
- Evacuation mode via external switching contact switchable
- Automatic generation of detailed test record
- Additional alarm contact for forwarding of faults
- Can be expanded to up 15,000 luminaires via a signal amplifier, these luminaires can be monitored

MWEBplus

Type of Protection: IP 20
Protection Class: I

With the MWEBplus system, it is possible to constantly monitor single-battery safety luminaires from a central location. The emergency luminaires report their current status via LAN network to a PC with a web browser, which takes over the evaluation and control of the entire system. 125 self-contained emergency luminaires can be installed according to the general circuit diagram indicated below. Using signal amplifiers, the MWEBplus can be extended to create a MultiDigitplus system for monitoring up to 15,625 luminaires. Up to 125 signal amplifiers can be used. The bus line does not need to comply with any particular requirements; its structure can be T-shaped, star-shaped, linear or even mixed. Bus line polarity needs not to be considered.

Operation in connection with briefing of operating staff by an RZB employee is available at a cost.

If you have any technical queries or you require support for your planning, please contact your sales office.

Monitoring system for RZB self-contained luminaires with .04 coding

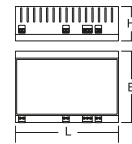
Available colour: grey

Reference number Dimensions [mm]

MWEBplus monitoring module

671823.000 L 160, B 110, H 53

Price Category 30



No. of luminaires per line	Max. line length	Min. cross-section of bus line
40	1000 m	0,5 mm ²
80	1000 m	1,0 mm ²
125	1000 m	1,5 mm ²

Accessories | Signal amplifier

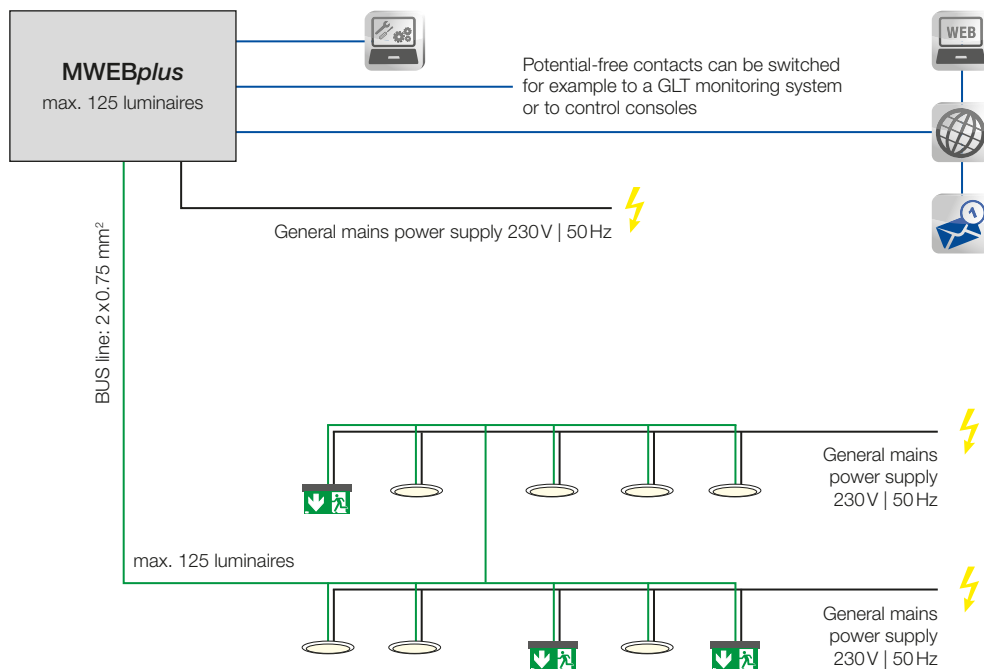
For connection of further 125 RZB luminaires with .04 coding

Type of installation: DIN profile track

Signal amplifier

671148.000 L 155, B 75, H 120

Price Category 30



Attention!

All modules and luminaires for MWEBplus must have order suffix .04



MULTIDIGIT®*PLUS*

Monitoring system for up to 15625 self-contained luminaires

- Visualization via Ethernet interface with integrated web server
- Status query via PC with web browser
- Commissioning via PC with web browser
- Automatic luminaire search for the commissioning
- Automatic luminaire search for the commissioning
- Password protection
- Formation of groups
- Planning of test times
- Integration of building plans
- Display of the luminaire location in plain text
- Evacuation mode via external switching contact switchable
- Automatic generation of detailed test record
- Additional alarm contact for forwarding of faults

MultiDigit*plus*

Type of Protection: IP 20
Protection Class: I

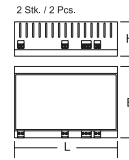
The MultiDigit^{plus} system allows for permanent central monitoring of self-contained emergency luminaires. The emergency luminaires report their current status via LAN network to a PC with a web browser, which takes over the evaluation and control of the entire system. An immediate and clear overview of the entire system can thus be provided and used for determining the operational readiness of the emergency lighting system. No special software is required. 125 self-contained emergency luminaires can be installed according to the general circuit diagram indicated below. When used in conjunction with signal amplifiers, the MultiDigit^{plus} system can monitor up to 15,625 luminaires. Up to 125 signal amplifiers can be used. The bus line does not need to comply with any particular requirements; its structure can be T-shaped, star-shaped, linear or even mixed. Bus line polarity needs not to be considered.

Operation in connection with briefing of operating staff by an RZB employee is available at a cost.

If you have any technical queries or you require support for your planning, please contact your sales office.

Monitoring system for RZB self-contained luminaires with .04 coding

Available colour: grey

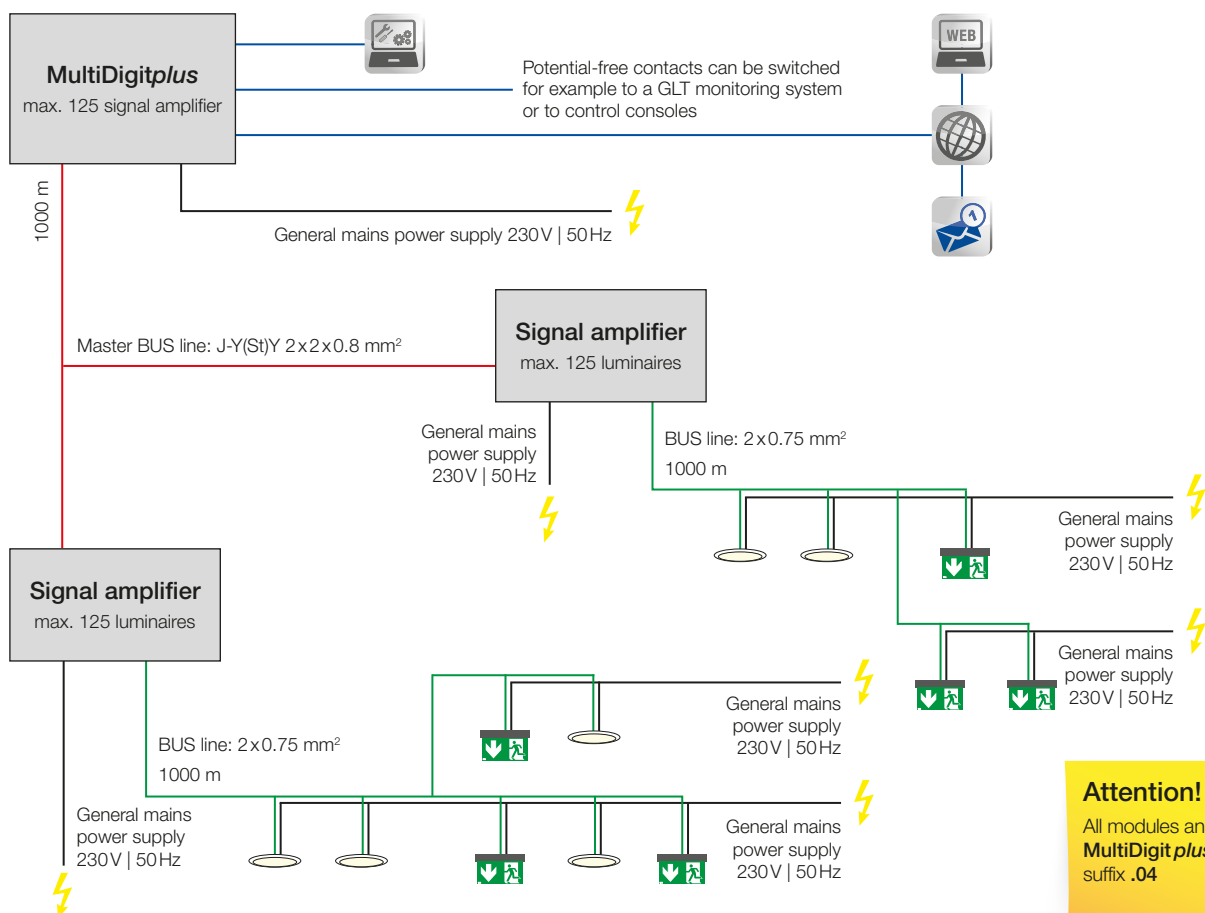


Reference number	Dimensions [mm]	
Starter-Set MultiDigit^{plus}		Price Category 30
981935.000	L 155, B 75, H 120	

Accessories | Signal amplifier

For connection of further 125 RZB luminaires with .04 coding
Type of installation: DIN profile track

Signal amplifier	Price Category 30
671148.000 L 155, B 75, H 120	



Attention!

All modules and luminaires for **MultiDigit^{plus}** must have order suffix **.04**




Emergency conversion kits | LEH

Type of Protection: IP 20

Protection Class: I

Emergency light kit for LED

Consisting of emergency light module in metal housing and battery. With status display. Operation in maintained and non-maintained modes possible. Display of the test results over multicolored status LED. Suitable for use according to VDE 0108-100 / EN 50172.

Reference number	Dimensions [mm]	Secondary voltage [V]	No Load Voltage [V]	Emergency mode [W]	 [h]	Battery	Monitoring
Emergency conversion kits							
09-6555.040	L 210, B 32, H 22	12-50	60	3	3	NiMh	for autotest
09-6555.050	L 210, B 32, H 22	12-50	60	3	3	NiMh	for MultiDigit
09-6555.060	L 210, B 32, H 22	12-50	60	3	3	NiMh	for DALI
09-6556.040	L 210, B 32, H 22	20-130	150	3	3	NiMh	for autotest
09-6556.050	L 210, B 32, H 22	20-130	150	3	3	NiMh	for MultiDigit
09-6556.060	L 210, B 32, H 22	20-130	150	3	3	NiMh	for DALI
09-6557.040	L 210, B 32, H 22	100-220	250	3	3	NiMh	for autotest
09-6557.050	L 210, B 32, H 22	100-220	250	3	3	NiMh	for MultiDigit
09-6557.060	L 210, B 32, H 22	100-220	250	3	3	NiMh	for DALI

Price Category 23



Self-contained power supply units | Powerbox 3

Type of Protection: IP 20


Protection Class: I

Single battery supply unit for the supply of one LED emergency luminaire according to DIN EN 60598 2-22 for 3 or 8 h

For insertion in a false ceiling or for remote installation. Easy assembly by professional connectors. Can be used up to 2 meters from the luminaire. LEHF module with pluggable battery.

Available colour: 2 = white

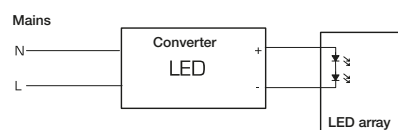


Reference number	Dimensions [mm]	Secondary voltage [V]	Emergency mode [W]	 [h]	Battery	Monitoring
Self-contained power supply units						
982244.002	L 273, B 55, H 75	12-50	3	3 h	NiMh	for autotest
982244.002.04	L 273, B 55, H 75	12-50	3	3 h	NiMh	for MultiDigit
982244.002.07	L 273, B 55, H 75	12-50	3	3 h	NiMh	for DALI
982248.002	L 273, B 55, H 75	12-50	1.2	8 h	NiMh	for autotest
982248.002.04	L 273, B 55, H 75	12-50	1.2	8 h	NiMh	for MultiDigit
982248.002.07	L 273, B 55, H 75	12-50	1.2	8 h	NiMh	for DALI
982245.002	L 273, B 55, H 75	20-130	3	3 h	NiMh	for autotest
982245.002.04	L 273, B 55, H 75	20-130	3	3 h	NiMh	for MultiDigit
982245.002.07	L 273, B 55, H 75	20-130	3	3 h	NiMh	for DALI
982249.002	L 273, B 55, H 75	20-130	1.2	8 h	NiMh	for autotest
982249.002.04	L 273, B 55, H 75	20-130	1.2	8 h	NiMh	for MultiDigit
982249.002.07	L 273, B 55, H 75	20-130	1.2	8 h	NiMh	for DALI
982246.002	L 273, B 55, H 75	100-220	3	3 h	NiMh	for autotest
982246.002.04	L 273, B 55, H 75	100-220	3	3 h	NiMh	for MultiDigit
982246.002.07	L 273, B 55, H 75	100-220	3	3 h	NiMh	for DALI
982250.002	L 273, B 55, H 75	100-220	1.2	8 h	NiMh	for autotest
982250.002.04	L 273, B 55, H 75	100-220	1.2	8 h	NiMh	for MultiDigit
982250.002.07	L 273, B 55, H 75	100-220	1.2	8 h	NiMh	for DALI

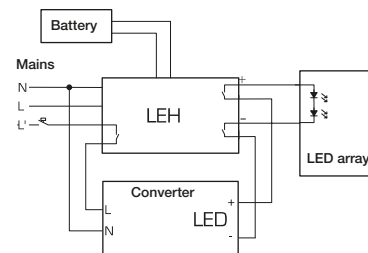
Price Category 23

Connecting diagrams | LEH, Powerbox 3

Standard LED luminaire



Wiring LED luminaire with emergency module



Self-contained power supply units | PGVG 200

Type of Protection: IP 33

Protection Class: I

Input voltage: 230 V, 50 Hz

Output voltage: 230 V AC (mains operation), 225 V DC (battery operation)

Permissible ambient temperature Ta: 0 bis +25°C

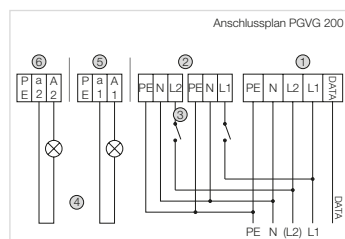
The PGVG 200 is an emergency light supply device according to DIN EN 60598-2-22 for the connection of up to two luminaires suitable for DC voltage operation according to DIN EN 60598-2-22 for a rated operating time of 1 h or 3 h.

The lights can be installed up to 250 m from the PGVG 200. The PGVG has an automatic self-test according to DIN EN 62034, which reports a lamp / device fault in the event of a device fault or underload on a lighting circuit, which can be passed on via a potential-free changeover relay and is displayed via an integrated status LED. The two lighting circuits can be switched independently of one another and operated both in maintained and in non-maintained operation. The total output of the PGVG 200 is up to 200 W depending on the variant and maximum bridging time. The maximum output per luminaire circuit is 100 W with a maximum switch-on power of 4000 W for 100 ms.

Available colour: grey white (RAL 9002)



Reference number	Dimensions [mm]	Wattage 1h [W]	Wattage 3h [W]	Battery	Monitoring
Self-contained power supply units					
PGVG200-7-DC-G					
981502.000	L 560, B 237, H 170	34	15	Pb	for autotest
981502.000.04	L 560, B 237, H 170	34	15	Pb	for MultiDigit
PGVG200-12-DC-G					
981504.000	L 560, B 237, H 170	60	25	Pb	for autotest
981504.000.04	L 560, B 237, H 170	60	25	Pb	for MultiDigit
PGVG200-18-DC-G					
981506.000	L 560, B 237, H 170	90	40	Pb	for autotest
981506.000.04	L 560, B 237, H 170	90	40	Pb	for MultiDigit
PGVG200-24-DC-G					
981508.000	L 560, B 237, H 170	115	50	Pb	for autotest
981508.000.04	L 560, B 237, H 170	115	50	Pb	for MultiDigit
PGVG200-45-DC-G					
981510.000	L 690, B 270, H 190	183	95	Pb	for autotest
981510.000.04	L 690, B 270, H 190	183	95	Pb	for MultiDigit
PGVG200-90-DC-G					
981512.000	L 1000, B 270, H 190	200	200	Pb	for autotest
981512.000.04	L 1000, B 270, H 190	200	200	Pb	for MultiDigit



Accessories | Circuit designation plates

Circuit label 3-part according to DIN VDE 0108-100 for sticking onto the luminaire or a suitable substrate. One strip contains 10 labels for labelling distributor, circuit and luminaire numbers.

Reference number	Dimensions [mm]
------------------	-----------------

Circuit designation plates		Price Category 24
99350.3	D 40	





Self-contained power supply units | Powerbox 15

Type of Protection: IP 56

Protection Class: II

Input voltage: 230 V, 50 Hz

Output voltage: 230 V AC (mains operation), 210 V DC (battery operation)

Permissible ambient temperature: +5 to +35 °C

The Powerbox 15 is an emergency lighting supply device for the connection of up to two lights suitable for direct voltage operation according to DIN EN 60598-2-22, for a rated operating time of 1 h or 3 h.

The lights can be installed up to 250 m from the Powerbox 15. The Powerbox 15 has an automatic self-test according to DIN EN 62034, which reports a lamp / device fault in the event of a device fault or underload on a lighting circuit, which can be passed on via a potential-free changeover relay and is displayed via an integrated status LED. The luminaire circuit can be switched and operated in both maintained and non-maintained mode. The total output of the Powerbox 15 is 15 W in mains operation (permanent switching) and 12 W in emergency operation with a rated operating time of 1 hour or 3 hours. The maximum switch-on power is 300 W for 100 ms.

Available colour: grey

Reference number	Dimensions [mm]	Monitoring	Price Category 30
Self-contained power supply units			
672232.009	L 100, B 200, H 250	for autotest	
672232.009.04	L 100, B 200, H 250	for MultiDigit	



Tenuo
760-767



Halyxx
768-771



GSUN S
772-773



GSUN D
774-775



Exeo
776-777



Centryxx D
778-779



Multivariabel
780-781


















Minisign
782-783



Varioplast I
784-785



					Varioplast II 786-787
					GSUN 2 788-789
					GSUN 3 790-793
					GSUN 4 794-797
					Rechteck 798-803
					
799	800	801	802	803	
					Signcube 804-807
			805	806	
					Signcube IP 54 808-809
				809	
					Centryxx RZ 810-811
				811	
					Turia RZ 812-813
				813	



TENUO®

Wall luminaires, Recessed wall luminaires, Extensions, Ceiling luminaires, Recessed ceiling luminaires, Pendant luminaires

- The ultra-flat exit sign luminaire with highly efficient LED technology
- Design matches modern architectural styles
- One-piece aluminium frame made of quality brushed anodised aluminium
- Specially calculated thermal management
- LED rated life 50,000 h
- Uniformly lit legend panel thanks to use of patented MicroLens technology

Legends for escape route identification - ISO 7010 | DIN 4844

Background colour: green



3003



3004



3006



3005



3113



3114



3116



3115

Do you require a special sign on the fitting? If yes, please be so kind as to let us know.

Wall luminaires | Tenuo

Type of Protection: **IP 40**

Protection Class: I

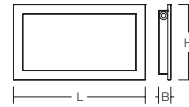
Impact Protection: IK03

For escape route identification

Housing: anodised aluminium, silver. Display panel: patented MicroLens technology and legend on one side.

Please indicate legend number when placing your order!

Available colour: 4 = aluminium, anodised



Self-contained safety luminaires

Voltage type: AC



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires						Price Category 23
671944.004	L 350, B 33, H 200	30	4,8	NiCd	3	Autotest
671944.004.04	L 350, B 33, H 200	30	4,8	NiCd	3	MultiDigit
671944.004.07	L 350, B 33, H 200	30	4,8	NiCd	3	DALI-Sibe
672005.004	L 350, B 33, H 200	30	4,8	NiCd	8	Autotest
672005.004.04	L 350, B 33, H 200	30	4,8	NiCd	8	MultiDigit
672005.004.07	L 350, B 33, H 200	30	4,8	NiMh	8	DALI-Sibe
Luminaires for central battery system						Price Category 24
671923.004	L 350, B 33, H 200	30	3,8	without battery		Standard
671923.004.88	L 350, B 33, H 200	30	4,8	without battery		MOM
671923.004.89	L 350, B 33, H 200	30	4,8	without battery		AC-Control

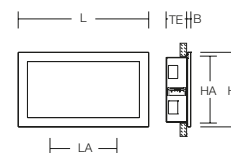


**Recessed wall luminaires | Tenuo**Type of Protection: **IP 40**Protection Class: **I**Impact Protection: **IK03****For escape route identification**

Housing: anodised aluminium, silver. Display panel: patented MicroLens technology and legend on one side.

Please indicate legend number when placing your order!

Available colour: 4 = aluminium, anodised

**Self-contained safety luminaires**Voltage type: **AC**



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery systemVoltage type: **AC/DC**

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires						Price Category 23
Wall cutout LA 175 x HA 175 mm, TE 70 mm						
671943.004	L 350, B 11, H 200	30	4,8	NiCd	3	Autotest
671943.004.04	L 350, B 11, H 200	30	4,8	NiCd	3	MultiDigit
671943.004.07	L 350, B 11, H 200	30	4,8	NiCd	3	DALI-Sibe
672004.004	L 350, B 11, H 200	30	4,8	NiCd	8	Autotest
672004.004.04	L 350, B 11, H 200	30	4,8	NiCd	8	MultiDigit
672004.004.07	L 350, B 11, H 200	30	4,8	NiMh	8	DALI-Sibe
Luminaires for central battery system						Price Category 24
Wall cutout LA 175 x HA 175 mm, TE 55 mm						
671922.004	L 350, B 11, H 200	30	3,8	without battery		Standard
671922.004.88	L 350, B 11, H 200	30	4,8	without battery		MOM
671922.004.89	L 350, B 11, H 200	30	4,8	without battery		AC-Control

Extensions | Tenuo

Type of Protection: **IP 40**

Protection Class: I

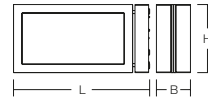
Impact Protection: IK03

For escape route identification

Housing: anodised aluminium, silver. Display panel: patented MicroLens technology and legends on one side/both sides.

Please indicate legend number when placing your order!

Available colour: 4 = aluminium, anodised



Self-contained safety luminaires

Voltage type: AC



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires						
with motif on one side only						
672040.004	L 400, B 100, H 200	30	7,1	NiCd	3	Autotest
672040.004.04	L 400, B 100, H 200	30	7,1	NiCd	3	MultiDigit
672040.004.07	L 400, B 100, H 200	30	7,1	NiCd	3	DALI-Sibe
672041.004	L 400, B 100, H 200	30	7,1	NiCd	8	Autotest
672041.004.04	L 400, B 100, H 200	30	7,1	NiCd	8	MultiDigit
672041.004.07	L 400, B 100, H 200	30	7,1	NiMh	8	DALI-Sibe
with motifs on both sides						
671945.004	L 400, B 100, H 200	30	7,1	NiCd	3	Autotest
671945.004.04	L 400, B 100, H 200	30	7,1	NiCd	3	MultiDigit
671945.004.07	L 400, B 100, H 200	30	7,1	NiCd	3	DALI-Sibe
672006.004	L 400, B 100, H 200	30	7,1	NiCd	8	Autotest
672006.004.04	L 400, B 100, H 200	30	7,1	NiCd	8	MultiDigit
672006.004.07	L 400, B 100, H 200	30	7,1	NiMh	8	DALI-Sibe
Luminaires for central battery system						
with motif on one side only						
672039.004	L 400, B 100, H 200	30	6,1	without battery		Standard
672039.004.88	L 400, B 100, H 200	30	7,1	without battery		MOM
672039.004.89	L 400, B 100, H 200	30	7,1	without battery		AC-Control
with motifs on both sides						
671938.004	L 400, B 100, H 200	30	6,1	without battery		Standard
671938.004.88	L 400, B 100, H 200	30	7,1	without battery		MOM
671938.004.89	L 400, B 100, H 200	30	7,1	without battery		AC-Control

Price Category 23



Price Category 24





Ceiling luminaires | Tenuo

Type of Protection: **IP 40**

Protection Class: **I**

Impact Protection: **IK03**

For escape route identification

Housing: anodised aluminium, silver. Display panel: patented MicroLens technology and legends on one side/both sides.

Please indicate legend number when placing your order!

Available colour: 4 = aluminium, anodised



Self-contained safety luminaires

Voltage type: **AC**

Automatic self test in all standard versions.



Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: **AC/DC**

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires						
with motif on one side only						
672033.004	L 350, B 56, H 240	30	4,8	NiCd	3	Autotest
672033.004.04	L 350, B 56, H 240	30	4,8	NiCd	3	MultiDigit
672033.004.07	L 350, B 56, H 240	30	4,8	NiCd	3	DALI-Sibe
672042.004	L 350, B 56, H 240	30	4,8	NiCd	8	Autotest
672042.004.04	L 350, B 56, H 240	30	4,8	NiCd	8	MultiDigit
672042.004.07	L 350, B 56, H 240	30	4,8	NiMh	8	DALI-Sibe
with motifs on both sides						
671946.004	L 350, B 56, H 240	30	7,1	NiCd	3	Autotest
671946.004.04	L 350, B 56, H 240	30	7,1	NiCd	3	MultiDigit
671946.004.07	L 350, B 56, H 240	30	7,1	NiCd	3	DALI-Sibe
672007.004	L 350, B 56, H 240	30	7,1	NiCd	8	Autotest
672007.004.04	L 350, B 56, H 240	30	7,1	NiCd	8	MultiDigit
672007.004.07	L 350, B 56, H 240	30	7,1	NiMh	8	DALI-Sibe



Luminaires for central battery system						
with motif on one side only						
672029.004	L 350, B 56, H 240	30	3,8	without battery		Standard
672029.004.88	L 350, B 56, H 240	30	4,8	without battery		MOM
672029.004.89	L 350, B 56, H 240	30	4,8	without battery		AC-Control
with motifs on both sides						
671939.004	L 350, B 56, H 240	30	6,1	without battery		Standard
671939.004.88	L 350, B 56, H 240	30	7,1	without battery		MOM
671939.004.89	L 350, B 56, H 240	30	7,1	without battery		AC-Control

Recessed ceiling luminaires | Tenuo

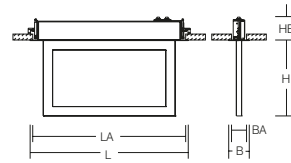
Type of Protection: **IP 40**, IP 20 (above the ceiling)
Protection Class: I
Ceiling thickness S: 5-35 mm
Impact Protection: IK03

For escape route identification

Housing: anodised aluminium, silver. Display panel: patented MicroLens technology and legends on one side/both sides.

Please indicate legend number when placing your order!

Available colour: 4 = aluminium, anodised



Self-contained safety luminaires

Voltage type: AC



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	
Self-contained safety luminaires							Price Category 23
Ceiling cut out LA 400 x BA 40 mm, HE 60 mm							
with motif on one side only							
672034.004	L 420, B 55, H 202	30	4,8	NiCd	3	Autotest	
672034.004.04	L 420, B 55, H 202	30	4,8	NiCd	3	MultiDigit	
672034.004.07	L 420, B 55, H 202	30	4,8	NiCd	3	DALI-Sibe	
672043.004	L 420, B 55, H 202	30	4,8	NiCd	8	Autotest	
672043.004.04	L 420, B 55, H 202	30	4,8	NiCd	8	MultiDigit	
672043.004.07	L 420, B 55, H 202	30	4,8	NiMh	8	DALI-Sibe	
with motifs on both sides							
671947.004	L 420, B 55, H 202	30	7,1	NiCd	3	Autotest	
671947.004.04	L 420, B 55, H 202	30	7,1	NiCd	3	MultiDigit	
671947.004.07	L 420, B 55, H 202	30	7,1	NiCd	3	DALI-Sibe	
672008.004	L 420, B 55, H 202	30	7,1	NiCd	8	Autotest	
672008.004.04	L 420, B 55, H 202	30	7,1	NiCd	8	MultiDigit	
672008.004.07	L 420, B 55, H 202	30	7,1	NiMh	8	DALI-Sibe	
Luminaires for central battery system							Price Category 24
Ceiling cut out LA 400 x BA 40 mm, HE 90 mm							
with motif on one side only							
672030.004	L 420, B 55, H 202	30	3,8	without battery		Standard	
672030.004.88	L 420, B 55, H 202	30	4,8	without battery		MOM	
672030.004.89	L 420, B 55, H 202	30	4,8	without battery		AC-Control	
with motifs on both sides							
671940.004	L 420, B 55, H 202	30	6,1	without battery		Standard	
671940.004.88	L 420, B 55, H 202	30	7,1	without battery		MOM	
671940.004.89	L 420, B 55, H 202	30	7,1	without battery		AC-Control	





Pendant luminaires | Tenuo

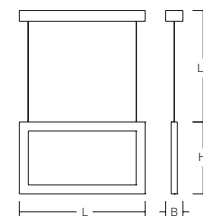
Type of Protection: IP 40
Protection Class: I
Impact Protection: IK03
Suspension Length: 500 mm

For escape route identification

Housing: anodised aluminium, silver. Display panel: patented MicroLens technology and legends on one side/both sides. 2-point steel cable suspension, steplessly adjustable.

Please indicate legend number when placing your order!

Available colour: 4 = aluminium, anodised



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.



Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	Price Category 23
Self-contained safety luminaires							
with motif on one side only							
672036.004	L 350, B 56, H 200	30	4,8	NiCd	3	Autotest	
672036.004.04	L 350, B 56, H 200	30	4,8	NiCd	3	MultiDigit	
672036.004.07	L 350, B 56, H 200	30	4,8	NiCd	3	DALI-Sibe	
672045.004	L 350, B 56, H 200	30	4,8	NiCd	8	Autotest	
672045.004.04	L 350, B 56, H 200	30	4,8	NiCd	8	MultiDigit	
672045.004.07	L 350, B 56, H 200	30	4,8	NiMH	8	DALI-Sibe	
with motifs on both sides							
671949.004	L 350, B 56, H 200	30	7,1	NiCd	3	Autotest	
671949.004.04	L 350, B 56, H 200	30	7,1	NiCd	3	MultiDigit	
671949.004.07	L 350, B 56, H 200	30	7,1	NiCd	3	DALI-Sibe	
672010.004	L 350, B 56, H 200	30	7,1	NiCd	8	Autotest	
672010.004.04	L 350, B 56, H 200	30	7,1	NiCd	8	MultiDigit	
672010.004.07	L 350, B 56, H 200	30	7,1	NiMH	8	DALI-Sibe	



Luminaires for central battery system							Price Category 24
with motif on one side only							
672032.004	L 350, B 56, H 200	30	3,8	without battery		Standard	
672032.004.88	L 350, B 56, H 200	30	4,8	without battery		MOM	
672032.004.89	L 350, B 56, H 200	30	4,8	without battery		AC-Control	
with motifs on both sides							
671942.004	L 350, B 56, H 200	30	6,1	without battery		Standard	
671942.004.88	L 350, B 56, H 200	30	7,1	without battery		MOM	
671942.004.89	L 350, B 56, H 200	30	7,1	without battery		AC-Control	





HALYXX®

Wall luminaires, Ceiling luminaires, Recessed ceiling luminaires

- Escape sign luminaire with highly efficient LED technology
- Housing made of top quality aluminium
- High quality and elegant design
- Specially calculated thermal management
- LED rated life 50,000 h
- Wide range of applications thanks to various types of installation
- Easy to install

Legends for escape route identification - ISO 7010 | DIN 4844

Background colour: green



3003



3004



3006



3005



3113



3114



3116



3115

Do you require a special sign on the fitting? If yes, please be so kind as to let us know.

Wall luminaires | Halyxx

Type of Protection: **IP 40**

Protection Class: **I**

Impact Protection: **IK03**

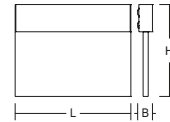
For escape route identification

Housing: extruded aluminium profile, anodised or powder-coated.

Display panel: highly transparent plastic, with motifs on one side.

Please specify legend number when ordering!

Available colours (X): 2 = white, 3 = black, 4 = aluminium, anodised



Self-contained safety luminaires

Voltage type: **AC**



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: **AC/DC**

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires						
Display panel: plastic 170 x 100 mm						
671501.00X.1	L 233, B 40, H 180	14	4,7	NiMh	3	Autotest
671501.00X.1.04	L 233, B 40, H 180	14	4,7	NiMh	3	MultiDigit
671501.00X.1.07	L 233, B 40, H 180	14	4,7	NiMh	3	DALI-Sibe
672457.00X.1	L 233, B 40, H 180	14	4,7	NiMh	8	Autotest
672457.00X.1.04	L 233, B 40, H 180	14	4,7	NiMh	8	MultiDigit
672457.00X.1.07	L 233, B 40, H 180	14	4,7	NiMh	8	DALI-Sibe
Display panel: plastic 235 x 140 mm						
671746.00X.1	L 235, B 40, H 220	19	4,7	NiMh	3	Autotest
671746.00X.1.04	L 235, B 40, H 220	19	4,7	NiMh	3	MultiDigit
671746.00X.1.07	L 235, B 40, H 220	19	4,7	NiMh	3	DALI-Sibe
671895.00X.1	L 235, B 40, H 220	19	4,7	NiMh	8	Autotest
671895.00X.1.04	L 235, B 40, H 220	19	4,7	NiMh	8	MultiDigit
671895.00X.1.07	L 235, B 40, H 220	19	4,7	NiMh	8	DALI-Sibe
Display panel: plastic 340 x 190 mm						
671748.00X.1	L 340, B 40, H 270	30	5,8	NiMh	3	Autotest
671748.00X.1.04	L 340, B 40, H 270	30	5,8	NiMh	3	MultiDigit
671748.00X.1.07	L 340, B 40, H 270	30	5,8	NiMh	3	DALI-Sibe
671912.00X.1	L 340, B 40, H 270	30	5,8	NiMh	8	Autotest
671912.00X.1.04	L 340, B 40, H 270	30	5,8	NiMh	8	MultiDigit
671912.00X.1.07	L 340, B 40, H 270	30	5,8	NiMh	8	DALI-Sibe
Luminaires for central battery system						
Display panel: plastic 170 x 100 mm						
671503.00X.1	L 233, B 40, H 180	14	3,7	without battery		Standard
671503.00X.1.88	L 233, B 40, H 180	14	4,7	without battery		MOM
671503.00X.1.89	L 233, B 40, H 180	14	4,7	without battery		AC-Control
Display panel: plastic 235 x 140 mm						
671738.00X.1	L 235, B 40, H 220	19	3,7	without battery		Standard
671738.00X.1.88	L 235, B 40, H 220	19	4,7	without battery		MOM
671738.00X.1.89	L 235, B 40, H 220	19	4,7	without battery		AC-Control
Display panel: plastic 340 x 190 mm						
671722.00X.1	L 340, B 40, H 270	30	4,8	without battery		Standard
671722.00X.1.88	L 340, B 40, H 270	30	5,8	without battery		MOM
671722.00X.1.89	L 340, B 40, H 270	30	5,8	without battery		AC-Control





Ceiling luminaires | Halyxx

Type of Protection: IP 40

Protection Class: I

Impact Protection: IK03

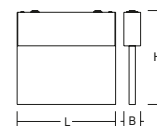
For escape route identification

Housing: extruded aluminium profile, anodised or powder-coated.

Display panel: highly transparent panel, plastic, with legend on one side/both sides.

Please specify legend number when ordering!

Available colours (X): 2 = white, 3 = black, 4 = aluminium, anodised



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.



Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	Price Category 23
Self-contained safety luminaires							
Display panel: plastic 170 x 100 mm							
671502.00X.1	L 233, B 40, H 180	14	4,7	NiMh	3	Autotest	
671502.00X.1.04	L 233, B 40, H 180	14	4,7	NiMh	3	MultiDigit	
671502.00X.1.07	L 233, B 40, H 180	14	4,7	NiMh	3	DALI-Sibe	
672458.00X.1	L 233, B 40, H 180	14	4,7	NiMh	8	Autotest	
672458.00X.1.04	L 233, B 40, H 180	14	4,7	NiMh	8	MultiDigit	
672458.00X.1.07	L 233, B 40, H 180	14	4,7	NiMh	8	DALI-Sibe	
Display panel: plastic 235 x 140 mm							
671742.00X.1	L 235, B 40, H 220	19	4,7	NiMh	3	Autotest	
671742.00X.1.04	L 235, B 40, H 220	19	4,7	NiMh	3	MultiDigit	
671742.00X.1.07	L 235, B 40, H 220	19	4,7	NiMh	3	DALI-Sibe	
671896.00X.1	L 235, B 40, H 220	19	4,7	NiMh	8	Autotest	
671896.00X.1.04	L 235, B 40, H 220	19	4,7	NiMh	8	MultiDigit	
671896.00X.1.07	L 235, B 40, H 220	19	4,7	NiMh	8	DALI-Sibe	
Display panel: plastic 340 x 190 mm							
671744.00X.1	L 340, B 40, H 270	30	5,8	NiMh	3	Autotest	
671744.00X.1.04	L 340, B 40, H 270	30	5,8	NiMh	3	MultiDigit	
671744.00X.1.07	L 340, B 40, H 270	30	5,8	NiMh	3	DALI-Sibe	
671913.00X.1	L 340, B 40, H 270	30	5,8	NiMh	8	Autotest	
671913.00X.1.04	L 340, B 40, H 270	30	5,8	NiMh	8	MultiDigit	
671913.00X.1.07	L 340, B 40, H 270	30	5,8	NiMh	8	DALI-Sibe	



Luminaires for central battery system							Price Category 24
Display panel: plastic 170 x 100 mm							
671504.00X.1	L 233, B 40, H 184	14	3,7	without battery		Standard	
671504.00X.1.88	L 233, B 40, H 184	14	4,7	without battery		MOM	
671504.00X.1.89	L 233, B 40, H 184	14	4,7	without battery		AC-Control	
Display panel: plastic 235 x 140 mm							
671736.00X.1	L 235, B 40, H 220	19	3,7	without battery		Standard	
671736.00X.1.88	L 235, B 40, H 220	19	4,7	without battery		MOM	
671736.00X.1.89	L 235, B 40, H 220	19	4,7	without battery		AC-Control	
Display panel: plastic 340 x 190 mm							
671737.00X.1	L 340, B 40, H 270	30	4,8	without battery		Standard	
671737.00X.1.88	L 340, B 40, H 270	30	5,8	without battery		MOM	
671737.00X.1.89	L 340, B 40, H 270	30	5,8	without battery		AC-Control	



Pendant tube set for self-contained safety luminaires			Price Category 23
981639.010	LP 500	for standard variants, Viewing distance 14 m + 19 m	
981639.040	LP 500	for MultiDigit (.04) / DALI (.07), Viewing distance 14 m + 19 m	
981647.010	LP 500	for standard variants, Viewing distance 30 m	
981647.040	LP 500	for MultiDigit (.04) / DALI (.07), Viewing distance 30 m	

Pendant tube set for luminaires for central battery system			Price Category 23
981639.060	LP 500	for standard variants, Viewing distance 14 m + 19 m	
981639.020	LP 500	for MOM (.88) / AC-Control (.89), Viewing distance 14 m + 19 m	
981647.000	LP 500	for standard variants, Viewing distance 30 m	
981647.020	LP 500	for MOM (.88) / AC-Control (.89), Viewing distance 30 m	

Mounting kit for chains/cable suspensions			Price Category 23
981701.004	L 213, B 33, H 77	for viewing distance 14 m + 19 m	
981702.004	L 318, B 33, H 57	for viewing distance 30 m	

Suspension cable set			Price Category 23
982763.000	LP 3000	Set with 2 steel cables, rapid adjusters and fastening material	

Wall extension			Price Category 24
981581.004	L 258, B 38, H 104	for viewing distance 14 m + 19 m	
981640.004	L 363, B 38, H 104	for viewing distance 30 m	



Recessed ceiling luminaires | Halyxx

Type of Protection: IP 40

Protection Class: I

Ceiling thickness S: 5-35 mm

Impact Protection: IK03

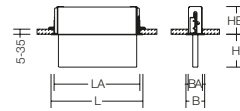
For escape route identification

Installation housing sheet steel. Ceiling plate stainless steel high polish or powder-coated.

Display panel: highly transparent panel, plastic, with legend on one side/both sides.

Please specify legend number when ordering!

Available colours (X): 2 = white, 3 = black, 4 = stainless steel



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	[m]	System power [W]	Battery	[h]	Monitoring	Price Category 23
Self-contained safety luminaires							
Display panel: plastic 170 x 100 mm – Ceiling cut out LA 255 x BA 42 mm							
671518.00X.1	L 270, B 55, H 100	14	4,7	NiMh	3	Autotest	
671518.00X.1.04	L 270, B 55, H 100	14	4,7	NiMh	3	MultiDigit	
671518.00X.1.07	L 270, B 55, H 100	14	4,7	NiMh	3	DALI-Sibe	
672459.00X.1	L 270, B 55, H 100	14	4,7	NiMh	8	Autotest	
672459.00X.1.04	L 270, B 55, H 100	14	4,7	NiMh	8	MultiDigit	
672459.00X.1.07	L 270, B 55, H 100	14	4,7	NiMh	8	DALI-Sibe	
Display panel: plastic 235 x 140 mm – Ceiling cut out LA 305 x BA 42 mm							
671750.00X.1	L 320, B 55, H 140	19	4,7	NiMh	3	Autotest	
671750.00X.1.04	L 320, B 55, H 140	19	4,7	NiMh	3	MultiDigit	
671750.00X.1.07	L 320, B 55, H 140	19	4,7	NiMh	3	DALI-Sibe	
671897.00X.1	L 320, B 55, H 140	19	4,7	NiMh	8	Autotest	
671897.00X.1.04	L 320, B 55, H 140	19	4,7	NiMh	8	MultiDigit	
671897.00X.1.07	L 320, B 55, H 140	19	4,7	NiMh	8	DALI-Sibe	
Display panel: plastic 340 x 190 mm – Ceiling cut out LA 410 x BA 42 mm							
671752.00X.1	L 424, B 55, H 190	30	5,8	NiMh	3	Autotest	
671752.00X.1.04	L 424, B 55, H 190	30	5,8	NiMh	3	MultiDigit	
671752.00X.1.07	L 424, B 55, H 190	30	5,8	NiMh	3	DALI-Sibe	
671914.00X.1	L 424, B 55, H 190	30	5,8	NiMh	8	Autotest	
671914.00X.1.04	L 424, B 55, H 190	30	5,8	NiMh	8	MultiDigit	
671914.00X.1.07	L 424, B 55, H 190	30	5,8	NiMh	8	DALI-Sibe	

Luminaires for central battery system							Price Category 24
Display panel: plastic 170 x 100 mm – Ceiling cut out LA 255 x BA 42 mm							
671519.00X.1	L 270, B 55, H 100	14	3,7	without battery		Standard	
671519.00X.1.88	L 270, B 55, H 100	14	4,7	without battery		MOM	
671519.00X.1.89	L 270, B 55, H 100	14	4,7	without battery		AC-Control	
Display panel: plastic 235 x 140 mm – Ceiling cut out LA 305 x BA 42 mm							
671739.00X.1	L 320, B 55, H 140	19	3,7	without battery		Standard	
671739.00X.1.88	L 320, B 55, H 140	19	4,7	without battery		MOM	
671739.00X.1.89	L 320, B 55, H 140	19	4,7	without battery		AC-Control	
Display panel: plastic 340 x 190 mm – Ceiling cut out LA 410 x BA 42 mm							
671740.00X.1	L 424, B 55, H 190	30	4,8	without battery		Standard	
671740.00X.1.88	L 424, B 55, H 190	30	5,8	without battery		MOM	
671740.00X.1.89	L 424, B 55, H 190	30	5,8	without battery		AC-Control	

Concrete box							Price Category 21
981685.000	L 542, B 142, H 143			for viewing distance 14 m			
981686.000	L 542, B 142, H 143			for viewing distance 19 m			
981687.000	L 542, B 142, H 143			for viewing distance 30 m			





GSUN® S

Ceiling and wall luminaires

- Escape sign luminaire with highly efficient LED technology
- Housing made of top quality aluminium
- The very latest LED technology keeps maintenance costs to a minimum
- LED rated life 50,000 h
- Set of 5 legends included for easy attachment
- Suitable for mounting on either a ceiling or a wall by simply changing the end caps

Legends for escape route identification -
ISO 7010 | DIN 4844

Background colour: green



3003



3004



3006



3005



3113



3114



3116



3115

Do you require a special sign on the fitting? If yes, please be so kind as to let us know.

Ceiling and wall luminaires | GSUN S

Type of Protection: IP 30

Protection Class: I

Impact Protection: IK03

For escape route identification

Housing: extruded aluminium profile, powder-coated. Universal mounting kit for ceiling and wall surface mounting. 4 legends and 1 white plug-in plastic sheet included.

Available colours (X): 2 = white, 4 = silver coloured



Self-contained safety luminaires

Voltage type: AC



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires						Price Category 23
672217.00X.1 .Q	L 247, B 45, H 195	24	4,7	NiCd	1/3/8	Autotest
672217.00X.1.04	L 247, B 45, H 195	24	4,7	NiMh	3	MultiDigit
672217.00X.1.07	L 247, B 45, H 195	24	4,7	NiMh	3	DALI-Sibe
672218.002.1	L 327, B 45, H 237	32	5,5	NiCd	1/3/8	Autotest
672218.004.1 .Q	L 327, B 45, H 237	32	5,5	NiCd	1/3/8	Autotest
672218.00X.1.04	L 327, B 45, H 237	32	5,5	NiMh	3	MultiDigit
672218.00X.1.07	L 327, B 45, H 237	32	5,5	NiMh	3	DALI-Sibe
Luminaires for central battery system						Price Category 24
671983.00X.2	L 247, B 45, H 194	24	3,7	without battery		Standard
671983.00X.2.88	L 247, B 45, H 194	24	4,7	without battery		MOM
671983.00X.2.89	L 247, B 45, H 194	24	4,7	without battery		AC-Control
671985.00X.2	L 327, B 45, H 237	32	4,5	without battery		Standard
671985.00X.2.88	L 327, B 45, H 237	32	5,5	without battery		MOM
671985.00X.2.89	L 327, B 45, H 237	32	5,5	without battery		AC-Control



Pendant tube set			Price Category 23
981777.01X.1	LP 500	for standard variants	
981777.03X.1	LP 500	for MultiDigit (.04) / DALI (.07) / MOM (.88) / AC-Control (.89)	



Suspension cable set			Price Category 23
982763.000	LP 3000	Set with 2 steel cables, rapid adjusters and fastening material	

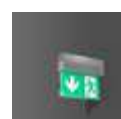
Mounting sets			Price Category 23
981780.00X.1	L 238, B 40, H 32	Mounting kit for chains/cable suspensions	



Mounting frame for recessed ceiling mounting			Price Category 23
981883.00X.1	L 330, B 68, H 1, LA 300, BA 52, HE 75	for viewing distance 24 m	
981884.00X.1	L 406, B 68, H 1, LA 370, BA 52, HE 75	for viewing distance 32 m	



Wall bracket			Price Category 23
981779.00X.1	L 260, B 46, H 90	for viewing distance 24 m	
981797.00X.1	L 338, B 46, H 90	for viewing distance 32 m	



Escape route motif foils			Price Category 23
991126.04	4 motif foils 1 each of 3113, 3114, 3115, 3116)	for viewing distance 24 m	
991129.03	4 motif foils (1 each of 3113, 3114, 3115, 3116)	for viewing distance 32 m	



GSUN® D

Ceiling and wall luminaires

- Housing made of top quality aluminium
- Adjustable rated operating time 1/3/8 hrs (only for versions without BUS connection)
- The very latest LED technology keeps maintenance costs to a minimum
- LED rated life 50,000 h
- Standard automatic self-test (self contained luminaires)
- 5 easy to lay in legends included
- Suitable for mounting on either a ceiling or a wall by simply changing the end caps

Legends for escape route identification - ISO 7010 | DIN 4844

Background colour: green



3003



3004



3006



3005



3113



3114



3116



3115

Do you require a special sign on the fitting? If yes, please be so kind as to let us know.

Ceiling and wall luminaires | GSUN D

Type of Protection: IP 30

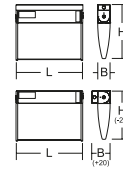
Protection Class: I

Impact Protection: IK03

For escape route identification

Housing: extruded aluminium profile, powder-coated. Universal mounting kit for ceiling and wall surface mounting. 4 legends and 1 white lay in plastic sheet included.

Available colours (X): 2 = white, 4 = silver coloured



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.



Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	Price Category 23
Self-contained safety luminaires							
672219.00X.1.Q	L 247, B 45, H 200	24	4,7	NiCd	1/3/8	Autotest	
672219.00X.1.04	L 247, B 45, H 200	24	4,7	NiMH	3	MultiDigit	
672219.00X.1.07	L 247, B 45, H 200	24	4,7	NiCd	3	DALI-Sibe	
Luminaires for central battery system							Price Category 24
671996.00X.2	L 247, B 45, H 202	24	3,7	without battery		Standard	
671996.00X.2.88	L 247, B 45, H 202	24	4,7	without battery		MOM	
671996.00X.2.89	L 247, B 45, H 202	24	4,7	without battery		AC-Control	



Pendant tube set			Price Category 23			
981777.01X.1	LP 500	for standard variants				
981777.03X.1	LP 500	for MultiDigit (.04) / DALI (.07) / MOM (.88) / AC-Control (.89)				



Suspension cable set			Price Category 23			
982763.000	LP 3000	Set with 2 steel cables, rapid adjusters and fastening material				

Mounting sets			Price Category 23			
981780.00X.1	L 238, B 40, H 32	Mounting kit for chains/cable suspensions				



Mounting frame for recessed ceiling mounting			Price Category 23			
982224.00X.1	L 330, B 68, H 1, HE 75, LA 300, BA 60, HE 75					



Wall bracket			Price Category 23			
981779.00X.1	L 260, B 46, H 90	for viewing distance 24 m				



Escape route motif foils			Price Category 23			
991130.04	4 motif foils (1 each of 3113, 3114, 3115, 3116)					



EXEO

Ceiling and wall luminaires

- Housing made of shockproof plastic (polycarbonate)
- Self-contained luminaires with 3h rated operating time
- The very latest LED technology keeps maintenance costs to a minimum
- LED rated life 50,000 h
- Standard automatic self-test
- 5 easy to lay in legends included
- With adapter for wall mounting

Legends for escape route identification - ISO 7010 | DIN 4844

Background colour: green



3003



3004



3006



3005

Do you require a special sign on the fitting? If yes, please be so kind as to let us know.

Ceiling and wall luminaires | Exeo D

Type of Protection: **IP 54**

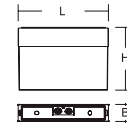
Protection Class: II

Impact Protection: IK03

For escape route identification

Housing: shockproof plastic (polycarbonate). Includes 4 legends and 1 white lay in plastic sheet for fitting in the transparent cover. Mounting bracket for wall mounting and two sealing screws included.

Available colour: 2 = white





Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	Price Category 23
Self-contained safety luminaires							
672400.002 .Q	L 255, B 48, H 177	24	4	NiMh	3	Autotest	



Wall mounting

Ceiling and wall luminaires | Exeo S

Type of Protection: **IP 54**

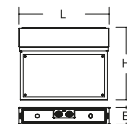
Protection Class: II

Impact Protection: IK03

For escape route identification

Housing: shockproof plastic (polycarbonate). Display panel: highly transparent panel, plastic, with legend on one side/both sides. Includes 4 legends and 1 white lay in plastic sheet with mounting pins to attach them with. Mounting bracket for wall mounting and two sealing screws included.

Available colour: 2 = white





Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	Price Category 23
Self-contained safety luminaires							
672420.002 .Q	L 255, B 48, H 204	24	4	NiMh	3	Autotest	





CENTRYXX®

Wall luminaires

- For signposting and illuminating of fire fighting equipment and call points and of first aid posts according DIN EN 1838
- IP 65 type of protection - dustproof and protected against water jets from all directions
- The legend is viewable from three sides
- Additional downward emitting LED to illuminate the equipment with min. 5 lx
- Impact resistant plastic diffuser is suitable for robust environmental requirements
- Suitable for use in the food and drink industry
- Individual legends are possible

Legend with green or red background color
(others on request)



4001



4002



3310



3308

Legends for escape route identification -
ISO 7010 | DIN 4844

Background colour: green



3203



3204



3205



3206

Wall luminaires | Centryxx D

Type of Protection: IP 65

Protection Class: I

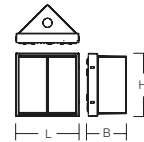
Impact Protection: IK05

For signposting and illuminating of fire fighting equipment and call points and of first aid posts

Base: pressure die-cast aluminium, powder-coated. Diffuser polycarbonate in prismatic shape. Legend both sides, in 90° angle arranged. Downward light emission with elliptical character.

Indicate required motif when placing your order!

Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.



Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires						Price Category 23
672165.002	L 199, B 125, H 199	24	7,1	NiMh	3	Autotest
672165.002.04	L 199, B 125, H 199	24	7,1	NiMh	3	MultiDigit
672165.002.07	L 199, B 125, H 199	24	7,1	NiMh	3	DALI-Sibe



Luminaires for central battery system						Price Category 24
672164.002	L 199, B 125, H 199	24	6,1	without battery		Standard
672164.002.88	L 199, B 125, H 199	24	7,1	without battery		MOM
672164.002.89	L 199, B 125, H 199	24	7,1	without battery		AC-Control



Mounting sets			Price Category 23
982274.002	L 110, B 104, H 14	Mounting set for through wiring surface installation	



MULTIVARIABEL

Ceiling and wall luminaires, Pendant luminaires

- IP 54 type of protection - dustproof and protected against water spray
- Suitable for ceiling and wall mounting
- LED rated life 50,000 h
- Easy to install
- 4 legends for escape route identification included

Legends for escape route identification - ISO 7010 | DIN 4844

Background colour: green



3003



3004



3006



3005

Do you require a special sign on the fitting? If yes, please be so kind as to let us know.

Ceiling and wall luminaires | Multivariabel

Type of Protection: **IP 54** for indoor use

Protection Class: I

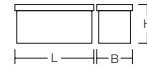
Impact Protection: IK03

For escape route identification

Base: aluminium, powder-coated. Diffuser: plastic, opal.

4 legends for escape route identification included.

Available colour: 2 = white



Ceiling mounting

Self-contained safety luminaires

Voltage type: AC



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	
Self-contained safety luminaires							Price Category 23
672245.002.1	L 274, B 125, H 139	21	3,8	NiMh	3	Autotest	
672245.002.1.04	L 274, B 125, H 139	21	3,8	NiMh	3	MultiDigit	
672245.002.1.07	L 274, B 125, H 139	21	3,8	NiMh	3	DALI-Sibe	
Luminaires for central battery system							Price Category 24
672247.002.1	L 274, B 125, H 139	21	3,2	without battery		Standard	
672247.002.1.88	L 274, B 125, H 139	21	4,2	without battery		MOM	
672247.002.1.89	L 274, B 125, H 139	21	4,2	without battery		AC-Control	
Ball impact guard							Price Category 23
981167.002	L 380, B 295, H 185						



Pendant luminaires | Multivariabel

Type of Protection: **IP 54** for indoor use

Protection Class: I

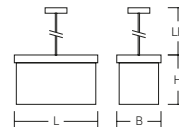
Impact Protection: IK03

For escape route identification

Base: aluminium, powder-coated. Canopy: plastic, white. Pendant tube: chrome.

Diffuser: plastic, opal. 4 legends for escape route identification included.

Available colour: 2 = white



Self-contained safety luminaires



Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	
Self-contained safety luminaires							Price Category 23
672246.002.1	L 274, B 125, H 131	21	3,8	NiMh	3	Autotest	
672246.002.1.04	L 274, B 125, H 131	21	3,8	NiMh	3	MultiDigit	
672246.002.1.07	L 274, B 125, H 131	21	3,8	NiMh	3	DALI-Sibe	
Luminaires for central battery system							Price Category 24
672248.002.1	L 274, B 125, H 131	21	3,2	without battery		Standard	
672248.002.1.88	L 274, B 125, H 131	21	4,2	without battery		MOM	
672248.002.1.89	L 274, B 125, H 131	21	4,2	without battery		AC-Control	





MINISIGN

Ceiling and wall luminaires

- Extremely low profile
- Inconspicuous design
- Suitable for mounting on either a ceiling or a wall by simply changing the end caps
- Reliable and long life LED technology
- Easy to install
- Standard automatic self-test
- 4 legends for escape route identification included

Legends for escape route identification - ISO 7010 | DIN 4844

Background colour: green



3003



3004



3006



3005

Do you require a special sign on the fitting? If yes, please be so kind as to let us know.

Ceiling and wall luminaires | Minisign

Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK03

For escape route identification

Base: metal, powder-coated. Diffuser: plastic (polycarbonate), opal.

4 legends for escape route identification included.

Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Ceiling mounting

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires						Price Category 23
672188.002	L 230, B 103, H 76	14	4,8	NiMh	3	Autotest
672188.002.04	L 230, B 103, H 76	14	4,8	NiMh	3	MultiDigit
672188.002.07	L 230, B 103, H 76	14	4,8	NiMh	3	DALI-Sibe
672189.002	L 230, B 103, H 76	14	4,8	NiMh	8	Autotest
672189.002.04	L 230, B 103, H 76	14	4,8	NiMh	8	MultiDigit
672189.002.07	L 230, B 103, H 76	14	4,8	NiMh	8	DALI-Sibe
Luminaires for central battery system						Price Category 24
672190.002	L 230, B 106, H 76	14	3,8	without battery		Standard
672190.002.88	L 230, B 106, H 76	14	4,8	without battery		MOM
672190.002.89	L 230, B 106, H 76	14	4,8	without battery		AC-Control





VARIOPLAST I

Wall luminaires

- Dust proof; protected against sprayed water (IP 65)
- Ball impact protection in accordance with DIN 18032-03
- Installation-friendly construction with mounting plate
- 4 legends for escape route identification included
- ▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected

Legends for escape route identification - ISO 7010 | DIN 4844

Background colour: green



3003



3004



3006



3005

Do you require a special sign on the fitting? If yes, please be so kind as to let us know.



Further luminaires of this series, see:
Emergency lighting | Escape route illumination

Wall luminaires | Varioplast I

Type of Protection: **IP 65**

Protection Class: I

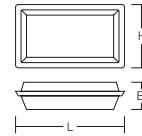
Impact Protection: IK08

For escape route identification

Base: plastic (polycarbonate). Diffuser: shockproof plastic (polycarbonate). 4 legends for escape route identification included. Ball impact proof in accordance with DIN 18032-03.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colours (X): 2 = white, 3 = black



Self-contained safety luminaires

Voltage type: AC



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	
Self-contained safety luminaires							Price Category 23
672126.00X	L 320, B 80, H 186	24	5,8	NiCd	3	Autotest	
672126.00X.04	L 320, B 80, H 186	24	5,8	NiCd	3	MultiDigit	
672126.00X.07	L 320, B 80, H 186	24	5,8	NiCd	3	DALI-Sibe	
672175.00X	L 320, B 80, H 186	24	5,8	NiCd	8	Autotest	
672175.00X.04	L 320, B 80, H 186	24	5,8	NiCd	8	MultiDigit	
672175.00X.07	L 320, B 80, H 186	24	5,8	NiCd	8	DALI-Sibe	
Luminaires for central battery system							Price Category 24
672128.00X	L 320, B 80, H 186	24	4,8	without battery		Standard	
672128.00X.88	L 320, B 80, H 186	24	5,8	without battery		MOM	
672128.00X.89	L 320, B 80, H 186	24	5,8	without battery		AC-Control	



Weatherproof housing			Price Category 24			
982477.014	L 383, B 220, H 109	silver metallic				





VARIOPLAST II

Ceiling and wall luminaires

- Designed for large viewing distances
- Installation-friendly construction with mounting plate
- IP 54 type of protection - dustproof and protected against water spray
- Luminaire with enclosed accessories suitable for wall, ceiling, cable and chain pendant installation

Legends for escape route identification - ISO 7010 | DIN 4844

Background colour: green



3003



3004



3006



3005

Do you require a special sign on the fitting? If yes, please be so kind as to let us know.

Ceiling and wall luminaires | Varioplast II

Type of Protection: **IP 54**

Protection Class: II

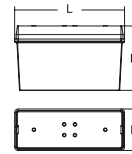
Impact Protection: IK06

For escape route identification

Base: plastic (polycarbonate). Diffuser: plastic (polycarbonate), opal, shockproof.

4 legends for escape route identification included. With enclosed accessories suitable for wall, ceiling, cable and chain pendant installation.

Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	
Self-contained safety luminaires							Price Category 23
672332.002	L 370, B 140, H 218	32	4,6	NiMh	3	Autotest	
672332.002.04	L 370, B 140, H 218	32	4,6	NiMh	3	MultiDigit	
672332.002.07	L 370, B 140, H 218	32	4,6	NiMh	3	DALI-Sibe	
Luminaires for central battery system							Price Category 24
672331.002	L 370, B 140, H 218	32	3,6	without battery		Standard	
672331.002.88	L 370, B 140, H 218	32	4,6	without battery		MOM	
672331.002.89	L 370, B 140, H 218	32	4,6	without battery		AC-Control	





GSUN® 2

Wall luminaires

- Universal luminaire for 3 hours of operating time in emergency mode
- 4 legends for escape route identification included
- Reliable and long life LED technology
- LED rated life 50,000 h
- Very low power consumption

Legends for escape route identification - ISO 7010 | DIN 4844

Background colour: green



3003



3004



3006



3005

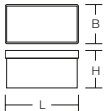
Do you require a special sign on the fitting? If yes, please be so kind as to let us know.

Wall luminaires | GSUN 2

Type of Protection: IP 40
 Protection Class: II
 Impact Protection: IK03



For escape route identification

Base: plastic, grey. Diffuser: plastic, opal. 4 legends for escape route identification included.
 Fitted as standard with test button.
 Available colour: 9 = grey



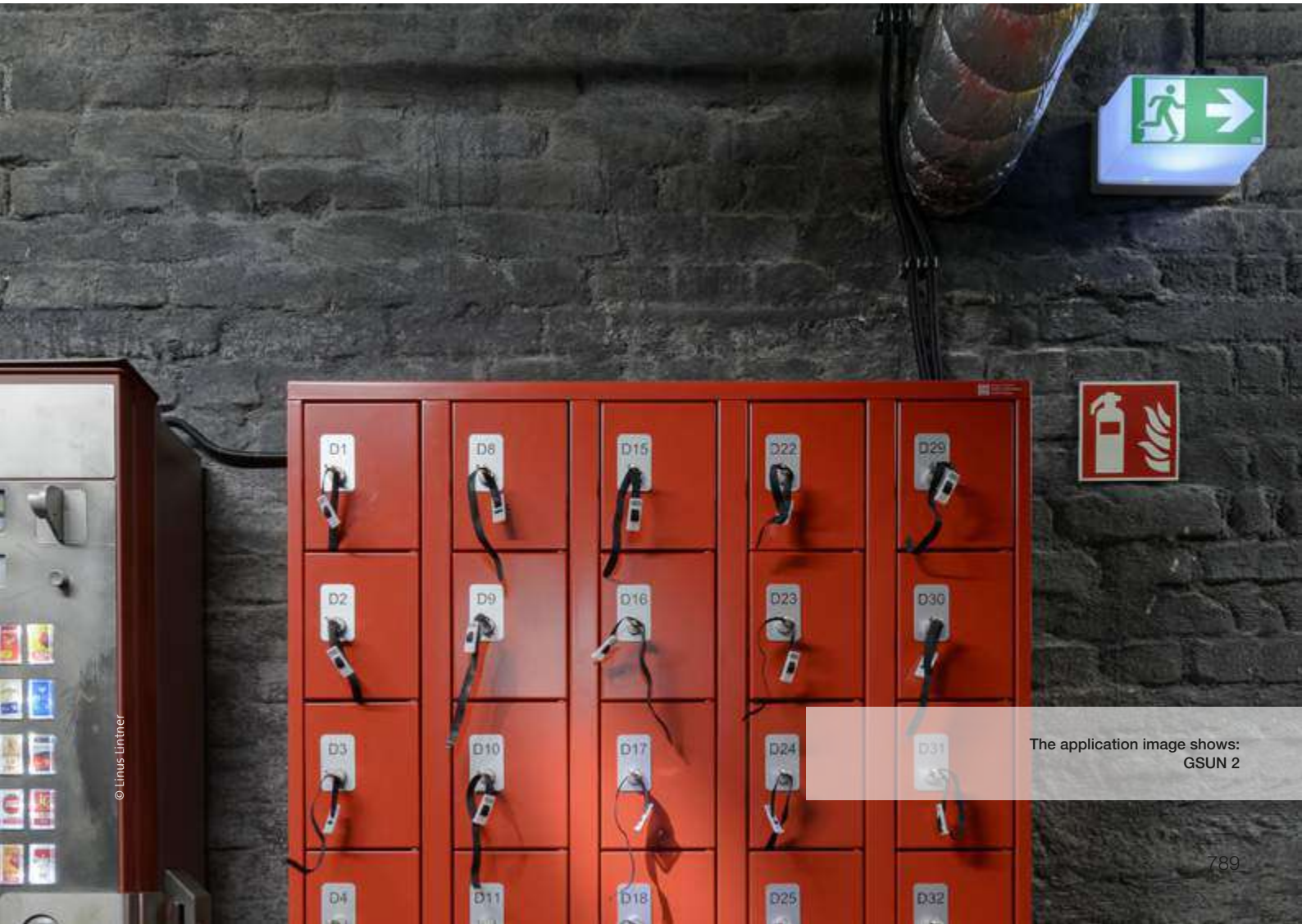
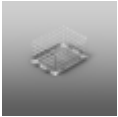
Self-contained safety luminaires

Voltage type: AC
 Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	Price Category 23
Self-contained safety luminaires							
651817.009	L 215, B 115, H 110	19	2	NiCd	3	Standard	



Ball impact guard						Price Category 23
981167.002	L 380, B 295, H 185					





GSUN® 3

Ceiling and wall luminaires, Wall luminaires

- IP 54 type of protection - dustproof and protected against water spray
- All-plastic luminaires, shockproof
- Wide range of applications thanks to either surface or recessed ceiling installation
- 4 legends for escape route identification included
- Low-cost installation
- LED rated life 50,000 h

Legends for escape route identification - ISO 7010 | DIN 4844

Background colour: green



3003



3004



3006



3005

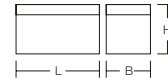
Do you require a special sign on the fitting? If yes, please be so kind as to let us know.

Ceiling and wall luminaires | GSUN 3

Type of Protection: **IP 54** for indoor use
Protection Class: II (I for .04)
Impact Protection: IK03

For escape route identification

Base: plastic. Diffuser: plastic, opal. 4 legends for escape route identification included.
Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

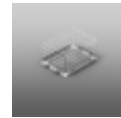
Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires						Price Category 23
671780.002..Q	L 240, B 126, H 145	21	4,6	NiCd	3	Autotest
671780.002.04	L 240, B 126, H 145	21	4,6	NiCd	3	MultiDigit
671909.002	L 240, B 126, H 145	21	4,6	NiCd	8	Autotest
671909.002.04	L 240, B 126, H 145	21	4,6	NiCd	8	MultiDigit
Luminaires for central battery system						Price Category 24
671782.002	L 240, B 126, H 145	21	3,6	without battery		Standard
671782.002.89	L 240, B 126, H 145	21	4,6	without battery		AC-Control
671782.002.88	L 240, B 126, H 145	21	4,6	without battery		MOM



Ball impact guard		Price Category 23
981167.002	L 380, B 295, H 185	



Pendant tube		Price Category 23
90-4164.002	Pendant length LP 500	



Suspension cable set		Price Category 23
982763.000	LP 3000	Set with 2 steel cables, rapid adjusters and fastening material

Mounting sets		Price Category 23
982641.000	L 170, B 100, H 24	Mounting kit for chains/cable suspensions



Wall extension		Price Category 23
981144.002	L 251, B 131, H 60	



**Wall luminaires | GSUN 3**

Type of Protection: **IP 54** for indoor use
 Protection Class: II (I for .04)
 Impact Protection: IK03

For escape route identification

Base: plastic. Diffuser: plastic, opal. 4 legends for escape route identification included.
 Available colour: 2 = white

**Self-contained safety luminaires**

Voltage type: AC

Automatic self test in all standard versions.



Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires						Price Category 23
671707.002 .Q	L 240, B 126, H 78	21	4,6	NiCd	3	Autotest
671707.002.04	L 240, B 126, H 78	21	4,6	NiCd	3	MultiDigit
671908.002	L 240, B 126, H 78	21	4,6	NiCd	8	Autotest
671908.002.04	L 240, B 126, H 78	21	4,6	NiCd	8	MultiDigit
Luminaires for central battery system						Price Category 24
671775.002	L 243, B 127, H 78	21	3,6	without battery		Standard
671775.002.88	L 243, B 127, H 78	21	4,6	without battery		MOM
671775.002.89	L 243, B 127, H 78	21	4,6	without battery		AC-Control

Ball impact guard**Price Category 23**

981167.002 L 380, B 295, H 185





GSUN® 4

Ceiling and wall luminaires, Wall luminaires

- IP 54 type of protection - dustproof and protected against water spray
- All-plastic luminaires, shockproof
- Wide range of applications thanks to either surface or recessed ceiling installation
- 4 legends for escape route identification included
- Low-cost installation
- LED rated life 50,000 h

Legends for escape route identification - ISO 7010 | DIN 4844

Background colour: green



3003



3004



3006



3005

Do you require a special sign on the fitting? If yes, please be so kind as to let us know.

Ceiling and wall luminaires | GSUN 4

Type of Protection: **IP 54** for indoor use

Protection Class: II (I for .04)

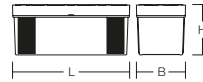
Impact Protection: IK03

For escape route identification

Base: plastic (polycarbonate). Diffuser: plastic (polycarbonate), opal.

4 legends for escape route identification included.

Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires						Price Category 23
671819.002 .Q	L 344, B 144, H 148	21	7	NiCd	3	Autotest
671819.002.04	L 344, B 144, H 148	21	7	NiCd	3	MultiDigit
671907.002	L 344, B 144, H 148	21	7	NiCd	8	Autotest
671907.002.04	L 344, B 144, H 148	21	7	NiCd	8	MultiDigit
Luminaires for central battery system						Price Category 24
671820.002	L 344, B 144, H 148	21	6	without battery		Standard
671820.002.88	L 344, B 144, H 148	21	7	without battery		MOM
671820.002.89	L 344, B 144, H 148	21	7	without battery		AC-Control



Ball impact guard		Price Category 23
981167.002	L 380, B 295, H 185	



Pendant tube		Price Category 23
90-4164.002	Pendant length LP 500	



Suspension cable set		Price Category 23
982763.000	LP 3000	Set with 2 steel cables, rapid adjusters and fastening material

Mounting sets		Price Category 24
981583.002	L 295, B 135, H 26	Mounting kit for chains/cable suspensions

Wall extension		Price Category 23
981485.002	L 374, B 147, H 75	



**Wall luminaires | GSUN 4**

Type of Protection: **IP 54** for indoor use
 Protection Class: II (I for .04)
 Impact Protection: IK03

**For escape route identification or escape route illumination**

Base: plastic (polycarbonate). Refractor: plastic (polycarbonate), transparent, prismatic.
 4 legends for escape route identification included.

Available colour: 2 = white

Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.



Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires						Price Category 23
671792.002 .Q	L 344, B 144, H 78	25	7	NiCd	3	Autotest
671792.002.04	L 344, B 144, H 78	25	7	NiCd	3	MultiDigit
671906.002	L 344, B 144, H 78	25	7	NiCd	8	Autotest
671906.002.04	L 344, B 144, H 78	25	7	NiCd	8	MultiDigit
Luminaires for central battery system						Price Category 24
671793.002	L 344, B 144, H 78	25	6	without battery		Standard
671793.002.88	L 344, B 144, H 78	25	7	without battery		MOM
671793.002.89	L 344, B 144, H 78	25	7	without battery		AC-Control

**Ball impact guard****Price Category 23**

981167.002 L 380, B 295, H 185

**Pendant tube****Price Category 23**

90-4164.002 Pendant length LP 500

Mounting sets**Price Category 24**

981583.002 L 295, B 135, H 26 Mounting kit for chains/cable suspensions

**Wall extension****Price Category 23**

981485.002 L 374, B 147, H 75





RECHTECK

Wall luminaires, Extensions, Ceiling luminaires, Pendant luminaires

- High quality aluminium profile housing
- Wide range of applications thanks to various types of installation

Legends for escape route identification -
ISO 7010 | DIN 4844

Background colour: green



3003



3004



3006



3005

Do you require a special sign on
the fitting? If yes, please be so
kind as to let us know.

Wall luminaires | Rechteck

Type of Protection: IP 44

Protection Class: I

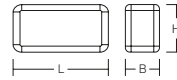
Impact Protection: IK03

For escape route identification

Housing: aluminium, with plastic corner connectors. Display panel: plastic, opal, with legend on one side. Light emission: downwards.

Please specify legend number when ordering!

Available colours (X): 2 = white, 4 = aluminium, anodised



Self-contained safety luminaires

Voltage type: AC



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	Price Category 23
Self-contained safety luminaires							
Rechteck 250							
671045.00X	L 250, B 90, H 140	21	4,7	NiCd	3	Autotest	
671045.00X.04	L 250, B 90, H 140	21	4,7	NiCd	3	MultiDigit	
Rechteck 360							
671061.00X	L 362, B 90, H 192	32	5,8	NiCd	3	Autotest	
671061.00X.04	L 362, B 90, H 192	32	5,8	NiCd	3	MultiDigit	
Rechteck 485							
671077.00X	L 485, B 90, H 250	43	5,8	NiMh	3	Autotest	
671077.00X.04	L 485, B 90, H 250	43	5,8	NiMh	3	MultiDigit	
Luminaires for central battery system							
Rechteck 250							
671207.00X	L 250, B 90, H 140	21	3,7	without battery		Standard	
671207.00X.88	L 250, B 90, H 140	21	4,7	without battery		MOM	
671207.00X.89	L 250, B 90, H 140	21	4,7	without battery		AC-Control	
Rechteck 360							
671215.00X	L 362, B 90, H 192	32	4,8	without battery		Standard	
671215.00X.88	L 362, B 90, H 192	32	5,8	without battery		MOM	
671215.00X.89	L 362, B 90, H 192	32	5,8	without battery		AC-Control	
Rechteck 485							
671229.00X	L 485, B 90, H 250	43	4,8	without battery		Standard	
671229.00X.88	L 485, B 90, H 250	43	5,8	without battery		MOM	
671229.00X.89	L 485, B 90, H 250	43	5,8	without battery		AC-Control	



Ball impact guard		Price Category 23					
981167.002	L 380, B 295, H 185						
981168.002	L 540, B 375, H 185						





Extensions | Rechteck

Type of Protection: **IP 44**

Protection Class: I

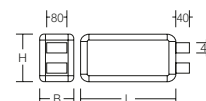
Impact Protection: IK03

For escape route identification

Housing: aluminium, with plastic corner connectors. Display panels: plastic, opal, with motifs on both sides. Light emission: downwards.

Please specify legend number when ordering!

Available colours (X): 2 = white, 4 = aluminium, anodised



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.



Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	Price Category 23
Self-contained safety luminaires							
Rechteck 250							
671049.00X	L 250, B 125, H 140	21	6,9	NiCd	3	Autotest	
671049.00X.04	L 250, B 125, H 140	21	6,9	NiCd	3	MultiDigit	
Rechteck 360							
671065.00X	L 362, B 125, H 192	32	9,1	NiMh	3	Autotest	
671065.00X.04	L 362, B 125, H 192	32	9,1	NiMh	3	MultiDigit	
Rechteck 485							
671081.00X	L 485, B 125, H 250	43	9,1	NiMh	3	Autotest	
671081.00X.04	L 485, B 125, H 250	43	9,1	NiMh	3	MultiDigit	



Luminaires for central battery system							Price Category 24
Rechteck 250							
671209.00X	L 250, B 125, H 140	21	5,9	without battery		Standard	
671209.00X.88	L 250, B 125, H 140	21	6,9	without battery		MOM	
671209.00X.89	L 250, B 125, H 140	21	6,9	without battery		AC-Control	
Rechteck 360							
671217.00X	L 362, B 125, H 192	32	8,1	without battery		Standard	
671217.00X.88	L 362, B 125, H 192	32	9,1	without battery		MOM	
671217.00X.89	L 362, B 125, H 192	32	9,1	without battery		AC-Control	
Rechteck 485							
671231.00X	L 485, B 125, H 250	43	8,1	without battery		Standard	
671231.00X.88	L 485, B 125, H 250	43	9,1	without battery		MOM	
671231.00X.89	L 485, B 125, H 250	43	9,1	without battery		AC-Control	

Ceiling luminaires | Rechteck

Type of Protection: **IP 44**

Protection Class: I

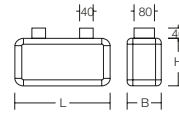
Impact Protection: IK03

For escape route identification

Housing: aluminium, with plastic corner connectors. Display panels: plastic, opal, with motifs on both sides. Light emission: downwards.

Please specify legend number when ordering!

Available colours (X): 2 = white, 4 = aluminium, anodised



Self-contained safety luminaires

Voltage type: AC



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	Price Category 23
Self-contained safety luminaires							
Rechteck 250							
671053.00X	L 250, B 125, H 140	21	6,9	NiCd	3	Autotest	
671053.00X.04	L 250, B 125, H 140	21	6,9	NiCd	3	MultiDigit	
Rechteck 360							
671069.00X	L 362, B 125, H 192	32	9,1	NiMH	3	Autotest	
671069.00X.04	L 362, B 125, H 192	32	9,1	NiMH	3	MultiDigit	
Rechteck 485							
671085.00X	L 485, B 125, H 250	43	9,1	NiMH	3	Autotest	
671085.00X.04	L 485, B 125, H 250	43	9,1	NiMH	3	MultiDigit	
Luminaires for central battery system							
Rechteck 250							
671211.00X	L 250, B 125, H 140	21	5,9	without battery		Standard	
671211.00X.88	L 250, B 125, H 140	21	6,9	without battery		MOM	
671211.00X.89	L 250, B 125, H 140	21	6,9	without battery		AC-Control	
Rechteck 360							
671223.00X	L 362, B 125, H 192	32	8,1	without battery		Standard	
671223.00X.88	L 362, B 125, H 192	32	9,1	without battery		MOM	
671223.00X.89	L 362, B 125, H 192	32	9,1	without battery		AC-Control	
Rechteck 485							
671233.00X	L 485, B 125, H 250	43	8,1	without battery		Standard	
671233.00X.88	L 485, B 125, H 250	43	9,1	without battery		MOM	
671233.00X.89	L 485, B 125, H 250	43	9,1	without battery		AC-Control	





Pendant luminaires | Rechteck

Type of Protection: **IP 44**

Protection Class: I

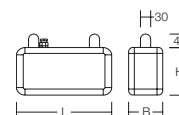
Impact Protection: IK03

For escape route identification

Housing: aluminium, with plastic corner connectors. Display panels: plastic, opal, with motifs on both sides. Cable/chain suspension (on site).

Please specify legend number when ordering!

Available colours (X): 2 = white, 4 = aluminium, anodised



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.



Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires						Price Category 23
Rechteck 250						
671343.00X	L 250, B 125, H 140	21	6,9	NiCd	3	Autotest
671343.00X.04	L 250, B 125, H 140	21	6,9	NiCd	3	MultiDigit
Rechteck 360						
671347.00X	L 362, B 125, H 192	32	9,1	NiMh	3	Autotest
671347.00X.04	L 362, B 125, H 192	32	9,1	NiMh	3	MultiDigit
Rechteck 485						
671351.00X	L 485, B 125, H 250	43	9,1	NiMh	3	Autotest
671351.00X.04	L 485, B 125, H 250	43	9,1	NiMh	3	MultiDigit



Luminaires for central battery system						Price Category 24
Rechteck 250						
671359.00X	L 250, B 125, H 140	21	5,9	without battery		Standard
671359.00X.88	L 250, B 125, H 140	21	6,9	without battery		MOM
671359.00X.89	L 250, B 125, H 140	21	6,9	without battery		AC-Control
Rechteck 360						
671363.00X	L 362, B 125, H 192	32	8,1	without battery		Standard
671363.00X.88	L 362, B 125, H 192	32	9,1	without battery		MOM
671363.00X.89	L 362, B 125, H 192	32	9,1	without battery		AC-Control
Rechteck 485						
671367.00X	L 485, B 125, H 250	43	8,1	without battery		Standard
671367.00X.88	L 485, B 125, H 250	43	9,1	without battery		MOM
671367.00X.89	L 485, B 125, H 250	43	9,1	without battery		AC-Control

Pendant luminaires | Rechteck

Type of Protection: **IP 44**

Protection Class: I

Impact Protection: IK03

Suspension Length: 500 mm

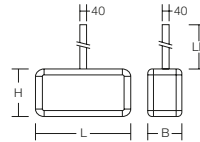
For escape route identification

Housing: aluminium, with plastic corner connectors. Aluminium pendant suspension.

Display panels: plastic, opal, with motifs on both sides.

Please specify legend number when ordering!

Available colours (X): 2 = white, 4 = aluminium, anodised



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Rechteck 485

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires						Price Category 23
Rechteck 250						
671057.00X	L 250, B 125, H 140	21	6,9	NiCd	3	Autotest
671057.00X.04	L 250, B 125, H 140	21	6,9	NiCd	3	MultiDigit
Rechteck 360						
671073.00X	L 362, B 125, H 192	32	9,1	NiMh	3	Autotest
671073.00X.04	L 362, B 125, H 192	32	9,1	NiMh	3	MultiDigit
Rechteck 485						
671089.00X	L 485, B 125, H 250	43	9,1	NiMh	3	Autotest
671089.00X.04	L 485, B 125, H 250	43	9,1	NiMh	3	MultiDigit



Luminaires for central battery system						Price Category 24
Rechteck 250						
671213.00X	L 250, B 125, H 140	21	5,9	without battery		Standard
671213.00X.88	L 250, B 125, H 140	21	6,9	without battery		MOM
671213.00X.89	L 250, B 125, H 140	21	6,9	without battery		AC-Control
Rechteck 360						
671227.00X	L 362, B 125, H 192	32	8,1	without battery		Standard
671227.00X.88	L 362, B 125, H 192	32	9,1	without battery		MOM
671227.00X.89	L 362, B 125, H 192	32	9,1	without battery		AC-Control
Rechteck 485						
671235.00X	L 485, B 125, H 250	43	8,1	without battery		Standard
671235.00X.88	L 485, B 125, H 250	43	9,1	without battery		MOM
671235.00X.89	L 485, B 125, H 250	43	9,1	without battery		AC-Control





SIGNCUBE

Ceiling luminaires

- Diffuser made of non-yellowing plastic (PMMA) opal
- 4 legends for escape route identification included
- Standard automatic self-test
- Easy to install
- Top quality LED technology
- Ideal for intersection points

Legends for escape route identification - ISO 7010 | DIN 4844

Background colour: green



3003



3004



3005

Do you require a special sign on the fitting? If yes, please be so kind as to let us know.

Ceiling luminaires | Signcube Mini

Type of Protection: IP 20

Protection Class: I

Impact Protection: IK04

For escape route identification

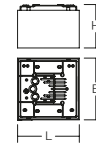
Base: metal, powder-coated. Diffuser: plastic (PMMA), opal.

4 legends for escape route identification included.

Can be converted into a suspended luminaire, via accessories.

Please order mounting elements separately.

Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	
Self-contained safety luminaires							Price Category 23
672292.002	L 199, B 199, H 140	19	4,6	NiMh	3	Autotest	
672292.002.04	L 199, B 199, H 140	19	4,6	NiMh	3	MultiDigit	
672292.002.07	L 199, B 199, H 140	19	4,6	NiMh	3	DALI-Sibe	
672293.002	L 199, B 199, H 140	19	4,6	NiMh	8	Autotest	
672293.002.04	L 199, B 199, H 140	19	4,6	NiMh	8	MultiDigit	
672293.002.07	L 199, B 199, H 140	19	4,6	NiMh	8	DALI-Sibe	
Luminaires for central battery system							Price Category 24
672291.002	L 199, B 199, H 140	19	3,6	without battery		Standard	
672291.002.88	L 199, B 199, H 140	19	4,6	without battery		MOM	
672291.002.89	L 199, B 199, H 140	19	4,6	without battery		AC-Control	



Pendant tube set for Self-contained safety luminaires			Price Category 23
982425.002	LP 500	for standard variants	
982425.002.04	LP 500	for MultiDigit (.04)	
982425.002.07	LP 500	for DALI (.07)	



Pendant tube set for Luminaires for central battery system			Price Category 24
982423.002	LP 500	for standard variants	
982424.002	LP 500	for MOM (.88) / AC-Control (.89)	

Mounting sets			Price Category 23
982274.002	L 110, B 104, H 14	Mounting set for through wiring surface installation	
982341.002	L 130, B 130, H 18	Mounting kit for chains/cable suspensions	



Ceiling luminaires | Signcube Midi

Type of Protection: **IP 40**

Protection Class: I

Impact Protection: IK03

For escape route identification

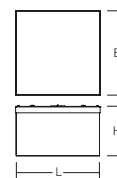
Base: metal, powder-coated. Diffuser: plastic (PMMA), opal.

4 legends for escape route identification included.

Can be converted into a suspended luminaire, via accessories.

Please order mounting elements separately.

Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC



Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires						Price Category 23
672300.002	L 315, B 315, H 187	30	6,9	NiMh	3	Autotest
672300.002.04	L 315, B 315, H 187	30	6,9	NiMh	3	MultiDigit
672300.002.07	L 315, B 315, H 187	30	6,9	NiMh	3	DALI-Sibe
Luminaires for central battery system						Price Category 24
672299.002	L 315, B 315, H 187	30	5,9	without battery		Standard
672299.002.88	L 315, B 315, H 187	30	6,9	without battery		MOM
672299.002.89	L 315, B 315, H 187	30	6,9	without battery		AC-Control



Pendant tube set for Self-contained safety luminaires			Price Category 23
982416.002	LP 500	for standard variants	
982416.002.04	LP 500	for MultiDigit (.04)	
982416.002.07	LP 500	for DALI (.07)	

Pendant tube set for Luminaires for central battery system			Price Category 24
982414.002	LP 500	for standard variants	

Mounting kit for chains/cable suspensions			Price Category 24
982413.002	L 210, B 210, H 17		





SCL



CBS



IP 54

SIGNCUBE IP 54

Ceiling luminaires

- Diffuser made of non-yellowing plastic (PMMA) opal
- Easy to install
- Top quality LED technology
- Ideal for intersection points
- Pendant luminaire also possible with accessories

Legends for escape route identification - ISO 7010 | DIN 4844

Background colour: green



3003



3004



3005

Ceiling luminaires | Signcube IP 54

Type of Protection: **IP 54**

Protection Class: I

Impact Protection: IK04

For escape route identification

Base: plastic. Frame profile: aluminium anodised. Display panels: plastic, opal, with motifs on three sides. Light emission: downwards. Easy installation by folding mechanism.

Can be converted into a suspended luminaire, via accessories. Please order mounting elements separately.

Available colour: 4 = aluminium, anodised



Self-contained safety luminaires



Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires						Price Category 23
672338.004	L 351, B 351, H 236	30	10	NiMh	3	Autotest
672338.004.04	L 351, B 351, H 236	30	10	NiMh	3	MultiDigit
672338.004.07	L 351, B 351, H 236	30	10	NiMh	3	DALI-Sibe
Luminaires for central battery system						Price Category 24
672354.004	L 351, B 351, H 236	30	8,9	without battery		Standard
672354.004.88	L 351, B 351, H 236	30	9,9	without battery		MOM
672354.004.89	L 351, B 351, H 236	30	9,9	without battery		AC-Control



Pendant tube set			Price Category 23
982560.002	LP 550	Pendant tube set	



Mounting sets			Price Category 23
982561.000	Mounting kit for chains/cable suspensions		





CENTRYXX®

Ceiling luminaires

- Exceedingly flat design to match modern architecture
- LED technology for high levels of energy efficiency
- Very low maintenance costs thanks to automatic self-test
- Best thermal management thanks to die-cast aluminium base

Legends for escape route identification - ISO 7010 | DIN 4844

Background colour: green



3003



3004



3006



3005

Do you require a special sign on the fitting? If yes, please be so kind as to let us know.



Further luminaires of this series, see:
Emergency lighting | Escape route illumination

Ceiling luminaires | Centryxx RZ IP65

Type of Protection: IP 65

Protection Class: I

Impact Protection: IK03

For escape route identification

Base: pressure die-cast aluminium, powder-coated. Cover: polycarbonate.

Display panel: highly transparent panel, plastic, with legend on one side/both sides.

4 legends and 1 white plug-in plastic sheet included.

Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	Price Category 23
Self-contained safety luminaires							
672172.002	L 198, B 198, H 143	18	6,1	NiMh	3	Autotest	
672172.002.04	L 198, B 198, H 143	18	6,1	NiMh	3	MultiDigit	
672172.002.07	L 198, B 198, H 143	18	6,1	NiMh	3	DALI-Sibe	
672283.002	L 198, B 198, H 143	18	6,1	NiMh	8	Autotest	
672283.002.04	L 198, B 198, H 143	18	6,1	NiMh	8	MultiDigit	
672283.002.07	L 198, B 198, H 143	18	6,1	NiMh	8	DALI-Sibe	
Luminaires for central battery system							
672173.002	L 198, B 198, H 143	18	5,1	without battery		Standard	Price Category 24
672173.002.88	L 198, B 198, H 143	18	6,1	without battery		MOM	
672173.002.89	L 198, B 198, H 143	18	6,1	without battery		AC-Control	



Pendant tube set for Self-contained safety luminaires			Price Category 23
982425.002	LP 500	for standard variants	
982425.002.04	LP 500	for MultiDigit (.04)	
982425.002.07	LP 500	for DALI (.07)	



Pendant tube set for Luminaires for central battery system			Price Category 24
982423.002	LP 500	for standard variants	
982424.002	LP 500	for MOM (.88) / AC-Control (.89)	

Mounting sets			Price Category 23
982274.002	L 110, B 104, H 14	Mounting set for through wiring surface installation	
982341.002	L 130, B 130, H 18	Mounting kit for chains/cable suspensions	



TURIA®

Recessed ceiling luminaires

- Top quality LED technology
- Specially calculated thermal management
- Very low maintenance costs
- LED rated life 50,000 h
- Easy to install
- Extremely low profile
- The self-contained module and battery can be inserted and removed through the ceiling opening

Legends for escape route identification -
ISO 7010 | DIN 4844

Background colour: green



3003



3004



3006



3005

Do you require a special sign on the fitting? If yes, please be so kind as to let us know.



Further luminaires of this series, see:
Emergency lighting | Escape route illumination

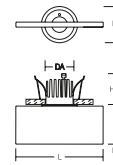
Recessed ceiling luminaires | Turia RZ

Type of Protection: IP 20
Protection Class: II
Ceiling thickness S: 1-35 mm
Impact Protection: IK03

For escape route identification

Housing: die-cast aluminium. Display panel: highly transparent panel, plastic, with legend on one side/both sides. Bezel ring: plastic, white. Emergency kit and battery in separate box with connecting cable.

Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC



Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	 [m]	System power [W]	Battery	 [h]	Monitoring	
Self-contained safety luminaires							Price Category 23
Ceiling cut out DA 54 mm							
672418.002	L 149, B 62, H 83	14	4,3	NiMh	3	Autotest	
672418.002.04	L 149, B 62, H 83	14	4,3	NiMh	3	MultiDigit	
672418.002.07	L 149, B 62, H 83	14	4,3	NiMh	3	DALI-Sibe	
672419.002	L 149, B 62, H 83	14	4,3	NiMh	8	Autotest	
672419.002.04	L 149, B 62, H 83	14	4,3	NiMh	8	MultiDigit	
672419.002.07	L 149, B 62, H 83	14	4,3	NiMh	8	DALI-Sibe	
Luminaires for central battery system							Price Category 24
Ceiling cut out DA 54 mm							
672417.002	L 149, B 62, H 83	14	3,3	without battery		Standard	
672417.002.88	L 149, B 62, H 83	14	4,3	without battery		MOM	
672417.002.89	L 149, B 62, H 83	14	4,3	without battery		AC-Control	



Powerbox Flood
816-817



817

Varioplast I
818-819



819

Centryxx IP 65
820-823



822

Centryxx W
824-827



825



826

Lucio
828-829



829

Turia
830-832



831



832

Solyxx
833



833

Edo
834-835



835

Toledo Flat
836-847



837-839



840-841



843-845



846-847

Sidelite ECO
848-857



850-853



854-857



POWERBOX FLOOD

Safety stand spotlight

- IP 54 type of protection - dustproof and protected against water spray
- Robust model
- Suitable for rooms with high ceilings
- Ideal for free-standing emergency lighting systems
- Standard automatic self-test
- Long-lasting, low-maintenance LED technology
- Maintenance-free lead battery

Safety stand spotlight | Powerbox Flood

Type of Protection: **IP 54**

Protection Class: I

Impact Protection: IK03

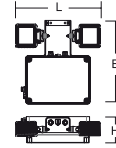
Housing: plastic, grey. Luminaire tops can be swivelled in all directions.

With 2.5 m connection cable including safety plug (Schuko).

LED and maintenance-free lead battery included in scope of delivery.

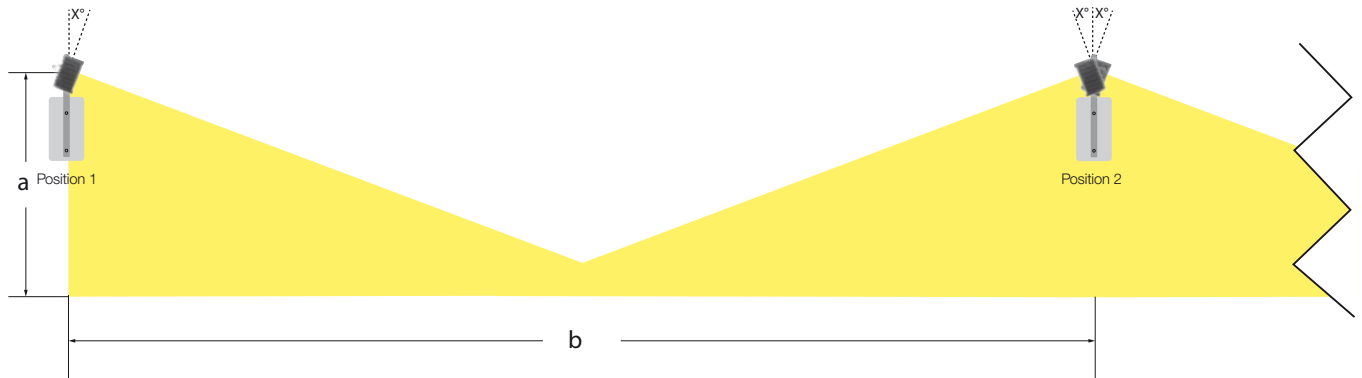
Operating mode: non-maintained power mode (BS)

Available colour: 9 = grey



Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring	
Self-contained safety luminaires							
672196.009	L 395, B 128, H 470	765	2400 / 2400	36	Pb	1	Autotest
672197.009	L 395, B 128, H 470	765	2400 / 2400	36	Pb	3	Autotest

Price Category 23



To determine the light point intervals, tops projecting the light parallel were arranged as follows:

	Number of projector tops in Position 1	Number of projector tops in Position 2
1	b1 ←	→ b1
2		→ b1 → b2
3	b1 ←	→ b3 ←
4		→ b4 ←
5		→ b5 ←

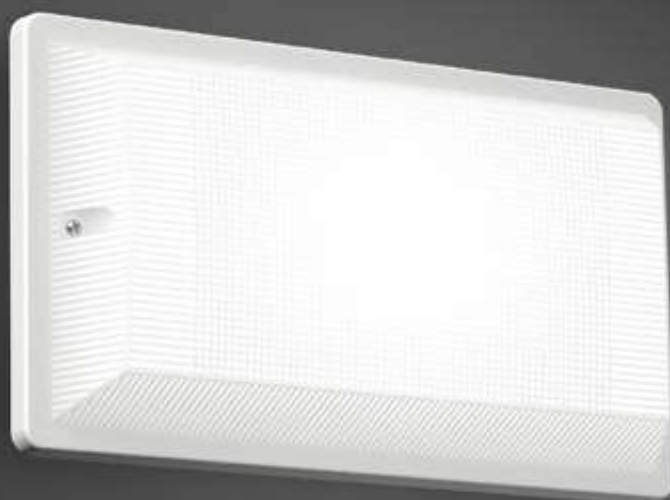
On the basis of this arrangement, the following intervals were calculated for illuminating the escape route with 1 lx

a/m	Layout 1		Layout 2		Layout 3		Layout 4		Layout 5	
	b1/m	X/°	b2/m	X/°	b3/m	X/°	b4/m	X/°	b5/m	X/°
4,0	18,0	10	22,5	5	49,0	10	54,0	10	66,0	10
5,0	19,5	15	24,5	5	53,0	10	60,0	10	67,0	10
6,0	21,0	15	25,7	10	53,0	10	63,0	10	72,0	10
8,0	22,6	20	30,0	15	58,0	10	64,0	10	75,0	10
10,0	23,0	25	30,5	20	62,0	20	70,0	20	81,0	15
12,0	24,0	30	32,0	25	64,0	25	73,0	20	83,0	20

a = mounting height in m - Position of the projector tops

b = range at 1 lx (distance from the next projector top in m)

X° = inclination of the projector tops in the direction of the escape route (floor)



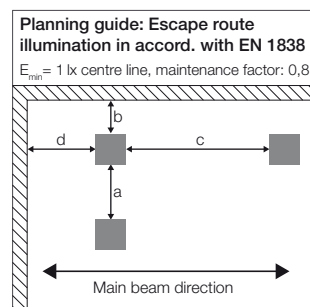
VARIOPLAST I

Ceiling and wall luminaires

- Dust proof; protected against sprayed water (IP 65)
- Ball impact protection in accordance with DIN 18032-03
- Installation-friendly construction with mounting plate
- Suitable for installation heights up to 8 metres
- Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.
- Suitable for use in the food and drink industry



Further luminaires of this series, see:
Emergency lighting | Escape route identification



Ceiling and wall luminaires | Varioplast I

Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK08

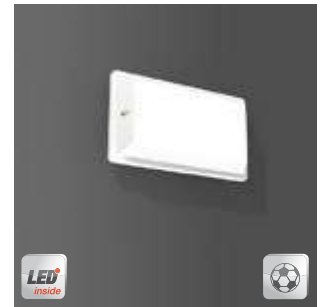
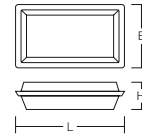
For escape route illumination

Base: plastic (polycarbonate). Diffuser: shockproof plastic (polycarbonate).

Ball impact proof in accordance with DIN 18032-03.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colours (X): 2 = white, 3 = black



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	[h]	Monitoring
Self-contained safety luminaires							
Price Category 23							
672181.00X	L 320, B 186, H 80	840	880 / 220	8,4	NiMh	3	Autotest
672181.00X.04	L 320, B 186, H 80	840	880 / 220	8,4	NiMh	3	MultiDigit
672181.00X.07	L 320, B 186, H 80	840	880 / 220	8,4	NiMh	3	DALI-Sibe
672176.00X	L 320, B 186, H 80	840	880 / 190	8,4	NiMh	8	Autotest
672176.00X.04	L 320, B 186, H 80	840	880 / 190	8,4	NiMh	8	MultiDigit
672176.00X.07	L 320, B 186, H 80	840	880 / 190	8,4	NiMh	8	DALI-Sibe



Luminaires for central battery system							
Price Category 24							
672129.00X	L 320, B 186, H 80	763	350 / 350	4,8	without battery		Standard
672129.00X.88	L 320, B 186, H 80	763	350 / 350	5,8	without battery		MOM
672129.00X.89	L 320, B 186, H 80	763	350 / 350	5,8	without battery		AC-Control
672182.00X	L 320, B 186, H 80	840	880 / 750	7,4	without battery		Standard
672182.00X.88	L 320, B 186, H 80	840	880 / 750	8,4	without battery		MOM
672182.00X.89	L 320, B 186, H 80	840	880 / 750	8,4	without battery		AC-Control



Mounting kit for chains/cable suspensions							
Price Category 24							
982354.002	L 166, B 116, H 19						

Display cover							
Price Category 23							
982195.002	L 330, B 169, H 227	Viewing distance 15 m					



Weatherproof housing							
Price Category 24							
982477.014	L 383, B 220, H 109	silver metallic					



672129.00X					
Luminous flux emergency: 350 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,8	3,9	10,4	4,0	
3,0	10,5	4,1	11,0	4,2	
3,5	11,0	4,2	11,5	4,3	
4,0	11,4	4,3	11,9	4,4	

672176.00X					
Luminous flux emergency: 190 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,0	3,1	8,5	3,2	
3,0	8,4	3,2	8,9	3,3	
3,5	8,7	3,2	9,1	3,3	
4,0	8,9	3,1	9,2	3,2	

672181.00X					
Luminous flux emergency: 220 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,4	3,3	8,9	3,4	
3,0	8,9	3,4	9,4	3,5	
3,5	9,3	3,4	9,7	3,5	
4,0	9,5	3,4	9,9	3,5	

672182.00X					
Luminous flux emergency: 750 lm Following values are indicated in m					
h	a	b	c	d	
2,5	12,2	5,0	13,2	5,3	
3,0	13,2	5,3	14,2	5,7	
3,5	14,0	5,6	15,1	5,9	
4,0	14,8	5,8	15,8	6,1	



CENTRYXX® IP 65

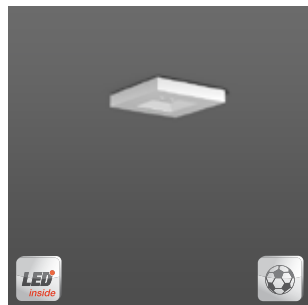
Ceiling luminaires

- IP 65 type of protection - dustproof and protected against water jets from all directions
- Exceedingly flat design to match modern architecture
- Ball impact protection in accordance with DIN 18032-03
- Wide luminaire spacing for escape routes thanks to special lenses
- Very low maintenance costs thanks to automatic self-test
- Best thermal management thanks to die-cast aluminium base
- Suitable for use in the food and drink industry



Further luminaires of this series, see:
Emergency lighting | Escape route identification



**Ceiling luminaires | Centryxx IP65**Type of Protection: **IP 65**

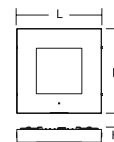
Protection Class: I

Impact Protection: IK08

For escape route illumination

Base: pressure die-cast aluminium, powder-coated. Cover: polycarbonate. Lens, plastic, for ideal light distribution on escape route. Ball impact proof in accordance with DIN 18032-03. Suitable for use in the food and drink industry.

Available colour: 2 = white

**Self-contained safety luminaires**

Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery [h]	Monitoring
Self-contained safety luminaires						
with lens, for area lighting						
672170.002.1	L 198, B 198, H 38	765	390 / 310	6,7	NiMh 3	Autotest
672170.002.1.04	L 198, B 198, H 38	765	390 / 310	6,7	NiMh 3	MultiDigit
672170.002.1.07	L 198, B 198, H 38	765	390 / 310	6,7	NiMh 3	DALI-Sibe
672282.002.1	L 198, B 198, H 38	765	400 / 130	6,7	NiMh 8	Autotest
672282.002.1.04	L 198, B 198, H 38	765	400 / 130	6,7	NiMh 8	MultiDigit
672282.002.1.07	L 198, B 198, H 38	765	400 / 130	6,7	NiMh 8	DALI-Sibe
with lens, for escape route illumination						
672170.002	L 198, B 198, H 38	765	390 / 310	6,7	NiMh 3	Autotest
672170.002.04	L 198, B 198, H 38	765	350 / 310	6,7	NiMh 3	MultiDigit
672170.002.07	L 198, B 198, H 38	765	350 / 310	6,7	NiMh 3	DALI-Sibe
672282.002	L 198, B 198, H 38	765	340 / 100	6,7	NiMh 8	Autotest
672282.002.04	L 198, B 198, H 38	765	340 / 100	6,7	NiMh 8	MultiDigit
672282.002.07	L 198, B 198, H 38	765	340 / 100	6,7	NiMh 8	DALI-Sibe
with narrow beam lens, for area lighting						
672170.002.2	L 198, B 198, H 38	765	370 / 340	6,7	NiMh 3	Autotest
672170.002.2.04	L 198, B 198, H 38	765	370 / 340	6,7	NiMh 3	MultiDigit
672170.002.2.07	L 198, B 198, H 38	765	370 / 340	6,7	NiMh 3	DALI-Sibe
with narrow beam lens, for escape route illumination						
672170.002.3	L 198, B 198, H 38	765	450 / 360	6,4	NiMh 3	Autotest
672170.002.3.04	L 198, B 198, H 38	765	450 / 360	6,4	NiMh 3	MultiDigit
672170.002.3.07	L 198, B 198, H 38	765	450 / 360	6,4	NiMh 3	DALI-Sibe



Luminaires for central battery system						
with lens, for area lighting						
672294.002.1	L 198, B 198, H 38	765	220 / 220	3,2	without battery	Standard
672294.002.1.88	L 198, B 198, H 38	765	220 / 220	4,2	without battery	MOM
672294.002.1.89	L 198, B 198, H 38	765	220 / 220	4,2	without battery	AC-Control
672171.002.1	L 198, B 198, H 38	765	420 / 430	5,7	without battery	Standard
672171.002.1.88	L 198, B 198, H 38	765	420 / 430	6,7	without battery	MOM
672171.002.1.89	L 198, B 198, H 38	765	420 / 430	6,7	without battery	AC-Control
with lens, for escape route illumination						
672294.002	L 198, B 198, H 38	765	190 / 190	3,2	without battery	Standard
672294.002.88	L 198, B 198, H 38	765	190 / 190	4,2	without battery	MOM
672294.002.89	L 198, B 198, H 38	765	190 / 190	4,2	without battery	AC-Control
672171.002	L 198, B 198, H 38	765	360 / 360	5,7	without battery	Standard
672171.002.88	L 198, B 198, H 38	765	360 / 360	6,7	without battery	MOM
672171.002.89	L 198, B 198, H 38	765	360 / 360	6,7	without battery	AC-Control
with narrow beam lens, for area lighting						
672171.002.2	L 198, B 198, H 38	765	410 / 410	5,7	without battery	Standard
672171.002.2.88	L 198, B 198, H 38	765	410 / 410	6,7	without battery	MOM
672171.002.2.89	L 198, B 198, H 38	765	410 / 410	6,7	without battery	AC-Control
with narrow beam lens, for escape route illumination						
672171.002.3	L 198, B 198, H 38	765	420 / 420	6,1	without battery	Standard
672171.002.3.88	L 198, B 198, H 38	765	420 / 420	6,1	without battery	MOM
672171.002.3.89	L 198, B 198, H 38	765	420 / 420	6,1	without battery	AC-Control

Mounting sets
Price Category 23

982274.002	L 110, B 104, H 14	Mounting set for through wiring surface installation
982341.002	L 130, B 130, H 18	Mounting kit for chains/cable suspensions

Pendant tube set for Self-contained safety luminaires
Price Category 23

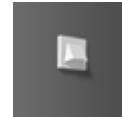
982425.002	LP 500	for standard variants
982425.002.04	LP 500	for MultiDigit (.04)
982425.002.07	LP 500	for DALI (.07)

Pendant tube set for Luminaires for central battery system
Price Category 24

982423.002	LP 500	for standard variants
982424.002	LP 500	for MOM (.88) / AC-Control (.89)

Frame attachment for wall installation for luminaires with lenses for area lighting
Price Category 23

982257.002	L 201, B 102, H 200
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672170.002					
Luminous flux emergency: 310 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,0	3,1	18,0	8,1	
3,0	8,5	3,2	20,7	9,0	
3,5	8,7	3,1	22,9	9,7	
4,0	8,9	3,2	24,8	10,2	

672170.002.1					
Luminous flux emergency: 310 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,7	4,2	9,7	4,2	
3,0	10,9	4,5	10,9	4,5	
3,5	11,8	4,8	11,8	4,8	
4,0	12,6	5,0	12,6	5,0	

672170.002.2					
Luminous flux emergency: 340 lm Following values are indicated in m					
h	a	b	c	d	
2,5	5,9	2,4	5,9	2,4	
3,0	6,4	2,6	6,4	2,6	
3,5	6,8	2,8	6,8	2,8	
4,0	7,2	3,0	7,2	3,0	

672170.002.3					
Luminous flux emergency: 360 lm Following values are indicated in m					
h	a	b	c	d	
5,0	5,5	1,9	18,0	7,2	
6,0	5,4	1,9	19,0	7,5	
8,0	5,4	2,2	20,8	7,9	
10,0	6,0	2,4	22,0	8,3	

672171.002					
Luminous flux emergency: 360 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,1	3,1	17,8	8,2	
3,0	8,5	3,3	20,5	9,2	
3,5	9,0	3,3	23,0	10,1	
4,0	9,2	3,4	25,2	10,8	

672171.002.1					
Luminous flux emergency: 430 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,5	4,5	10,5	4,5	
3,0	11,8	5,0	11,8	5,0	
3,5	12,9	5,3	12,9	5,3	
4,0	13,8	5,6	13,8	5,6	

672171.002.2					
Luminous flux emergency: 410 lm Following values are indicated in m					
h	a	b	c	d	
2,5	6,3	2,5	6,3	2,5	
3,0	6,8	2,7	6,8	2,7	
3,5	7,2	2,9	7,2	2,9	
4,0	7,6	3,1	7,6	3,1	

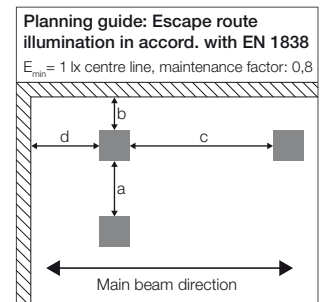
672171.002.3					
Luminous flux emergency: 420 lm Following values are indicated in m					
h	a	b	c	d	
5,0	5,5	1,8	16,0	6,4	
6,0	5,5	1,9	18,5	7,2	
8,0	5,3	2,2	20,4	7,9	
10,0	5,9	2,4	21,5	8,2	

672282.002					
Luminous flux emergency: 100 lm Following values are indicated in m					
h	a	b	c	d	
2,5	5,0	1,7	14,4	6,2	
3,0	5,1	1,6	15,8	5,6	
3,5	5,0	1,3	16,6	5,1	
4,0	4,8	1,0	16,5	3,4	

672282.002.1					
Luminous flux emergency: 130 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,0	3,2	8,0	3,2	
3,0	8,7	3,3	8,7	3,3	
3,5	9,1	3,3	9,1	3,3	
4,0	9,4	3,1	9,4	3,1	

672294.002					
Luminous flux emergency: 190 lm Following values are indicated in m					
h	a	b	c	d	
2,5	6,5	2,4	15,4	7,1	
3,0	6,8	2,4	17,9	8,1	
3,5	6,9	2,3	20,1	8,5	
4,0	6,9	2,3	21,4	7,8	

672294.002.1					
Luminous flux emergency: 220 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,9	3,8	9,2	3,8	
3,0	10,0	4,1	10,0	4,1	
3,5	10,9	4,2	10,8	4,2	
4,0	11,4	4,3	11,4	4,3	

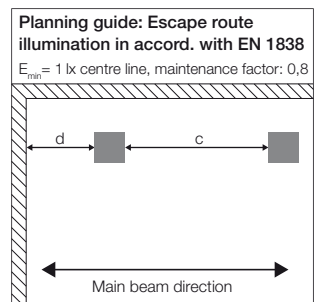




CENTRYXX® W

Wall luminaires

- IP 65 type of protection - dustproof and protected against water jets from all directions
- Exceedingly flat design to match modern architecture
- Wide luminaire spacing for escape routes thanks to special lenses
- Very low maintenance costs thanks to automatic self-test
- Best thermal management thanks to die-cast aluminium base



Wall luminaires | Centryxx W IP65

Type of Protection: IP 65

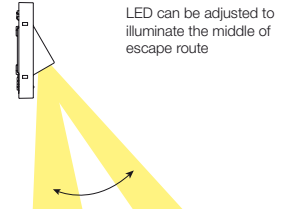
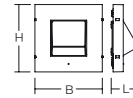
Protection Class: I

Impact Protection: IK08

For escape route illumination

Base: pressure die-cast aluminium, powder-coated. Cover: polycarbonate. LED lamp insert with clear plastic lenses for escape route illumination, can be swivelled vertically. Integral driver.

Available colour: 2 = white



LED can be adjusted to illuminate the middle of escape route



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery [h]	Monitoring
Self-contained safety luminaires						
with lens, for area lighting						
672302.002.1	L 79, B 198, H 198	765	350 / 310	6,7	NiMh 3	Autotest
672302.002.1.04	L 79, B 198, H 198	765	350 / 310	6,7	NiMh 3	MultiDigit
672302.002.1.07	L 79, B 198, H 198	765	350 / 310	6,7	NiMh 3	DALI-Sibe
672303.002.1	L 79, B 198, H 198	765	350 / 110	6,7	NiMh 8	Autotest
672303.002.1.04	L 79, B 198, H 198	765	350 / 110	6,7	NiMh 8	MultiDigit
672303.002.1.07	L 79, B 198, H 198	765	350 / 110	6,7	NiMh 8	DALI-Sibe
with lens, for escape route illumination						
672302.002	L 79, B 198, H 198	765	300 / 270	6,7	NiMh 3	Autotest
672302.002.04	L 79, B 198, H 198	765	300 / 270	6,7	NiMh 3	MultiDigit
672302.002.07	L 79, B 198, H 198	765	300 / 270	6,7	NiMh 3	DALI-Sibe
672303.002	L 79, B 198, H 198	765	300 / 90	6,7	NiMh 8	Autotest
672303.002.04	L 79, B 198, H 198	765	300 / 90	6,7	NiMh 8	MultiDigit
672303.002.07	L 79, B 198, H 198	765	300 / 90	6,7	NiMh 8	DALI-Sibe

Price Category 23

Luminaires for central battery system

Price Category 24

with lens, for area lighting

672305.002.1	L 79, B 198, H 198	765	190 / 190	3,2	without battery	Standard
672305.002.1.88	L 79, B 198, H 198	765	190 / 190	4,2	without battery	MOM
672305.002.1.89	L 79, B 198, H 198	765	190 / 190	4,2	without battery	AC-Control
672304.002.1	L 79, B 198, H 198	765	350 / 350	5,7	without battery	Standard
672304.002.1.88	L 79, B 198, H 198	765	350 / 350	6,7	without battery	MOM
672304.002.1.89	L 79, B 198, H 198	765	350 / 350	6,7	without battery	AC-Control

with lens, for escape route illumination

672305.002	L 79, B 198, H 198	765	160 / 160	3,2	without battery	Standard
672305.002.88	L 79, B 198, H 198	765	160 / 160	4,2	without battery	MOM
672305.002.89	L 79, B 198, H 198	765	160 / 160	4,2	without battery	AC-Control
672304.002	L 79, B 198, H 198	765	300 / 300	5,7	without battery	Standard
672304.002.88	L 79, B 198, H 198	765	300 / 300	6,7	without battery	MOM
672304.002.89	L 79, B 198, H 198	765	300 / 300	6,7	without battery	AC-Control

Mounting sets

Price Category 23

982274.002	L 110, B 104, H 14	Mounting set for through wiring surface installation
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672302.002			
Luminous flux emergency: 270 lm Following values are indicated in m			
h	d	c	
2,0	3,6	12,5	
2,5	3,1	8,0	
3,0	3,1	7,8	
3,5	3,0	7,8	

672302.002.1			
Luminous flux emergency: 310 lm Following values are indicated in m			
h	d	c	
2,0	3,5	8,0	
2,5	2,8	6,5	
3,0	2,8	6,3	
3,5	2,9	6,5	

672303.002			
Luminous flux emergency: 90 lm Following values are indicated in m			
h	d	c	
2,0	2,0	5,9	
2,5	1,7	5,4	
3,0	0,7	5,0	
3,5	0,0	3,9	

672303.002.1			
Luminous flux emergency: 110 lm Following values are indicated in m			
h	d	c	
2,0	2,4	6,2	
2,5	2,4	5,4	
3,0	2,4	5,6	
3,5	2,4	5,7	

672304.002			
Luminous flux emergency: 300 lm Following values are indicated in m			
h	d	c	
2,0	3,6	12,5	
2,5	3,1	8,0	
3,0	3,3	7,9	
3,5	3,0	7,8	

672304.002.1			
Luminous flux emergency: 350 lm Following values are indicated in m			
h	d	c	
2,0	3,6	12,5	
2,5	2,8	6,5	
3,0	2,8	6,4	
3,5	2,9	6,5	

672305.002			
Luminous flux emergency: 160 lm Following values are indicated in m			
h	d	c	
2,0	2,9	9,5	
2,5	2,4	6,8	
3,0	2,1	6,4	
3,5	1,9	6,2	

672305.002.1			
Luminous flux emergency: 190 lm Following values are indicated in m			
h	d	c	
2,0	2,9	7,5	
2,5	2,6	6,0	
3,0	2,7	6,1	
3,5	2,7	6,2	

**Wall luminaires | Centryxx W IP65plus**Type of Protection: **IP 65**Protection Class: **I**Impact Protection: **IK07****For escape route illumination**

Housing: die-cast aluminium, powder-coated. Safety glass transparent.

Lens, plastic, for ideal light distribution on escape route.

Standard Gore™ Protective Vents diaphragm valve to avoid condensation.

Available colours (X): 2 = white, 9 = graphite grey

**Self-contained safety luminaires**Voltage type: **AC**


Automatic self test in all standard versions.

Operating mode: non-maintained power mode (BS)

Luminaires for central battery systemVoltage type: **AC/DC**

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



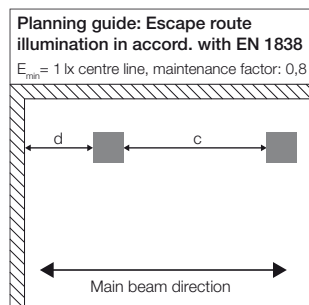
Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires							
with lens, for area lighting							
672139.00X	L 117, B 190, H 190	765	310	5,8	NiMH	3	Autotest
672139.00X.04	L 117, B 190, H 190	765	310	5,8	NiMH	3	MultiDigit
672139.00X.07	L 117, B 190, H 190	765	310	5,8	NiMH	3	DALI-Sibe
with battery heating							
672139.992	L 117, B 190, H 190	765	310	7,7	NiMH	3	Autotest
with lens, for escape route illumination							
672141.00X	L 117, B 190, H 190	765	250	5,8	NiMH	3	Autotest
672141.00X.04	L 117, B 190, H 190	765	250	5,8	NiMH	3	MultiDigit
672141.00X.07	L 117, B 190, H 190	765	250	5,8	NiMH	3	DALI-Sibe
with battery heating							
672141.992	L 117, B 190, H 190	765	250	7,7	NiMH	3	Autotest

Price Category 23



Luminaires for central battery system							
with lens, for area lighting							
672140.00X	L 117, B 190, H 190	765	310 / 310	4,8	without battery		Standard
672140.00X.88	L 117, B 190, H 190	765	310 / 310	5,8	without battery		MOM
672140.00X.89	L 117, B 190, H 190	765	310 / 310	5,8	without battery		AC-Control
with lens, for escape route illumination							
672142.00X	L 117, B 190, H 190	765	250 / 250	4,8	without battery		Standard
672142.00X.88	L 117, B 190, H 190	765	250 / 250	5,8	without battery		MOM
672142.00X.89	L 117, B 190, H 190	765	250 / 250	5,8	without battery		AC-Control

Price Category 24



672139.00X			
Luminous flux emergency: 310 lm Following values are indicated in m			
h	d	c	
2,0	3,6	8,6	
2,5	4,1	9,6	
3,0	4,4	10,6	
3,5	4,7	11,3	

672140.00X			
Luminous flux emergency: 310 lm Following values are indicated in m			
h	d	c	
2,0	3,6	8,6	
2,5	4,1	9,6	
3,0	4,4	10,6	
3,5	4,7	11,3	

672141.00X			
Luminous flux emergency: 250 lm Following values are indicated in m			
h	d	c	
2,0	3,6	12,7	
2,5	3,1	13,8	
3,0	3,3	14,0	
3,5	3,0	13,2	

672142.00X			
Luminous flux emergency: 250 lm Following values are indicated in m			
h	d	c	
2,0	3,6	12,7	
2,5	3,1	13,8	
3,0	3,3	14,0	
3,5	3,0	13,2	





LUCIO

Universal downlight for surface or recessed mounting

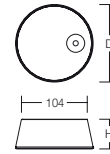
- Wide luminaire spacing for escape routes thanks to special lenses
- Top quality LED technology
- Very low maintenance costs
- Compact design
- Easy to install
- Can be mounted on or in a ceiling for universal use

Universal downlight for surface or recessed mounting | Lucio

Type of Protection: IP 30
Protection Class: II
Ceiling thickness S: 5-25 mm
Impact Protection: IK03

For escape route illumination

Housing: plastic. Accessories for recessed and surface mounting on the ceiling are included.
Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC
Automatic self test in all standard versions.
Operating mode: non-maintained power mode (BS)

Luminaires for central battery system

Voltage type: AC/DC
Operating mode: non-maintained power mode (BS)

Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery [h]	Monitoring
Self-contained safety luminaires						
Surface installation: D 120, H 45 mm / Mounting: D 120, H 3, DA 105, HE 42 mm						
with lens						
671918.002 .Q	D 120, H 3	763	110	1,5	NiMh 3	Autotest
671918.002.07	D 120, H 3	763	110	1,5	NiMh 3	DALI-Sibe
without lens						
671917.002 .Q	D 120, H 3	763	100	1,5	NiMh 3	Autotest
671917.002.07	D 120, H 3	763	100	1,5	NiMh 3	DALI-Sibe
Surface installation: D 120, H 45 mm / Mounting: D 120, H 3, DA 105, HE 46 mm						
with lens (High Power)						
672169.002	D 120, H 3	763	140	3,4	NiMh 3	Autotest
672169.002.07	D 120, H 3	763	140	3,4	NiMh 3	DALI-Sibe
Luminaires for central battery system						
Surface installation: D 120, H 45 mm / Mounting: D 120, H 3, DA 105, HE 42 mm						
671916.002	D 120, H 3	763	85	2	without battery	Standard

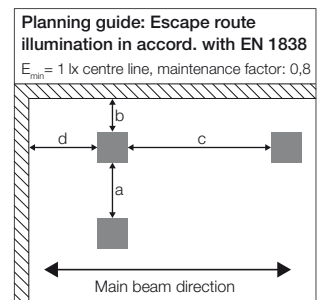


671916.002					
Luminous flux emergency: 85 lm Following values are indicated in m					
h	a	b	c	d	
2,5	6,0	2,6	6,0	2,6	
3,0	6,7	2,7	6,7	2,7	
3,5	7,3	2,7	7,3	2,7	
4,0	7,7	2,5	7,7	2,5	

671917.002					
Luminous flux emergency: 100 lm Following values are indicated in m					
h	a	b	c	d	
2,5	6,4	2,7	6,4	2,7	
3,0	7,1	2,9	7,1	2,9	
3,5	7,7	2,9	7,7	2,9	
4,0	8,2	2,8	8,2	2,8	

671918.002					
Luminous flux emergency: 110 lm Following values are indicated in m					
h	a	b	c	d	
2,5	4,2	1,8	7,8	3,1	
3,0	4,7	2,0	8,6	3,3	
3,5	5,1	2,1	9,0	3,6	
4,0	5,5	2,2	9,3	3,8	

672169.002					
Luminous flux emergency: 140 lm Following values are indicated in m					
h	a	b	c	d	
2,5	5,9	1,6	14,1	3,4	
3,0	5,3	1,4	12,8	3,4	
3,5	4,9	1,2	10,4	3,5	
4,0	4,4	1,1	10,0	2,5	





TURIA®

Recessed ceiling luminaires

- Top quality LED technology
- Specially calculated thermal management
- Very low maintenance costs
- Easy to install
- Extremely low profile
- Inconspicuous design
- The self-contained module and battery can be inserted and removed through the ceiling opening



Further luminaires of this series, see:
Emergency lighting | Escape route identification

Recessed ceiling luminaires | Turia

Type of Protection: IP 20
Protection Class: II
Ceiling thickness S: 1-35 mm
Impact Protection: IK03

For escape route illumination

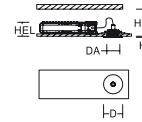
Housing: aluminium. Bezel ring: plastic.
Emergency kit and battery in separate box with connecting cable.
Available colour: 2 = white


Self-contained safety luminaires

Voltage type: AC
Automatic self test in all standard versions.
Operating mode: non-maintained power mode (BS)

Luminaires for central battery system

Voltage type: AC/DC
Operating mode: non-maintained power mode (BS)



Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires							
Ceiling cut out DA 42 mm							
672409.002	D 55, H 2, HE 150, HEL 50	850	120 / 120	3,4	NiMh	3	Autotest
672409.002.04	D 55, H 2, HE 150, HEL 50	850	120 / 120	3,4	NiMh	3	MultiDigit
672409.002.07	D 55, H 2, HE 150, HEL 50	850	120 / 120	3,4	NiMh	3	DALI-Sibe
672410.002	D 55, H 2, HE 150, HEL 50	850	120 / 90	3,4	NiMh	8	Autotest
672410.002.04	D 55, H 2, HE 150, HEL 50	850	120 / 90	3,4	NiMh	8	MultiDigit
672410.002.07	D 55, H 2, HE 150, HEL 50	850	120 / 90	3,4	NiMh	8	DALI-Sibe
Luminaires for central battery system							
Ceiling cut out DA 42 mm							
672408.002	D 55, H 2, HE 150, HEL 50	850	120 / 120	2,4	without battery		Standard
672408.002.88	D 55, H 2, HE 150, HEL 50	850	120 / 120	3,4	without battery		MOM
672408.002.89	D 55, H 2, HE 150, HEL 50	850	120 / 120	3,4	without battery		AC-Control

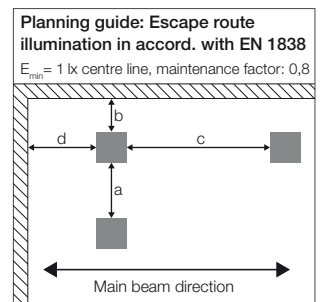
Price Category 23



672408.002					
Luminous flux emergency: 120 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,0	2,6	6,9	2,6	
3,0	7,3	2,7	7,3	2,6	
3,5	7,6	2,7	7,5	2,6	
4,0	7,6	2,5	7,6	2,5	

672409.002					
Luminous flux emergency: 120 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,0	2,6	6,9	2,6	
3,0	7,3	2,7	7,3	2,6	
3,5	7,6	2,7	7,5	2,6	
4,0	7,6	2,5	7,6	2,5	

672410.002					
Luminous flux emergency: 90 lm Following values are indicated in m					
h	a	b	c	d	
2,5	6,2	2,3	6,7	2,6	
3,0	6,5	2,3	6,5	2,3	
3,5	6,5	2,2	6,5	2,2	
4,0	6,5	2,0	6,5	2,0	



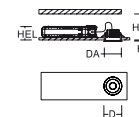


Recessed ceiling luminaires | Turia L

Type of Protection: IP 20
Protection Class: II
Ceiling thickness S: 1-35 mm
Impact Protection: IK03

For escape route illumination

Housing: die-cast aluminium. Bezel ring: plastic, white.
Emergency kit and battery in separate box with connecting cable.
Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

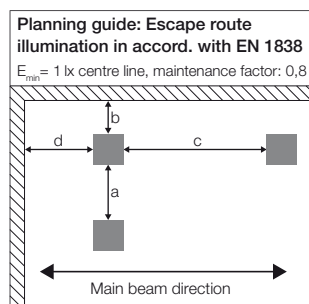
Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring	Price Category 23
Self-contained safety luminaires							
Ceiling cut out DA 54 mm with lens, for area lighting							
672412.002	D 62, H 3, HE 150, HEL 42	865	270 / 190	3,8	NiMh 3	Autotest	
672412.002.04	D 62, H 3, HE 150, HEL 42	865	270 / 190	3,8	NiMh 3	MultiDigit	
672412.002.07	D 62, H 3, HE 150, HEL 42	865	270 / 190	3,8	NiMh 3	DALI-Sibe	
672413.002	D 62, H 3, HE 150, HEL 42	865	270 / 130	3,8	NiMh 8	Autotest	
672413.002.04	D 62, H 3, HE 150, HEL 42	865	270 / 130	3,8	NiMh 8	MultiDigit	
672413.002.07	D 62, H 3, HE 150, HEL 42	865	270 / 130	3,8	NiMh 8	DALI-Sibe	
with lens, for escape route illumination							
672415.002	D 62, H 3, HE 150, HEL 42	865	270 / 190	3,8	NiMh 3	Autotest	
672415.002.04	D 62, H 3, HE 150, HEL 42	865	270 / 190	3,8	NiMh 3	MultiDigit	
672415.002.07	D 62, H 3, HE 150, HEL 42	865	270 / 190	3,8	NiMh 3	DALI-Sibe	
672416.002.04	D 62, H 3, HE 150, HEL 42	865	220 / 130	3,8	NiMh 8	MultiDigit	
672416.002.07	D 62, H 3, HE 150, HEL 42	865	220 / 130	3,8	NiMh 8	DALI-Sibe	
672416.002	D 62, H 3, HE 150, HEL 42	865	220 / 130	4,2	NiMh 8	Autotest	



Luminaires for central battery system							
Ceiling cut out DA 54 mm with lens, for area lighting							
672411.002	D 62, H 3, HE 150, HEL 42	865	250 / 250	3,8	without battery	Standard	
672411.002.88	D 62, H 3, HE 150, HEL 42	865	250 / 250	4,8	without battery	MOM	
672411.002.89	D 62, H 3, HE 150, HEL 42	865	250 / 250	4,8	without battery	AC-Control	
with lens, for escape route illumination							
672414.002	D 62, H 3, HE 150, HEL 42	865	250 / 250	3,8	without battery	Standard	
672414.002.88	D 62, H 3, HE 150, HEL 42	865	250 / 250	4,8	without battery	MOM	
672414.002.89	D 62, H 3, HE 150, HEL 42	865	250 / 250	4,8	without battery	AC-Control	



672411.002					
Luminous flux emergency: 250 lm Following values are indicated in m					
h	a	b	c	d	
2,5	12,3	5,5	12,3	5,5	
3,0	14,2	5,6	14,2	5,6	
3,5	15,1	2,6	15,1	2,6	
4,0	11,3	0,4	11,3	0,4	

672412.002					
Luminous flux emergency: 190 lm Following values are indicated in m					
h	a	b	c	d	
2,5	12,0	5,0	12,0	5,0	
3,0	13,1	4,5	13,1	4,5	
3,5	9,8	0,4	9,8	0,4	
4,0	9,5	0,0	9,5	0,0	

672413.002					
Luminous flux emergency: 130 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,8	3,7	10,8	3,7	
3,0	8,1	0,0	8,1	0,0	
3,5	5,7	0,0	5,7	0,1	
4,0	1,2	0,0	1,2	0,0	

672414.002					
Luminous flux emergency: 250 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,9	2,9	18,1	8,0	
3,0	8,3	3,0	20,6	8,7	
3,5	8,4	3,0	22,7	9,0	
4,0	8,5	2,9	24,2	8,1	

672415.002					
Luminous flux emergency: 190 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,2	2,6	17,4	7,5	
3,0	7,3	2,6	19,6	7,8	
3,5	7,4	2,5	21,2	7,1	
4,0	7,4	2,3	21,1	6,4	

672416.002					
Luminous flux emergency: 130 lm Following values are indicated in m					
h	a	b	c	d	
2,5	6,1	2,1	16,3	6,5	
3,0	6,1	2,0	17,7	5,7	
3,5	6,1	1,8	17,9	5,0	
4,0	5,9	1,5	17,0	4,0	



Recessed ceiling luminaires | Solyxx

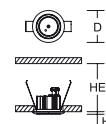
Type of Protection: IP 20
Protection Class: II
Ceiling thickness S: 5-40 mm
Impact Protection: IK03

For escape route illumination

Housing: die-cast aluminium. Bezel ring: plastic.
Emergency kit and battery in separate box with connecting cable.
Available colour: 2 = white

Self-contained safety luminaires

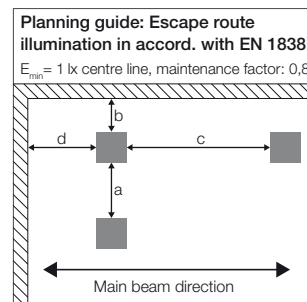
Voltage type: AC
Fitted as standard with test button.
Operating mode: non-maintained power mode (BS)



Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery [h]	Monitoring
Self-contained safety luminaires						
Ceiling cut out DA 42 mm, HE 150 mm						
672391.002	D 50, H 8, HE 150	840	170	2,5	NIMh	3

Price Category 23

672391.002					
Luminous flux emergency: 170 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	9,2	3,4	9,2	3,4	
3,0	9,4	3,4	9,4	3,4	
3,5	9,6	3,3	9,6	3,3	
4,0	9,7	3,2	9,7	3,2	





EDO

Recessed ceiling luminaires, Retrofit set

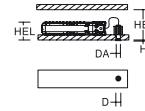
- Top quality LED technology
- Wide luminaire spacing for escape route illumination
- Very low maintenance costs
- LED rated life 50,000 h
- Easy to install
- Compact design
- Inconspicuous design

Recessed ceiling luminaires, Retrofit set | Edo

Type of Protection: IP 20
Protection Class: II
Ceiling thickness S: 1-35 mm
Impact Protection: IK03

For escape route illumination

Housing: plastic, white. PCB and battery in separate gearbox, 700 mm cable.
Available colour: 4 = aluminium



Self-contained safety luminaires

Voltage type: AC
Automatic self test in all standard versions.
Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC
Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

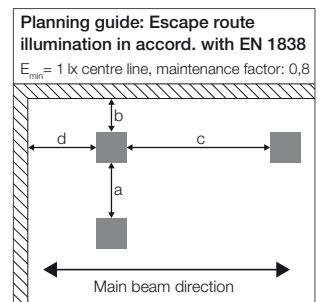
Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery [h]	Monitoring
Self-contained safety luminaires						
Cut out DA 10 mm						
672406.004	D 12, H 1, HE 150, HEL 50	850	120 / 120	3,7	NiMh 3	Autotest
672406.004.04	D 12, H 1, HE 150, HEL 50	850	120 / 120	3,7	NiMh 3	MultiDigit
672406.004.07	D 12, H 1, HE 150, HEL 50	850	120 / 120	3,7	NiMh 3	DALI-Sibe
672407.004	D 12, H 1, HE 150, HEL 50	850	85 / 85	3,7	NiMh 8	Autotest
672407.004.04	D 12, H 1, HE 150, HEL 50	850	85 / 85	3,7	NiMh 8	MultiDigit
672407.004.07	D 12, H 1, HE 150, HEL 50	850	85 / 85	3,7	NiMh 8	DALI-Sibe
Luminaires for central battery system						
Cut out DA 10 mm						
672405.004	D 12, H 1, HE 150, HEL 50	850	120 / 120	2,3	without battery	Standard
672405.004.88	D 12, H 1, HE 150, HEL 50	850	120 / 120	3,3	without battery	MOM
672405.004.89	D 12, H 1, HE 150, HEL 50	850	120 / 120	3,3	without battery	AC-Control



672405.004					
Luminous flux emergency: 120 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,0	2,6	6,9	2,6	
3,0	7,3	2,7	7,3	2,6	
3,5	7,6	2,7	7,5	2,6	
4,0	7,6	2,5	7,6	2,5	

672406.004					
Luminous flux emergency: 120 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,0	2,6	6,9	2,6	
3,0	7,3	2,7	7,3	2,6	
3,5	7,6	2,7	7,5	2,6	
4,0	7,6	2,5	7,6	2,5	

672407.004					
Luminous flux emergency: 85 lm Following values are indicated in m					
h	a	b	c	d	
2,5	6,3	2,3	6,3	2,3	
3,0	6,5	2,3	6,5	2,3	
3,5	6,6	2,1	6,5	2,1	
4,0	6,6	1,7	6,6	1,7	





TOLEDO FLAT

Recessed downlights

- Design continuity to the general lighting product range.
We offer an extensive range of emergency lighting and general lighting systems.
As such, we can provide our customers with integrated solutions for all areas of application, depending on their construction projects.
- Wide luminaire spacing for escape route illumination
- Very low maintenance costs thanks to automatic self-test
- Ultra thin recessed LED downlight
- **Lightguide** and plastic **diffuser** made of **non-yellowing PMMA**
- LED rated life 50,000 h (L70/B10)
- Easy to install thanks to tool-free spring fastening system
- Can be directly covered with thermal insulation material (does not apply for D 495 mm diameter)
- Separate gearbox with connecting cable



Further luminaires of this series, see:
 Indoor lighting | Recessed modular luminaires
 Indoor lighting | Recessed downlights
 Indoor lighting | Surface mounted downlights
 Indoor lighting | Fabric lampshade luminaires

Recessed downlights | Toledo Flat Round

Type of Protection: **IP 40**

Protection Class: I

Ceiling thickness S: 1-20 mm

Impact Protection: IK03

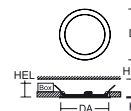
For escape route illumination

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Incl. separate LED converter with connecting cable 250 mm.

Available colour: 2 = white



Self-contained safety luminaires


Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).


Luminaires for central battery system

Voltage type: AC/DC

Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	 [h]	Monitoring	Price Category 23
Self-contained safety luminaires								
Diffuser: plastic, opal								
Ceiling cut out DA 128 mm								
672220.002	D 148, H 2, HE 150, HEL 60-80	830	390 / 310	7,5	NiMh	3	Autotest	
672220.002.04	D 148, H 2, HE 150, HEL 60-80	830	390 / 310	7,5	NiMh	3	MultiDigit	
672220.002.07	D 148, H 2, HE 150, HEL 60-80	830	390 / 310	7,5	NiMh	3	DALI-Sibe	
672221.002	D 148, H 2, HE 150, HEL 60-80	830	390 / 140	7,5	NiMh	8	Autotest	
672221.002.04	D 148, H 2, HE 150, HEL 60-80	830	390 / 140	7,5	NiMh	8	MultiDigit	
672221.002.07	D 148, H 2, HE 150, HEL 60-80	830	390 / 140	7,5	NiMh	8	DALI-Sibe	
672220.002.1	D 148, H 2, HE 150, HEL 60-80	840	400 / 330	7,5	NiMh	3	Autotest	
672220.002.1.04	D 148, H 2, HE 150, HEL 60-80	840	400 / 330	7,5	NiMh	3	MultiDigit	
672220.002.1.07	D 148, H 2, HE 150, HEL 60-80	840	400 / 330	7,5	NiMh	3	DALI-Sibe	
672221.002.1	D 148, H 2, HE 150, HEL 60-80	840	400 / 150	7,5	NiMh	8	Autotest	
672221.002.1.04	D 148, H 2, HE 150, HEL 60-80	840	400 / 150	7,5	NiMh	8	MultiDigit	
672221.002.1.07	D 148, H 2, HE 150, HEL 60-80	840	400 / 150	7,5	NiMh	8	DALI-Sibe	
Ceiling cut out DA 170 mm								
672222.002	D 190, H 2, HE 120, HEL 60-80	830	730 / 370	12	NiMh	3	Autotest	
672222.002.04	D 190, H 2, HE 120, HEL 60-80	830	730 / 370	12	NiMh	3	MultiDigit	
672222.002.07	D 190, H 2, HE 120, HEL 60-80	830	730 / 370	12	NiMh	3	DALI-Sibe	
672223.002	D 190, H 2, HE 120, HEL 60-80	830	730 / 160	12	NiMh	8	Autotest	
672223.002.04	D 190, H 2, HE 120, HEL 60-80	830	730 / 160	12	NiMh	8	MultiDigit	
672223.002.07	D 190, H 2, HE 120, HEL 60-80	830	730 / 160	12	NiMh	8	DALI-Sibe	
672222.002.1	D 190, H 2, HE 120, HEL 60-80	840	830 / 350	12	NiMh	3	Autotest	
672222.002.1.04	D 190, H 2, HE 120, HEL 60-80	840	830 / 350	12	NiMh	3	MultiDigit	
672222.002.1.07	D 190, H 2, HE 120, HEL 60-80	840	830 / 350	12	NiMh	3	DALI-Sibe	
672223.002.1	D 190, H 2, HE 120, HEL 60-80	840	830 / 160	12	NiMh	8	Autotest	
672223.002.1.04	D 190, H 2, HE 120, HEL 60-80	840	830 / 160	12	NiMh	8	MultiDigit	
672223.002.1.07	D 190, H 2, HE 120, HEL 60-80	840	830 / 160	12	NiMh	8	DALI-Sibe	
Ceiling cut out DA 234 mm								
672224.002	D 255, H 3, HE 100, HEL 60-80	830	1650 / 450	20	NiMh	3	Autotest	
672224.002.04	D 255, H 3, HE 100, HEL 60-80	830	1650 / 450	20	NiMh	3	MultiDigit	
672224.002.07	D 255, H 3, HE 100, HEL 60-80	830	1650 / 450	20	NiMh	3	DALI-Sibe	
672225.002	D 255, H 3, HE 100, HEL 60-80	830	1650 / 180	20	NiMh	8	Autotest	
672225.002.04	D 255, H 3, HE 100, HEL 60-80	830	1650 / 180	20	NiMh	8	MultiDigit	
672225.002.07	D 255, H 3, HE 100, HEL 60-80	830	1650 / 180	20	NiMh	8	DALI-Sibe	
672224.002.1	D 255, H 3, HE 100, HEL 60-80	840	1650 / 460	20	NiMh	3	Autotest	
672224.002.1.04	D 255, H 3, HE 100, HEL 60-80	840	1650 / 460	20	NiMh	3	MultiDigit	
672224.002.1.07	D 255, H 3, HE 100, HEL 60-80	840	1650 / 460	20	NiMh	3	DALI-Sibe	
672225.002.1	D 255, H 3, HE 100, HEL 60-80	840	1650 / 180	20	NiMh	8	Autotest	
672225.002.1.04	D 255, H 3, HE 100, HEL 60-80	840	1650 / 180	20	NiMh	8	MultiDigit	
672225.002.1.07	D 255, H 3, HE 100, HEL 60-80	840	1650 / 180	20	NiMh	8	DALI-Sibe	
Ceiling cut out DA 288 mm								
672226.002	D 317, H 3, HE 90, HEL 60-80	830	2150 / 430	26	NiMh	3	Autotest	
672226.002.04	D 317, H 3, HE 90, HEL 60-80	830	2150 / 430	26	NiMh	3	MultiDigit	
672226.002.07	D 317, H 3, HE 90, HEL 60-80	830	2150 / 430	26	NiMh	3	DALI-Sibe	
672227.002	D 317, H 3, HE 90, HEL 60-80	830	2150 / 180	26	NiMh	8	Autotest	
672227.002.04	D 317, H 3, HE 90, HEL 60-80	830	2150 / 180	26	NiMh	8	MultiDigit	
672227.002.07	D 317, H 3, HE 90, HEL 60-80	830	2150 / 180	26	NiMh	8	DALI-Sibe	
672226.002.1	D 317, H 3, HE 90, HEL 60-80	840	2250 / 440	26	NiMh	3	Autotest	
672226.002.1.04	D 317, H 3, HE 90, HEL 60-80	840	2250 / 440	26	NiMh	3	MultiDigit	
672226.002.1.07	D 317, H 3, HE 90, HEL 60-80	840	2250 / 440	26	NiMh	3	DALI-Sibe	
672227.002.1	D 317, H 3, HE 90, HEL 60-80	840	2250 / 180	26	NiMh	8	Autotest	
672227.002.1.04	D 317, H 3, HE 90, HEL 60-80	840	2250 / 180	26	NiMh	8	MultiDigit	
672227.002.1.07	D 317, H 3, HE 90, HEL 60-80	840	2250 / 180	26	NiMh	8	DALI-Sibe	





Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires							
Diffuser: plastic, opal							
Ceiling cut out DA 470 mm							
672384.002	D 495, H 6, HE 70, HEL 60-80	830	3500 / 430	38	NiMh	3	Autotest
672384.002.04	D 495, H 6, HE 70, HEL 60-80	830	3500 / 430	38	NiMh	3	MultiDigit
672384.002.07	D 495, H 6, HE 70, HEL 60-80	830	3500 / 430	38	NiMh	3	DALI-Sibe
672385.002	D 495, H 6, HE 70, HEL 60-80	830	3500 / 170	38	NiMh	8	Autotest
672385.002.04	D 495, H 6, HE 70, HEL 60-80	830	3500 / 170	38	NiMh	8	MultiDigit
672385.002.07	D 495, H 6, HE 70, HEL 60-80	830	3500 / 170	38	NiMh	8	DALI-Sibe
672384.002.1	D 495, H 6, HE 70, HEL 60-80	840	3600 / 440	38	NiMh	3	Autotest
672384.002.1.04	D 495, H 6, HE 70, HEL 60-80	840	3600 / 440	38	NiMh	3	MultiDigit
672384.002.1.07	D 495, H 6, HE 70, HEL 60-80	840	3600 / 440	38	NiMh	3	DALI-Sibe
672385.002.1	D 495, H 6, HE 70, HEL 60-80	840	3600 / 170	38	NiMh	8	Autotest
672385.002.1.04	D 495, H 6, HE 70, HEL 60-80	840	3600 / 170	38	NiMh	8	MultiDigit
672385.002.1.07	D 495, H 6, HE 70, HEL 60-80	840	3600 / 170	38	NiMh	8	DALI-Sibe
Diffuser: transparent plastic, microprismatic							
Ceiling cut out DA 470 mm							
672382.002	D 495, H 6, HE 70, HEL 60-80	830	3500 / 430	38	NiMh	3	Autotest
672382.002.04	D 495, H 6, HE 70, HEL 60-80	830	3500 / 430	38	NiMh	3	MultiDigit
672382.002.07	D 495, H 6, HE 70, HEL 60-80	830	3500 / 430	38	NiMh	3	DALI-Sibe
672383.002	D 495, H 6, HE 70, HEL 60-80	830	3500 / 170	38	NiMh	8	Autotest
672383.002.04	D 495, H 6, HE 70, HEL 60-80	830	3500 / 170	38	NiMh	8	MultiDigit
672383.002.07	D 495, H 6, HE 70, HEL 60-80	830	3500 / 170	38	NiMh	8	DALI-Sibe
672382.002.1	D 495, H 6, HE 70, HEL 60-80	840	3600 / 440	38	NiMh	3	Autotest
672382.002.1.04	D 495, H 6, HE 70, HEL 60-80	840	3600 / 440	38	NiMh	3	MultiDigit
672382.002.1.07	D 495, H 6, HE 70, HEL 60-80	840	3600 / 440	38	NiMh	3	DALI-Sibe
672383.002.1	D 495, H 6, HE 70, HEL 60-80	840	3600 / 170	38	NiMh	8	Autotest
672383.002.1.04	D 495, H 6, HE 70, HEL 60-80	840	3600 / 170	38	NiMh	8	MultiDigit
672383.002.1.07	D 495, H 6, HE 70, HEL 60-80	840	3600 / 170	38	NiMh	8	DALI-Sibe

Price Category 23



Luminaires for central battery system							
Diffuser: plastic, opal							
Ceiling cut out DA 128 mm							
672228.002	D 148, H 2, HE 35, HEL 31-51	830	390 / 390	5	without battery		Standard
672228.002.88	D 148, H 2, HE 100, HEL 37-57	830	390 / 390	6	without battery		MOM
672228.002.89	D 148, H 2, HE 100, HEL 37-57	830	390 / 390	6	without battery		AC-Control
672228.002.1	D 148, H 2, HE 35, HEL 31-51	840	400 / 400	5	without battery		Standard
672228.002.1.88	D 148, H 2, HE 100, HEL 37-57	840	400 / 400	6	without battery		MOM
672228.002.1.89	D 148, H 2, HE 100, HEL 37-57	840	400 / 400	6	without battery		AC-Control
Ceiling cut out DA 170 mm							
672229.002	D 190, H 2, HE 35, HEL 31-51	830	740 / 740	9	without battery		Standard
672229.002.88	D 190, H 2, HE 60, HEL 37-57	830	740 / 740	10	without battery		MOM
672229.002.89	D 190, H 2, HE 60, HEL 37-57	830	740 / 740	10	without battery		AC-Control
672229.002.1	D 190, H 2, HE 35, HEL 31-51	840	840 / 840	9	without battery		Standard
672229.002.1.88	D 190, H 2, HE 60, HEL 37-57	840	840 / 840	10	without battery		MOM
672229.002.1.89	D 190, H 2, HE 60, HEL 37-57	840	840 / 840	10	without battery		AC-Control
Ceiling cut out DA 234 mm							
672230.002	D 255, H 3, HE 35, HEL 31-51	830	1650 / 1650	18	without battery		Standard
672230.002.88	D 255, H 3, HE 60, HEL 37-57	830	1650 / 1650	19	without battery		MOM
672230.002.89	D 255, H 3, HE 60, HEL 37-57	830	1650 / 1650	19	without battery		AC-Control
672230.002.1	D 255, H 3, HE 35, HEL 31-51	840	1650 / 1650	18	without battery		Standard
672230.002.1.88	D 255, H 3, HE 60, HEL 37-57	840	1650 / 1650	19	without battery		MOM
672230.002.1.89	D 255, H 3, HE 60, HEL 37-57	840	1650 / 1650	19	without battery		AC-Control
Ceiling cut out DA 288 mm							
672231.002	D 317, H 3, HE 35, HEL 31-51	830	2150 / 2150	23	without battery		Standard
672231.002.88	D 317, H 3, HE 50, HEL 37-57	830	2150 / 2150	24	without battery		MOM
672231.002.89	D 317, H 3, HE 50, HEL 37-57	830	2150 / 2150	24	without battery		AC-Control
672231.002.1	D 317, H 3, HE 35, HEL 31-51	840	2250 / 2250	23	without battery		Standard
672231.002.1.88	D 317, H 3, HE 50, HEL 37-57	840	2250 / 2250	24	without battery		MOM
672231.002.1.89	D 317, H 3, HE 50, HEL 37-57	840	2250 / 2250	24	without battery		AC-Control
Ceiling cut out DA 470 mm							
672380.002	D 495, H 6, HE 40, HEL 31-51	830	3450 / 3450	35	without battery		Standard
672380.002.88	D 495, H 6, HE 50, HEL 37-57	830	3450 / 3450	36	without battery		MOM
672380.002.89	D 495, H 6, HE 50, HEL 37-57	830	3450 / 3450	36	without battery		AC-Control
672380.002.1	D 495, H 6, HE 40, HEL 31-51	840	3550 / 3550	35	without battery		Standard
672380.002.1.88	D 495, H 6, HE 50, HEL 37-57	840	3550 / 3550	36	without battery		MOM
672380.002.1.89	D 495, H 6, HE 50, HEL 37-57	840	3550 / 3550	36	without battery		AC-Control
Diffuser: transparent plastic, microprismatic							
Ceiling cut out DA 470 mm							
672379.002	D 495, H 6, HE 40, HEL 31-51	830	3550 / 3550	35	without battery		Standard
672379.002.88	D 495, H 6, HE 50, HEL 37-57	830	3550 / 3550	36	without battery		MOM
672379.002.89	D 495, H 6, HE 50, HEL 37-57	830	3550 / 3550	36	without battery		AC-Control
672379.002.1	D 495, H 6, HE 40, HEL 31-51	840	3600 / 3600	35	without battery		Standard
672379.002.1.88	D 495, H 6, HE 50, HEL 37-57	840	3600 / 3600	36	without battery		MOM
672379.002.1.89	D 495, H 6, HE 50, HEL 37-57	840	3600 / 3600	36	without battery		AC-Control

Price Category 24



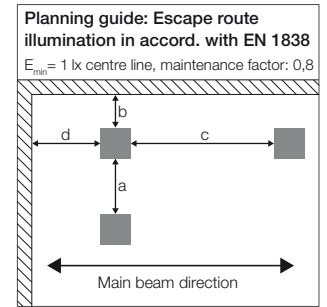
Recessed frame							
Module 600							
982182.002	L 595, B 595, H 36	for Toledo Flat	Round D 495				
Module 625							
982183.002	L 622, B 622, H 36	for Toledo Flat	Round D 495				

Price Category 21

672220.002					
Luminous flux emergency: 310 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,7	3,9	9,7	3,9	
3,0	10,4	4,1	10,4	4,1	
3,5	11,1	4,3	11,1	4,3	
4,0	11,6	4,4	11,6	4,4	

672220.002.1					
Luminous flux emergency: 330 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,9	4,0	9,9	4,0	
3,0	10,6	4,2	10,6	4,2	
3,5	11,3	4,4	11,3	4,4	
4,0	11,8	4,5	11,8	4,5	

672221.002					
Luminous flux emergency: 140 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,6	2,9	7,6	2,9	
3,0	8,0	3,0	8,0	3,0	
3,5	8,3	3,0	8,3	3,0	
4,0	8,5	2,9	8,5	2,9	



672222.002					
Luminous flux emergency: 370 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,3	4,2	10,3	4,2	
3,0	11,1	4,4	11,1	4,4	
3,5	11,8	4,6	11,8	4,6	
4,0	12,4	4,8	12,4	4,8	

672222.002.1					
Luminous flux emergency: 350 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,1	4,1	10,1	4,1	
3,0	10,9	4,3	10,9	4,3	
3,5	11,5	4,5	11,5	4,5	
4,0	12,1	4,7	12,1	4,7	

672223.002					
Luminous flux emergency: 160 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,0	3,1	8,0	3,1	
3,0	8,5	3,2	8,5	3,2	
3,5	8,8	3,2	8,8	3,2	
4,0	9,0	3,2	9,0	3,2	

672224.002					
Luminous flux emergency: 450 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,8	4,4	10,8	4,4	
3,0	11,7	4,7	11,7	4,7	
3,5	12,5	4,9	12,5	4,9	
4,0	13,1	5,1	13,1	5,1	

672224.002.1					
Luminous flux emergency: 460 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,9	4,4	10,9	4,4	
3,0	11,8	4,7	11,8	4,7	
3,5	12,5	5,0	12,5	5,0	
4,0	13,2	5,2	13,2	5,2	

672225.002					
Luminous flux emergency: 180 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,2	3,2	8,2	3,2	
3,0	8,7	3,3	8,7	3,3	
3,5	9,1	3,4	9,1	3,4	
4,0	9,4	3,4	9,4	3,4	

672226.002					
Luminous flux emergency: 430 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,6	4,3	10,6	4,3	
3,0	11,5	4,6	11,5	4,6	
3,5	12,2	4,8	12,2	4,8	
4,0	12,9	5,0	12,9	5,0	

672228.002					
Luminous flux emergency: 390 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,4	4,2	10,4	4,2	
3,0	11,3	4,5	11,3	4,5	
3,5	11,9	4,7	11,9	4,7	
4,0	12,5	4,9	12,5	4,9	

672229.002					
Luminous flux emergency: 740 lm Following values are indicated in m					
h	a	b	c	d	
2,5	12,5	5,1	12,5	5,1	
3,0	13,6	5,5	13,6	5,5	
3,5	14,5	5,9	14,5	5,9	
4,0	15,3	6,1	15,3	6,1	

672230.002					
Luminous flux emergency: 1650 lm Following values are indicated in m					
h	a	b	c	d	
2,5	15,4	6,4	15,4	6,4	
3,0	16,8	7,0	16,8	7,0	
3,5	18,1	7,4	18,1	7,4	
4,0	19,2	7,9	19,2	7,9	

672231.002					
Luminous flux emergency: 2150 lm Following values are indicated in m					
h	a	b	c	d	
2,5	16,4	6,8	16,4	6,8	
3,0	17,9	7,4	17,9	7,4	
3,5	19,2	8,0	19,2	8,0	
4,0	20,5	8,4	20,5	8,4	

672379.002					
Luminous flux emergency: 3550 lm Following values are indicated in m					
h	a	b	c	d	
2,5	16,7	6,9	16,7	6,9	
3,0	18,1	7,5	18,1	7,5	
3,5	19,5	8,0	19,5	8,0	
4,0	20,7	8,4	20,7	8,4	

672380.002					
Luminous flux emergency: 3450 lm Following values are indicated in m					
h	a	b	c	d	
2,5	18,8	7,8	18,8	7,8	
3,0	20,5	8,5	20,5	8,5	
3,5	22,1	9,2	22,1	9,2	
4,0	23,6	9,7	23,6	9,7	

672382.002					
Luminous flux emergency: 430 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,1	3,7	9,1	3,7	
3,0	9,9	4,0	9,9	4,0	
3,5	10,6	4,3	10,6	4,3	
4,0	11,3	4,6	11,3	4,6	

672383.002					
Luminous flux emergency: 170 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,0	2,9	7,0	2,9	
3,0	7,6	3,1	7,6	3,1	
3,5	8,1	3,3	8,1	3,3	
4,0	8,6	3,4	8,6	3,4	

672384.002					
Luminous flux emergency: 430 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,7	4,3	10,7	4,3	
3,0	11,6	4,6	11,6	4,6	
3,5	12,3	4,9	12,3	4,9	
4,0	13,0	5,1	13,0	5,1	

672385.002					
Luminous flux emergency: 170 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,1	3,2	8,1	3,2	
3,0	8,6	3,3	8,6	3,3	
3,5	9,0	3,3	9,0	3,3	
4,0	9,2	3,3	9,2	3,3	



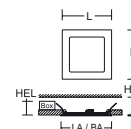
Recessed downlights | Toledo Flat Square

Type of Protection: IP 40
Protection Class: I
Ceiling thickness S: 1-20 mm
Impact Protection: IK03

For escape route illumination

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).
Ceiling installation with spring system. Mounting depth depends on ceiling strength.
Incl. separate LED converter with connecting cable 250 mm.

Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery [h]	Monitoring	Price Category 23
Self-contained safety luminaires							
Ceiling cut out LA 96 x BA 96 mm							
672233.002	L 110, B 110, H 3, HE 170, HEL 60-80	830	370 / 280	7,2	NiMh	3	Autotest
672233.002.04	L 110, B 110, H 3, HE 170, HEL 60-80	830	370 / 280	7,2	NiMh	3	MultiDigit
672233.002.07	L 110, B 110, H 3, HE 170, HEL 60-80	830	370 / 280	7,2	NiMh	3	DALI-Sibe
672234.002	L 110, B 110, H 3, HE 170, HEL 60-80	830	370 / 120	7,2	NiMh	8	Autotest
672234.002.04	L 110, B 110, H 3, HE 170, HEL 60-80	830	370 / 120	7,2	NiMh	8	MultiDigit
672234.002.07	L 110, B 110, H 3, HE 170, HEL 60-80	830	370 / 120	7,2	NiMh	8	DALI-Sibe
672233.002.1	L 110, B 110, H 3, HE 170, HEL 60-80	840	380 / 330	7,2	NiMh	3	Autotest
672233.002.1.04	L 110, B 110, H 3, HE 170, HEL 60-80	840	380 / 330	7,2	NiMh	3	MultiDigit
672233.002.1.07	L 110, B 110, H 3, HE 170, HEL 60-80	840	380 / 330	7,2	NiMh	3	DALI-Sibe
672234.002.1	L 110, B 110, H 3, HE 170, HEL 60-80	840	380 / 130	7,2	NiMh	8	Autotest
672234.002.1.04	L 110, B 110, H 3, HE 170, HEL 60-80	840	380 / 130	7,2	NiMh	8	MultiDigit
672234.002.1.07	L 110, B 110, H 3, HE 170, HEL 60-80	840	380 / 130	7,2	NiMh	8	DALI-Sibe
Ceiling cut out LA 156 x BA 156 mm							
672235.002	L 172, B 172, H 3, HE 110, HEL 60-80	830	730 / 350	11	NiMh	3	Autotest
672235.002.04	L 172, B 172, H 3, HE 110, HEL 60-80	830	730 / 350	11	NiMh	3	MultiDigit
672235.002.07	L 172, B 172, H 3, HE 110, HEL 60-80	830	730 / 350	11	NiMh	3	DALI-Sibe
672236.002	L 172, B 172, H 3, HE 110, HEL 60-80	830	730 / 160	11	NiMh	8	Autotest
672236.002.04	L 172, B 172, H 3, HE 110, HEL 60-80	830	730 / 160	11	NiMh	8	MultiDigit
672236.002.07	L 172, B 172, H 3, HE 110, HEL 60-80	830	730 / 160	11	NiMh	8	DALI-Sibe
672235.002.1	L 172, B 172, H 3, HE 110, HEL 60-80	840	750 / 340	11	NiMh	3	Autotest
672235.002.1.04	L 172, B 172, H 3, HE 110, HEL 60-80	840	750 / 340	11	NiMh	3	MultiDigit
672235.002.1.07	L 172, B 172, H 3, HE 110, HEL 60-80	840	750 / 340	11	NiMh	3	DALI-Sibe
672236.002.1	L 172, B 172, H 3, HE 110, HEL 60-80	840	730 / 150	11	NiMh	8	Autotest
672236.002.1.04	L 172, B 172, H 3, HE 110, HEL 60-80	840	730 / 150	11	NiMh	8	MultiDigit
672236.002.1.07	L 172, B 172, H 3, HE 110, HEL 60-80	840	730 / 150	11	NiMh	8	DALI-Sibe
Ceiling cut out LA 208 x BA 208 mm							
672237.002	L 225, B 225, H 3, HE 100, HEL 60-80	830	1600 / 440	20	NiMh	3	Autotest
672237.002.04	L 225, B 225, H 3, HE 100, HEL 60-80	830	1600 / 440	20	NiMh	3	MultiDigit
672237.002.07	L 225, B 225, H 3, HE 100, HEL 60-80	830	1600 / 440	20	NiMh	3	DALI-Sibe
672238.002	L 225, B 225, H 3, HE 100, HEL 60-80	830	1600 / 170	20	NiMh	8	Autotest
672238.002.04	L 225, B 225, H 3, HE 100, HEL 60-80	830	1600 / 170	20	NiMh	8	MultiDigit
672238.002.07	L 225, B 225, H 3, HE 100, HEL 60-80	830	1600 / 170	20	NiMh	8	DALI-Sibe
672237.002.1	L 225, B 225, H 3, HE 100, HEL 60-80	840	1650 / 450	20	NiMh	3	Autotest
672237.002.1.04	L 225, B 225, H 3, HE 100, HEL 60-80	840	1650 / 450	20	NiMh	3	MultiDigit
672237.002.1.07	L 225, B 225, H 3, HE 100, HEL 60-80	840	1650 / 450	20	NiMh	3	DALI-Sibe
672238.002.1	L 225, B 225, H 3, HE 100, HEL 60-80	840	1650 / 180	20	NiMh	8	Autotest
672238.002.1.04	L 225, B 225, H 3, HE 100, HEL 60-80	840	1650 / 180	20	NiMh	8	MultiDigit
672238.002.1.07	L 225, B 225, H 3, HE 100, HEL 60-80	840	1650 / 180	20	NiMh	8	DALI-Sibe
Ceiling cut out LA 280 x BA 280 mm							
672239.002	L 300, B 300, H 3, HE 90, HEL 60-80	830	2050 / 420	25	NiMh	3	Autotest
672239.002.04	L 300, B 300, H 3, HE 90, HEL 60-80	830	2050 / 420	25	NiMh	3	MultiDigit
672239.002.07	L 300, B 300, H 3, HE 90, HEL 60-80	830	2050 / 420	25	NiMh	3	DALI-Sibe
672240.002	L 300, B 300, H 3, HE 90, HEL 60-80	830	2050 / 170	25	NiMh	8	Autotest
672240.002.04	L 300, B 300, H 3, HE 90, HEL 60-80	830	2050 / 170	25	NiMh	8	MultiDigit
672240.002.07	L 300, B 300, H 3, HE 90, HEL 60-80	830	2050 / 170	25	NiMh	8	DALI-Sibe
672239.002.1	L 300, B 300, H 3, HE 90, HEL 60-80	840	2200 / 430	25	NiMh	3	Autotest
672239.002.1.04	L 300, B 300, H 3, HE 90, HEL 60-80	840	2200 / 430	25	NiMh	3	MultiDigit
672239.002.1.07	L 300, B 300, H 3, HE 90, HEL 60-80	840	2200 / 430	25	NiMh	3	DALI-Sibe
672240.002.1	L 300, B 300, H 3, HE 90, HEL 60-80	840	2200 / 180	25	NiMh	8	Autotest
672240.002.1.04	L 300, B 300, H 3, HE 90, HEL 60-80	840	2200 / 180	25	NiMh	8	MultiDigit
672240.002.1.07	L 300, B 300, H 3, HE 90, HEL 60-80	840	2200 / 180	25	NiMh	8	DALI-Sibe

Recessed downlights | Toledo Flat Square

Type of Protection: **IP 40**

Protection Class: I

Ceiling thickness S: 1-20 mm

Impact Protection: IK03

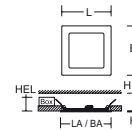
For escape route illumination

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Incl. separate LED converter with connecting cable 250 mm.

Available colour: 2 = white



Luminaires for central battery system

Voltage type: AC/DC

Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring
Luminaires for central battery system						
Ceiling cut out LA 96 x BA 96 mm						
672241.002	L 110, B 110, H 3, HE 40, HEL 31-51	830	370 / 370	4,7	without battery	Standard
672241.002.88	L 110, B 110, H 3, HE 100, HEL 37-57	830	370 / 370	5,7	without battery	MOM
672241.002.89	L 110, B 110, H 3, HE 100, HEL 37-57	830	370 / 370	5,7	without battery	AC-Control
672241.002.1	L 110, B 110, H 3, HE 40, HEL 31-51	840	380 / 380	4,7	without battery	Standard
672241.002.1.88	L 110, B 110, H 3, HE 100, HEL 37-57	840	380 / 380	5,7	without battery	MOM
672241.002.1.89	L 110, B 110, H 3, HE 100, HEL 37-57	840	380 / 380	5,7	without battery	AC-Control
Ceiling cut out LA 156 x BA 156 mm						
672242.002	L 172, B 172, H 3, HE 35, HEL 31-51	830	730 / 730	8	without battery	Standard
672242.002.88	L 172, B 172, H 3, HE 60, HEL 37-57	830	730 / 730	9	without battery	MOM
672242.002.89	L 172, B 172, H 3, HE 60, HEL 37-57	830	730 / 730	9	without battery	AC-Control
672242.002.1	L 172, B 172, H 3, HE 35, HEL 31-51	840	750 / 750	8	without battery	Standard
672242.002.1.88	L 172, B 172, H 3, HE 60, HEL 37-57	840	750 / 750	9	without battery	MOM
672242.002.1.89	L 172, B 172, H 3, HE 60, HEL 37-57	840	750 / 750	9	without battery	AC-Control
Ceiling cut out LA 208 x BA 208 mm						
672243.002	L 225, B 225, H 3, HE 35, HEL 31-51	830	1600 / 1600	18	without battery	Standard
672243.002.88	L 225, B 225, H 3, HE 40, HEL 37-57	830	1600 / 1600	19	without battery	MOM
672243.002.89	L 225, B 225, H 3, HE 40, HEL 37-57	830	1600 / 1600	19	without battery	AC-Control
672243.002.1	L 225, B 225, H 3, HE 35, HEL 31-51	840	1650 / 1650	18	without battery	Standard
672243.002.1.88	L 225, B 225, H 3, HE 40, HEL 37-57	840	1650 / 1650	19	without battery	MOM
672243.002.1.89	L 225, B 225, H 3, HE 40, HEL 37-57	840	1650 / 1650	19	without battery	AC-Control
Ceiling cut out LA 280 x BA 280 mm						
672244.002	L 300, B 300, H 3, HE 35, HEL 31-51	830	2050 / 2050	22	without battery	Standard
672244.002.88	L 300, B 300, H 3, HE 40, HEL 37-57	830	2050 / 2050	23	without battery	MOM
672244.002.89	L 300, B 300, H 3, HE 40, HEL 37-57	830	2050 / 2050	23	without battery	AC-Control
672244.002.1	L 300, B 300, H 3, HE 35, HEL 31-51	840	2200 / 2200	22	without battery	Standard
672244.002.1.88	L 300, B 300, H 3, HE 40, HEL 37-57	840	2200 / 2200	23	without battery	MOM
672244.002.1.89	L 300, B 300, H 3, HE 40, HEL 37-57	840	2200 / 2200	23	without battery	AC-Control

Price Category 24



672233.002					
Luminous flux emergency: 280 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	9,5	3,8	9,5	3,8	
3,0	10,2	4,0	10,2	4,0	
3,5	10,7	4,1	10,7	4,1	
4,0	11,2	4,2	11,2	4,2	

672234.002					
Luminous flux emergency: 120 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	7,2	2,7	7,2	2,7	
3,0	7,6	2,8	7,6	2,8	
3,5	7,8	2,7	7,8	2,7	
4,0	7,9	2,6	7,9	2,6	

672235.002					
Luminous flux emergency: 350 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	10,2	4,1	10,2	4,1	
3,0	10,9	4,3	10,9	4,3	
3,5	11,6	4,5	11,6	4,5	
4,0	12,1	4,7	12,1	4,7	

672236.002					
Luminous flux emergency: 160 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	8,0	3,1	8,0	3,1	
3,0	8,5	3,2	8,5	3,2	
3,5	8,8	3,2	8,8	3,2	
4,0	9,0	3,2	9,0	3,2	

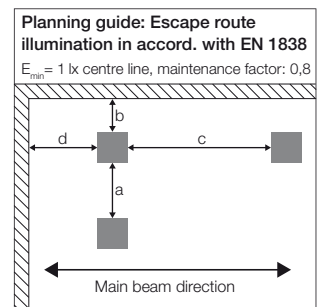
672237.002					
Luminous flux emergency: 440 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	10,8	4,4	10,8	4,4	
3,0	11,6	4,7	11,6	4,7	
3,5	12,4	4,9	12,4	4,9	
4,0	13,0	5,1	13,0	5,1	

672241.002					
Luminous flux emergency: 370 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	10,3	4,1	10,3	4,1	
3,0	11,1	4,4	11,1	4,4	
3,5	11,8	4,6	11,8	4,6	
4,0	12,3	4,8	12,3	4,8	

672242.002					
Luminous flux emergency: 730 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	12,3	5,0	12,3	5,0	
3,0	13,4	5,4	13,4	5,4	
3,5	14,3	5,8	14,3	5,8	
4,0	15,1	6,1	15,1	6,1	

672243.002					
Luminous flux emergency: 1600 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	15,2	6,3	15,2	6,3	
3,0	16,6	6,8	16,6	6,8	
3,5	17,8	7,3	17,8	7,3	
4,0	18,9	7,8	18,9	7,8	

672244.002.1					
Luminous flux emergency: 2200 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	16,5	6,8	16,5	6,8	
3,0	18,0	7,5	18,0	7,5	
3,5	19,4	8,0	19,4	8,0	
4,0	20,6	8,5	20,6	8,5	

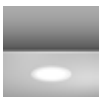




TOLEDO FLAT

Surface mounted downlights

- Design continuity to the general lighting product range.
We offer an extensive range of emergency lighting and general lighting systems.
As such, we can provide our customers with integrated solutions for all areas of application, depending on their construction projects.
- LED rated life 50,000 h (L70/B10)
- **Lightguide** and plastic **diffuser** made of **non-yellowing PMMA**
- Also suitable for large ceiling heights
- Easy to install
- Wide luminaire spacing for escape route illumination
- Inconspicuous design



Further luminaires of this series, see:
Indoor lighting | Recessed downlights
Indoor lighting | Surface mounted downlights

Surface mounted downlights | Toledo Flat Round

Type of Protection: **IP 40**

Protection Class: I

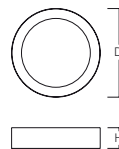
Impact Protection: IK06

For escape route illumination

Cylinder housing sheet steel, powder coated. Bezel ring: die-cast aluminium, powder coated.

Lightguide and diffuser made of non-yellowing plastic (PMMA).

Available colour: 2 = white




Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires							Price Category 23
Diffuser: plastic, opal							
Diameter D 257 mm							
672271.002	D 257, H 63	830	1650 / 450	20	NiMh	3	Autotest
672271.002.04	D 257, H 63	830	1650 / 450	20	NiMh	3	MultiDigit
672271.002.07	D 257, H 63	830	1650 / 450	20	NiMh	3	DALI-Sibe
672272.002	D 257, H 63	830	1650 / 180	20	NiMh	8	Autotest
672272.002.04	D 257, H 63	830	1650 / 180	20	NiMh	8	MultiDigit
672272.002.07	D 257, H 63	830	1650 / 180	20	NiMh	8	DALI-Sibe
672271.002.1	D 257, H 63	840	1650 / 460	20	NiMh	3	Autotest
672271.002.1.04	D 257, H 63	840	1650 / 460	20	NiMh	3	MultiDigit
672271.002.1.07	D 257, H 63	840	1650 / 460	20	NiMh	3	DALI-Sibe
672272.002.1	D 257, H 63	840	1650 / 180	20	NiMh	8	Autotest
672272.002.1.04	D 257, H 63	840	1650 / 180	20	NiMh	8	MultiDigit
672272.002.1.07	D 257, H 63	840	1650 / 180	20	NiMh	8	DALI-Sibe
Diameter D 319 mm							
672273.002	D 319, H 63	830	2150 / 430	26	NiMh	3	Autotest
672273.002.04	D 319, H 63	830	2150 / 430	26	NiMh	3	MultiDigit
672273.002.07	D 319, H 63	830	2150 / 430	26	NiMh	3	DALI-Sibe
672274.002	D 319, H 63	830	2150 / 180	26	NiMh	8	Autotest
672274.002.04	D 319, H 63	830	2150 / 180	26	NiMh	8	MultiDigit
672274.002.07	D 319, H 63	830	2150 / 180	26	NiMh	8	DALI-Sibe
672273.002.1	D 319, H 63	840	2250 / 440	26	NiMh	3	Autotest
672273.002.1.04	D 319, H 63	840	2250 / 440	26	NiMh	3	MultiDigit
672273.002.1.07	D 319, H 63	840	2250 / 440	26	NiMh	3	DALI-Sibe
672274.002.1	D 319, H 63	840	2250 / 180	26	NiMh	8	Autotest
672274.002.1.04	D 319, H 63	840	2250 / 180	26	NiMh	8	MultiDigit
672274.002.1.07	D 319, H 63	840	2250 / 180	26	NiMh	8	DALI-Sibe
Diameter D 500 mm							
672350.002	D 500, H 63	830	3500 / 430	38	NiMh	3	Autotest
672350.002.04	D 500, H 63	830	3500 / 430	38	NiMh	3	MultiDigit
672350.002.07	D 500, H 63	830	3500 / 430	38	NiMh	3	DALI-Sibe
672351.002	D 500, H 63	830	3500 / 430	38	NiMh	8	Autotest
672351.002.04	D 500, H 63	830	3500 / 430	38	NiMh	8	MultiDigit
672351.002.07	D 500, H 63	830	3500 / 430	38	NiMh	8	DALI-Sibe
672350.002.1	D 500, H 63	840	3600 / 440	38	NiMh	3	Autotest
672350.002.1.04	D 500, H 63	840	3600 / 440	38	NiMh	3	MultiDigit
672350.002.1.07	D 500, H 63	840	3600 / 440	38	NiMh	3	DALI-Sibe
672351.002.1	D 500, H 63	840	3600 / 440	38	NiMh	8	Autotest
672351.002.1.04	D 500, H 63	840	3600 / 440	38	NiMh	8	MultiDigit
672351.002.1.07	D 500, H 63	840	3600 / 440	38	NiMh	8	DALI-Sibe
Diffuser: transparent plastic, microprismatic							
Diameter D 500 mm							
672352.002	D 500, H 63	830	3500 / 430	38	NiMh	3	Autotest
672352.002.04	D 500, H 63	830	3500 / 430	38	NiMh	3	MultiDigit
672352.002.07	D 500, H 63	830	3500 / 430	38	NiMh	3	DALI-Sibe
672353.002	D 500, H 63	830	3450 / 430	38	NiMh	8	Autotest
672353.002.04	D 500, H 63	830	3450 / 430	38	NiMh	8	MultiDigit
672353.002.07	D 500, H 63	830	3450 / 430	38	NiMh	8	DALI-Sibe
672352.002.1	D 500, H 63	840	3600 / 440	38	NiMh	3	Autotest
672352.002.1.04	D 500, H 63	840	3600 / 440	38	NiMh	3	MultiDigit
672352.002.1.07	D 500, H 63	840	3600 / 440	38	NiMh	3	DALI-Sibe
672353.002.1	D 500, H 63	840	3550 / 440	38	NiMh	8	Autotest
672353.002.1.04	D 500, H 63	840	3550 / 440	38	NiMh	8	MultiDigit
672353.002.1.07	D 500, H 63	840	3550 / 440	38	NiMh	8	DALI-Sibe





Surface mounted downlights | Toledo Flat Round

Type of Protection: **IP 40**

Protection Class: **I**

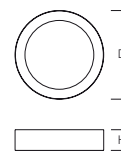
Impact Protection: **IK06**

For escape route illumination

Cylinder housing sheet steel, powder coated. Bezel ring: die-cast aluminium, powder coated.

Lightguide and diffuser made of non-yellowing plastic (PMMA).

Available colour: 2 = white



Luminaires for central battery system

Voltage type: AC/DC

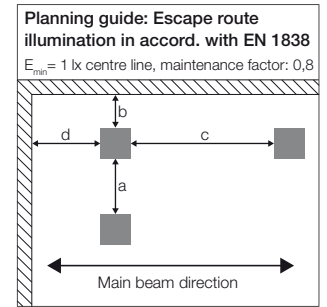


Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring
Luminaires for central battery system						
Diffuser: plastic, opal						
Diameter D 150 mm						
672290.002	D 150, H 57	830	390 / 390	5	without battery	Standard
672290.002.88	D 150, H 57	830	390 / 390	6	without battery	MOM
672290.002.89	D 150, H 57	830	390 / 390	6	without battery	AC-Control
672290.002.1	D 150, H 57	840	400 / 400	5	without battery	Standard
672290.002.1.88	D 150, H 57	840	400 / 400	6	without battery	MOM
672290.002.1.89	D 150, H 57	840	400 / 400	6	without battery	AC-Control
Diameter D 192 mm						
672279.002	D 192, H 58	830	740 / 740	9	without battery	Standard
672279.002.88	D 192, H 58	830	740 / 740	10	without battery	MOM
672279.002.89	D 192, H 58	830	740 / 740	10	without battery	AC-Control
672279.002.1	D 192, H 58	840	840 / 840	9	without battery	Standard
672279.002.1.88	D 192, H 58	840	840 / 840	10	without battery	MOM
672279.002.1.89	D 192, H 58	840	840 / 840	10	without battery	AC-Control
Diameter D 257 mm						
672280.002	D 257, H 63	830	1650 / 1650	18	without battery	Standard
672280.002.88	D 257, H 63	830	1650 / 1650	19	without battery	MOM
672280.002.89	D 257, H 63	830	1650 / 1650	19	without battery	AC-Control
672280.002.1	D 257, H 63	840	1650 / 1650	18	without battery	Standard
672280.002.1.88	D 257, H 63	840	1650 / 1650	19	without battery	MOM
672280.002.1.89	D 257, H 63	840	1650 / 1650	19	without battery	AC-Control
Diameter D 319 mm						
672281.002	D 319, H 63	830	2150 / 2150	23	without battery	Standard
672281.002.88	D 319, H 63	830	2150 / 2150	24	without battery	MOM
672281.002.89	D 319, H 63	830	2150 / 2150	24	without battery	AC-Control
672281.002.1	D 319, H 63	840	2250 / 2250	23	without battery	Standard
672281.002.1.88	D 319, H 63	840	2250 / 2250	24	without battery	MOM
672281.002.1.89	D 319, H 63	840	2250 / 2250	24	without battery	AC-Control
Diameter D 500 mm						
672348.002	D 500, H 63	830	3500 / 3500	35	without battery	Standard
672348.002.88	D 500, H 63	830	3500 / 3500	36	without battery	MOM
672348.002.89	D 500, H 63	830	3500 / 3500	36	without battery	AC-Control
672348.002.1	D 500, H 63	840	3600 / 3600	35	without battery	Standard
672348.002.1.88	D 500, H 63	840	3600 / 3600	36	without battery	MOM
672348.002.1.89	D 500, H 63	840	3600 / 3600	36	without battery	AC-Control
Diffuser: transparent plastic, microprismatic						
Diameter D 500 mm						
672349.002	D 500, H 63	830	3500 / 3500	35	without battery	Standard
672349.002.88	D 500, H 63	830	3500 / 3500	36	without battery	MOM
672349.002.89	D 500, H 63	830	3500 / 3500	36	without battery	AC-Control
672349.002.1	D 500, H 63	840	3600 / 3600	35	without battery	Standard
672349.002.1.88	D 500, H 63	840	3600 / 3600	36	without battery	MOM
672349.002.1.89	D 500, H 63	840	3600 / 3600	36	without battery	AC-Control

672348.002					
Luminous flux emergency: 3500 lm Following values are indicated in m					
h	a	b	c	d	
2,5	18,8	7,8	18,8	7,8	
3,0	20,6	8,6	20,6	8,6	
3,5	22,2	9,2	22,2	9,2	
4,0	23,6	9,8	23,6	9,8	

672348.002.1					
Luminous flux emergency: 3600 lm Following values are indicated in m					
h	a	b	c	d	
2,5	18,9	7,9	18,9	7,9	
3,0	20,7	8,6	20,7	8,6	
3,5	22,3	9,3	22,3	9,3	
4,0	23,8	9,9	23,8	9,9	

672349.002					
Luminous flux emergency: 3500 lm Following values are indicated in m					
h	a	b	c	d	
2,5	16,6	6,9	16,6	6,9	
3,0	18,1	7,4	18,1	7,4	
3,5	19,4	7,9	19,4	7,9	
4,0	20,6	8,4	20,6	8,4	



672349.002.1					
Luminous flux emergency: 3600 lm Following values are indicated in m					
h	a	b	c	d	
2,5	16,8	7,0	16,8	7,0	
3,0	18,3	7,6	18,3	7,6	
3,5	19,7	8,1	19,7	8,1	
4,0	21,0	8,6	21,0	8,6	

672350.002					
Luminous flux emergency: 430 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,7	4,3	10,7	4,3	
3,0	11,6	4,6	11,6	4,6	
3,5	12,3	4,9	12,3	4,9	
4,0	13,0	5,1	13,0	5,1	

672351.002					
Luminous flux emergency: 430 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,7	4,3	10,7	4,3	
3,0	11,6	4,6	11,6	4,6	
3,5	12,3	4,9	12,3	4,9	
4,0	12,9	5,1	12,9	5,1	

672352.002					
Luminous flux emergency: 430 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,1	3,7	9,1	3,7	
3,0	9,9	4,0	9,9	4,0	
3,5	10,6	4,3	10,6	4,3	
4,0	11,3	4,6	11,3	4,6	

672353.002					
Luminous flux emergency: 430 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,1	3,7	9,1	3,7	
3,0	9,9	4,0	9,9	4,0	
3,5	10,6	4,3	10,6	4,3	
4,0	11,3	4,6	11,3	4,6	

672271.002					
Luminous flux emergency: 450 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,8	4,4	10,8	4,4	
3,0	11,7	4,7	11,7	4,7	
3,5	12,5	4,9	12,5	4,9	
4,0	13,1	5,1	13,1	5,1	

672272.002					
Luminous flux emergency: 180 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,2	3,2	8,2	3,2	
3,0	8,7	3,3	8,7	3,3	
3,5	9,1	3,4	9,1	3,4	
4,0	9,4	3,4	9,4	3,4	

672273.002					
Luminous flux emergency: 430 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,6	4,3	10,6	4,3	
3,0	11,5	4,6	11,5	4,6	
3,5	12,2	4,8	12,2	4,8	
4,0	12,9	5,0	12,9	5,0	

672274.002					
Luminous flux emergency: 180 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,2	3,2	8,2	3,2	
3,0	8,7	3,3	8,7	3,3	
3,5	9,1	3,4	9,1	3,4	
4,0	9,4	3,4	9,4	3,4	

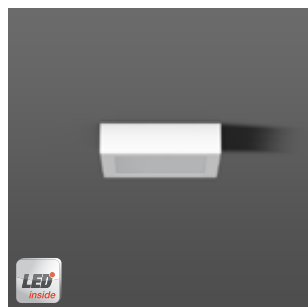
672279.002					
Luminous flux emergency: 740 lm Following values are indicated in m					
h	a	b	c	d	
2,5	12,4	5,1	12,4	5,1	
3,0	13,5	5,5	13,5	5,5	
3,5	14,4	5,8	14,4	5,8	
4,0	15,3	6,1	15,3	6,1	

672279.002.1					
Luminous flux emergency: 840 lm Following values are indicated in m					
h	a	b	c	d	
2,5	12,9	5,3	12,9	5,3	
3,0	14,0	5,7	14,0	5,7	
3,5	15,0	6,1	15,0	6,1	
4,0	15,8	6,4	15,8	6,4	

672280.002					
Luminous flux emergency: 1650 lm Following values are indicated in m					
h	a	b	c	d	
2,5	15,4	6,4	15,4	6,4	
3,0	16,8	7,0	16,8	7,0	
3,5	18,1	7,4	18,1	7,4	
4,0	19,2	7,9	19,2	7,9	

672281.002					
Luminous flux emergency: 2150 lm Following values are indicated in m					
h	a	b	c	d	
2,5	16,4	6,8	16,4	6,8	
3,0	17,9	7,4	17,9	7,4	
3,5	19,2	8,0	19,2	8,0	
4,0	20,5	8,4	20,5	8,4	

672290.002					
Luminous flux emergency: 390 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,4	4,2	10,4	4,2	
3,0	11,2	4,5	11,2	4,5	
3,5	11,9	4,7	11,9	4,7	
4,0	12,5	4,9	12,5	4,9	



Surface mounted downlights | Toledo Flat Square

Type of Protection: **IP 40**

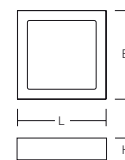
Protection Class: **I**

Impact Protection: **IK06**

For escape route illumination

Surface mounted housing: sheet steel, powder coated. Square cover plate: die-cast aluminium, powder coated. Light guide and diffuser made of non-yellowing PMMA, opal matt.

Available colour: 2 = white



Self-contained safety luminaires

Voltage type: **AC**

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: **AC/DC**



Self-contained safety luminaires

Length L 225 mm x Width B 225 mm

Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery [h]	Monitoring
672275.002	L 225, B 225, H 58	830	1600 / 440	20	NiMh 3	Autotest
672275.002.04	L 225, B 225, H 58	830	1600 / 440	20	NiMh 3	MultiDigit
672275.002.07	L 225, B 225, H 58	830	1600 / 440	20	NiMh 3	DALI-Sibe
672276.002	L 225, B 225, H 58	830	1600 / 170	20	NiMh 8	Autotest
672276.002.04	L 225, B 225, H 58	830	1600 / 170	20	NiMh 8	MultiDigit
672276.002.07	L 225, B 225, H 58	830	1600 / 170	20	NiMh 8	DALI-Sibe
672275.002.1	L 225, B 225, H 58	840	1650 / 450	20	NiMh 3	Autotest
672275.002.1.04	L 225, B 225, H 58	840	1650 / 450	20	NiMh 3	MultiDigit
672275.002.1.07	L 225, B 225, H 58	840	1650 / 450	20	NiMh 3	DALI-Sibe
672276.002.1	L 225, B 225, H 58	840	1650 / 180	20	NiMh 8	Autotest
672276.002.1.04	L 225, B 225, H 58	840	1650 / 180	20	NiMh 8	MultiDigit
672276.002.1.07	L 225, B 225, H 58	840	1650 / 180	20	NiMh 8	DALI-Sibe

Length L 300 mm x Width B 300 mm

672277.002	L 300, B 300, H 58	830	2050 / 420	25	NiMh 3	Autotest
672277.002.04	L 300, B 300, H 58	830	2050 / 420	25	NiMh 3	MultiDigit
672277.002.07	L 300, B 300, H 58	830	2050 / 420	25	NiMh 3	DALI-Sibe
672278.002	L 300, B 300, H 58	830	2050 / 170	25	NiMh 8	Autotest
672278.002.04	L 300, B 300, H 58	830	2050 / 170	25	NiMh 8	MultiDigit
672278.002.07	L 300, B 300, H 58	830	2050 / 170	25	NiMh 8	DALI-Sibe
672277.002.1	L 300, B 300, H 58	840	2200 / 430	25	NiMh 3	Autotest
672277.002.1.04	L 300, B 300, H 58	840	2200 / 430	25	NiMh 3	MultiDigit
672277.002.1.07	L 300, B 300, H 58	840	2200 / 430	25	NiMh 3	DALI-Sibe
672278.002.1	L 300, B 300, H 58	840	2200 / 180	25	NiMh 8	Autotest
672278.002.1.04	L 300, B 300, H 58	840	2200 / 180	25	NiMh 8	MultiDigit
672278.002.1.07	L 300, B 300, H 58	840	2200 / 180	25	NiMh 8	DALI-Sibe



Luminaires for central battery system

Length L 110 mm x Width B 110 mm

672259.002	L 110, B 110, H 58	830	410 / 410	6	without battery	Standard
672259.002.88	L 110, B 110, H 58	830	410 / 410	7	without battery	MOM
672259.002.89	L 110, B 110, H 58	830	410 / 410	7	without battery	AC-Control
672259.002.1	L 110, B 110, H 58	840	430 / 430	6	without battery	Standard
672259.002.1.88	L 110, B 110, H 58	840	430 / 430	7	without battery	MOM
672259.002.1.89	L 110, B 110, H 58	840	430 / 430	7	without battery	AC-Control

Length L 172 mm x Width B 172 mm

672267.002	L 172, B 172, H 58	830	730 / 730	8	without battery	Standard
672267.002.88	L 172, B 172, H 58	830	730 / 730	9	without battery	MOM
672267.002.89	L 172, B 172, H 58	830	730 / 730	9	without battery	AC-Control
672267.002.1	L 172, B 172, H 58	840	730 / 730	8	without battery	Standard
672267.002.1.88	L 172, B 172, H 58	840	730 / 730	9	without battery	MOM
672267.002.1.89	L 172, B 172, H 58	840	730 / 730	9	without battery	AC-Control

Length L 225 mm x Width B 225 mm

672268.002	L 225, B 225, H 58	830	1600 / 1600	18	without battery	Standard
672268.002.88	L 225, B 225, H 58	830	1600 / 1600	19	without battery	MOM
672268.002.89	L 225, B 225, H 58	830	1600 / 1600	19	without battery	AC-Control
672268.002.1	L 225, B 225, H 58	840	1650 / 1650	18	without battery	Standard
672268.002.1.88	L 225, B 225, H 58	840	1650 / 1650	19	without battery	MOM
672268.002.1.89	L 225, B 225, H 58	840	1650 / 1650	19	without battery	AC-Control

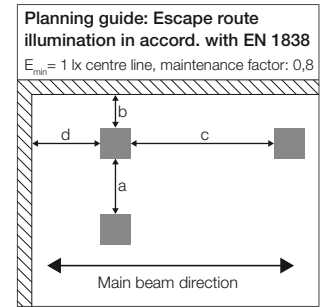
Length L 300 mm x Width B 300 mm

672269.002	L 300, B 300, H 58	830	2050 / 2050	22	without battery	Standard
672269.002.88	L 300, B 300, H 58	830	2050 / 2050	23	without battery	MOM
672269.002.89	L 300, B 300, H 58	830	2050 / 2050	23	without battery	AC-Control
672269.002.1	L 300, B 300, H 58	840	2200 / 2200	22	without battery	Standard
672269.002.1.88	L 300, B 300, H 58	840	2200 / 2200	23	without battery	MOM
672269.002.1.89	L 300, B 300, H 58	840	2200 / 2200	23	without battery	AC-Control

672259.002					
Luminous flux emergency: 410 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,5	4,3	10,5	4,3	
3,0	11,4	4,6	11,4	4,6	
3,5	12,1	4,8	12,1	4,8	
4,0	12,7	4,9	12,7	4,9	

672259.002.1					
Luminous flux emergency: 430 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,7	4,3	10,7	4,3	
3,0	11,6	4,6	11,6	4,6	
3,5	12,3	4,9	12,3	4,9	
4,0	12,9	5,0	12,9	5,0	

672267.002					
Luminous flux emergency: 730 lm Following values are indicated in m					
h	a	b	c	d	
2,5	12,5	5,1	12,5	5,1	
3,0	13,5	5,5	13,5	5,5	
3,5	14,5	5,8	14,5	5,8	
4,0	15,3	6,1	15,3	6,1	



672268.002					
Luminous flux emergency: 1600 lm Following values are indicated in m					
h	a	b	c	d	
2,5	15,2	6,3	15,2	6,3	
3,0	16,6	6,8	16,6	6,8	
3,5	17,8	7,3	17,8	7,3	
4,0	18,9	7,8	18,9	7,8	

672268.002.1					
Luminous flux emergency: 1650 lm Following values are indicated in m					
h	a	b	c	d	
2,5	15,3	6,3	15,3	6,3	
3,0	16,7	6,9	16,7	6,9	
3,5	17,9	7,4	17,9	7,4	
4,0	19,1	7,8	19,1	7,8	

672269.002					
Luminous flux emergency: 2050 lm Following values are indicated in m					
h	a	b	c	d	
2,5	16,2	6,7	16,2	6,7	
3,0	17,7	7,3	17,7	7,3	
3,5	19,0	7,9	19,0	7,9	
4,0	20,3	8,3	20,3	8,3	

672269.002.1					
Luminous flux emergency: 2200 lm Following values are indicated in m					
h	a	b	c	d	
2,5	16,5	6,8	16,5	6,8	
3,0	18,0	7,5	18,0	7,5	
3,5	19,4	8,0	19,4	8,0	
4,0	20,6	8,5	20,6	8,5	

672275.002					
Luminous flux emergency: 440 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,8	4,4	10,8	4,4	
3,0	11,6	4,7	11,6	4,7	
3,5	12,4	4,9	12,4	4,9	
4,0	13,0	5,1	13,0	5,1	

672276.002					
Luminous flux emergency: 170 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,1	3,1	8,1	3,1	
3,0	8,6	3,3	8,6	3,3	
3,5	8,9	3,3	8,9	3,3	
4,0	9,2	3,3	9,2	3,3	

672277.002					
Luminous flux emergency: 420 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,6	4,3	10,6	4,3	
3,0	11,5	4,6	11,5	4,6	
3,5	12,2	4,8	12,2	4,8	
4,0	12,8	5,0	12,8	5,0	

672277.002.1					
Luminous flux emergency: 430 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,7	4,3	10,7	4,3	
3,0	11,5	4,6	11,5	4,6	
3,5	12,3	4,8	12,3	4,8	
4,0	12,9	5,0	12,9	5,0	

672278.002					
Luminous flux emergency: 170 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,1	3,1	8,1	3,1	
3,0	8,6	3,3	8,6	3,3	
3,5	9,0	3,3	9,0	3,3	
4,0	9,2	3,3	9,2	3,3	

672278.002.1					
Luminous flux emergency: 180 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,2	3,2	8,2	3,2	
3,0	8,7	3,3	8,7	3,3	
3,5	9,1	3,4	9,1	3,4	
4,0	9,4	3,4	9,4	3,4	



SIDELITE® ECO

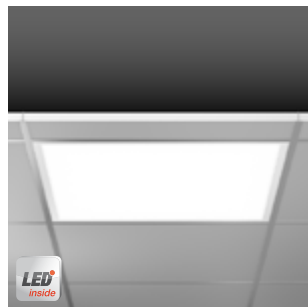
Lay-in luminaires

- Design continuity to the general lighting product range. We offer an extensive range of emergency lighting and general lighting systems. As such, we can provide our customers with integrated solutions for all areas of application, depending on their construction projects
- Diffuser plastic (PMMA) microprismatic: ideal for office areas ($UGR \leq 19$) and environments with computer screens in accordance with EN 12464-1
- **Lightguide** and plastic **diffuser** made of **non-yellowing PMMA**
- RZB SIDELITE® technology: lateral light injection for extremely homogeneous light distribution
- LED rated life 50,000 h (L70/B10)
- Standard automatic self-test
- Low maintenance costs
- Wide luminaire spacing for escape route illumination
- Suitable for use in the food and drink industry



Further luminaires of this series, see:
Indoor lighting | Recessed modular luminaires
Indoor lighting | Surface mounted modular luminaires





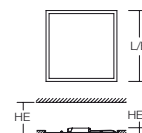
Lay-in luminaires | Sidelite ECO

Type of Protection: IP 20, **IP 40** on room side
Protection Class: I, II
Impact Protection: IK03

For escape route illumination

Frame: aluminium, powder-coated. Diffuser made of non-yellowing plastic, opal or microprismatic (suitable for use in environments with computer screens in accordance with EN 12464-1).
Lightguide and diffuser made of non-yellowing plastic (PMMA). Lateral light emission thanks to LED. Extended connection cable (1.90 m). External driver.

Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Status LED to be installed externally behind the ceiling with a ceiling cutout \varnothing 12 mm. Distance from Status LED to luminaire 450 mm max. Suitable for a ceiling thickness of 2 mm up to 15 mm.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring	
Self-contained safety luminaires							Price Category 23
Module 600							
Diffuser: plastic (PMMA), opal							
672359.002	L 595, B 595, HE 160, HEL 40	830	3200 / 390	32	NiMh 3	Autotest	
672359.002.04	L 595, B 595, HE 160, HEL 40	830	3200 / 390	32	NiMh 3	MultiDigit	
672359.002.07	L 595, B 595, HE 160, HEL 40	830	3200 / 390	32	NiMh 3	DALI-Sibe	
672360.002	L 595, B 595, HE 160, HEL 40	830	3200 / 170	32	NiMh 8	Autotest	
672360.002.04	L 595, B 595, HE 160, HEL 40	830	3200 / 170	32	NiMh 8	MultiDigit	
672360.002.07	L 595, B 595, HE 160, HEL 40	830	3200 / 170	32	NiMh 8	DALI-Sibe	
672359.002.1	L 595, B 595, HE 160, HEL 40	840	3700 / 410	32	NiMh 3	Autotest	
672359.002.1.04	L 595, B 595, HE 160, HEL 40	840	3700 / 410	32	NiMh 3	MultiDigit	
672359.002.1.07	L 595, B 595, HE 160, HEL 40	840	3700 / 410	32	NiMh 3	DALI-Sibe	
672360.002.1	L 595, B 595, HE 160, HEL 40	840	3700 / 180	32	NiMh 8	Autotest	
672360.002.1.04	L 595, B 595, HE 160, HEL 40	840	3700 / 180	32	NiMh 8	MultiDigit	
672360.002.1.07	L 595, B 595, HE 160, HEL 40	840	3700 / 180	32	NiMh 8	DALI-Sibe	
Diffuser: plastic (PMMA) microprismatic							
672356.002	L 595, B 595, HE 160, HEL 40	830	3350 / 390	32	NiMh 3	Autotest	
672356.002.04	L 595, B 595, HE 160, HEL 40	830	3350 / 390	32	NiMh 3	MultiDigit	
672356.002.07	L 595, B 595, HE 160, HEL 40	830	3350 / 390	32	NiMh 3	DALI-Sibe	
672357.002	L 595, B 595, HE 160, HEL 40	830	3350 / 170	32	NiMh 8	Autotest	
672357.002.04	L 595, B 595, HE 160, HEL 40	830	3350 / 170	32	NiMh 8	MultiDigit	
672357.002.07	L 595, B 595, HE 160, HEL 40	830	3350 / 170	32	NiMh 8	DALI-Sibe	
672356.002.1	L 595, B 595, HE 160, HEL 40	840	3700 / 410	32	NiMh 3	Autotest	
672356.002.1.04	L 595, B 595, HE 160, HEL 40	840	3700 / 410	32	NiMh 3	MultiDigit	
672356.002.1.07	L 595, B 595, HE 160, HEL 40	840	3700 / 410	32	NiMh 3	DALI-Sibe	
672357.002.1	L 595, B 595, HE 160, HEL 40	840	3700 / 180	32	NiMh 8	Autotest	
672357.002.1.04	L 595, B 595, HE 160, HEL 40	840	3700 / 180	32	NiMh 8	MultiDigit	
672357.002.1.07	L 595, B 595, HE 160, HEL 40	840	3700 / 180	32	NiMh 8	DALI-Sibe	



Luminaires for central battery system							Price Category 24
Module 600							
Diffuser: plastic (PMMA), opal							
672358.002	L 595, B 595, HE 160, HEL 40	830	3200 / 3200	29	without battery	Standard	
672358.002.88	L 595, B 595, HE 160, HEL 40	830	3200 / 3200	30	without battery	MOM	
672358.002.89	L 595, B 595, HE 160, HEL 40	830	3200 / 3200	30	without battery	AC-Control	
672358.002.1	L 595, B 595, HE 160, HEL 40	840	3700 / 3700	29	without battery	Standard	
672358.002.1.88	L 595, B 595, HE 160, HEL 40	840	3700 / 3700	30	without battery	MOM	
672358.002.1.89	L 595, B 595, HE 160, HEL 40	840	3700 / 3700	30	without battery	AC-Control	
Diffuser: plastic (PMMA) microprismatic							
672355.002	L 595, B 595, HE 160, HEL 40	830	3350 / 3350	29	without battery	Standard	
672355.002.88	L 595, B 595, HE 160, HEL 40	830	3350 / 3350	30	without battery	MOM	
672355.002.89	L 595, B 595, HE 160, HEL 40	830	3350 / 3350	30	without battery	AC-Control	
672355.002.1	L 595, B 595, HE 160, HEL 40	840	3700 / 3700	29	without battery	Standard	
672355.002.1.88	L 595, B 595, HE 160, HEL 40	840	3700 / 3700	30	without battery	MOM	
672355.002.1.89	L 595, B 595, HE 160, HEL 40	840	3700 / 3700	30	without battery	AC-Control	

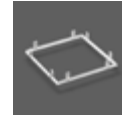
Accessories | Recessed mounting frame

Recessed mounting frame: sheet steel, powder-coated, white. For installation on suspended ceilings. Minimum recess depth: 300 mm.
Ceiling thickness: 1-30 mm

Mounting frame for installation in suspended ceilings

Price Category 21

981941.012	L 624, B 624, H 2, HE 94
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Accessories | Surface mounting frame

Mounting frame: sheet steel, powder-coated, white.

Surface mounting frame

Price Category 21

982187.032	L 602, B 602, H 52	Surface-mounted frame for central-battery luminaires
982187.042	L 602, B 602, H 52	Surface-mounted frame for single-battery luminaires



Ceiling surface mounting kit

Price Category 21

981980.012	consisting of 4 cylindrical spacers (Ø 30, H 38)
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Accessories | Pendant kit

Pendant kit consisting of 4 steel cables and ceiling mounting with rapid cable adjustment

Pendant kit

Price Category 21

981978.010	LP 1500
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672355.002					
Luminous flux emergency: 3350 lm Following values are indicated in m					
h	a	b	c	d	
2,5	15,6	6,5	15,5	6,6	
3,0	17,0	7,0	17,2	7,3	
3,5	18,3	7,6	18,7	7,8	
4,0	19,4	8,2	20,1	8,3	

672355.002.1					
Luminous flux emergency: 3700 lm Following values are indicated in m					
h	a	b	c	d	
2,5	16,0	6,8	16,2	6,7	
3,0	17,7	7,4	17,7	7,3	
3,5	19,2	8,0	19,1	7,9	
4,0	20,5	8,5	20,3	8,5	

672356.002					
Luminous flux emergency: 390 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,8	4,4	10,2	4,1	
3,0	11,7	4,7	11,0	4,4	
3,5	12,4	4,9	11,7	4,6	
4,0	13,0	5,1	12,3	4,7	

672357.002					
Luminous flux emergency: 170 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,0	2,9	7,3	3,0	
3,0	7,7	3,1	7,9	3,3	
3,5	8,3	3,3	8,6	3,5	
4,0	8,7	3,4	9,1	3,6	

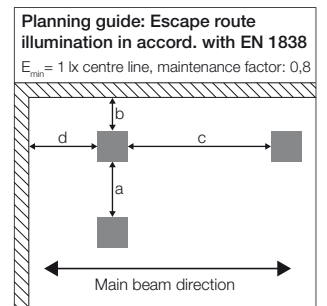
672358.002					
Luminous flux emergency: 3200 lm Following values are indicated in m					
h	a	b	c	d	
2,5	18,7	7,9	18,0	7,5	
3,0	20,6	8,6	19,7	8,2	
3,5	22,2	9,2	21,2	8,8	
4,0	23,7	9,8	22,6	9,4	

672358.002.1					
Luminous flux emergency: 3700 lm Following values are indicated in m					
h	a	b	c	d	
2,5	18,6	7,8	19,4	8,2	
3,0	20,4	8,5	21,3	8,9	
3,5	22,0	9,2	23,1	9,6	
4,0	23,5	9,7	24,6	10,2	

672359.002					
Luminous flux emergency: 390 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,8	4,4	10,2	4,1	
3,0	11,7	4,7	11,0	4,4	
3,5	12,4	4,9	11,7	4,6	
4,0	13,0	5,1	12,3	4,7	

672360.002					
Luminous flux emergency: 170 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,4	3,3	7,9	3,1	
3,0	8,9	3,4	8,4	3,2	
3,5	9,4	3,5	8,8	3,2	
4,0	9,7	3,4	9,0	3,1	

672360.002.1					
Luminous flux emergency: 180 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,1	3,1	8,6	3,4	
3,0	8,6	3,3	9,2	3,5	
3,5	9,0	3,3	9,6	3,6	
4,0	9,2	3,3	9,9	3,6	





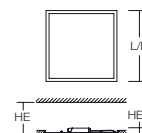
Lay-in luminaires | Sidelite ECO

Type of Protection: IP 20, **IP 40** on room side
Protection Class: I, II
Impact Protection: IK03

For escape route illumination

Frame: aluminium, powder-coated. Diffuser made of non-yellowing plastic, opal or microprismatic (suitable for use in environments with computer screens in accordance with EN 12464-1). Lightguide and diffuser made of non-yellowing plastic (PMMA). Lateral light emission thanks to LED. Extended connection cable (1.90 m). External driver.

Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Status LED to be installed externally behind the ceiling with a ceiling cutout d 12 mm. Distance from Status LED to luminaire 450 mm max. Suitable for a ceiling thickness of 2 mm up to 15 mm.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring	Price Category 23
Self-contained safety luminaires							
Module 625							
Diffuser: plastic (PMMA), opal							
672365.002	L 622, B 622, HE 160, HEL 40	830	3350 / 390	32	NiMh	3 Autotest	
672365.002.04	L 622, B 622, HE 160, HEL 40	830	3350 / 390	32	NiMh	3 MultiDigit	
672365.002.07	L 622, B 622, HE 160, HEL 40	830	3350 / 390	32	NiMh	3 DALI-Sibe	
672366.002	L 622, B 622, HE 160, HEL 40	830	3350 / 170	32	NiMh	8 Autotest	
672366.002.04	L 622, B 622, HE 160, HEL 40	830	3350 / 170	32	NiMh	8 MultiDigit	
672366.002.07	L 622, B 622, HE 160, HEL 40	830	3350 / 170	32	NiMh	8 DALI-Sibe	
672365.002.1	L 622, B 622, HE 160, HEL 40	840	3600 / 410	32	NiMh	3 Autotest	
672365.002.1.04	L 622, B 622, HE 160, HEL 40	840	3600 / 410	32	NiMh	3 MultiDigit	
672365.002.1.07	L 622, B 622, HE 160, HEL 40	840	3600 / 410	32	NiMh	3 DALI-Sibe	
672366.002.1	L 622, B 622, HE 160, HEL 40	840	3600 / 180	32	NiMh	8 Autotest	
672366.002.1.04	L 622, B 622, HE 160, HEL 40	840	3600 / 180	32	NiMh	8 MultiDigit	
672366.002.1.07	L 622, B 622, HE 160, HEL 40	840	3600 / 180	32	NiMh	8 DALI-Sibe	
Diffuser: plastic (PMMA) microprismatic							
672362.002	L 622, B 622, HE 160, HEL 40	830	3400 / 390	32	NiMh	3 Autotest	
672362.002.04	L 622, B 622, HE 160, HEL 40	830	3400 / 390	32	NiMh	3 MultiDigit	
672362.002.07	L 622, B 622, HE 160, HEL 40	830	3400 / 390	32	NiMh	3 DALI-Sibe	
672363.002	L 622, B 622, HE 160, HEL 40	830	3400 / 170	32	NiMh	8 Autotest	
672363.002.04	L 622, B 622, HE 160, HEL 40	830	3400 / 170	32	NiMh	8 MultiDigit	
672363.002.07	L 622, B 622, HE 160, HEL 40	830	3400 / 170	32	NiMh	8 DALI-Sibe	
672362.002.1	L 622, B 622, HE 160, HEL 40	840	3750 / 410	32	NiMh	3 Autotest	
672362.002.1.04	L 622, B 622, HE 160, HEL 40	840	3750 / 410	32	NiMh	3 MultiDigit	
672362.002.1.07	L 622, B 622, HE 160, HEL 40	840	3750 / 410	32	NiMh	3 DALI-Sibe	
672363.002.1	L 622, B 622, HE 160, HEL 40	840	3750 / 180	32	NiMh	8 Autotest	
672363.002.1.04	L 622, B 622, HE 160, HEL 40	840	3750 / 180	32	NiMh	8 MultiDigit	
672363.002.1.07	L 622, B 622, HE 160, HEL 40	840	3750 / 180	32	NiMh	8 DALI-Sibe	



Luminaires for central battery system							Price Category 24
Module 625							
Diffuser: plastic (PMMA), opal							
672364.002	L 622, B 622, HE 160, HEL 40	830	3350 / 3350	29	without battery	Standard	
672364.002.88	L 622, B 622, HE 160, HEL 40	830	3350 / 3350	30	without battery	MOM	
672364.002.89	L 622, B 622, HE 160, HEL 40	830	3350 / 3350	30	without battery	AC-Control	
672364.002.1	L 622, B 622, HE 160, HEL 40	840	3600 / 3600	29	without battery	Standard	
672364.002.1.88	L 622, B 622, HE 160, HEL 40	840	3600 / 3600	30	without battery	MOM	
672364.002.1.89	L 622, B 622, HE 160, HEL 40	840	3600 / 3600	30	without battery	AC-Control	
Diffuser: plastic (PMMA) microprismatic							
672361.002	L 622, B 622, HE 160, HEL 40	830	3400 / 3400	29	without battery	Standard	
672361.002.88	L 622, B 622, HE 160, HEL 40	830	3400 / 3400	30	without battery	MOM	
672361.002.89	L 622, B 622, HE 160, HEL 40	830	3400 / 3400	30	without battery	AC-Control	
672361.002.1	L 622, B 622, HE 160, HEL 40	840	3750 / 3750	29	without battery	Standard	
672361.002.1.88	L 622, B 622, HE 160, HEL 40	840	3750 / 3750	30	without battery	MOM	
672361.002.1.89	L 622, B 622, HE 160, HEL 40	840	3750 / 3750	30	without battery	AC-Control	

Accessories | Recessed mounting frame

Recessed mounting frame: sheet steel, powder-coated, white. For installation on suspended ceilings. Minimum recess depth: 300 mm.

Ceiling thickness: 1-30 mm

Mounting frame for installation in suspended ceilings

Price Category 21

981942.012 L 649, B 649, H 2, HE 94



Spring system set, Ceiling thickness: 10-25 mm

Price Category 21

981979.020 consisting of 4 installation springs



Accessories | Surface mounting frame

Mounting frame: sheet steel, powder-coated, white.

Surface mounting frame

Price Category 21

982292.022 L 627, B 627, H 47 Surface-mounted frame for central-battery luminaires

982292.032 L 627, B 627, H 47 Surface-mounted frame for single-battery luminaires



672361.002					
Luminous flux emergency: 3400 lm Following values are indicated in m					
h	a	b	c	d	
2,5	15,7	6,6	15,8	6,6	
3,0	17,3	7,3	17,3	7,2	
3,5	18,8	7,8	18,6	7,8	
4,0	20,1	8,3	19,8	8,3	

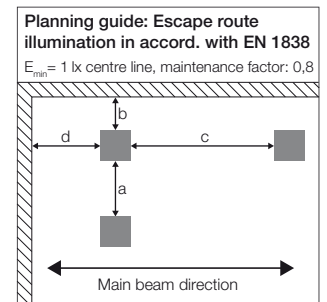
672361.002.1					
Luminous flux emergency: 3750 lm Following values are indicated in m					
h	a	b	c	d	
2,5	16,5	6,6	16,7	6,8	
3,0	17,6	7,3	18,1	7,4	
3,5	18,8	7,9	19,3	8,0	
4,0	20,0	8,5	20,5	8,5	

672362.002					
Luminous flux emergency: 390 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,1	3,6	9,1	3,7	
3,0	9,8	4,0	9,7	4,1	
3,5	10,4	4,3	10,5	4,4	
4,0	11,0	4,6	11,3	4,7	

672362.002.1					
Luminous flux emergency: 410 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,3	3,8	9,2	3,8	
3,0	10,1	4,1	10,1	4,1	
3,5	10,9	4,3	10,8	4,4	
4,0	11,5	4,6	11,3	4,7	

672363.002					
Luminous flux emergency: 170 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,1	2,9	7,2	3,0	
3,0	7,7	3,1	7,9	3,3	
3,5	8,3	3,3	8,6	3,5	
4,0	8,8	3,4	9,1	3,6	

672363.002.1					
Luminous flux emergency: 180 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,4	2,9	7,3	3,0	
3,0	7,9	3,2	7,9	3,3	
3,5	8,4	3,4	8,6	3,5	
4,0	8,9	3,5	9,2	3,7	



672364.002					
Luminous flux emergency: 3350 lm Following values are indicated in m					
h	a	b	c	d	
2,5	18,9	7,9	18,1	7,6	
3,0	20,7	8,7	19,9	8,3	
3,5	22,4	9,3	21,4	8,9	
4,0	23,9	9,9	22,9	9,5	

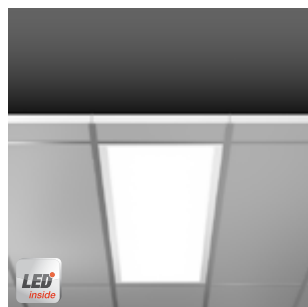
672364.002.1					
Luminous flux emergency: 3600 lm Following values are indicated in m					
h	a	b	c	d	
2,5	19,3	8,1	18,5	7,7	
3,0	21,1	8,8	20,2	8,4	
3,5	22,8	9,5	21,8	9,1	
4,0	24,4	10,1	23,3	9,7	

672365.002					
Luminous flux emergency: 390 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,8	4,4	10,2	4,1	
3,0	11,6	4,7	11,1	4,4	
3,5	12,4	4,9	11,7	4,6	
4,0	13,0	5,1	12,3	4,7	

672365.002.1					
Luminous flux emergency: 410 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,9	4,4	10,4	4,2	
3,0	11,8	4,7	11,2	4,5	
3,5	12,6	5,0	11,9	4,7	
4,0	13,2	5,2	12,5	4,8	

672366.002					
Luminous flux emergency: 170 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,4	3,3	7,9	3,1	
3,0	8,9	3,4	8,4	3,2	
3,5	9,3	3,5	8,8	3,2	
4,0	9,6	3,4	9,0	3,2	

672366.002.1					
Luminous flux emergency: 180 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,5	3,3	8,1	3,1	
3,0	9,1	3,5	8,6	3,3	
3,5	9,5	3,6	9,0	3,3	
4,0	9,9	3,5	9,2	3,3	



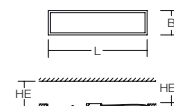
Lay-in luminaires | Sidelite ECO

Type of Protection: IP 20, **IP 40** on room side
Protection Class: I, II
Impact Protection: IK03

For escape route illumination

Frame: aluminium, powder-coated. Diffuser made of non-yellowing plastic, opal or microprismatic (suitable for use in environments with computer screens in accordance with EN 12464-1). Lightguide and diffuser made of non-yellowing plastic (PMMA). Lateral light emission thanks to LED. Extended connection cable (1.90 m). External driver.

Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Status LED to be installed externally behind the ceiling with a ceiling cutout d 12 mm. Distance from Status LED to luminaire 450 mm max. Suitable for a ceiling thickness of 2 mm up to 15 mm.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery [h]	Monitoring	
Self-contained safety luminaires							Price Category 23
Module 1200							
Diffuser: plastic (PMMA), opal							
672371.002	L 1195, B 295, HE 160, HEL 40	830	3300 / 390	32	NiMh 3	Autotest	
672371.002.04	L 1195, B 295, HE 160, HEL 40	830	3300 / 390	32	NiMh 3	MultiDigit	
672371.002.07	L 1195, B 295, HE 160, HEL 40	830	3300 / 390	32	NiMh 3	DALI-Sibe	
672372.002	L 1195, B 295, HE 160, HEL 40	830	3300 / 170	32	NiMh 8	Autotest	
672372.002.04	L 1195, B 295, HE 160, HEL 40	830	3300 / 170	32	NiMh 8	MultiDigit	
672372.002.07	L 1195, B 295, HE 160, HEL 40	830	3300 / 170	32	NiMh 8	DALI-Sibe	
672371.002.1	L 1195, B 295, HE 160, HEL 40	840	3550 / 410	32	NiMh 3	Autotest	
672371.002.1.04	L 1195, B 295, HE 160, HEL 40	840	3550 / 410	32	NiMh 3	MultiDigit	
672371.002.1.07	L 1195, B 295, HE 160, HEL 40	840	3550 / 410	32	NiMh 3	DALI-Sibe	
672372.002.1	L 1195, B 295, HE 160, HEL 40	840	3550 / 180	32	NiMh 8	Autotest	
672372.002.1.04	L 1195, B 295, HE 160, HEL 40	840	3550 / 180	32	NiMh 8	MultiDigit	
672372.002.1.07	L 1195, B 295, HE 160, HEL 40	840	3550 / 180	32	NiMh 8	DALI-Sibe	
Diffuser: plastic (PMMA) microprismatic							
672368.002	L 1195, B 295, HE 160, HEL 40	830	3200 / 390	32	NiMh 3	Autotest	
672368.002.04	L 1195, B 295, HE 160, HEL 40	830	3200 / 390	32	NiMh 3	MultiDigit	
672368.002.07	L 1195, B 295, HE 160, HEL 40	830	3200 / 390	32	NiMh 3	DALI-Sibe	
672369.002	L 1195, B 295, HE 160, HEL 40	830	3200 / 170	32	NiMh 8	Autotest	
672369.002.04	L 1195, B 295, HE 160, HEL 40	830	3200 / 170	32	NiMh 8	MultiDigit	
672369.002.07	L 1195, B 295, HE 160, HEL 40	830	3200 / 170	32	NiMh 8	DALI-Sibe	
672368.002.1	L 1195, B 295, HE 160, HEL 40	840	3450 / 410	32	NiMh 3	Autotest	
672368.002.1.04	L 1195, B 295, HE 160, HEL 40	840	3450 / 410	32	NiMh 3	MultiDigit	
672368.002.1.07	L 1195, B 295, HE 160, HEL 40	840	3450 / 410	32	NiMh 3	DALI-Sibe	
672369.002.1	L 1195, B 295, HE 160, HEL 40	840	3450 / 180	32	NiMh 8	Autotest	
672369.002.1.04	L 1195, B 295, HE 160, HEL 40	840	3450 / 180	32	NiMh 8	MultiDigit	
672369.002.1.07	L 1195, B 295, HE 160, HEL 40	840	3450 / 180	32	NiMh 8	DALI-Sibe	



Luminaires for central battery system							Price Category 24
Module 1200							
Diffuser: plastic (PMMA), opal							
672370.002	L 1195, B 295, HE 160, HEL 40	830	3300 / 3300	29	without battery	Standard	
672370.002.88	L 1195, B 295, HE 160, HEL 40	830	3300 / 3300	30	without battery	MOM	
672370.002.89	L 1195, B 295, HE 160, HEL 40	830	3300 / 3300	30	without battery	AC-Control	
672370.002.1	L 1195, B 295, HE 160, HEL 40	840	3550 / 3550	29	without battery	Standard	
672370.002.1.88	L 1195, B 295, HE 160, HEL 40	840	3550 / 3550	30	without battery	MOM	
672370.002.1.89	L 1195, B 295, HE 160, HEL 40	840	3550 / 3550	30	without battery	AC-Control	
Diffuser: plastic (PMMA) microprismatic							
672367.002	L 1195, B 295, HE 160, HEL 40	830	3200 / 3200	29	without battery	Standard	
672367.002.88	L 1195, B 295, HE 160, HEL 40	830	3200 / 3200	30	without battery	MOM	
672367.002.89	L 1195, B 295, HE 160, HEL 40	830	3200 / 3200	30	without battery	AC-Control	
672367.002.1	L 1195, B 295, HE 160, HEL 40	840	3450 / 3450	29	without battery	Standard	
672367.002.1.88	L 1195, B 295, HE 160, HEL 40	840	3450 / 3450	30	without battery	MOM	
672367.002.1.89	L 1195, B 295, HE 160, HEL 40	840	3450 / 3450	30	without battery	AC-Control	

Accessories | Recessed mounting frame

Recessed mounting frame: sheet steel, powder-coated, white. For installation on suspended ceilings. Minimum recess depth: 300 mm.
Ceiling thickness: 1-30 mm

Mounting frame for installation in suspended ceilings

Price Category 21

982106.012 L 1224, B 324, H 2, HE 94



Accessories | Surface mounting frame

Mounting frame: sheet steel, powder-coated, white.

Surface mounting frame

Price Category 21

982190.042 L 1202, B 302, H 47 Surface-mounted frame for central-battery luminaires
982190.052 L 1202, B 302, H 47 Surface-mounted frame for single-battery luminaires



Ceiling surface mounting kit

Price Category 21

981980.012 consisting of 4 cylindrical spacers (Ø 30, H 38)



Pendant kit

Price Category 21

982035.022 L 300, B 100, H 50, Y-pendant set with canopy
LP 300-1500



672367.002					
Luminous flux emergency: 3200 lm Following values are indicated in m					
h	a	b	c	d	
2,5	15,7	6,3	16,0	6,6	
3,0	16,7	6,9	17,3	7,1	
3,5	17,8	7,5	18,6	7,6	
4,0	19,1	8,2	19,7	8,1	

672367.002.1					
Luminous flux emergency: 3450 lm Following values are indicated in m					
h	a	b	c	d	
2,5	16,1	6,4	16,3	6,7	
3,0	17,2	7,0	17,7	7,3	
3,5	18,2	7,7	19,0	7,8	
4,0	19,4	8,3	20,1	8,3	

672368.002					
Luminous flux emergency: 390 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,1	3,8	9,1	3,8	
3,0	9,9	4,0	10,0	4,1	
3,5	10,7	4,2	10,7	4,4	
4,0	11,3	4,5	11,3	4,7	

672368.002.1					
Luminous flux emergency: 410 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,2	3,8	9,2	3,8	
3,0	10,0	4,1	10,1	4,1	
3,5	10,8	4,3	10,9	4,4	
4,0	11,4	4,5	11,4	4,8	

672369.002					
Luminous flux emergency: 170 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,3	2,9	7,3	3,0	
3,0	7,7	3,1	7,9	3,3	
3,5	8,2	3,3	8,5	3,5	
4,0	8,7	3,4	9,1	3,6	

672369.002.1					
Luminous flux emergency: 180 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,4	2,9	7,4	3,0	
3,0	7,9	3,2	8,0	3,3	
3,5	8,3	3,4	8,7	3,6	
4,0	8,8	3,5	9,3	3,7	

672370.002					
Luminous flux emergency: 3300 lm Following values are indicated in m					
h	a	b	c	d	
2,5	18,1	7,6	18,9	7,9	
3,0	19,8	8,3	20,7	8,7	
3,5	21,4	8,9	22,4	9,3	
4,0	22,8	9,4	23,9	9,9	

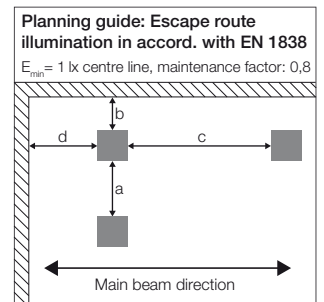
672370.002.1					
Luminous flux emergency: 3550 lm Following values are indicated in m					
h	a	b	c	d	
2,5	18,4	7,7	19,2	8,1	
3,0	20,2	8,4	21,1	8,8	
3,5	21,8	9,1	22,8	9,5	
4,0	23,3	9,6	24,3	10,1	

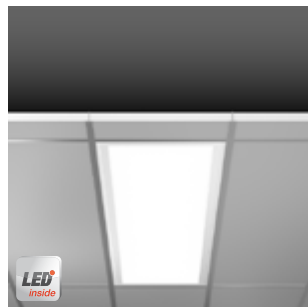
672371.002					
Luminous flux emergency: 390 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,3	4,1	10,8	4,4	
3,0	11,0	4,4	11,7	4,7	
3,5	11,7	4,6	12,4	4,9	
4,0	12,3	4,7	13,0	5,1	

672371.002.1					
Luminous flux emergency: 410 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,4	4,2	11,0	4,4	
3,0	11,2	4,5	11,9	4,7	
3,5	11,9	4,7	12,6	5,0	
4,0	12,5	4,8	13,2	5,2	

672372.002					
Luminous flux emergency: 170 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,9	3,1	8,4	3,3	
3,0	8,4	3,2	9,0	3,4	
3,5	8,7	3,2	9,4	3,5	
4,0	9,0	3,1	9,7	3,4	

672372.002.1					
Luminous flux emergency: 180 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,1	3,1	8,6	3,4	
3,0	8,6	3,2	9,1	3,5	
3,5	8,9	3,3	9,6	3,6	
4,0	9,2	3,3	9,9	3,6	





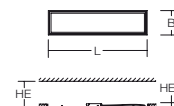
Lay-in luminaires | Sidelite ECO

Type of Protection: IP 20, **IP 40** on room side
Protection Class: I, II
Impact Protection: IK03

For escape route illumination

Frame: aluminium, powder-coated. Diffuser made of non-yellowing plastic, opal or microprismatic (suitable for use in environments with computer screens in accordance with EN 12464-1).
Lightguide and diffuser made of non-yellowing plastic (PMMA). Lateral light emission thanks to LED. Extended connection cable (1.90 m). External driver.

Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Status LED to be installed externally behind the ceiling with a ceiling cutout d 12 mm. Distance from Status LED to luminaire 450 mm max. Suitable for a ceiling thickness of 2 mm up to 15 mm.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery [h]	Monitoring	
Self-contained safety luminaires							Price Category 23
Module 1250							
Diffuser: plastic (PMMA), opal							
672377.002	L 1245, B 308, HE 160, HEL 40	830	3300 / 390	32	NiMh 3	Autotest	
672377.002.04	L 1245, B 308, HE 160, HEL 40	830	3300 / 390	32	NiMh 3	MultiDigit	
672377.002.07	L 1245, B 308, HE 160, HEL 40	830	3300 / 390	32	NiMh 3	DALI-Sibe	
672378.002	L 1245, B 308, HE 160, HEL 40	830	3300 / 170	32	NiMh 8	Autotest	
672378.002.04	L 1245, B 308, HE 160, HEL 40	830	3300 / 170	32	NiMh 8	MultiDigit	
672378.002.07	L 1245, B 308, HE 160, HEL 40	830	3300 / 170	32	NiMh 8	DALI-Sibe	
672377.002.1	L 1245, B 308, HE 160, HEL 40	840	3500 / 410	32	NiMh 3	Autotest	
672377.002.1.04	L 1245, B 308, HE 160, HEL 40	840	3500 / 410	32	NiMh 3	MultiDigit	
672377.002.1.07	L 1245, B 308, HE 160, HEL 40	840	3500 / 410	32	NiMh 3	DALI-Sibe	
672378.002.1	L 1245, B 308, HE 160, HEL 40	840	3500 / 180	32	NiMh 8	Autotest	
672378.002.1.04	L 1245, B 308, HE 160, HEL 40	840	3500 / 180	32	NiMh 8	MultiDigit	
672378.002.1.07	L 1245, B 308, HE 160, HEL 40	840	3500 / 180	32	NiMh 8	DALI-Sibe	
Diffuser: plastic (PMMA) microprismatic							
672374.002	L 1245, B 308, HE 160, HEL 40	830	3150 / 390	32	NiMh 3	Autotest	
672374.002.04	L 1245, B 308, HE 160, HEL 40	830	3150 / 390	32	NiMh 3	MultiDigit	
672374.002.07	L 1245, B 308, HE 160, HEL 40	830	3150 / 390	32	NiMh 3	DALI-Sibe	
672375.002	L 1245, B 308, HE 160, HEL 40	830	3150 / 170	32	NiMh 8	Autotest	
672375.002.04	L 1245, B 308, HE 160, HEL 40	830	3150 / 170	32	NiMh 8	MultiDigit	
672375.002.07	L 1245, B 308, HE 160, HEL 40	830	3150 / 170	32	NiMh 8	DALI-Sibe	
672374.002.1	L 1245, B 308, HE 160, HEL 40	840	3500 / 410	32	NiMh 3	Autotest	
672374.002.1.04	L 1245, B 308, HE 160, HEL 40	840	3500 / 410	32	NiMh 3	MultiDigit	
672374.002.1.07	L 1245, B 308, HE 160, HEL 40	840	3500 / 410	32	NiMh 3	DALI-Sibe	
672375.002.1	L 1245, B 308, HE 160, HEL 40	840	3500 / 180	32	NiMh 8	Autotest	
672375.002.1.04	L 1245, B 308, HE 160, HEL 40	840	3500 / 180	32	NiMh 8	MultiDigit	
672375.002.1.07	L 1245, B 308, HE 160, HEL 40	840	3500 / 180	32	NiMh 8	DALI-Sibe	



Luminaires for central battery system							Price Category 24
Module 1250							
Diffuser: plastic (PMMA), opal							
672376.002	L 1245, B 308, HE 160, HEL 40	830	3300 / 3300	29	without battery	Standard	
672376.002.88	L 1245, B 308, HE 160, HEL 40	830	3300 / 3300	30	without battery	MOM	
672376.002.89	L 1245, B 308, HE 160, HEL 40	830	3300 / 3300	30	without battery	AC-Control	
672376.002.1	L 1245, B 308, HE 160, HEL 40	840	3500 / 3500	29	without battery	Standard	
672376.002.1.88	L 1245, B 308, HE 160, HEL 40	840	3500 / 3500	30	without battery	MOM	
672376.002.1.89	L 1245, B 308, HE 160, HEL 40	840	3500 / 3500	30	without battery	AC-Control	
Diffuser: plastic (PMMA) microprismatic							
672373.002	L 1245, B 308, HE 160, HEL 40	830	3150 / 3150	29	without battery	Standard	
672373.002.88	L 1245, B 308, HE 160, HEL 40	830	3150 / 3150	30	without battery	MOM	
672373.002.89	L 1245, B 308, HE 160, HEL 40	830	3150 / 3150	30	without battery	AC-Control	
672373.002.1	L 1245, B 308, HE 160, HEL 40	840	3500 / 3500	29	without battery	Standard	
672373.002.1.88	L 1245, B 308, HE 160, HEL 40	840	3500 / 3500	30	without battery	MOM	
672373.002.1.89	L 1245, B 308, HE 160, HEL 40	840	3500 / 3500	30	without battery	AC-Control	

Spring system set, Ceiling thickness: 10-25 mm

981979.030

consisting of 6 installation springs

Price Category 11

Accessories | Surface mounting frame

Mounting frame: sheet steel, powder-coated, white.

Surface mounting frame
Price Category 21

982295.032	L 1252, B 315, H 47	Surface-mounted frame for central-battery luminaires
982295.042	L 1252, B 315, H 47	Surface-mounted frame for single-battery luminaires



672373.002					
Luminous flux emergency: 3150 lm Following values are indicated in m					
h	a	b	c	d	
2,5	15,4	6,6	15,7	6,5	
3,0	17,0	7,1	17,1	7,1	
3,5	18,5	7,7	18,4	7,7	
4,0	19,8	8,2	19,6	8,2	

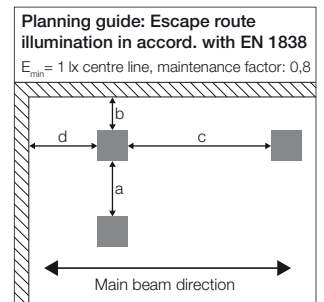
672373.002.1					
Luminous flux emergency: 3500 lm Following values are indicated in m					
h	a	b	c	d	
2,5	15,7	6,7	16,2	6,7	
3,0	17,3	7,4	17,7	7,3	
3,5	18,8	7,9	19,0	7,9	
4,0	20,3	8,4	20,2	8,4	

672374.002					
Luminous flux emergency: 390 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,1	3,6	9,1	3,7	
3,0	9,8	4,0	9,8	4,1	
3,5	10,4	4,3	10,6	4,4	
4,0	11,0	4,6	11,3	4,7	

672374.002.1					
Luminous flux emergency: 410 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,2	3,7	9,3	3,8	
3,0	10,0	4,0	10,0	4,1	
3,5	10,6	4,3	10,7	4,5	
4,0	11,1	4,6	11,4	4,8	

672375.002					
Luminous flux emergency: 170 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,1	2,9	7,2	3,0	
3,0	7,7	3,1	7,9	3,3	
3,5	8,3	3,3	8,6	3,4	
4,0	8,8	3,4	9,1	3,6	

672375.002.1					
Luminous flux emergency: 180 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,2	3,0	7,3	3,1	
3,0	7,8	3,2	8,1	3,3	
3,5	8,4	3,4	8,7	3,5	
4,0	9,0	3,5	9,3	3,7	



672376.002					
Luminous flux emergency: 3300 lm Following values are indicated in m					
h	a	b	c	d	
2,5	18,0	7,5	18,9	7,9	
3,0	19,8	8,2	20,7	8,6	
3,5	21,3	8,9	22,3	9,3	
4,0	22,8	9,4	23,8	9,9	

672376.002.1					
Luminous flux emergency: 3500 lm Following values are indicated in m					
h	a	b	c	d	
2,5	18,3	7,7	19,1	8,0	
3,0	20,1	8,4	20,9	8,8	
3,5	21,7	9,0	22,6	9,4	
4,0	23,1	9,6	24,2	10,0	

672377.002					
Luminous flux emergency: 390 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,2	4,1	10,8	4,4	
3,0	11,0	4,4	11,6	4,7	
3,5	11,7	4,6	12,4	4,9	
4,0	12,2	4,7	13,0	5,1	

672377.002.1					
Luminous flux emergency: 410 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,4	4,2	10,9	4,4	
3,0	11,2	4,5	11,8	4,7	
3,5	11,9	4,7	12,5	5,0	
4,0	12,5	4,8	13,2	5,1	

672378.002					
Luminous flux emergency: 170 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,9	3,1	8,4	3,3	
3,0	8,4	3,2	8,9	3,4	
3,5	8,8	3,2	9,3	3,5	
4,0	9,0	3,2	9,6	3,4	

672378.002.1					
Luminous flux emergency: 180 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,1	3,1	8,5	3,3	
3,0	8,6	3,3	9,1	3,5	
3,5	9,0	3,3	9,5	3,5	
4,0	9,2	3,3	9,8	3,5	



SONIS EVO

Lay-in luminaires

- Design continuity to the general lighting product range. We offer an extensive range of emergency lighting and general lighting systems. As such, we can provide our customers with integrated solutions for all areas of application, depending on their construction projects.
- Suitable for laying in grid ceiling module 600/625
- Standard automatic self-test
- Narrow beam, brilliant luminous effect
- Very high efficiency with optimum glare limitation
- LED rated life 50,000 h (L80/B10)



Further luminaires of this series, see:
 Indoor lighting | Surface mounted modular luminaires
 Indoor lighting | Recessed modular luminaires

Lay-in luminaires | Sonis EVO

Type of Protection: IP 20

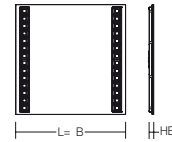
Protection Class: I

Impact Protection: IK03

For escape route illumination

Housing: powder-coated metal white. **Alea optical system:** Reflector structure (ABS, Aluminium-coated, highly polished) with diffuser made of non-yellowing plastic (PMMA) opal for glare-free light at the workstation (screen-compliant according to EN 12464-1). With integrated Edo for emergency lighting.

Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Operating mode Edo: Non-maintained power mode (BS)

Luminaires for central battery system

Voltage type: AC/DC

Operating mode Edo: Non-maintained power mode (BS)

Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery [h]	Monitoring
Self-contained safety luminaires						
Module 600						
672460.002.1	L 597, B 597, HE 37	840	3450 / 110	29	NiMh 3	Autotest
672460.002.1.04	L 597, B 597, HE 37	840	3450 / 110	29	NiMh 3	MultiDigit
672460.002.1.07	L 597, B 597, HE 37	840	3450 / 110	29	NiMh 3	DALI-Sibe
Module 625						
672462.002.1	L 622, B 622, HE 37	840	3450 / 110	29	NiMh 3	Autotest
672462.002.1.04	L 622, B 622, HE 37	840	3450 / 110	29	NiMh 3	MultiDigit
672462.002.1.07	L 622, B 622, HE 37	840	3450 / 110	29	NiMh 3	DALI-Sibe
Luminaires for central battery system						
Module 600						
672461.002.1	L 597, B 597, HE 37	840	3450 / 110	29	without battery	Standard
672461.002.1.88	L 597, B 597, HE 37	840	3450 / 110	29	without battery	MOM
672461.002.1.89	L 597, B 597, HE 37	840	3450 / 110	29	without battery	AC-Control
Module 625						
672463.002.1	L 622, B 622, HE 37	840	3450 / 110	29	without battery	Standard
672463.002.1.88	L 622, B 622, HE 37	840	3450 / 110	29	without battery	MOM
672463.002.1.89	L 622, B 622, HE 37	840	3450 / 110	29	without battery	AC-Control



Accessories | Recessed mounting frame

Recessed mounting frame: sheet steel, powder-coated. For installation on suspended ceilings. Minimum recess depth: 300 mm.

Ceiling thickness: 1-30 mm

Mounting frame for installation in suspended ceilings

			Price Category 21
981941.002	L 624, B 624, H 2, HE 94	for module 600	
981942.002	L 649, B 649, H 2, HE 94	for module 625	



Accessories | Surface mounting frame

Mounting frame: sheet steel, powder-coated, white.

Surface mounting frame

			Price Category 21
982187.012	L 602, B 602, H 47	for module 600	
982292.002	L 627, B 627, H 47	for module 625	



Accessories | Pendant frame

Pendant frame with steel cable suspension and supply cable. Pendant frame: powder-coated metal, white.

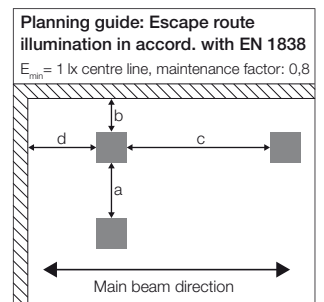
Pendant frame

			Price Category 21
982290.012	L 602, B 602, H 33, LP 1500	for module 600	
982291.002	L 627, B 627, H 33, LP 1500	for module 625	



672462.002.1					
Luminous flux emergency: 110 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	6,9	2,6	6,9	2,6	
3,0	7,3	2,6	7,3	2,6	
3,5	7,5	2,5	7,5	2,5	
4,0	7,5	2,4	7,5	2,4	

672463.002.1					
Luminous flux emergency: 110 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	5,4	2,3	5,6	2,4	
3,0	6,1	2,6	6,3	2,7	
3,5	6,7	2,8	6,9	2,8	
4,0	7,2	2,9	7,4	2,9	





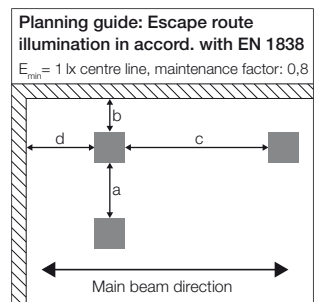
PLANOX

Ceiling and wall luminaires

- Design continuity to the general lighting product range.
We offer an extensive range of emergency lighting and general lighting systems. As such, we can provide our customers with integrated solutions for all areas of application, depending on their construction projects.
- Standard automatic self-test
- Wide luminaire spacing for escape route illumination
- Easy to install
- ▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected
- Suitable for use in the food and drink industry



Further luminaires of this series, see:
Indoor lighting | Luminaires for moist/humid environments



Ceiling and wall luminaires | Planox

Type of Protection: **IP 66**

Protection Class: I

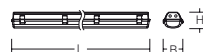
Impact Protection: IK03 (PMMA), IK08 (Polycarbonate)

For escape route illumination

Base: plastic (polycarbonate). White painted, interior fastening element made of steel plate. Refractor: plastic (PMMA or PC), transparent, prismatic inside. Diffuser fastening: stainless steel clips.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colour: 9 = grey



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery [h]	Monitoring
Self-contained safety luminaires						
Refractor: plastic (PMMA)						
Length L 1278 mm						
672202.009	L 1278, B 96, H 100	840	3300 / 600	31	NiMh 3	Autotest
672202.009.04	L 1278, B 96, H 100	840	3300 / 600	31	NiMh 3	MultiDigit
672202.009.07	L 1278, B 96, H 100	840	3300 / 600	31	NiMh 3	DALI-Sibe
672203.009	L 1278, B 96, H 100	840	5000 / 600	44	NiMh 3	Autotest
672203.009.04	L 1278, B 96, H 100	840	5000 / 600	44	NiMh 3	MultiDigit
672203.009.07	L 1278, B 96, H 100	840	5000 / 600	44	NiMh 3	DALI-Sibe
672204.009	L 1278, B 96, H 100	840	5600 / 590	51	NiMh 3	Autotest
672204.009.04	L 1278, B 96, H 100	840	5600 / 590	51	NiMh 3	MultiDigit
672204.009.07	L 1278, B 96, H 100	840	5600 / 590	51	NiMh 3	DALI-Sibe
Length L 1573 mm						
672205.009	L 1573, B 96, H 100	840	4100 / 550	37	NiMh 3	Autotest
672205.009.04	L 1573, B 96, H 100	840	4100 / 550	37	NiMh 3	MultiDigit
672205.009.07	L 1573, B 96, H 100	840	4100 / 550	37	NiMh 3	DALI-Sibe
672206.009	L 1573, B 96, H 100	840	6400 / 540	57	NiMh 3	Autotest
672206.009.04	L 1573, B 96, H 100	840	6400 / 540	57	NiMh 3	MultiDigit
672206.009.07	L 1573, B 96, H 100	840	6400 / 540	57	NiMh 3	DALI-Sibe
Refractor: plastic (polycarbonate)						
Length L 1278 mm						
672202.009.1	L 1278, B 96, H 100	840	3100 / 600	31	NiMh 3	Autotest
672202.009.1.04	L 1278, B 96, H 100	840	3100 / 600	31	NiMh 3	MultiDigit
672202.009.1.07	L 1278, B 96, H 100	840	3100 / 600	31	NiMh 3	DALI-Sibe
672203.009.1	L 1278, B 96, H 100	840	4700 / 550	44	NiMh 3	Autotest
672203.009.1.04	L 1278, B 96, H 100	840	4700 / 550	44	NiMh 3	MultiDigit
672203.009.1.07	L 1278, B 96, H 100	840	4700 / 550	44	NiMh 3	DALI-Sibe
672204.009.1	L 1278, B 96, H 100	840	5300 / 550	51	NiMh 3	Autotest
672204.009.1.04	L 1278, B 96, H 100	840	5300 / 550	51	NiMh 3	MultiDigit
672204.009.1.07	L 1278, B 96, H 100	840	5300 / 550	51	NiMh 3	DALI-Sibe
Length L 1573 mm						
672205.009.1	L 1573, B 96, H 100	840	3950 / 530	37	NiMh 3	Autotest
672205.009.1.04	L 1573, B 96, H 100	840	3950 / 530	37	NiMh 3	MultiDigit
672205.009.1.07	L 1573, B 96, H 100	840	3950 / 530	37	NiMh 3	DALI-Sibe
672206.009.1	L 1573, B 96, H 100	840	6200 / 520	57	NiMh 3	Autotest
672206.009.1.04	L 1573, B 96, H 100	840	6200 / 520	57	NiMh 3	MultiDigit
672206.009.1.07	L 1573, B 96, H 100	840	6200 / 520	57	NiMh 3	DALI-Sibe



672202.009					
Luminous flux emergency: 600 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,6	4,0	12,7	5,1	
3,0	10,5	4,2	13,6	5,2	
3,5	11,3	4,5	14,4	5,3	
4,0	11,8	4,7	14,5	5,6	

672202.009.1					
Luminous flux emergency: 600 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,7	4,0	12,7	5,0	
3,0	10,6	4,2	13,6	5,1	
3,5	11,3	4,5	14,3	5,3	
4,0	11,9	4,7	14,5	5,6	

672205.009					
Luminous flux emergency: 550 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,2	4,1	12,3	4,9	
3,0	11,0	4,4	13,2	5,2	
3,5	11,8	4,7	13,9	5,4	
4,0	12,4	4,9	14,5	5,6	

672205.009.1					
Luminous flux emergency: 530 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,7	3,9	12,3	4,9	
3,0	10,5	4,2	13,2	5,2	
3,5	11,2	4,5	13,8	5,4	
4,0	11,8	4,6	14,4	5,5	



Ceiling and wall luminaires | Planox

Type of Protection: IP 66

Protection Class: I

Impact Protection: IK03 (PMMA), IK08 (Polycarbonate)

For escape route illumination

Base: plastic (polycarbonate). White painted, interior fastening element made of steel plate. Refractor: plastic (PMMA or PC), transparent, prismatic inside. Diffuser fastening: stainless steel clips.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colour: 9 = grey



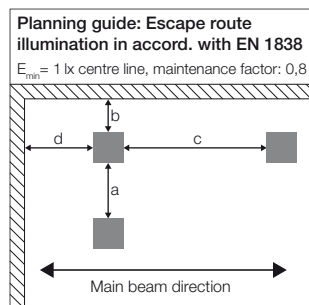
Luminaires for central battery system

Voltage type: AC/DC

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).



Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring
Luminaires for central battery system						
Refractor: plastic (PMMA)						
Length L 658 mm						
672143.009	L 658, B 96, H 100	840	2850 / 2850	23	without battery	Standard
672143.009.88	L 658, B 96, H 100	840	2850 / 2850	24	without battery	MOM
672143.009.89	L 658, B 96, H 100	840	2850 / 2850	24	without battery	AC-Control
Length L 1278 mm						
672144.009	L 1278, B 96, H 100	840	3350 / 3350	28	without battery	Standard
672144.009.88	L 1278, B 96, H 100	840	3350 / 3350	29	without battery	MOM
672144.009.89	L 1278, B 96, H 100	840	3350 / 3350	29	without battery	AC-Control
672199.009	L 1278, B 96, H 100	840	5100 / 5100	41	without battery	Standard
672199.009.89	L 1278, B 96, H 100	840	5100 / 5100	42	without battery	AC-Control
672200.009	L 1278, B 96, H 100	840	5700 / 5700	48	without battery	Standard
672200.009.89	L 1278, B 96, H 100	840	5700 / 5700	49	without battery	AC-Control
Length L 1573 mm						
672145.009	L 1573, B 96, H 100	840	4150 / 4150	34	without battery	Standard
672145.009.88	L 1573, B 96, H 100	840	4150 / 4150	35	without battery	MOM
672145.009.89	L 1573, B 96, H 100	840	4150 / 4150	35	without battery	AC-Control
672201.009	L 1573, B 96, H 100	840	6550 / 6550	54	without battery	Standard
672201.009.89	L 1573, B 96, H 100	840	6550 / 6550	55	without battery	AC-Control
Refractor: plastic (polycarbonate)						
Length L 658 mm						
672143.009.1	L 658, B 96, H 100	840	2750 / 2750	23	without battery	Standard
672143.009.1.88	L 658, B 96, H 100	840	2750 / 2750	24	without battery	MOM
672143.009.1.89	L 658, B 96, H 100	840	2750 / 2750	24	without battery	AC-Control
Length L 1278 mm						
672144.009.1	L 1278, B 96, H 100	840	3250 / 3250	28	without battery	Standard
672144.009.1.88	L 1278, B 96, H 100	840	3250 / 3250	29	without battery	MOM
672144.009.1.89	L 1278, B 96, H 100	840	3250 / 3250	29	without battery	AC-Control
672199.009.1	L 1278, B 96, H 100	840	4850 / 4850	41	without battery	Standard
672199.009.1.89	L 1278, B 96, H 100	840	4850 / 4850	42	without battery	AC-Control
672200.009.1	L 1278, B 96, H 100	840	5400 / 5400	48	without battery	Standard
672200.009.1.89	L 1278, B 96, H 100	840	5400 / 5400	49	without battery	AC-Control
Length L 1573 mm						
672145.009.1	L 1573, B 96, H 100	840	4050 / 4050	34	without battery	Standard
672145.009.1.88	L 1573, B 96, H 100	840	4050 / 4050	35	without battery	MOM
672145.009.1.89	L 1573, B 96, H 100	840	4050 / 4050	35	without battery	AC-Control
672201.009.1	L 1573, B 96, H 100	840	6350 / 6350	54	without battery	Standard
672201.009.1.89	L 1573, B 96, H 100	840	6350 / 6350	55	without battery	AC-Control



672143.009					
Luminous flux emergency: 2850 lm Following values are indicated in m					
h	a	b	c	d	
2,5	15,6	6,5	20,4	8,3	
3,0	17,0	7,0	21,9	8,9	
3,5	18,3	7,6	23,4	9,4	
4,0	19,5	8,0	24,6	9,9	

672143.009.1					
Luminous flux emergency: 2750 lm Following values are indicated in m					
h	a	b	c	d	
2,5	14,9	6,2	20,4	8,3	
3,0	16,3	6,7	22,0	8,9	
3,5	17,5	7,2	23,4	9,4	
4,0	18,6	7,7	24,6	9,9	

672144.009					
Luminous flux emergency: 3350 lm Following values are indicated in m					
h	a	b	c	d	
2,5	15,8	6,6	21,4	8,7	
3,0	17,3	7,2	23,1	9,4	
3,5	18,7	7,8	24,6	10,0	
4,0	19,9	8,2	25,9	10,5	

672144.009.1					
Luminous flux emergency: 3250 lm Following values are indicated in m					
h	a	b	c	d	
2,5	15,2	6,4	21,6	8,8	
3,0	16,7	6,9	23,3	9,4	
3,5	18,0	7,5	24,8	10,0	
4,0	19,2	7,9	26,2	10,5	

672145.009					
Luminous flux emergency: 4150 lm Following values are indicated in m					
h	a	b	c	d	
2,5	16,7	7,0	23,0	9,3	
3,0	18,3	7,7	24,7	10,0	
3,5	19,8	8,3	26,3	10,6	
4,0	21,2	8,8	27,7	11,2	

672145.009.1					
Luminous flux emergency: 4050 lm Following values are indicated in m					
h	a	b	c	d	
2,5	18,2	7,6	26,7	10,9	
3,0	19,9	8,4	28,8	11,7	
3,5	21,6	9,0	30,7	12,5	
4,0	23,1	9,6	32,4	13,1	





PLANOX PRO

Ceiling and wall luminaires

- Design-oriented moisture-proof luminaire
- Indirect light to illuminate the ceiling
- 1:1 replacement for fluorescent lamps
- LED rated life 50,000 h (L80/B10)
- ▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected
- Colour consistency within 3-steps MacAdam (3 SDCM)
- Housing and end caps made of shockproof polycarbonate (PC)
- Mould cast diffusers as inner prisms, UV resistant and provide homogenous light distribution
- Flexible installation through sliding mounting brackets. Ideal for luminaire replacement
- Through-wiring as standard for further luminaires (on/off: 5 x 1,5 mm²; DALI: 7 x 1,5 mm²)
- Cable installation on both sides through turn lock fastener
- Suitable for use in the food and drink industry



Further luminaires of this series, see:
Indoor lighting | Luminaires for moist/humid environments

Ceiling and wall luminaires | Planox PRO

Type of Protection: IP 66

Protection Class: II

Impact Protection: IK08

For escape route illumination

Side panels: plastic, white polycarbonate, shockproof. Diffuser: plastic (polycarbonate), opal. Converter encapsulated, integrated and permanently connected to the diffuser and side panel. Cable screw fittings for convenient wiring. Turn lock fastener on both sides for easy installation. Luminaire with integrated through-wiring for lining up further luminaires. Ceiling mounting stainless steel brackets and triangular brackets for pendant mounting included in the scope of delivery.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colour: 2 = white



Luminaires for central battery system

Voltage type: AC/DC

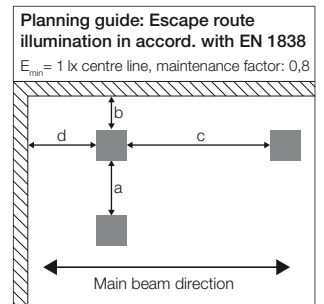
Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Monitoring
Luminaires for central battery system					
672318.002	L 750, B 88, H 63	840	2000 / 1900	14	Standard
672319.002	L 1350, B 88, H 63	840	5200 / 4900	35	Standard
672320.002	L 1650, B 88, H 63	840	7150 / 7000	48	Standard



672318.002					
Luminous flux emergency: 1900 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	14,9	6,2	17,9	7,1	
3,0	16,3	6,7	19,1	7,6	
3,5	17,5	7,2	20,2	8,0	
4,0	18,6	7,6	21,2	8,4	

672319.002					
Luminous flux emergency: 4900 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	18,9	7,9	24,1	9,7	
3,0	20,8	8,7	25,8	10,3	
3,5	22,5	9,4	27,3	10,9	
4,0	24,0	10,0	28,7	11,5	

672320.002					
Luminous flux emergency: 7000 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	20,7	8,7	26,9	10,8	
3,0	22,8	9,6	28,8	11,5	
3,5	24,6	10,3	30,5	12,2	
4,0	26,4	11,0	32,1	12,8	





FLAT POLYMERO® KREIS

Ceiling and wall luminaires

- Design continuity to the general lighting product range.
We offer an extensive range of emergency lighting and general lighting systems.
As such, we can provide our customers with integrated solutions for all areas of application, depending on their construction projects.
- Design matches modern architectural styles
- Compact design
- Easy to install
- Low maintenance costs



Further luminaires of this series, see:
Indoor lighting | Ceiling and wall luminaires - decorative
Indoor lighting | Pendant luminaires

Ceiling and wall luminaires | Flat Polymero Kreis

Type of Protection: IP 40

Protection Class: I

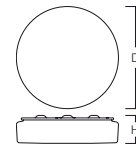
Impact Protection: IK03

For escape route illumination

Base: metal, powder-coated. Diffuser: plastic (PMMA), opal.

Diffuser fastening: patented push system.

Available colour: 2 = white



Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	[h]	Monitoring
Self-contained safety luminaires							
Diameter D 360 mm							
672478.002	D 360, H 87	830	1150 / 170	13	NiMh	3	Autotest
672478.002.04	D 360, H 87	830	1150 / 170	13	NiMh	3	MultiDigit
672478.002.07	D 360, H 87	830	1150 / 170	13	NiMh	3	DALI-Sibe
672478.002.1	D 360, H 87	840	1200 / 170	13	NiMh	3	Autotest
672478.002.1.04	D 360, H 87	840	1200 / 170	13	NiMh	3	MultiDigit
672478.002.1.07	D 360, H 87	840	1200 / 170	13	NiMh	3	DALI-Sibe
672092.002.7	D 360, H 109	830	1550 / 120	17	NiMh	3	Autotest
672092.002.7.04	D 360, H 109	830	1550 / 120	17	NiMh	3	MultiDigit
672092.002.7.07	D 360, H 109	830	1550 / 120	17	NiMh	3	DALI-Sibe
672092.002.5	D 360, H 109	840	1550 / 120	17	NiMh	3	Autotest
672092.002.5.04	D 360, H 109	840	1550 / 120	17	NiMh	3	MultiDigit
672092.002.5.07	D 360, H 109	840	1550 / 120	17	NiMh	3	DALI-Sibe
Diameter D 460 mm							
672402.002	D 460, H 93	830	1750 / 150	24	NiMh	3	Autotest
672402.002.04	D 460, H 93	830	1750 / 150	24	NiMh	3	MultiDigit
672402.002.07	D 460, H 93	830	1750 / 150	24	NiMh	3	DALI-Sibe
672402.002.1	D 460, H 93	840	1800 / 150	24	NiMh	3	Autotest
672402.002.1.04	D 460, H 93	840	1800 / 150	24	NiMh	3	MultiDigit
672402.002.1.07	D 460, H 93	840	1800 / 150	24	NiMh	3	DALI-Sibe
672093.002.7	D 460, H 95	830	2050 / 120	22	NiCd	3	Autotest
672093.002.7.04	D 460, H 95	830	2050 / 120	22	NiCd	3	MultiDigit
672093.002.7.07	D 460, H 95	830	2050 / 120	22	NiCd	3	DALI-Sibe
672093.002.5	D 460, H 95	840	2050 / 120	22	NiCd	3	Autotest
672093.002.5.04	D 460, H 95	840	2050 / 120	22	NiCd	3	MultiDigit
672093.002.5.07	D 460, H 95	840	2050 / 120	22	NiCd	3	DALI-Sibe
672435.002.7	D 460, H 93	830	2050 / 80	20	NiMh	8	Autotest
672435.002.7.04	D 460, H 93	830	2050 / 80	20	NiMh	8	MultiDigit
672435.002.7.07	D 460, H 93	830	2050 / 80	20	NiMh	8	DALI-Sibe
672435.002.5	D 460, H 93	840	2050 / 80	20	NiMh	8	Autotest
672435.002.5.04	D 460, H 93	840	2050 / 80	20	NiMh	8	MultiDigit
672435.002.5.07	D 460, H 93	840	2050 / 80	20	NiMh	8	DALI-Sibe
with integrated movement sensor							
672093.002.7.19	D 460, H 95	830	2050 / 120	22	NiCd	3	Autotest
672093.002.5.19	D 460, H 95	840	2050 / 120	22	NiCd	3	Autotest
672435.002.7.19	D 460, H 93	830	2050 / 80	20	NiMh	8	Autotest
672435.002.5.19	D 460, H 93	840	2050 / 80	20	NiMh	8	Autotest
Diameter D 515 mm							
672387.002	D 515, H 98	830	2600 / 250	27	NiMh	3	Autotest
672387.002.04	D 515, H 98	830	2600 / 250	27	NiMh	3	MultiDigit
672387.002.07	D 515, H 98	830	2600 / 250	27	NiMh	3	DALI-Sibe
672387.002.1	D 515, H 98	840	2900 / 270	27	NiMh	3	Autotest
672387.002.1.04	D 515, H 98	840	2900 / 270	27	NiMh	3	MultiDigit
672387.002.1.07	D 515, H 98	840	2900 / 270	27	NiMh	3	DALI-Sibe

Replacement diffusers			Price Category 13				
08-311595.002	D 360, H 81	Plastic (PMMA)					
08-311600.002	D 460, H 88	Plastic (PMMA)					
08-311604.002	D 515, H 93	Plastic (PMMA)					





Ceiling and wall luminaires | Flat Polymero Kreis

Type of Protection: IP 40

Protection Class: I

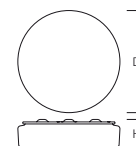
Impact Protection: IK03

For escape route illumination

Base: metal, powder-coated. Diffuser: plastic (PMMA), opal.

Diffuser fastening: patented push system.

Available colour: 2 = white



Luminaires for central battery system

Voltage type: AC/DC



Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring
Luminaires for central battery system						
Diameter D 300 mm						
672398.002	D 300, H 80	830	1150 / 310	13	without battery	Standard
672398.002.88	D 300, H 80	830	1150 / 310	14	without battery	MOM
672398.002.89	D 300, H 80	830	1150 / 310	14	without battery	AC-Control
672398.002.1	D 300, H 80	840	1250 / 330	13	without battery	Standard
672398.002.1.88	D 300, H 80	840	1250 / 330	14	without battery	MOM
672398.002.1.89	D 300, H 80	840	1250 / 330	14	without battery	AC-Control
672399.002.7	D 300, H 80	830	1500 / 1450	14	without battery	Standard
672399.002.7.88	D 300, H 80	830	1450 / 1450	15	without battery	MOM
672399.002.7.89	D 300, H 80	830	1500 / 1450	15	without battery	AC-Control
672399.002.5	D 300, H 80	840	1500 / 1450	14	without battery	Standard
672399.002.5.88	D 300, H 80	840	1450 / 1450	15	without battery	MOM
672399.002.5.89	D 300, H 80	840	1500 / 1450	15	without battery	AC-Control
Diameter D 360 mm						
672389.002	D 360, H 87	830	1200 / 250	14	without battery	Standard
672389.002.88	D 360, H 87	830	1250 / 250	15	without battery	MOM
672389.002.89	D 360, H 87	830	1250 / 250	15	without battery	AC-Control
672389.002.1	D 360, H 87	840	1250 / 250	14	without battery	Standard
672389.002.1.88	D 360, H 87	840	1250 / 250	15	without battery	MOM
672389.002.1.89	D 360, H 87	840	1250 / 250	15	without battery	AC-Control
672308.002	D 360, H 87	830	1750 / 450	22	without battery	Standard
672308.002.88	D 360, H 87	830	1750 / 450	23	without battery	MOM
672308.002.89	D 360, H 87	830	1750 / 450	23	without battery	AC-Control
672308.002.1	D 360, H 87	840	1800 / 470	22	without battery	Standard
672308.002.1.88	D 360, H 87	840	1800 / 470	23	without battery	MOM
672308.002.1.89	D 360, H 87	840	1800 / 470	23	without battery	AC-Control
672344.002.7	D 360, H 87	830	1600 / 1600	14	without battery	Standard
672344.002.7.88	D 360, H 87	830	1600 / 1600	15	without battery	MOM
672344.002.7.89	D 360, H 87	830	1600 / 1600	15	without battery	AC-Control
672344.002.5	D 360, H 87	840	1600 / 1600	14	without battery	Standard
672344.002.5.88	D 360, H 87	840	1600 / 1600	15	without battery	MOM
672344.002.5.89	D 360, H 87	840	1600 / 1600	15	without battery	AC-Control
Diameter D 460 mm						
672396.002	D 460, H 93	830	1850 / 460	21	without battery	Standard
672396.002.88	D 460, H 93	830	1850 / 460	22	without battery	MOM
672396.002.89	D 460, H 93	830	1850 / 460	22	without battery	AC-Control
672396.002.1	D 460, H 93	840	2100 / 490	21	without battery	Standard
672396.002.1.88	D 460, H 93	840	2000 / 490	22	without battery	MOM
672396.002.1.89	D 460, H 93	840	2100 / 490	22	without battery	AC-Control
672397.002	D 460, H 93	830	2700 / 720	29	without battery	Standard
672397.002.88	D 460, H 93	830	2700 / 720	30	without battery	MOM
672397.002.89	D 460, H 93	830	2700 / 720	30	without battery	AC-Control
672397.002.1	D 460, H 93	840	2800 / 750	29	without battery	Standard
672397.002.1.88	D 460, H 93	840	2800 / 750	30	without battery	MOM
672397.002.1.89	D 460, H 93	840	2800 / 750	30	without battery	AC-Control
672343.002.7	D 460, H 93	830	2100 / 2100	19	without battery	Standard
672343.002.7.88	D 460, H 93	830	2100 / 2100	20	without battery	MOM
672343.002.7.89	D 460, H 93	830	2100 / 2100	20	without battery	AC-Control
672343.002.5	D 460, H 93	840	2100 / 2100	19	without battery	Standard
672343.002.5.88	D 460, H 93	840	2100 / 2050	20	without battery	MOM
672343.002.5.89	D 460, H 93	840	2100 / 2100	20	without battery	AC-Control
Diameter D 515 mm						
672392.002	D 515, H 98	830	2500 / 520	23	without battery	Standard
672392.002.88	D 515, H 98	830	2550 / 520	25	without battery	MOM
672392.002.89	D 515, H 98	830	2500 / 520	25	without battery	AC-Control
672392.002.1	D 515, H 98	840	2600 / 550	23	without battery	Standard
672392.002.1.88	D 515, H 98	840	2650 / 550	25	without battery	MOM
672392.002.1.89	D 515, H 98	840	2600 / 550	25	without battery	AC-Control

Replacement diffusers

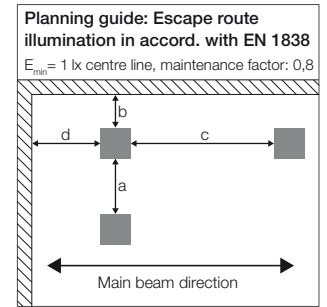
Price Category 13

08-311616.002	D 300, H 75	Plastic (PMMA)
08-311595.002	D 360, H 81	Plastic (PMMA)
08-311600.002	D 460, H 88	Plastic (PMMA)
08-311604.002	D 515, H 93	Plastic (PMMA)

672092.002.5					
Luminous flux emergency: 120 lm Following values are indicated in m					
h	a	b	c	d	
2,5	6,7	2,4	6,7	2,4	
3,0	6,9	2,3	6,9	2,3	
3,5	6,9	2,2	6,9	2,2	
4,0	6,8	1,8	6,8	1,8	

672093.002.5					
Luminous flux emergency: 120 lm Following values are indicated in m					
h	a	b	c	d	
2,5	6,9	2,5	6,9	2,5	
3,0	7,1	2,5	7,1	2,5	
3,5	7,3	2,4	7,3	2,4	
4,0	7,2	2,1	7,2	2,1	

672093.002.5.19					
Luminous flux emergency: 120 lm Following values are indicated in m					
h	a	b	c	d	
2,5	6,2	2,3	6,2	2,3	
3,0	6,4	2,2	6,4	2,2	
3,5	6,5	2,0	6,5	2,0	
4,0	6,4	1,6	6,4	1,6	



672308.002					
Luminous flux emergency: 450 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,6	4,2	10,6	4,2	
3,0	11,3	4,4	11,3	4,4	
3,5	11,8	4,5	11,8	4,5	
4,0	12,3	4,6	12,3	4,6	

672308.002.1					
Luminous flux emergency: 470 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,7	4,2	10,7	4,2	
3,0	11,4	4,5	11,4	4,5	
3,5	12,0	4,6	12,0	4,6	
4,0	12,5	4,7	12,5	4,7	

672343.002.5					
Luminous flux emergency: 2100 lm Following values are indicated in m					
h	a	b	c	d	
2,5	16,8	6,8	16,8	6,8	
3,0	18,1	7,4	18,1	7,4	
3,5	19,4	7,9	19,4	7,9	
4,0	20,5	8,3	20,5	8,3	

672344.002.5					
Luminous flux emergency: 1600 lm Following values are indicated in m					
h	a	b	c	d	
2,5	15,5	6,3	15,5	6,3	
3,0	16,8	6,8	16,8	6,8	
3,5	17,9	7,2	17,9	7,2	
4,0	18,8	7,5	18,8	7,5	

672387.002					
Luminous flux emergency: 250 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,8	3,4	8,8	3,4	
3,0	9,3	3,5	9,3	3,5	
3,5	9,7	3,5	9,7	3,5	
4,0	9,9	3,5	9,9	3,5	

672387.002.1					
Luminous flux emergency: 270 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,0	3,5	9,0	3,5	
3,0	9,5	3,6	9,5	3,6	
3,5	9,9	3,7	9,9	3,7	
4,0	10,2	3,7	10,2	3,7	

672389.002					
Luminous flux emergency: 250 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,8	3,4	8,8	3,4	
3,0	9,3	3,5	9,3	3,5	
3,5	9,7	3,5	9,7	3,5	
4,0	9,9	3,5	9,9	3,5	

672392.002					
Luminous flux emergency: 520 lm Following values are indicated in m					
h	a	b	c	d	
2,5	11,3	4,5	10,8	4,3	
3,0	12,1	4,7	11,5	4,5	
3,5	12,7	4,9	12,2	4,7	
4,0	13,2	5,0	12,7	4,9	

672396.002					
Luminous flux emergency: 460 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,7	4,2	10,7	4,2	
3,0	11,4	4,4	11,4	4,4	
3,5	11,9	4,6	11,9	4,6	
4,0	12,4	4,7	12,4	4,7	

672396.002.1					
Luminous flux emergency: 490 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,9	4,3	10,9	4,3	
3,0	11,6	4,5	11,6	4,5	
3,5	12,2	4,7	12,2	4,7	
4,0	12,7	4,8	12,7	4,8	

672397.002					
Luminous flux emergency: 720 lm Following values are indicated in m					
h	a	b	c	d	
2,5	12,3	4,9	12,3	4,9	
3,0	13,2	5,2	13,2	5,2	
3,5	13,9	5,5	13,9	5,5	
4,0	14,6	5,7	14,6	5,7	

672398.002					
Luminous flux emergency: 310 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,4	3,6	9,4	3,6	
3,0	9,9	3,8	9,9	3,8	
3,5	10,3	3,8	10,3	3,8	
4,0	10,6	3,8	10,6	3,8	

672398.002.1.89					
Luminous flux emergency: 330 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,6	3,7	9,6	3,7	
3,0	10,2	3,9	10,2	3,9	
3,5	10,6	4,0	10,6	4,0	
4,0	11,0	4,0	11,0	4,0	

672399.002.5					
Luminous flux emergency: 1450 lm Following values are indicated in m					
h	a	b	c	d	
2,5	15,1	6,1	15,1	6,1	
3,0	16,3	6,5	16,3	6,5	
3,5	17,3	6,9	17,3	6,9	
4,0	18,2	7,2	18,2	7,2	

672402.002					
Luminous flux emergency: 150 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,3	2,7	7,3	2,7	
3,0	7,6	2,7	7,6	2,7	
3,5	7,8	2,6	7,8	2,6	
4,0	7,8	2,4	7,8	2,4	

672435.002.5					
Luminous flux emergency: 80 lm Following values are indicated in m					
h	a	b	c	d	
2,5	5,9	2,1	5,9	2,1	
3,0	6,0	1,9	6,0	1,9	
3,5	5,9	1,6	5,9	1,6	
4,0	5,7	1,0	5,7	1,0	

672435.002.5.19					
Luminous flux emergency: 80 lm Following values are indicated in m					
h	a	b	c	d	
2,5	5,9	2,1	5,9	2,1	
3,0	6,0	1,9	6,0	1,9	
3,5	5,9	1,6	5,9	1,6	
4,0	5,7	1,0	5,7	1,0	

672478.002					
Luminous flux emergency: 170 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,7	2,9	7,7	2,9	
3,0	8,1	3,0	8,1	3,0	
3,5	8,3	2,9	8,3	2,9	
4,0	8,4	2,8	8,4	2,8	



FLAT POLYMERO®

Ceiling and wall luminaires

- Design continuity to the general lighting product range.
We offer an extensive range of emergency lighting and general lighting systems.
As such, we can provide our customers with integrated solutions for all areas of application, depending on their construction projects.
- LED rated life 50,000 h
- Design matches modern architectural styles
- Easy to install
- Low maintenance costs



Further luminaires of this series, see:
Indoor lighting | Ceiling and wall luminaires - decorative
Indoor lighting | Pendant luminaires

Ceiling and wall luminaires | Flat Polymero

Type of Protection: IP 40

Protection Class: I

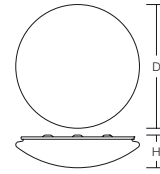
Impact Protection: IK03

For escape route illumination

Base: metal, powder-coated. Diffuser: plastic (PMMA), opal.

Diffuser fastening: patented push system.

Available colour: 2 = white




Self-contained safety luminaires

Voltage type: AC

Automatic self test in all standard versions.

Operating mode: Can either be connected in non-maintained power mode (BS) or in maintained power mode (DS).

Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	 [h]	Monitoring
Self-contained safety luminaires							Price Category 23
Diameter D 360 mm							
672479.002.1	D 360, H 100	830	1100 / 150	14	NiMh	3	Autotest
672479.002.1.04	D 360, H 100	830	1100 / 150	14	NiMh	3	MultiDigit
672479.002.1.07	D 360, H 100	830	1100 / 150	14	NiMh	3	DALI-Sibe
672479.002.3	D 360, H 100	840	1150 / 150	13	NiMh	3	Autotest
672479.002.3.04	D 360, H 100	840	1150 / 150	13	NiMh	3	MultiDigit
672479.002.3.07	D 360, H 100	840	1150 / 150	13	NiMh	3	DALI-Sibe
672058.002.7	D 360, H 116	830	1400 / 130	17	NiMh	3	Autotest
672058.002.7.04	D 360, H 116	830	1400 / 130	17	NiMh	3	MultiDigit
672058.002.7.07	D 360, H 116	830	1400 / 130	17	NiMh	3	DALI-Sibe
672058.002.5	D 360, H 116	840	1400 / 130	17	NiMh	3	Autotest
672058.002.5.04	D 360, H 116	840	1400 / 130	17	NiMh	3	MultiDigit
672058.002.5.07	D 360, H 116	840	1400 / 130	17	NiMh	3	DALI-Sibe
with integrated movement sensor							
672134.002.7.19	D 360, H 116	830	1400 / 120	17	NiMh	3	Autotest
672134.002.5.19	D 360, H 116	840	1400 / 120	17	NiMh	3	Autotest
Diameter D 460 mm							
672401.002	D 460, H 120	830	1800 / 150	24	NiMh	3	Autotest
672401.002.04	D 460, H 120	830	1800 / 150	24	NiMh	3	MultiDigit
672401.002.07	D 460, H 120	830	1800 / 150	24	NiMh	3	DALI-Sibe
672401.002.1	D 460, H 120	840	1850 / 150	24	NiMh	3	Autotest
672401.002.1.04	D 460, H 120	840	1850 / 150	24	NiMh	3	MultiDigit
672401.002.1.07	D 460, H 120	840	1850 / 150	24	NiMh	3	DALI-Sibe
672059.002.7	D 460, H 120	830	2100 / 100	22	NiCd	3	Autotest
672059.002.7.04	D 460, H 120	830	2100 / 100	22	NiCd	3	MultiDigit
672059.002.7.07	D 460, H 120	830	2100 / 100	22	NiCd	3	DALI-Sibe
672059.002.5	D 460, H 120	840	2100 / 100	22	NiCd	3	Autotest
672059.002.5.04	D 460, H 120	840	2100 / 100	22	NiCd	3	MultiDigit
672059.002.5.07	D 460, H 120	840	2100 / 100	22	NiCd	3	DALI-Sibe
672133.002.7	D 460, H 120	830	2050 / 100	22	NiMh	8	Autotest
672133.002.7.07	D 460, H 120	830	2050 / 100	22	NiMh	8	DALI-Sibe
672133.002.5	D 460, H 120	840	2050 / 100	22	NiMh	8	Autotest
672133.002.5.07	D 460, H 120	840	2050 / 100	22	NiMh	8	DALI-Sibe
with integrated movement sensor							
672059.002.7.19	D 460, H 120	830	2100 / 100	22	NiCd	3	Autotest
672059.002.5.19	D 460, H 120	840	2100 / 100	22	NiCd	3	Autotest
672133.002.7.19	D 460, H 120	830	2100 / 100	22	NiMh	8	Autotest
672133.002.5.19	D 460, H 120	840	2100 / 100	22	NiMh	8	Autotest
Diameter D 515 mm							
672386.002	D 515, H 150	830	2600 / 280	27	NiMh	3	Autotest
672386.002.04	D 515, H 150	830	2600 / 280	27	NiMh	3	MultiDigit
672386.002.07	D 515, H 150	830	2600 / 280	27	NiMh	3	DALI-Sibe
672386.002.1	D 515, H 150	840	2900 / 280	27	NiMh	3	Autotest
672386.002.1.04	D 515, H 150	840	2900 / 280	27	NiMh	3	MultiDigit
672386.002.1.07	D 515, H 150	840	2900 / 280	27	NiMh	3	DALI-Sibe
Diameter D 620 mm							
672260.002	D 620, H 160	830	3950 / 390	41	NiMh	3	Autotest
672260.002.04	D 620, H 160	830	3950 / 390	41	NiMh	3	MultiDigit
672260.002.07	D 620, H 160	830	3950 / 390	41	NiMh	3	DALI-Sibe
672260.002.1	D 620, H 160	840	3950 / 390	41	NiMh	3	Autotest
672260.002.1.04	D 620, H 160	840	3950 / 390	41	NiMh	3	MultiDigit
672260.002.1.07	D 620, H 160	840	3950 / 390	41	NiMh	3	DALI-Sibe
672261.002	D 620, H 160	830	3950 / 100	41	NiMh	8	Autotest
672261.002.04	D 620, H 160	830	3950 / 100	41	NiMh	8	MultiDigit
672261.002.07	D 620, H 160	830	3950 / 100	41	NiMh	8	DALI-Sibe
672261.002.1	D 620, H 160	840	3950 / 100	41	NiMh	8	Autotest
672261.002.1.04	D 620, H 160	840	3950 / 100	41	NiMh	8	MultiDigit
672261.002.1.07	D 620, H 160	840	3950 / 100	41	NiMh	8	DALI-Sibe

Replacement diffusers

Price Category 13

08-311161.012	D 360, H 88	Plastic (PMMA)
08-311165.012	D 460, H 113	Plastic (PMMA)
08-311170.012	D 515, H 137	Plastic (PMMA)
08-311173.012	D 620, H 150	Plastic (PMMA)



Ceiling and wall luminaires | Flat Polymero

Type of Protection: IP 40

Protection Class: I

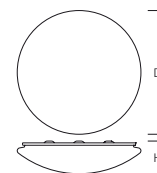
Impact Protection: IK03

For escape route illumination

Base: metal, powder-coated. Diffuser: plastic (PMMA), opal.

Diffuser fastening: patented push system.

Available colour: 2 = white



Luminaires for central battery system

Voltage type: AC/DC



Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring
Luminaires for central battery system						
Diameter D 360 mm						
672335.002.1.Q	D 360, H 100	830	1100 / 250	13	without battery	Standard
672335.002.1.88	D 360, H 100	830	1100 / 250	14	without battery	MOM
672335.002.1.89	D 360, H 100	830	1100 / 250	14	without battery	AC-Control
672335.002.3	D 360, H 100	840	1150 / 250	13	without battery	Standard
672335.002.3.88	D 360, H 100	840	1150 / 250	14	without battery	MOM
672335.002.3.89	D 360, H 100	840	1150 / 250	14	without battery	AC-Control
672381.002.1	D 360, H 100	830	1700 / 440	21	without battery	Standard
672381.002.1.88	D 360, H 100	830	1700 / 440	22	without battery	MOM
672381.002.1.89	D 360, H 100	830	1700 / 440	22	without battery	AC-Control
672381.002.3	D 360, H 100	840	1700 / 450	21	without battery	Standard
672381.002.3.88	D 360, H 100	840	1700 / 450	22	without battery	MOM
672381.002.3.89	D 360, H 100	840	1700 / 450	22	without battery	AC-Control
672056.002.7	D 360, H 100	830	1450 / 1450	14	without battery	Standard
672056.002.7.88	D 360, H 100	830	1400 / 1450	15	without battery	MOM
672056.002.7.89	D 360, H 100	830	1450 / 1450	15	without battery	AC-Control
672056.002.5	D 360, H 100	840	1450 / 1450	14	without battery	Standard
672056.002.5.88	D 360, H 100	840	1400 / 1450	15	without battery	MOM
672056.002.5.89	D 360, H 100	840	1450 / 1400	15	without battery	AC-Control
Diameter D 460 mm						
672395.002	D 460, H 120	830	1950 / 470	21	without battery	Standard
672395.002.88	D 460, H 120	830	1900 / 470	21	without battery	MOM
672395.002.89	D 460, H 120	830	1950 / 470	21	without battery	AC-Control
672395.002.1	D 460, H 120	840	2050 / 510	21	without battery	Standard
672395.002.1.88	D 460, H 120	840	2000 / 510	21	without battery	MOM
672395.002.1.89	D 460, H 120	840	2050 / 510	21	without battery	AC-Control
672421.002	D 460, H 120	830	2700 / 720	29	without battery	Standard
672421.002.88	D 460, H 120	830	2700 / 720	29	without battery	MOM
672421.002.89	D 460, H 120	830	2700 / 720	29	without battery	AC-Control
672421.002.1	D 460, H 120	840	2700 / 750	29	without battery	Standard
672421.002.1.88	D 460, H 120	840	2700 / 750	29	without battery	MOM
672421.002.1.89	D 460, H 120	840	2700 / 750	29	without battery	AC-Control
672057.002.7	D 460, H 120	830	2100 / 2100	19	without battery	Standard
672057.002.7.88	D 460, H 120	830	2050 / 2100	20	without battery	MOM
672057.002.7.89	D 460, H 120	830	2050 / 2100	20	without battery	AC-Control
672057.002.5	D 460, H 120	840	2100 / 2100	19	without battery	Standard
672057.002.5.88	D 460, H 120	840	2050 / 2100	20	without battery	MOM
672057.002.5.89	D 460, H 120	840	2050 / 2100	20	without battery	AC-Control
Diameter D 515 mm						
672388.002	D 515, H 150	830	2500 / 510	24	without battery	Standard
672388.002.88	D 515, H 150	830	2500 / 510	23	without battery	MOM
672388.002.89	D 515, H 150	830	2500 / 510	24	without battery	AC-Control
672388.002.1	D 515, H 150	840	2600 / 530	24	without battery	Standard
672388.002.1.88	D 515, H 150	840	2600 / 530	23	without battery	MOM
672388.002.1.89	D 515, H 150	840	2600 / 530	24	without battery	AC-Control
Diameter D 620 mm						
672262.002	D 620, H 160	830	3650 / 460	38	without battery	Standard
672262.002.88	D 620, H 160	830	3650 / 460	39	without battery	MOM
672262.002.89	D 620, H 160	830	3650 / 460	39	without battery	AC-Control
672262.002.1	D 620, H 160	840	3900 / 490	38	without battery	Standard
672262.002.1.88	D 620, H 160	840	3900 / 490	39	without battery	MOM
672262.002.1.89	D 620, H 160	840	4050 / 490	39	without battery	AC-Control

Replacement diffusers

Price Category 13

08-311161.012	D 360, H 88	Plastic (PMMA)
08-311165.012	D 460, H 113	Plastic (PMMA)
08-311170.012	D 515, H 137	Plastic (PMMA)
08-311173.012	D 620, H 150	Plastic (PMMA)

672056.002.5					
Luminous flux emergency: 1450 lm Following values are indicated in m					
h	a	b	c	d	
2,5	15,1	6,1	15,1	6,1	
3,0	16,2	6,5	16,2	6,5	
3,5	17,2	6,9	17,2	6,9	
4,0	18,2	7,3	18,2	7,3	

672057.002.5					
Luminous flux emergency: 2100 lm Following values are indicated in m					
h	a	b	c	d	
2,5	16,9	6,9	16,9	6,9	
3,0	18,2	7,4	18,2	7,4	
3,5	19,4	7,8	19,4	7,8	
4,0	20,5	8,3	20,5	8,3	

672058.002.5					
Luminous flux emergency: 130 lm Following values are indicated in m					
h	a	b	c	d	
2,5	6,9	2,6	6,9	2,6	
3,0	7,2	2,6	7,2	2,6	
3,5	7,4	2,5	7,4	2,5	
4,0	7,4	2,2	7,4	2,2	

672059.002.5					
Luminous flux emergency: 100 lm Following values are indicated in m					
h	a	b	c	d	
2,5	6,3	2,3	6,3	2,3	
3,0	6,5	2,2	6,5	2,2	
3,5	6,5	2,0	6,5	2,0	
4,0	6,4	1,7	6,4	1,7	

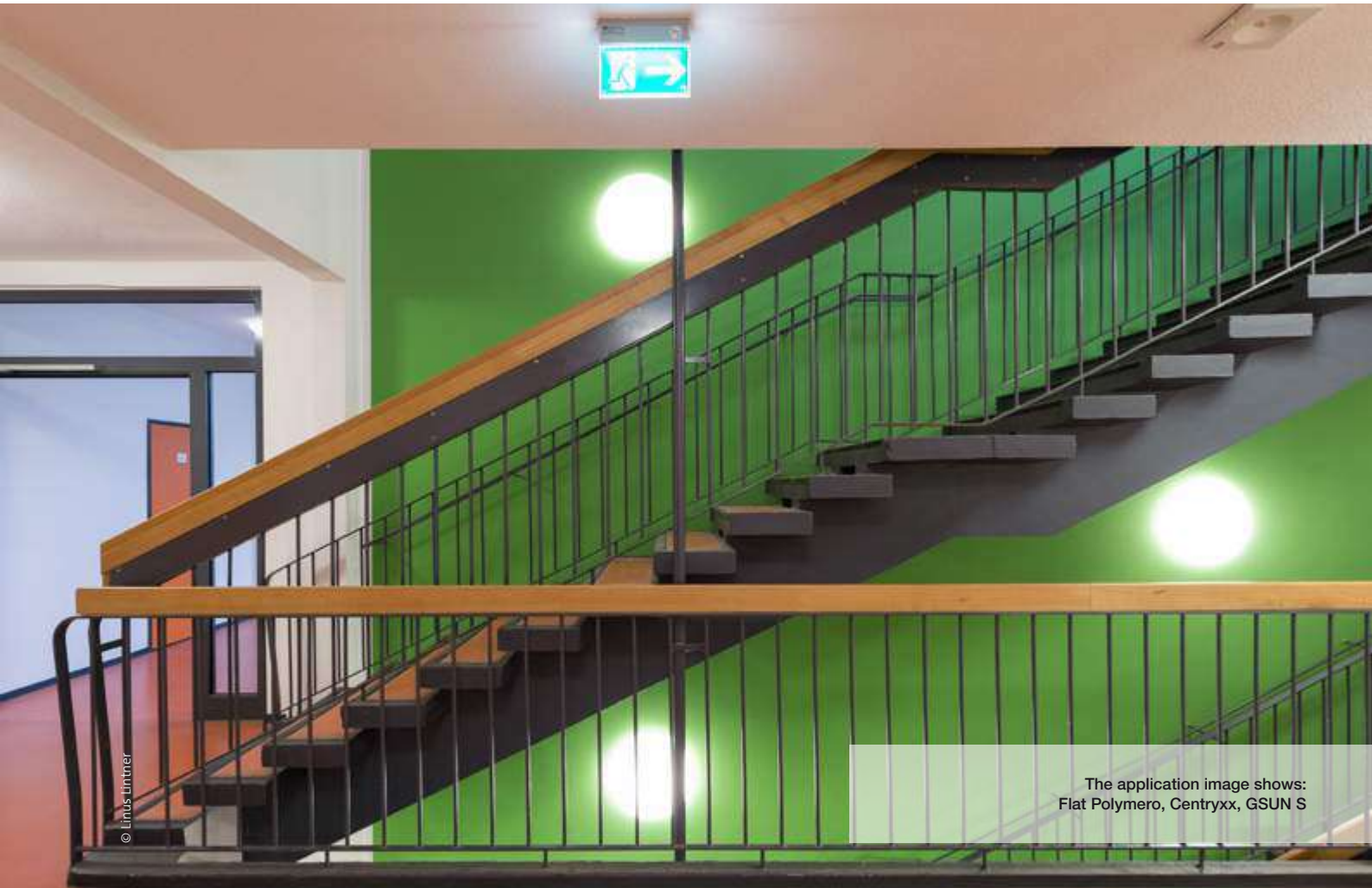
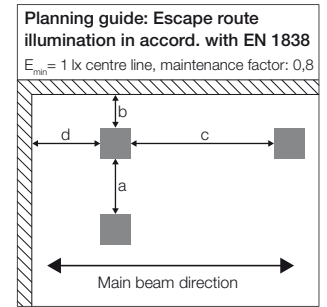
672260.002					
Luminous flux emergency: 390 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,1	4,0	10,1	4,0	
3,0	10,8	4,2	10,8	4,2	
3,5	11,4	4,4	11,4	4,4	
4,0	11,8	4,5	11,8	4,5	

672261.002					
Luminous flux emergency: 100 lm Following values are indicated in m					
h	a	b	c	d	
2,5	6,3	2,3	6,3	2,3	
3,0	6,5	2,2	6,5	2,2	
3,5	6,5	2,0	6,5	2,0	
4,0	6,4	1,6	6,4	1,6	

672335.002.1					
Luminous flux emergency: 290 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,8	3,4	8,8	3,4	
3,0	9,3	3,6	9,3	3,6	
3,5	9,7	3,6	9,7	3,6	
4,0	10,1	3,6	10,1	3,6	

672386.002					
Luminous flux emergency: 280 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,1	3,5	9,1	3,5	
3,0	9,6	3,7	9,6	3,7	
3,5	10,0	3,8	10,0	3,8	
4,0	10,4	3,8	10,4	3,8	

672401.002					
Luminous flux emergency: 150 lm Following values are indicated in m					
h	a	b	c	d	
2,5	7,4	2,8	7,4	2,8	
3,0	7,7	2,8	7,7	2,8	
3,5	7,9	2,7	7,9	2,7	
4,0	8,0	2,6	8,0	2,6	



The application image shows:
Flat Polymero, Centryxx, GSUN S



CADERO®

Ceiling and wall luminaires

- The flat design provides universal applicability with circular or square glass cover option
- Smart, cost-effective LED modules for mains voltage with high LED luminous efficiency for energy-saving operation
- Durability by using high-quality materials like aluminium and crystal glass as well as long-lasting powder-coating
- Seawater resistant coating
- Quick installation:
 - Drill hole deviations can be compensated
 - Generous space for displacing cables allows the wall outlet even in the luminaire centre
 - Electrical connection via piano key terminal
 - Diffuser retained in cover
- Second cable inlet for loop through
- The high type of protection IP 65 enables maintenance-free, plain LED operation



Further luminaires of this series, see:
Outdoor lighting | Ceiling and wall luminaires

Ceiling and wall luminaires | Cadero Disca

Type of Protection: IP 65

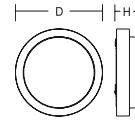
Protection Class: I

Impact Protection: IK07

For escape route illumination

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Clear crystal glass, painted inside, with fixing device. Screwless cover fixing via bayonet lock with safety catch. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to prevent condensed water. With mains voltage LED module.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Luminaires for central battery system

Voltage type: AC/DC

Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring
Luminaires for central battery system						Price Category 24
672289.00X	D 276, H 66	830	710 / 190	13	without battery	Standard
672289.00X.88	D 276, H 66	830	710 / 190	14	without battery	MOM
672289.00X.89	D 276, H 66	830	710 / 190	14	without battery	AC-Control
672289.00X.1	D 276, H 66	840	740 / 190	13	without battery	Standard
672289.00X.1.88	D 276, H 66	840	740 / 190	14	without battery	MOM
672289.00X.1.89	D 276, H 66	840	740 / 190	14	without battery	AC-Control

Replacement glasses						Price Category 13
981211.002	D 245, H 32					



Ceiling and wall luminaires | Cadero Quadra

Type of Protection: IP 65

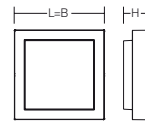
Protection Class: I

Impact Protection: IK05

For escape route illumination

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Clear crystal glass, painted inside, with fixing device. Simple mounting spring system for installation without tools. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to prevent condensed water. With mains voltage LED module.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Luminaires for central battery system

Voltage type: AC/DC

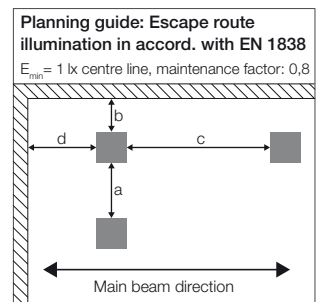
Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring
Luminaires for central battery system						Price Category 24
672295.00X	L 257, B 257, H 81	830	630 / 160	13	without battery	Standard
672295.00X.1	L 257, B 257, H 81	840	660 / 160	13	without battery	Standard

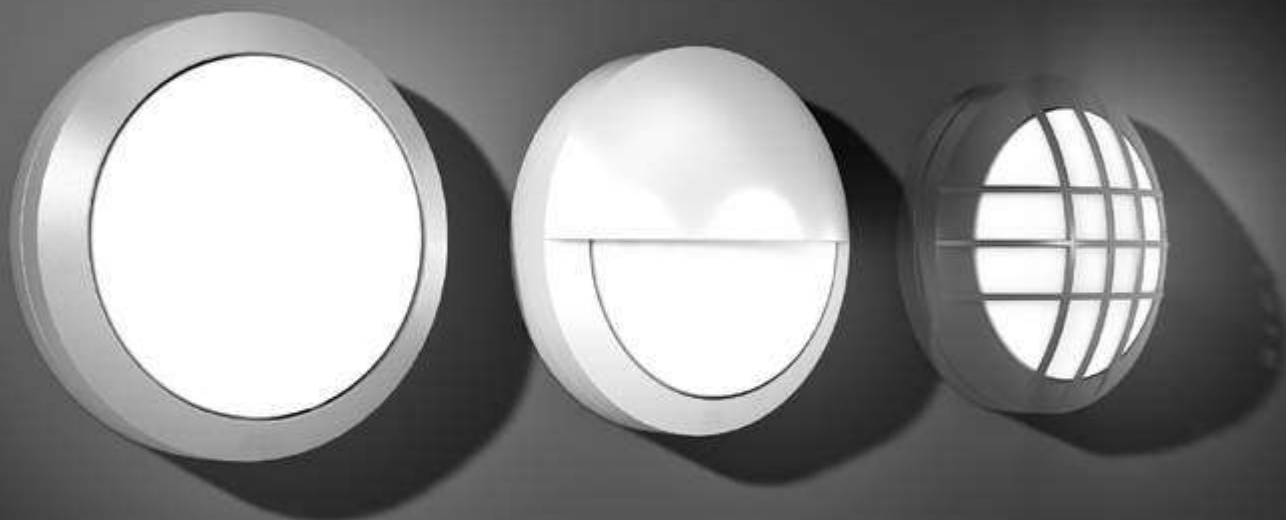
Replacement glasses						Price Category 13
981210.002	L 232, B 232, H 35					



672289.00X					
Luminous flux emergency: 190 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	8,5	3,3	8,5	3,3	
3,0	8,9	3,4	8,9	3,4	
3,5	9,3	3,4	9,3	3,4	
4,0	9,5	3,3	9,5	3,3	

672295.00X					
Luminous flux emergency: 160 lm					
Following values are indicated in m					
h	a	b	c	d	
2,5	7,9	3,0	7,9	3,0	
3,0	8,2	3,0	8,2	3,0	
3,5	8,5	2,9	8,5	2,9	
4,0	8,6	2,8	8,6	2,8	

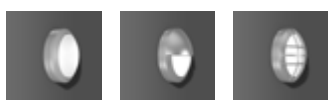




ROUNDED®

Ceiling and wall luminaires, Wall luminaires

- Elegant appearance without visible screws featuring bayonet lock and safety catch for theft protection
- Sturdy housing made of corrosion resistant pressure die cast aluminium, powder coated, with stainless steel screws
- Longevity by use of corrosion-resistant aluminium alloy, glass or PC diffuser
- Seawater resistant coating
- Fixing points outside the gasketed area guarantee a safe mounting quality by consequently preventing mistakes
- Quick installation:
 - Drill hole deviations can be compensated
 - Generous space for displacing cables allows the wall outlet even in the luminaire centre
 - Electrical connection via piano key terminal
 - Diffuser retained in cover
- Second cable inlet for loop through



Further luminaires of this series, see:
 Outdoor lighting | Ceiling and wall luminaires
 Outdoor lighting | Wall luminaires

Ceiling and wall luminaires | Rounded Midi

Type of Protection: **IP 66**

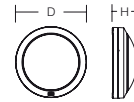
Protection Class: I

Impact Protection: IK08 (Glass), IK10 (polycarbonate)

For escape route illumination

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Diffuser: crystal glass (satin finish) or opal plastic (polycarbonate); with diffuser fixing. Screwless cover fixing via bayonet lock with safety catch. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to prevent condensed water.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Luminaires for central battery system

Voltage type: AC/DC

Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring
Luminaires for central battery system						Price Category 24
Glass						
672313.00X	D 268, H 91	840	400 / 400	7,4	without battery	Standard
672313.00X.88	D 268, H 91	840	400 / 400	8,4	without battery	MOM
672313.00X.89	D 268, H 91	840	400 / 400	8,4	without battery	AC-Control
Plastic (polycarbonate)						
672284.00X	D 268, H 91	840	390 / 390	7,4	without battery	Standard
672284.00X.88	D 268, H 91	840	390 / 390	8,4	without battery	MOM
672284.00X.89	D 268, H 91	840	390 / 390	8,4	without battery	AC-Control



Theft protection

982410.003	L 13, B 11, H 16	Price Category 12
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672284.00X					
Luminous flux emergency: 390 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,4	4,1	10,4	4,1	
3,0	11,1	4,4	11,1	4,4	
3,5	11,8	4,6	11,8	4,6	
4,0	12,3	4,7	12,3	4,7	

672285.00X					
Luminous flux emergency: 360 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,1	4,0	10,1	4,0	
3,0	10,8	4,2	10,8	4,2	
3,5	11,3	4,4	11,3	4,4	
4,0	11,8	4,5	11,8	4,5	

672297.00X					
Luminous flux emergency: 270 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,3	3,6	9,3	3,6	
3,0	9,9	3,8	9,9	3,8	
3,5	10,4	3,9	10,4	3,9	
4,0	10,8	4,0	10,8	4,0	

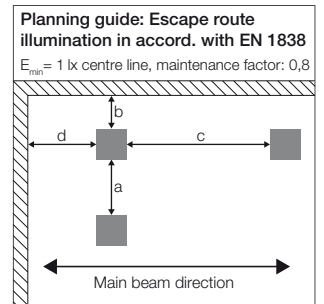
672297.00X.1					
Luminous flux emergency: 280 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,4	3,7	9,4	3,7	
3,0	10,0	3,9	10,0	3,9	
3,5	10,5	4,0	10,5	4,0	
4,0	10,9	4,0	10,9	4,0	

672298.00X					
Luminous flux emergency: 220 lm Following values are indicated in m					
h	a	b	c	d	
2,5	8,6	3,4	8,6	3,4	
3,0	9,2	3,5	9,2	3,5	
3,5	9,6	3,6	9,6	3,6	
4,0	9,9	3,6	9,9	3,6	

672301.00X					
Luminous flux emergency: 230 lm Following values are indicated in m					
h	a	b	c	d	
2,5	5,8	2,0	5,8	4,6	
3,0	5,8	1,8	6,0	4,6	
3,5	5,6	1,3	6,0	4,6	
4,0	5,2	0,0	5,9	4,4	

672313.00X					
Luminous flux emergency: 400 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,5	4,2	10,5	4,2	
3,0	11,3	4,4	11,3	4,4	
3,5	11,9	4,6	11,9	4,6	
4,0	12,4	4,7	12,4	4,7	

672314.00X					
Luminous flux emergency: 390 lm Following values are indicated in m					
h	a	b	c	d	
2,5	10,3	4,1	10,3	4,1	
3,0	11,0	4,3	11,0	4,3	
3,5	11,6	4,5	11,6	4,5	
4,0	12,1	4,6	12,1	4,6	





Ceiling and wall luminaires | Rounded Midi

Type of Protection: **IP 66**

Protection Class: I

Impact Protection: IK08 (Glass), IK10 (polycarbonate)

For escape route illumination

Base, housing and protective guard made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Diffuser: crystal glass (satin finish) or opal plastic (polycarbonate); with diffuser fixing. Screwless cover fixing via bayonet lock with safety catch. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to prevent condensed water.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Luminaires for central battery system

Voltage type: AC/DC



Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring
Luminaires for central battery system						Price Category 24
Glass						
672314.00X	D 268, H 100	840	390 / 390	7,4	without battery	Standard
672314.00X.88	D 268, H 100	840	390 / 390	8,4	without battery	MOM
672314.00X.89	D 268, H 100	840	390 / 390	8,4	without battery	AC-Control
Plastic (polycarbonate)						
672285.00X	D 268, H 100	840	360 / 360	7,4	without battery	Standard
672285.00X.88	D 268, H 100	840	360 / 360	8,4	without battery	MOM
672285.00X.89	D 268, H 100	840	360 / 360	8,4	without battery	AC-Control

Theft protection						Price Category 12
982410.003	L 13, B 11, H 16					



Wall luminaires | Rounded Midi

Type of Protection: **IP 66**

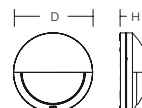
Protection Class: I

Impact Protection: IK08 (Glass), IK10 (Polycarbonate)

For escape route illumination

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Visor with opal glass or plastic (polycarbonate) spherical cap diffuser retained in cover ring, screwless cover fixing via bayonet lock with safety catch. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to prevent condensed water.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Luminaires for central battery system

Voltage type: AC/DC



Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring
Luminaires for central battery system						Price Category 24
Glass						
672315.00X	D 268, H 100	840	250 / 250	7,4	without battery	Standard
672315.00X.88	D 268, H 100	840	250 / 250	8,4	without battery	MOM
672315.00X.89	D 268, H 100	840	250 / 250	8,4	without battery	AC-Control
Plastic (polycarbonate)						
672301.00X	D 268, H 96	840	230 / 230	7,4	without battery	Standard
672301.00X.88	D 268, H 96	840	230 / 230	8,4	without battery	MOM
672301.00X.89	D 268, H 96	840	230 / 230	8,4	without battery	AC-Control

Theft protection						Price Category 12
982410.003	L 13, B 11, H 16					

Ceiling and wall luminaires | Rounded Maxi

Type of Protection: **IP 65**

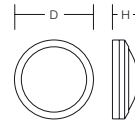
Protection Class: I

Impact Protection: IK07

For escape route illumination

Base and housing made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Diffuser: crystal glass (satin finish) with diffuser fixing. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to prevent condensed water. With mains voltage LED module.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Luminaires for central battery system

Voltage type: AC/DC

Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring
Luminaires for central battery system						Price Category 24
672297.00X	D 400, H 120	830	1050 / 270	22	without battery	Standard
672297.00X.88	D 400, H 120	830	1050 / 270	23	without battery	MOM
672297.00X.89	D 400, H 120	830	1050 / 270	23	without battery	AC-Control
672297.00X.1	D 400, H 120	840	1050 / 280	22	without battery	Standard
672297.00X.1.89	D 400, H 120	840	1050 / 280	23	without battery	AC-Control
672297.00X.1.88	D 400, H 120	840	1050 / 280	23	without battery	MOM

Theft protection						Price Category 12
982410.003	L 13, B 11, H 16					



Ceiling and wall luminaires | Rounded Maxi

Type of Protection: **IP 65**

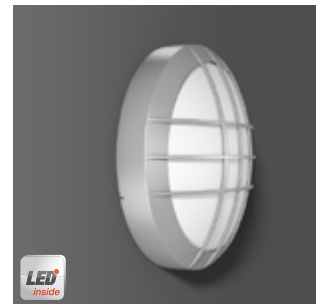
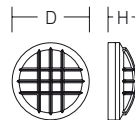
Protection Class: I

Impact Protection: IK07

For escape route illumination

Base, housing and protective guard made of corrosion resistant pressure die-cast aluminium (seawater resistant powder-coated). Diffuser: crystal glass (satin finish) with diffuser fixing. Screwless cover fixing via bayonet lock with safety catch. Base fixing slots outside of gasketed area, drill hole deviations can be compensated. With membrane valve as a standard to prevent condensed water. With mains voltage LED module.

Available colours (X): 2 = white, 31 = anthracite metallic, 4 = silver metallic



Luminaires for central battery system

Voltage type: AC/DC

Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring
Luminaires for central battery system						Price Category 24
672298.00X	D 400, H 127	830	850 / 220	22	without battery	Standard
672298.00X.88	D 400, H 127	830	850 / 220	23	without battery	MOM
672298.00X.89	D 400, H 127	830	850 / 220	23	without battery	AC-Control
672298.00X.1	D 400, H 127	840	890 / 230	22	without battery	Standard
672298.00X.1.88	D 400, H 127	840	880 / 230	23	without battery	MOM
672298.00X.1.89	D 400, H 127	840	880 / 230	23	without battery	AC-Control

Theft protection						Price Category 12
982410.003	L 13, B 11, H 16					





LIGHTSTREAM® LED

Spotlights

- Second cable inlet for loop through
- Reduced power consumption maintaining the same luminaire flux for energy savings at switchable version
- COB-LEDs with socket for change on site, selection of two light colours 830 or 840
- LED rated life 50,000 h (L80/B10)
- Mounting accessories available for pole and wall mounting



Further luminaires of this series, see:
Outdoor lighting | Projectors and floodlights

Spotlights | Lightstream LED Mini

Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK07

For escape route illumination

Housing made of corrosion-resistant die-cast aluminium for outdoor use, powder-coated.

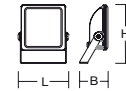
Bracket: aluminium, powder-coated. Ceramic coated toughened glass. COB LED with socket

for easy replacement. Reflector made of high purity aluminium, glossy brightened and anodised.

Standard Gore™ Protective Vents diaphragm valve to avoid condensation. Piano-key terminal

2.5 mm², for cable max. Ø 13 mm. Second cable gland for loop through available as accessory.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Luminaires for central battery system

Voltage type: AC/DC

Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery	Monitoring
Luminaires for central battery system						Price Category 24
Flood, Rotationally symmetric wide beam light distribution						
672316.11X	L 194, B 109, H 226	830	1050 / 1050	10	without battery	Standard
672316.11X.1	L 194, B 109, H 226	840	1100 / 1100	10	without battery	Standard
672088.11X	L 194, B 109, H 226	830	2200 / 2200	23	without battery	Standard
672088.11X.1	L 194, B 109, H 226	840	2300 / 2300	23	without battery	Standard



Accessories | Powerbox 15 (Only for 10 Watt version, max. 200 m cable length to the luminaire)

The Powerbox 15 is an emergency power supply unit, which uses the single battery principle in accordance with DIN EN 60598.

Mains power: 230 V, 50 Hz; output voltage: 230 V AC (mains operation), 210 V DC (battery operation)

Total wattage : 15 W (1 h), 12 W (3 h); permissible ambient temperature: +5 to +35 °C

Self-contained power supply units

672232.009	L 100, B 200, H 250	for standard variants	Price Category 30			
672232.009.04	L 100, B 200, H 250	for MultiDigit (.04)				



Installation accessories

982367.009	Cable gland M16x1,5	Price Category 11				
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Accessories

Wall arm for Lightstream LED for wall mounting. Made of stainless steel, blasted or powder coated finish. Option of top or lateral mounting at frontal bracket. Hidden cabling inside tubular profile with additional inlet at wall mounting plate.

Wall bracket

982058.000	L 500, B 180, H 180	Overall length 500 mm, uncoated	Price Category 12			
982058.0031	L 500, B 180, H 180	Overall length 500 mm, anthracite metallic				
982086.000	L 1000, B 180, H 180	Overall length 1000 mm, uncoated				
982086.0031	L 1000, B 180, H 180	Overall length 1000 mm, anthracite metallic				



Accessories

Pole attachment for Lightstream LED for installation on the pole top. Steel, hot-dip galvanised, unpainted or powder coated.

Set of stainless steel fixing screws included. Cable gland into the pole as strain-relief and protection against rainwater.

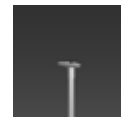
Pole tops

Pole top fixings, single			Price Category 12			
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982047.000	L 250, B 95, H 153	for spigot 60 mm, uncoated
982047.00X	L 250, B 95, H 153	for spigot 60 mm, powder-coated
982048.000	L 250, B 95, H 153	for spigot 76 mm, uncoated
982048.00X	L 250, B 95, H 153	for spigot 76 mm, powder-coated

Pole top fixings opposite mounting

982049.000	L 250, B 114, H 153	for spigot 60 mm, uncoated
982049.00X	L 250, B 114, H 153	for spigot 60 mm, powder-coated
982050.000	L 250, B 114, H 153	for spigot 76 mm, uncoated
982050.00X	L 250, B 114, H 153	for spigot 76 mm, powder-coated



Accessories

Mounting bracket for Lightstream LED for lateral attachment along the pole. Stainless steel bracket with galvanised screws.

Smooth span width for different mounting heights. Powder coating on request.

Pole clip

982090.000	L 178, B 174, H 38	for pole diameter 95 - 113 mm	Price Category 12			
982091.000	L 178, B 194, H 38	for pole diameter 114 - 132 mm				



Accessories

Adapter plate set for mounting from several Lightstream spotlights on a double pole attachment. stainless steel, powder coated. With IP 66 junction box and additional fixing screws. **The double pole attachment for a matching top dimension must be ordered separately.**

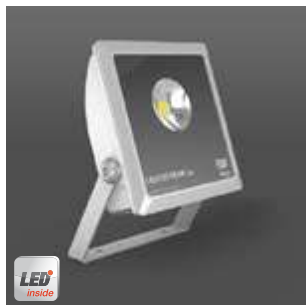
Adapter set for pole attachments

982524.00X	L 365, B 365, H 55	Adapter set for 4-fold configuration (4 x 90°)	Price Category 11			
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Earth spike kit

981962.003	D 86, H 246	Price Category 12				
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Spotlights | Lightstream LED Midi

Type of Protection: **IP 65**

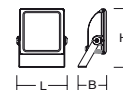
Protection Class: I

Impact Protection: IK07

For escape route illumination

Housing made of corrosion-resistant die-cast aluminium for outdoor use, powder-coated. Bracket: aluminium, powder-coated. Ceramic coated toughened glass. COB LED with socket for easy replacement. Reflector made of high purity aluminium, glossy brightened and anodised. Standard Gore™ Protective Vents diaphragm valve to avoid condensation. Piano-key terminal 2.5 mm², for cable max. Ø 13 mm. Second cable gland for loop through available as accessory.

Available colours (X): 31 = anthracite metallic, 4 = silver metallic



Luminaires for central battery system

Voltage type: AC/DC



Luminaires for central battery system

Price Category 24

Flood, Rotationally symmetric wide beam light distribution

672089.11X	L 267, B 142, H 336	830	4200 / 4200	37	without battery	Standard
672089.11X.1	L 267, B 142, H 336	840	4300 / 4300	37	without battery	Standard

Installation accessories

Price Category 12

982060.004	Cable gland M20x1,5 SW 24
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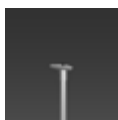
Accessories

Wall arm for Lightstream LED for wall mounting. Made of stainless steel, blasted or powder coated finish. Option of top or lateral mounting at frontal bracket. Hidden cabling inside tubular profile with additional inlet at wall mounting plate.

Wall bracket

Price Category 12

982058.000	L 500, B 180, H 180	Overall length 500 mm, uncoated
982058.0031	L 500, B 180, H 180	Overall length 500 mm, anthracite metallic
982086.000	L 1000, B 180, H 180	Overall length 1000 mm, uncoated
982086.0031	L 1000, B 180, H 180	Overall length 1000 mm, anthracite metallic



Accessories

Pole attachment for Lightstream LED for installation on the pole top. Steel, hot-dip galvanised, unpainted or powder coated. Set of stainless steel fixing screws included. Cable gland into the pole as strain-relief and protection against rainwater.

Pole tops

Price Category 12

Pole top fixings, single

982047.000	L 250, B 95, H 153	for spigot 60 mm, uncoated
982047.00X	L 250, B 95, H 153	for spigot 60 mm, powder-coated
982048.000	L 250, B 95, H 153	for spigot 76 mm, uncoated
982048.00X	L 250, B 95, H 153	for spigot 76 mm, powder-coated

Pole top fixings opposite mounting

982049.000	L 250, B 114, H 153	for spigot 60 mm, uncoated
982049.00X	L 250, B 114, H 153	for spigot 60 mm, powder-coated
982050.000	L 250, B 114, H 153	for spigot 76 mm, uncoated
982050.00X	L 250, B 114, H 153	for spigot 76 mm, powder-coated



Accessories

Mounting bracket for Lightstream LED for lateral attachment along the pole. Stainless steel bracket with galvanised screws. Smooth span width for different mounting heights. Powder coating on request.

Pole clip

Price Category 12

982092.000	L 178, B 174, H 38	for pole diameter 95 - 114 mm
982093.000	L 178, B 194, H 38	for pole diameter 115 - 135 mm



Accessories

Adapter plate set for mounting from several Lightstream spotlights on a double pole attachment. stainless steel, powder coated. With IP 66 junction box and additional fixing screws. **The double pole attachment for a matching top dimension must be ordered separately.**

Adapter set for pole attachments

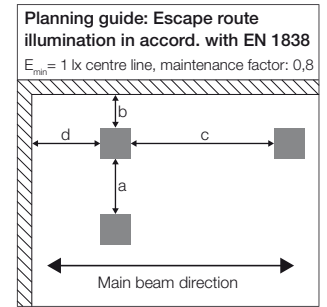
Price Category 11

982524.00X	L 365, B 365, H 55	Adapter set for 4-fold configuration (4 x 90°)
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672088.11X					
Luminous flux emergency: 2200 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,3	4,5	9,3	4,5	
3,0	11,0	5,3	11,0	5,3	
3,5	12,7	6,0	12,7	6,0	
4,0	14,3	6,8	14,3	6,8	

672089.11X					
Luminous flux emergency: 4200 lm Following values are indicated in m					
h	a	b	c	d	
2,5	11,3	5,3	11,3	5,3	
3,0	13,2	6,2	13,2	6,2	
3,5	15,0	7,1	15,0	7,1	
4,0	16,8	7,9	16,8	7,9	

672316.11X					
Luminous flux emergency: 1050 lm Following values are indicated in m					
h	a	b	c	d	
2,5	9,2	4,3	9,2	4,3	
3,0	10,7	5,0	10,7	5,0	
3,5	12,2	5,7	12,2	5,7	
4,0	13,6	6,3	13,6	6,3	





PORTABLE SAFETY SPOTLIGHT

Safety spotlights

- Robust rechargeable hand-held floodlight with emergency light function
- Long-life OGIV lead-acid battery
- LED status display for charging status
- Including 12 volt car charging adapter
- Includes charging station for standalone or wall mounting
- Top quality LED technology

Safety spotlights | Portable safety spotlight

Type of Protection: **IP 43**

Protection Class: II in charging mode, III in battery mode

Impact Protection: IK03

Lighting mode adjustable, luminosity 30%, 70%, 100%, flashing light. Splash-proof housing, plastic (polycarbonate), shockproof. Adjustable luminaire top. Diffused light adapter disc in orange. Charging station for standalone or wall mounting. Power supply unit and 12 V car adapter included. With charge status indicator.

Available colour: 3 = black



Reference number	Dimensions [mm]	Light colour	Luminaire flux Mains/Emergency [lm]	System power [W]	Battery [h]	
Self-contained safety luminaires						Price Category 23
672317.003	L 150, B 125, H 290	757	140	2	Pb	3



The application image shows:
Portable safety spotlight



RZB HOME + BASIC

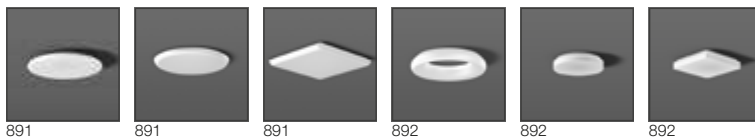
The RZB HOME + BASIC range includes a number of different indoor and outdoor luminaires. An almost unbeatable price-performance ratio makes the energy-saving, low-maintenance luminaires for private use as well as in public areas such as attractive as in stairwells, hallways, dormitories, schools and kindergartens. Thanks to the expanded product range, lighting tasks in basements, underground parking and workshops can also be easily realized. The diversity within the HOME + BASIC series leaves plenty of scope for a wide variety of design approaches and creative ideas.

All products in the HOME + BASIC family are subjected to demanding RZB quality inspections and so, without exception, meet the high standards of the Bamberg luminaire manufacturer.





The application image shows:
HB 506



891

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Ceiling and wall luminaires
890-893



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Oval bulkhead luminaires
894



895

Recessed downlights
895



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Luminaires for moist/humid
environments
896



897

Highbay luminaires
897



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HOME + BASIC

Ceiling and wall luminaires

- Convincing combination of design and value for money
- Easy installation with Plug & Play plug connection
- Low installation height
- Homogeneous visual appearance
- For private and public use

Ceiling and wall luminaires | HB 501

Type of Protection: **IP 40**

Protection Class: I

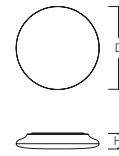
Impact Protection: IK06

Quick mounting adapter steel sheet, white powder-coated, with bayonet fastening.

Housing: plastic (polycarbonate). Diffuser: plastic (polycarbonate), opal. Base and diffuser are sealed together. Integral driver.

Available colour: 2 = white

MultiColour function: temperature variable via internal switching element for 3000 K (factory setting), 4000 K and 5700 K.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						
						Price Category 11
221174.002.2 *	D 250, H 48	LED	830, 840, 857	1100	12	on/off
221175.002.2 *	D 300, H 48	LED	830, 840, 857	1750	17	on/off
221176.002.2 *	D 400, H 63	LED	830, 840, 857	2400	25	on/off

* **MultiColour version:** luminous flux and system power can vary depends on the light color. You will find more detailed information on www.rzb-lighting.com.

Ceiling and wall luminaires | HB 502

Type of Protection: **IP 20**

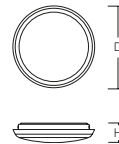
Protection Class: I

Impact Protection: IK06

Quick mounting adapter galvanized steel sheet, with fastening screws.

Housing: plastic (polycarbonate). Diffuser: plastic (polycarbonate), opal. Base and diffuser are sealed together. Integral driver.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						
						Price Category 11
221178.002	D 300, H 40	LED	830	2000	25	on/off
221178.002.1	D 300, H 40	LED	840	2150	25	on/off
221179.002	D 400, H 52	LED	830	2400	30	on/off
221179.002.1	D 400, H 52	LED	840	2500	30	on/off

Ceiling and wall luminaires | HB 503

Type of Protection: **IP 20**

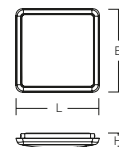
Protection Class: I

Impact Protection: IK06

Quick mounting adapter galvanized steel sheet, with fastening screws.

Housing: plastic (polycarbonate). Diffuser: plastic (polycarbonate), opal. Base and diffuser are sealed together. Integral driver.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Ceiling and wall luminaires						
						Price Category 11
221180.002.1	L 250, B 250, H 52	LED	840	1150	12	on/off
221181.002	L 300, B 300, H 40	LED	830	2000	25	on/off



Ceiling and wall luminaires | HB 504

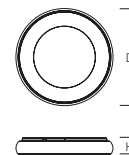
Type of Protection: IP 20

Protection Class: I

Impact Protection: IK06

Quick mounting adapter galvanized steel sheet, with bayonet fastening.
Housing: aluminium. Diffuser: plastic (polycarbonate), opal. Base and diffuser are sealed together. Integral driver.

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Ceiling and wall luminaires						
221183.002.1	D 298, H 51	LED	840	2000	25	on/off
221192.002.1	D 400, H 67	LED	840	2800	35	on/off

Price Category 11



Ceiling and wall luminaires | HB 505

Type of Protection: IP 20

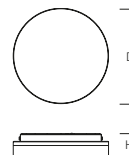
Protection Class: I

Impact Protection: IK06

Quick mounting adapter galvanized steel sheet, with fastening screws.
Housing: plastic (polycarbonate). Diffuser: plastic (polycarbonate), opal. Base and diffuser are sealed together. Integral driver.

Available colour: 2 = white

MultiColour function: temperature variable via internal switching element. Factory-set to 3000 K.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Ceiling and wall luminaires						
221186.002.2 *	D 220, H 53	LED	830, 840	1350	15	on/off
221187.002.2 *	D 268, H 53	LED	830, 840	1600	18	on/off

Price Category 11

* **MultiColour version:** luminous flux and system power can vary depends on the light color. You will find more detailed information on www.rzb-lighting.com.



Ceiling and wall luminaires | HB 506

Type of Protection: IP 20

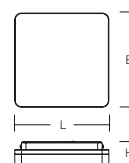
Protection Class: I

Impact Protection: IK06

Quick mounting adapter galvanized steel sheet, with fastening screws.
Housing: plastic (polycarbonate). Diffuser: plastic (polycarbonate), opal. Base and diffuser are sealed together. Integral driver.

Available colour: 2 = white

MultiColour function: temperature variable via internal switching element. Factory-set to 3000 K.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Ceiling and wall luminaires						
221188.002.2 *	L 210, B 210, H 53	LED	830, 840	1350	15	on/off
221189.002.2 *	L 260, B 260, H 53	LED	830, 840	1700	18	on/off

Price Category 11

* **MultiColour version:** luminous flux and system power can vary depends on the light color. You will find more detailed information on www.rzb-lighting.com.



The application image shows:
HB 504, HB 801



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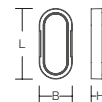
Oval bulkhead luminaires | HB 710

Type of Protection: **IP 54**
Protection Class: II
Impact Protection: IK07

Housing and diffuser: opal, made of shockproof plastic (polycarbonate). Convenient, flexible connection option using 2 rear and 4 lateral cable inlets. Internal fixing points mean no screws are visible. Simple, tool-free installation using the Plug & Play plug-in system. LED module can be connected without use of tools. Suitable for through-wiring.

MultiLumen version: 2 steps adjustable luminous flux. The initial setting is "H" (high lumen).

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Ceiling and wall luminaires						
501050.002 .Q*	L 207, B 97, H 56	LED	840	700/1100	6/9,5	on/off



* MultiLumen version

Price Category 11



Recessed downlights | HB 801

Type of Protection: **IP 40, IP 54** on room side

Protection Class: II

Ceiling thickness S: 5-22 mm

Impact Protection: IK03

Housing: aluminium, plastic-coated. Passive cooling.

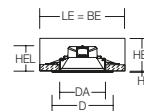
Diffuser: plastic (polycarbonate), opal, shockproof. Spring fastening system.


Driver included.

Available colour: 2 = white

MultiColour function: colour temperature variable via rear switching element.

Factory-set to 4000 K.



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 [°]	UGR	dimmable	Price Category 21
Recessed downlights									
Ceiling cut out DA 125 mm									
901695.002 .Q*	D 145, H 3, HE 80	LED	830, 840, 857	930	13	107	27,9	on/off	
Ceiling cut out DA 165 mm									
901696.002 .Q*	D 190, H 3, HE 92	LED	830, 840, 857	1300	16	105	26,8	on/off	
Ceiling cut out DA 205 mm									
901697.002 .Q*	D 225, H 3, HE 103	LED	830, 840, 857	1700	20	106	26,4	on/off	

* **MultiColour version:** luminous flux and system power can vary depends on the light color. You will find more detailed information on www.rzb-lighting.com.

Comparison LED vs. conventional lamps

LED 13 W ≈

1 x 18 W TC-D (26 W Psys)

LED 16 W ≈

1 x 26 W TC-D (34 W Psys)

LED 20 W ≈

1 x 32 W TC-D (36 W Psys)



MultiColour function: colour temperature variable via rear switching element.



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Luminaires for moist/humid environments | HB 702

Type of Protection: **IP 65**

Protection Class: II

Impact Protection: IK07

Side panels: plastic, white polycarbonate. Diffuser: plastic (polycarbonate), opal. Converter encapsulated, integrated and permanently connected to the diffuser and side panel. Cable screw fittings for convenient wiring. Easy installation with removable end caps at both ends. Luminaire with integrated 3-phase through-wiring to connect multiple luminaires. Ceiling mounting stainless steel brackets and triangular brackets for pendant mounting included in the scope of delivery.

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colour: 2 = white

MultiLumen version: 2 steps adjustable luminous flux. Factory-set to highest luminous flux.



Comparison LED vs. conventional lamps

LED 35 W ≈

1 x 39 W T16 (42 W Psys)
2 x 39 W T16 (82 W Psys)

LED 52 W ≈

1 x 80 W T16 (86 W Psys)
2 x 80 W T16 (172 W Psys)



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmi-able
Ceiling, wall and pendant luminaires						
451216.002 .Q*	L 1260, B 53, H 53	LED	840	2300/4000	20/35	on/off
451217.002 .Q*	L 1560, B 53, H 53	LED	840	4000/6000	35/52	on/off

* MultiLumen version

Price Category 11



© Shutterstock



Highbay luminaires | HB 720

Type of Protection: **IP 65**

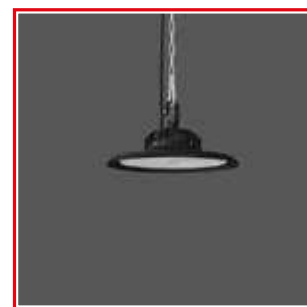
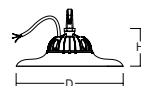
Protection Class: I


Impact Protection: IK07

Housing: die-cast aluminium, powder-coated. Diffuser: shockproof plastic (polycarbonate). Easy to install thanks to 1-point suspension. With 3-pin connection terminal (300 mm). Operating range -30°C to +50°C. Suitable for chain or steel cable suspension (provided by the client).

▽ Luminaires with limited surface temperature in accordance with DIN EN 60598-2-24 for use in environments in which a deposit of conductive dust on the luminaire can be expected.

Available colour: 3 = black



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	 UGR	dimmable	Price Category 11
Highbay luminaires								
921678.003	D 320, H 105	LED	840	20000	145	74 28,7	on/off	
921679.003	D 365, H 115	LED	840	25000	180	64 28,9	on/off	



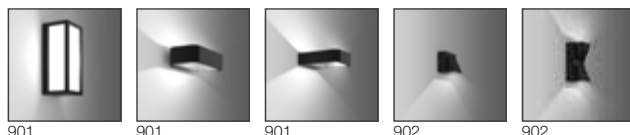
Comparison LED vs. conventional lamps

LED 145 W ≈
1 x 250 W HST (285 W Psys)

LED 180 W ≈
1 x 400 W HIE (440 W Psys)



The application image shows:
HB 450



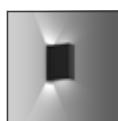
901

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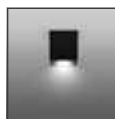
903



903



904



904



905



905



905



906



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907



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911



911

Wall luminaires
900-903

Surface mounted
downlights
904

Garden spotlights
905

Bollards
906-907

Solar luminaires
908-909

Garden luminaires
910-911



IP54

IP65

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HOME + BASIC

Wall luminaires, Surface mounted downlights, Spotlights, Garden spotlights, Bollards

- Housing made of pressure die-cast aluminium, powder coated
- Architectural design
- Diffuser out of impact resistant plastic (polycarbonate) or glass
- High ingress protection rating: IP 54 or IP 65
- Equipped with LEDs or COB-LEDs of recognised brands

Wall luminaires | HB 101

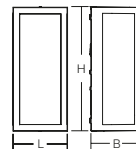
Type of Protection: **IP 54**

Protection Class: I

Impact Protection: IK06

Housing: die-cast aluminium, powder-coated. Diffuser: plastic (polycarbonate), opal.
Integral driver.

Available colour: 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Wall luminaires						Price Category 12
611980.0031 .Q	L 110, B 103, H 250	LED	830	810	13	on/off

Wall luminaires | HB 103

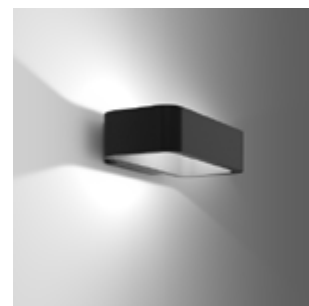
Type of Protection: **IP 54**

Protection Class: I

Impact Protection: IK06

Housing: die-cast aluminium, powder-coated. Diffuser: plastic (polycarbonate), opal.
Integral driver.

Available colour: 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Wall luminaires						Price Category 12
Double-side light output						
611982.0031	L 220, B 130, H 55	LED	830	300	9	on/off

Wall luminaires | HB 104

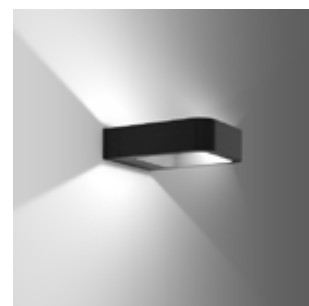
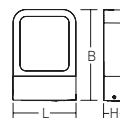
Type of Protection: **IP 54**

Protection Class: I

Impact Protection: IK06

Housing: die-cast aluminium, powder-coated. Diffuser: plastic (polycarbonate), opal.
Integral driver.

Available colour: 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Wall luminaires						Price Category 12
Double-side light output						
611983.0031	L 120, B 175, H 40	LED	830	290	9	on/off

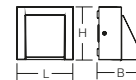
**Wall luminaires | HB 105**Type of Protection: **IP 54**

Protection Class: I

Impact Protection: IK06

Housing: die-cast aluminium, powder-coated. Clear glass cover. Integral driver.

Available colour: 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
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Wall luminaires**Price Category 12****Single-side light output**

611984.0031	L 80, B 66, H 75	LED	830	110	4	on/off
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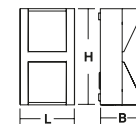
**Wall luminaires | HB 106**Type of Protection: **IP 54**

Protection Class: I

Impact Protection: IK06

Housing: die-cast aluminium, powder-coated. Clear glass cover. Integral driver.

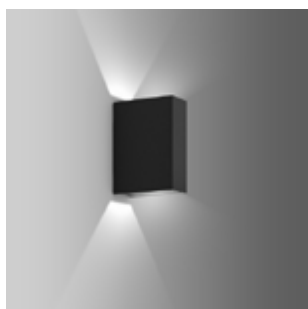
Available colour: 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
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Wall luminaires**Price Category 12****Double-side light output**

611985.0031	L 80, B 66, H 141	LED	830	220	6	on/off
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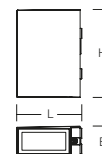
**Wall luminaires | HB 113**Type of Protection: **IP 54**

Protection Class: I

Impact Protection: IK03

Housing: die-cast aluminium, powder-coated. Clear glass cover. Integral driver.

Available colour: 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
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Wall luminaires**Price Category 12****Double-side light output**

612143.0031	L 90, B 43, H 125	LED	830	280	11	on/off
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Wall luminaires | HB 107

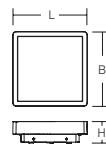
Type of Protection: **IP 54**

Protection Class: I

Impact Protection: IK03

Housing: die-cast aluminium, powder-coated. Diffuser: plastic (polycarbonate), opal. Integral driver.

Available colour: 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Wall luminaires						Price Category 12
612140.0031	L 236, B 236, H 68	LED	830	1100	15	on/off

Wall luminaires | HB 108

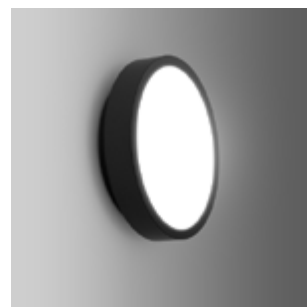
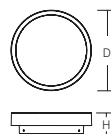
Type of Protection: **IP 54**

Protection Class: I

Impact Protection: IK03

Housing: die-cast aluminium, powder-coated. Diffuser: plastic (polycarbonate), opal. Integral driver.

Available colour: 31 = anthracite metallic

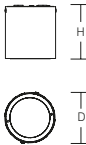


Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Wall luminaires						Price Category 12
612141.0031	D 250, H 68	LED	830	1050	15	on/off



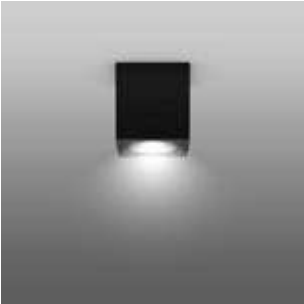
Surface mounted downlights | HB 110

Type of Protection: **IP 54**
Protection Class: I
Impact Protection: IK06
Housing: die-cast aluminium, powder-coated. Clear glass cover.
With mains voltage LED module.
Available colour: 31 = anthracite metallic



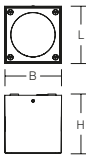
Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Surface mounted downlights						
931186.0031	D 90, H 95	LED ⁽¹⁾	830	570	9	on/off

Price Category 12



Surface mounted downlights | HB 111

Type of Protection: **IP 54**
Protection Class: I
Impact Protection: IK06
Housing: die-cast aluminium, powder-coated. Clear glass cover.
With mains voltage LED module.
Available colour: 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Surface mounted downlights						
931187.0031	L 90, B 90, H 94	LED ⁽¹⁾	830	590	9	on/off

Price Category 12



The application image shows:
HB 110

Spotlights | HB 109

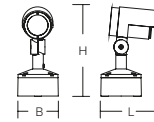
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK06

Housing: die-cast aluminium, powder-coated. Clear glass cover.
With mains voltage LED module.

Available colour: 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 12
Floodlight							
Adjustable spotlight							
721992.0031	L 136, B 99, H 220	LED ⁽¹⁾	830	680	10	on/off	

Garden spotlights | HB 207

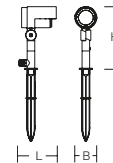
Type of Protection: **IP 65**

Protection Class: I

Impact Protection: IK06

Housing: die-cast aluminium, powder-coated. Clear glass cover. With mains voltage LED module.
With integral peg and 5 m power cord including Schuko-plug.

Available colour: 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 12
Garden spotlight with earth spike							
Adjustable spotlight							
721993.0031	L 136, B 90, H 210	LED ⁽¹⁾	830	680	10	on/off	

Spotlights | HB 450

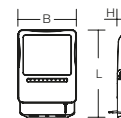
Type of Protection: **IP 65**

Protection Class: I

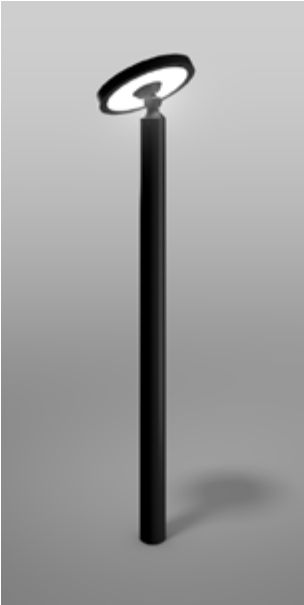
Impact Protection: IK08

Housing: die-cast aluminium, powder-coated. Bracket: steel, powder-coated. Clear glass cover.
Pre-wired with 500 mm connection cable.

Available colour: 3 = black



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable	Price Category 12
Projector for direct mains connection							
Wide flood							
722146.003	L 150, B 112, H 33	LED	840	2200	20	on/off	
722147.003	L 195, B 145, H 41	LED	840	5500	50	on/off	
722125.003	L 360, B 240, H 48	LED	840	7700	70	on/off	
722126.003	L 360, B 240, H 48	LED	840	11000	100	on/off	
722127.003	L 432, B 288, H 58	LED	840	16500	150	on/off	
722128.003	L 480, B 320, H 68	LED	840	22000	200	on/off	



Bollards | HB 201

Type of Protection: **IP 54**
Protection Class: I
Impact Protection: IK06
Bollard luminaire with solid anchorage unit. Housing: die-cast aluminium, powder-coated. Luminaire top can be swivelled. Diffuser: plastic (polycarbonate), opal. Integral driver.
Available colour: 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Bollards						
611974.0031	D 200, L 1150, H 900	LED	830	770	18	on/off

Price Category 12



Bollards | HB 205

Type of Protection: **IP 54**
Protection Class: I
Impact Protection: IK06
Bollard for socket mounting. Housing: die-cast aluminium, powder-coated. Diffuser: plastic (polycarbonate), opal. Integral driver.
Available colour: 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Bollards						
611978.0031	L 108, B 108, H 650	LED	830	390	12	on/off

Price Category 12

Bollards | HB 202

Type of Protection: **IP 54**

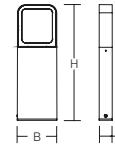
Protection Class: I

Impact Protection: IK06

Bollard for socket mounting. Housing: die-cast aluminium, powder-coated.

Diffuser: plastic (polycarbonate), opal. Integral driver.

Available colour: 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Bollards						Price Category 12
611975.0031	L 40, B 120, H 350	LED	830	290	9	on/off

Bollards | HB 203

Type of Protection: **IP 54**

Protection Class: I

Impact Protection: IK06

Bollard for socket mounting. Housing: die-cast aluminium, powder-coated.

Diffuser: plastic (polycarbonate), opal. Integral driver.

Available colour: 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Bollards						Price Category 12
611976.0031	L 40, B 120, H 650	LED	830	290	9	on/off



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HOME + BASIC

Solar luminaires

- Decorative garden luminaire in square cross section
- The symmetrical light distribution creates a harmonious lighting image
- The light source is not directly visible, so creates a pleasant glare-free lighting
- Thanks to integrated solar panel, no connecting cable required (battery operation)
- Movement detector with 120° detection area, integrated dusk switch

Solar luminaires | HB 402

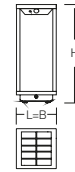
Type of Protection: **IP 54**

Protection Class: III

Impact Protection: IK02

Housing: die-cast aluminium, powder-coated. With light emission diffuser plastic (polycarbonate) clear. With integrated movement sensor (PIR) and daylight sensor. Solar module for LED with lithium battery. Charging time: at least 6-8 hours at daylight (depending on the place of installation, solar radiation and season). Operating time: 2,5 - 3 hours max. (100 % light output), 20 - 25 hours max. (10 % light output from dusk to dawn), 12 - 15 hours max. (changing light output, light output rises up to 100 % for a duration of 45 seconds when a motion is detected, afterwards it drops down to 10 %). With plastic ground spike.

Available colour: 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Solar luminaires						Price Category 12
2 W solar module for LED with lithium battery 3.7V / 2.2Ah						
612155.0031.19	L 140, B 140, H 500	LED	830	120	2,2	on/off

Solar luminaires | HB 403

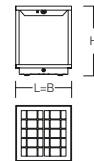
Type of Protection: **IP 54**

Protection Class: III

Impact Protection: IK02

Housing: die-cast aluminium, powder-coated. With light emission diffuser plastic (polycarbonate) clear. With integrated movement sensor (PIR) and daylight sensor. Solar module for LED with lithium battery. Charging time: at least 6-8 hours at daylight (depending on the place of installation, solar radiation and season). Operating time: 2,5 - 3 hours max. (100 % light output), 20 - 25 hours max. (10 % light output from dusk to dawn), 12 - 15 hours max. (changing light output, light output rises up to 100 % for a duration of 45 seconds when a motion is detected, afterwards it drops down to 10 %). With plastic ground spike.

Available colour: 31 = anthracite metallic



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	dimmable
Solar luminaires						Price Category 12
5 W solar module for LED with lithium battery 3.7V / 4.4Ah						
612156.0031.19	L 200, B 200, H 245	LED	830	250	3,5	on/off



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HOME + BASIC

Garden luminaires

- Durable plastic base featuring stable opal plastic diffuser (PE), silk finish
- Good stability due to low balance point
- Choice of various dimensions

Garden luminaires | HB 301, HB 302, HB 303, HB 304

Type of Protection: **IP 68**

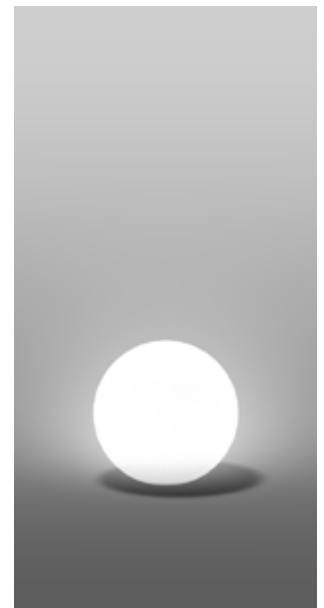
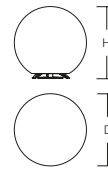
Protection Class: III (II while charging)

Impact Protection: IK10

Plastic base with opal plastic (polyethylene) diffuser sphere, satin finish. LED with colour change sequencer for battery operation - tuneable coloured light RGB or white. Full charge service life 8 to 12 hours (continuous operation). Light control via IR remote control. External charger for 100 - 240 V / 50 - 60 Hz with an inductive cradle included.

Charge in dry rooms only!

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp	Light colour	System power [W]	dimmable
Decorative garden luminaires					Price Category 12
612106.002	D 200, H 200	LED	RGBW	9	IR
612107.002	D 300, H 300	LED	RGBW	9	IR
612108.002	D 400, H 400	LED	RGBW	9	IR
612109.002	D 500, H 500	LED	RGBW	9	IR

Garden luminaires | HB 309, HB 310, HB 311

Type of Protection: **IP 54**

Protection Class: II

Impact Protection: IK06

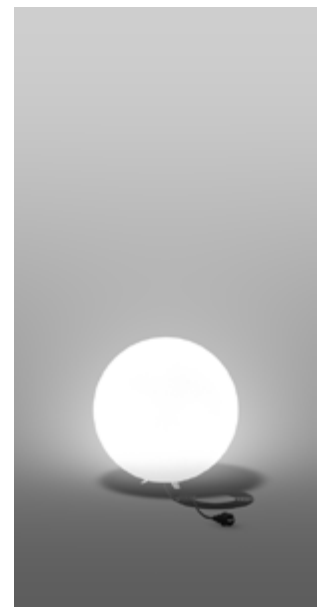
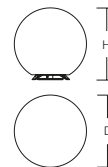
Plastic base with opal plastic (polyethylene) diffuser sphere, satin finish.

Fixture with pedestals and separate adapter for fixed and ground-spike mounting.

With 5 m connection cable including safety plug (Schuko), IP44.

RGB lamp and accessory for ground installation must be ordered separately!

Available colour: 2 = white



Reference number	Dimensions [mm]	Lamp
Decorative garden luminaires		Price Category 12
612157.002	D 300, H 300	1 x E27* max. 60 W
612158.002	D 400, H 400	1 x E27* max. 60 W
612159.002	D 500, H 500	1 x E27* max. 60 W

Accessory RGB lamp with remote control		Price Category 12
982510.000	D 60, L 113	LED A60 6 W, RGBW, E27, dimmable



Accessory for ground installation		Price Category 12
982240.003	D 90, H 245	Earth spike







The application image shows:
Calido







Types of protection	914
Protection classes	914
IK code: Impact protection	914
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Types of protection according to EN 60598/VDE 0711

1st digit: Protection against solid objects

IP 2X	Protection against penetration of solid objects ≥ 12.5 mm
IP 3X	Protection against penetration of solid objects ≥ 2.5 mm
IP 4X	Protection against penetration of solid objects ≥ 1 mm
 IP 5X	Protection against dust penetration
 IP 6X	Dust-proof

2nd digit: Protection against water

 IP X1	Protected against water drops (vertically falling drops of water)
IP X2	Protected against water drops (up to 15° from the vertical)
 IP X3	Splashproof luminaires
 IP X4	Luminaires are protected against water sprays
 IP X5	Luminaires are protected against water jets
IP X6	Protected against rough sea or heavy jets of water
 IP X7	Protection against temporary immersion
 IP X8	Protection against continuous immersion

The type of protection indicated for surface mounted, recessed, pole or pendant luminaires only applies to the defined and/or permitted type of luminaire installation.

Protection classes

Protection class I



Protection against electric shock is not derived solely from the basic insulation. Accessible conductive parts are also connected to the protective conductors on the on-site installation to prevent them from going live if the basic insulation fails.

Protection class II



Protection against electric shock is not derived solely from the basic insulation, but also assured by double- or triple-reinforced insulation. Neither has provision been made to connect a protective conductor nor is the protection derived from the construction conditions.

Protection class III



Protection against electric shock is derived from using the safety extra-low voltage (SELV). No voltages above SELV (max. 50 V AC or 120 V DC) are generated. Appropriate converters reliably separate SELV circuits in luminaires from other electric circuits.

IK code: Impact protection

The IK degree of impact protection is a classification for the resistance of housing for electrical equipment to mechanical impacts. It is standardised in accordance with IEC EN 50102 and describes how much impact energy in joules the housing can withstand without breaking. The higher the IK code, the more robust and resistant is the luminaire.

IK class (DIN EN 50102)	Impact energy (joules)
IK00	No impact resistance
IK01	up to 0,15 J
IK02	up to 0,20 J
IK03	up to 0,35 J
IK04	up to 0,50 J
IK05	up to 0,70 J
IK06	up to 1,00 J
IK07	up to 2,00 J
IK08	up to 5,00 J
IK09	up to 10,0 J
IK10	up to 20,0 J

Electrotechnical variants and additions

Codes are marked by a two-digit suffix separated by a point at the end of the reference number.

Code .04	autom. self-test function and feedback to MultiDigit Version with automatic self-test function and feedback to MultiDigit
Code .07	autom. self-test function and feedback to DALI Version with automatic self-test function and feedback to RZB DALI monitoring systems
Code .19	Movement sensor With movement sensor (stand-alone or master)
Code .191	Slave luminaire for operation with .19 master luminaires
Code .25	Light-sensitive switch Integrated light-sensitive switch
Code .730	smart+free Light management for wireless light control via Bluetooth®
Code .76	EB, digitally dimmable (DALI) Version with digitally dimmable EB, DALI compatible
Code .790	MultiLumen version Luminous flux adjustable in different steps
Code .88	MOM Monitoring components for low power supply (LPS)
Code .89	AC-Control Monitoring system for LUXIFAIR central battery system (CPS)

Ballasts

Our luminaires are mainly fitted with low-loss ballasts. They are designed for 230 V/50 Hz (ballasts with other specifications available on request).

Service life criteria

The luminous flux of LEDs and LED luminaires declines slowly as the operating time increases. The parameters L_x, B_y describe the condition after a rated time of operation.

In the expression L_x, B_y, x stands for the remaining proportion of initial luminous flux in %, and y stands for the proportion of LEDs or luminaires that still supply luminous power flux but at a level lower than x%.

These parameters are used, for example, for drawing up maintenance plans for lighting systems. Correctly dimensioned LED luminaires continue to provide light for a long time even after the rated time of operation.

You can find more detailed explanations about the operating performance of LEDs in: Guide to reliable planning with LED lighting published by ZVEI, Revised 3rd edition.

Binning

The term „binning“ describes the classification of LEDs in the ongoing production process, in particular with respect to their colour quality. Light colour (the most similar colour temperature), colour rendering index (Ra) and colour coordinate tolerance (MacAdam's ellipses) are the common terms generally used to describe the binning of an LED.

Abbreviations

L	Length
B	Width
H	Height
D	Diameter
T	Depth
LP	Pendant length
AL	Extension
BA, LA, DA	Cut out (width, length or Ø)
HE	Required minimum recess depth including ceiling thickness (for mechanical and thermal reasons)
TE	Recess height of luminaire (ceiling)
HEL	Recessed height of the luminaire including ceiling thickness
Le	Recess length
EEC	Energy efficiency class
Tg	Operating temperature in °C at the centre of the luminaire surface
ta	Luminaires marked "ta 15°C" are designed for ambient temperatures of 15°C and are also suitable for outdoors.
LVK	Light distribution curve
DKN system®	DKN glass luminaires (push and tilt) allowing for glass mounting without tools: light pressure of the glass rim on the retaining springs releases the tilt and holding mechanism ensuring a safe position of the glass diffuser. Retaining springs even out glass rim discrepancies and protect the glass diffusers during repeated attachment and removal. The base is not visible once the glass diffuser has been attached.
RGB	stands for additive colour mixture, based on the three primary colours red - green - blue, using suitable lamps, e.g. coloured fluorescent lamps or coloured LED lamps. By optimising the arrangement of the lamps in the luminaire and choosing colour-saturated lamps, RZB produces a high level of colour saturation and a broad spectrum of composite colours.
LED	stands for light emitting diode, an electronic semi-conductor component offering excellent energy efficiency and a long service life.
LED ⁽¹⁾	Mains voltage LED - no driver required
①	Our Edison socket luminaires are mainly compatible with halogen and compact fluorescent lamps, as well as LED lamps, as an alternative to conventional general service lamps. All such luminaires are marked in the catalogue with ①, furthermore socket size and maximum lamp wattage are indicated. The indicated maximum wattage refers to the conventional general service lamp. When using non-conventional lamps, please follow the vendor's instructions concerning conversion of the relevant wattage. In determining which light source is suitable, you will need to consider the size of the light source and the number of times it can be switched on and off. Please note that the "Comparison of LED and conventional lamps" is based on hypothetical averages and not on exact figures.

Symbol explanations



Directive 2012/19/EU (WEEE)

Electrical and electronic equipment should never be disposed of with general household waste. The devices must be delivered to an appropriate facility to allow for environmentally sound disposal, recovery of recyclable materials and the possibility of re-use.

Registration with the German Clearing House, stiftung ear, under WEEE reg. no.: 15524944

General information

Indoor lighting	For recessed luminaires, the indicated type of protection only applies to luminaires installed in closed, dry ceilings. The requirements to be met during installation of the luminaire concerning distance and recess height are specified in the relevant installation instructions for open and closed ceilings. These installation instructions are also available at www.rzb-lighting.com .
Outdoor lighting	Possibility of condensation Condensation can arise in outdoor luminaires with a high type of protection. A vacuum occurs while the luminaires are cooling down and/or after they were switched off or when temperatures fluctuate strongly. This can result in moisture getting in the inside of the luminaire, where it condenses. As such, the accumulation of condensation in an outdoor luminaire is by no means an indication that the luminaire is not watertight.
Care of stainless steel luminaires	Stainless steel is corrosion resistant and therefore does not require any organic nor metallic coating to improve its corrosion resistance or appearance. To keep the luminaires looking good, they should occasionally be treated with a suitable cleaning agent.

Safety and quality

To reduce development times and produce high-quality, safe and standard-compliant luminaires, we have a modern electrical laboratory that is certified according to the Test Data Acceptance Programme (TDAP) by the VDE Testing and Certification Institute. In it, we carry out measurements according to the relevant guidelines and standards. In addition to running protection-type, glow-wire, heat, temperature, humidity, high-voltage and power tests with the latest test devices, we can also measure electromagnetic compatibility (EMC). Alongside our electrical laboratory, we also have a light laboratory with goniophotometer, spectrometer and flicker meter for measuring photometric data.

All the luminaires in this catalogue, and all our customised luminaires, are produced in accordance with the applicable European directives and regulations and the European standard EN 60598 (VDE 0711). For our extensive product portfolio we have VDE test certificates as well as the ENEC (European Norms Electrical Certification) safety mark. The manufacture of these luminaires is monitored by regular factory inspections by the VDE Testing and Certification Institute.

From product development, goods entry, production, logistics up to our after sales service, every step of the process is strictly controlled, continuously optimised and, if necessary redefined. Our quality management system has been continuously certified since 1996.

RZB is certified according to DIN EN ISO 9001:2015.

Safety marks



The ENEC mark is a European test and certification mark for luminaires and electrical luminaire components.



Putting on the CE mark on our luminaires we certify that our products fulfill the basic requirements of European regulations and standards. The respective CE declaration of conformity is available for download on our website www.rzb-lighting.com within the download section of each product.

Explanation of values indicated in this catalogue

Lamp

describes the number and type of lamps (e.g. 1 x HIT-CE) and their maximum power P [W] (e.g. 70 W) to be used in the selected luminaire. For luminaires with LED lamps, only LED is indicated – the rated values for power consumption and luminous flux are indicated in the Luminaire Flux and System Power columns.

Light colour

To indicate the „light colour“ and the colour rendering quality of a light source, the lighting industry uses a three-digit light colour code, where the first digit defines the colour rendering index (CRI) while the second and third denote the correlated colour temperature of the light emitted by the light source in Kelvin [K].

Examples:

8 27	9 40
colour temperature 2700 K	colour temperature 4000 K
colour rendering index Ra = 80-89	colour rendering index Ra = 90-100

Luminous flux [lm]

is defined as the total quantity of light emitted by a luminaire and is measured in lumens [lm].

The values indicated in this catalogue are rated values.

System power [W]

Indicates the luminaire's total power requirements, i.e. the total watts [W] required to power the light source and any ballast or driver needed for operation. The values indicated in this catalogue are rated values.

Beam angle (↘) [°]

also called half-peak angle of a luminaire is defined as that part of the beam where the light level varies between its peak intensity and half the peak level. This angle indicates whether the light distribution of a luminaire is narrow, medium or wide beam.

UGR

The UGR value (Unified Glare Rating) allows for the rating of direct glare resulting from indoor lighting installations. The higher the UGR value, the higher is the risk of glare. Standardized limit values are defined for specific types of activities and areas and must not be exceeded (see e.g. DIN EN 12464-1).

Dimmable

Indicates whether the luminaire is dimmable and which system is used.



This luminaire is also available as self-contained and/or emergency luminaire for central battery systems according to EN 60598 2-22 – further information is available in the section Emergency lighting.



Recessed downlights | Toledo Flat Round

Type of Protection: IP 20, IP 54 on room side

Protection Class: II

Ceiling thickness S: 1-20 mm

Impact Protection: IK03 (Tunable White), IK06

Housing: die-cast aluminium. Lightguide and diffuser made of non-yellowing plastic (PMMA).

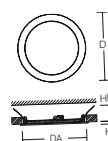
Ceiling installation with spring system. Mounting depth depends on ceiling strength.

Incl. separate LED converter with connecting cable 250 mm.

Available colour: 2 = white

Versions with Casambi smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.

INDOOR LIGHTING | RECESSED DOWNLIGHTS



Reference number	Dimensions [mm]	Lamp	Light colour	Luminous flux [lm]	System power [W]	Beam angle [°]	dim-able	Price Category 21	€ gross without VAT
Recessed downlights									
Diffuser: plastic, opal									
Ceiling cut out DA 128 mm									
901451.002 .Q	D 148, H 2, HE 27-53	LED	830	470	5	110	on/off	✓	
901451.002.76	D 148, H 2, HE 31-53	LED	830	470	5	110	DALI	✓	
901451.002.1 .Q	D 148, H 2, HE 27-53	LED	840	530	5	110	on/off	✓	
901451.002.1.76	D 148, H 2, HE 31-53	LED	840	530	5	110	DALI	✓	
Ceiling cut out DA 170 mm									
901452.002 .Q	D 190, H 2, HE 27-53	LED	830	780	7,7	110	on/off	✓	
901452.002.76	D 190, H 2, HE 31-53	LED	830	780	7,7	110	DALI	✓	
901452.002.1 .Q	D 190, H 2, HE 27-53	LED	840	840	7,7	110	on/off	✓	
901452.002.1.76	D 190, H 2, HE 31-53	LED	840	840	7,7	110	DALI	✓	
Ceiling cut out DA 234 mm									
901453.002 .Q	D 255, H 3, HE 30-56	LED	830	1650	17	110	on/off	✓	
901453.002.76 .Q	D 255, H 3, HE 31-56	LED	830	1650	17	110	DALI	✓	
901453.002.1 .Q	D 255, H 3, HE 30-56	LED	840	1800	17	110	on/off	✓	
901453.002.1.76 .Q	D 255, H 3, HE 31-56	LED	840	1800	17	110	DALI	✓	
Tunable White - 2700 K to 6500 K									
901666.002.76	D 255, H 3, HE 30-56	LED	827-865	1500	18	110	DALI smart+free	✓	
901666.002.730	D 255, H 3, HE 55-75	LED	827-865	1550	18	110	smart+free	✓	
Ceiling cut out DA 288 mm									
901484.002 .Q	D 317, H 3, HE 31-54	LED	830	2150	22	108	on/off	✓	
901484.002.76 .Q	D 317, H 3, HE 31-54	LED	830	2150	22	108	DALI	✓	
901484.002.1 .Q	D 317, H 3, HE 31-54	LED	840	2250	22	108	on/off	✓	
901484.002.1.76	D 317, H 3, HE 31-54	LED	840	2250	22	108	DALI	✓	
Tunable White - 2700 K to 6500 K									
901667.002.76	D 317, H 3, HE 31-54	LED	827-865	2100	23	108	DALI smart+free	✓	
901667.002.730	D 317, H 3, HE 55-75	LED	827-865	2150	23	108	smart+free	✓	

Comparison LED vs. conventional lamps

LED 5 W ≈
1 x 10 W TC-D (16 W Psys)

LED 7,7 W ≈
1 x 18 W TC-D (26 W Psys)

LED 17/18 W ≈
1 x 32 W TC-D (36 W Psys)

LED 22/23 W ≈
2 x 26 W TC-D (68 W Psys)

LED 30 W ≈
3 x 26 W TC-D (102 W Psys)
4 x 14 W T16 (68 W Psys)
4 x 18 W T26 (104 W Psys)

System power LED ≈ Conventional lamp (system power)

This comparison is for a better orientation with respect to the light output of LED luminaires based on the comparison of luminous flux. The specified system power of the illustrated LED luminaires is compared with the appropriate luminaires with conventional lamps. To make the power consumption clear, the system power (Psys) of the conventional lamps is given in brackets.

Comparison LED vs. conventional lamps

LED 28 W ≈

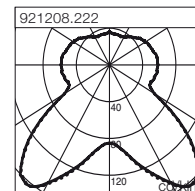
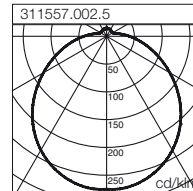
2 x 26 W TC-D (68 W Psys)
1 x 40 W T16-R (43 W Psys)

LED 35 W ≈

4 x 18 W TC-D (104 W Psys)
1 x 55 W T16-R (60 W Psys)

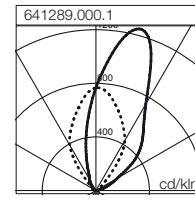
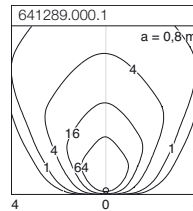
LDC (Light distribution curve)

This curve shows the light distribution of a luminaire. The specified light distribution values are standardised at 1000 lm luminous flux of the lamp and have to be adapted to the actual luminous flux. For LED luminaires the LDC is indicated as absolute photometrics.



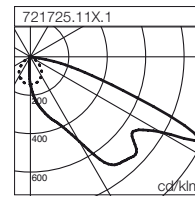
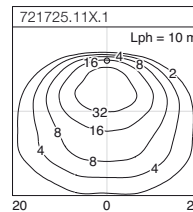
Wall lighting (contour line diagram)

This left-hand diagram shows the light distribution on a wall created by a luminaire with the right-hand LDC at a certain distance from the wall.



Floor lighting (contour line diagram)

This left-hand diagram shows the light distribution on a floor created by a luminaire with the right-hand LDC at a certain height.



Quick calculation

The table serves as indication for the planning of rooms and hallways (the value in brackets is the level of the working plane). The average illuminance achieved may go up or down depending on the number of luminaires.

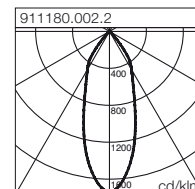
311557.002.5		
Floor 12 x 2,5 x 3 m (0,2 m)		
100 lx	150 lx	200 lx
2	3	5
Room 6 x 4 x 3 m (0,75 m)		
200 lx	300 lx	500 lx
2	3	-

921208.222			
Hall 50 x 30 m (0 m)			
Lph	100 lx	300 lx	500 lx
6 m	24	70	-
9 m	30	77	-
12 m	30	88	-
15 m	30	88	-

Cone diagram

The diagram shows the diameter of the light cone and the maximum illuminance in the centre, depending on the distance of the luminaire from the illuminated object.

911180.002.2		
h (m)	Ø (m)	E (lx)
1.0	0.67	6417.1
2.0	1.35	1604.3
3.0	0.02	713.0
4.0	2.69	401.1
5.0	3.36	256.7



Chemical Resistance

to the plastics used in the manufactured luminaires

Chemical Agents	max. concentration	PC	PMMA
Acetone		-	-
Battery Acid		o	-
Aliphate. Hydrocarbons		+	o
Alcohol	30%	+	+
Alcohol concentrate		-	-
Aluminium sulphate	10%	+	
Formic acid	30%	-	o
Ammonia	5%	-	+
Ammonia	25%	-	+
Aniline		-	-
Aromatic hydrocarbons		-	-
Arsenic acid		+	+
Ether		-	-
Caustic potash		-	
Benzene		-	-
Beer		+	+
Blood		+	+
Bromic acid		-	-
Calcium Chloride		+	+
Chloroform		-	-
Chlorophenol		-	-
Chromic acid	40%	o	o
Diesel fuel		o	+
Dioxane		-	-
Acetic acid	5%	+	o
Acetic acid	30%	+	-
Ethyl acetate (ester)		-	-
Ethanol	30%	+	o
Ethanol	50%	+	-
Ethyl acetate		-	-
Ethyl alcohol		+	o
Mineral fat		-	+
Vegetable fat		-	+
Animal fat		-	+
Glycerin		o	+
Glycol		+	+
Glysantin		+	+
Glycerine		o	+
Fuel oil		-	o
Caustic potash	30%	-	+
Potassium nitrate		+	+
milk of lime		o	+
Ketone		-	-
Saline solution	20%	+	+
Carbon dioxide		+	+
Carbon monoxide		+	+

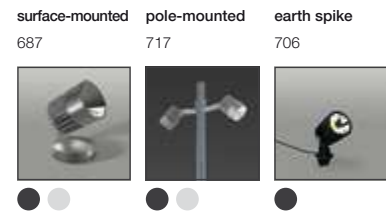
Chemical Agents	max. concentration	PC	PMMA
Hydrocarbons		-	o
Lye		o	+
Lysol		-	-
Sea water		+	+
Methanol		-	-
Methyl chloride		-	-
Lactic acid, aqueous	10%	+	+
Mineral oils		+	+
Sodium hydroxide solution	2%	-	+
Sodium hydroxide solution	10%	-	+
Regular petrol (ROZ 91)		o	-
Petroleum ether		o	+
Phenol		-	-
Nitric acid	10%	+	+
Nitric acid	20%	o	o
Hydrochloric acid	5%	+	+
Hydrochloric acid	15%	+	+
Hydrochloric acid	20%	o	+
Sulfur dioxide		o	-
Sulphuric acid	30%	+	+
Sulphuric acid	50%	+	+
Sulphuric acid	70%	o	o
Hydrogen sulfide		+	+
Soap sud		+	+
Silicone oils		+	o
Soda bleach		+	+
Premium petrol		-	+
Turpentine oil		o	o
Carbon tetrachloride		-	-
Toluene		-	-
Trichloroethylene		-	-
Hydrogen peroxide	30%	o	-
Hydrogen sulfide		+	+
Xylene / Dimethylbenzene		-	-
Citric acid	20%	+	+

+ resistant

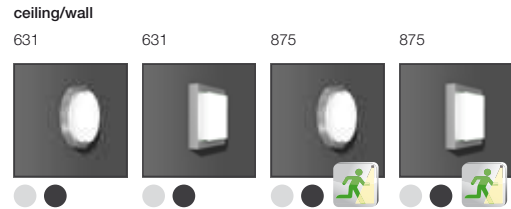
o partially resistant

- non-resistant

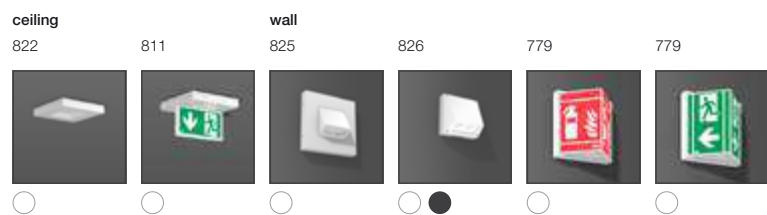
Alu-Star



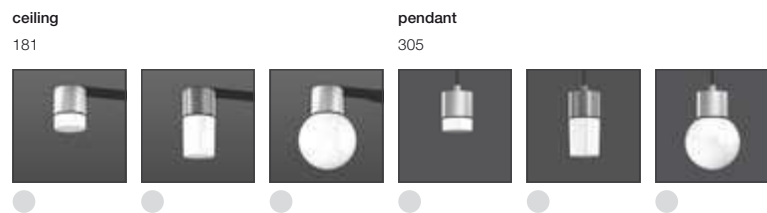
Cadero



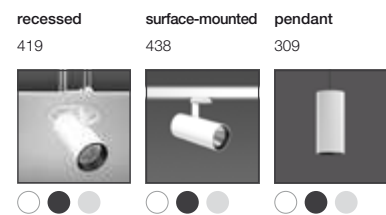
Centryxx



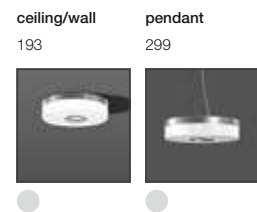
Cyllo



Deecos



Douala













Exeo



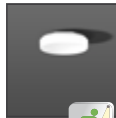









F





Flat Polymero

ceiling/wall			pendant	
227	228	871	323	322
				
				





Flat Polymero Kreis

ceiling/wall			pendant	
219	220	867	319	318
				
				





Flat Polymero Kreis Slim

ceiling/wall	pendant
215	315
	
	

Flat Slim

ceiling/wall	pendant
198	294
	
	


Flat Slim+

ceiling/wall	pendant
206	297
	
	

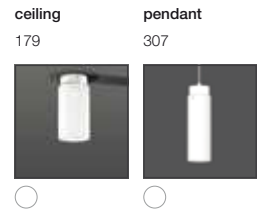
Flatliner

ceiling	pendant
345	346
	
	

Flatliner Slim

ceiling	pendant
340	342
	
	

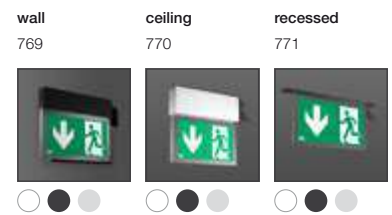
Glasdownlight



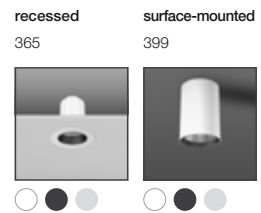
GSUN



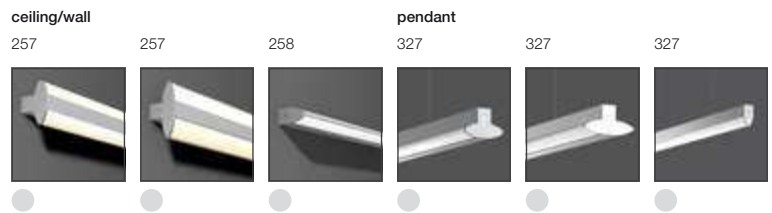
Halyxx



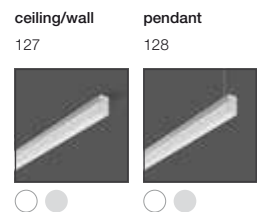
Heledon



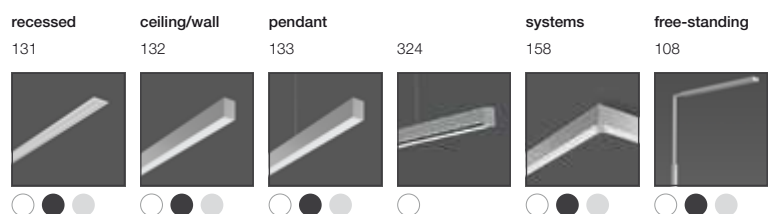
Lavano



Less is more 21



Less is more 27



L

Less is more 50

recessed	ceiling/Wall	pendant	systems
137	138	139	160
<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>

Less is more BeamLine

recessed	ceiling/wall	pendant	systems
146	148	150	162
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Linedo

surface-mounted/suspended	functional modules
470-491	470-491
<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>

Lightstream

surface-mounted	pole-top
691	881
<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>

Lupalo

bollards			light stacks	pole-top	
661	661	657	730	733	733
<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>

M

Mega

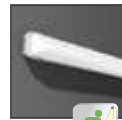
wall						
591	592	593	594	595	596	597
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bollards						
665	666	667	668	668	670	669
<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>	<div><div></div><div></div><div></div></div>

Planox

surface-mounted

515

861

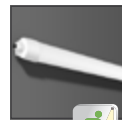


Planox PRO

surface-mounted

497

865



Rechteck

wall

799

800

ceiling

801

cable/chain

802

tube

803



Ring of Fire

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184

pendant

285

285

286



Rounded Maxi

ceiling/wall

637

637

879

879



Rounded Midi

ceiling/wall

633

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877

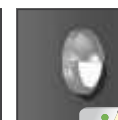
878

wall

599

878

611



Scapha

ceiling/wall

209

pendant

291



S

Sidelite

surface-mounted

65



65



pendant

99



99



free-standing

112



Sidelite ECO

recessed

32



850



34



854



surface-mounted

70



71



71



pendant

103



103



free-standing

115



Sidelite Round

surface-mounted

66



67



pendant

100



101



Sonis EVO

recessed

51



51



859



52



52



surface-mounted

73



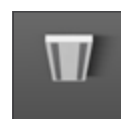
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73



73



T

Tenuo

wall

761



762



763



ceiling

764



recessed

765



pendant

766



Toledo Flat

pendant

313



fabric lampshade

334



336



recessed

47



388



390



837



840



surface-mounted

403



405



843



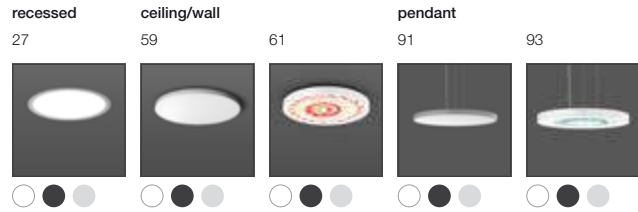
846



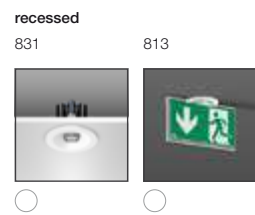
Toledo Flatliner



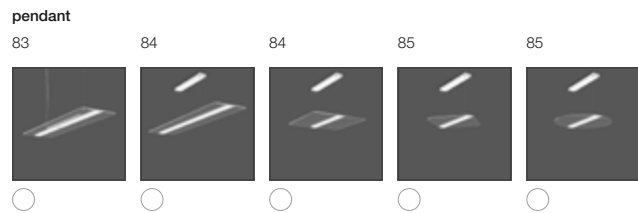
Triona



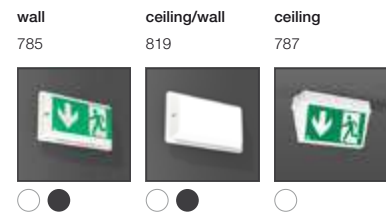
Turia



TWINDOT



Varioplast



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921494.003...	530	981142.01X	669	981867.002	345	982049.00X	691
921495.003...	531	981143.01X	672	981868.002	345	982050.000	691
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921497.003...	531	981167.002	781	981870.002	345	982052.00X	699
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Article I: General provisions

1. All legal relationships between Supplier and Purchaser with regard to deliveries and/or performance by Supplier ("Deliveries") are governed solely by these terms and conditions. Purchaser's general terms and conditions of business only apply if Supplier has expressly acknowledged them in writing. The scope of Deliveries is governed by the mutually agreed written declarations.
2. Supplier reserves the unrestricted rights of use to any quotations, drawings and other literature ("Documents") under possession and copyright law. Documents may only be made accessible to third parties with Supplier's prior consent. If Supplier is not awarded the contract, said Documents are to be returned immediately on request. Sentences 1 and 2 apply accordingly for Purchaser's Documents, although these may be made accessible to those third parties to whom Supplier has permissibly transferred Deliveries.
3. Purchaser is granted the non-exclusive right to utilise the standard software and firmware with the performance characteristics agreed, without modifying the same, on the devices specified. Purchaser may make a back-up copy of the standard software without obtaining express agreement.
4. Partial shipments are permissible.
5. The term „claims for damages“ in these Terms and Conditions of Delivery also encompasses claims for reimbursement of futile expenses.

Article II: Prices, terms of payment and offsetting

1. Prices are quoted ex works excluding packaging plus any applicable statutory sales tax and other taxes and duties that may be levied.
2. If Supplier is responsible for setup or assembly, and unless otherwise agreed, Purchaser is responsible for all necessary ancillary costs, such as travel and shipping costs and accommodation allowances, in addition to the agreed payment.
3. Payments are due to Supplier's designated paying agent free of charges.
4. Purchaser may only offset against undisputed or legally established receivables.

Article III: Retention of title and payment protection

1. Items representing Deliveries (retained goods) remain the property of Supplier until Purchaser has satisfied each and every claim of Supplier under the business relationship.
2. For the duration of retention of title, Purchaser may not pledge the retained goods or use them as security, and they may only be resold by resellers in the ordinary course of their business and only on condition that the reseller receives payment from its customer or makes the transfer of ownership to the customer dependent upon the customer fulfilling its payment obligations.
3. Purchaser agrees to inform Supplier immediately and in writing of any seizures, confiscations or other disposals or acts of intervention by third parties.
4. If Purchaser fails to fulfil its duties, especially in rendering due payments, Supplier is entitled to take back the goods and cancel the contract if Purchaser fails to provide remedy within a reasonable period set by Supplier. Purchaser is obliged to relinquish the goods. Supplier's demand for return of the goods, exercise of retention of title, or seizure of the retained goods does not constitute termination of the contract unless Supplier expressly declares the same.

Article IV: Delivery periods; delays

1. Adherence to stipulated delivery periods is conditional upon timely receipt of all documents, necessary permits and releases, especially of plans to be provided by Purchaser, and upon the latter's fulfilment of the agreed terms of payment and other obligations. Failure to meet these conditions on time will extend the delivery periods; this is not applicable if Supplier is responsible for the delay.
2. If failure to adhere to the delivery periods is due to
 - a) force majeure, e.g. mobilisation, war, terrorist attacks, rebellion or similar events (e.g. strike, lockout),
 - b) virus and other third-party attacks on Supplier's IT systems despite Supplier exercising due caution in implementing safeguards,
 - c) hindrances under German, Swiss, US and other applicable national, EU or international laws governing external trade, or other circumstances beyond Supplier's control,
 - d) late or incorrect delivery to Supplier, the deadlines will be extended by a reasonable period.

3. If Supplier delays delivery, Purchaser may – subject to provision of evidence of any loss suffered – demand compensation for each complete week of delay of 0.5% (up to a maximum of 5%) of the price for the part of the Deliveries that could not be put to intended use as a result of the delay.
4. Purchaser's claims for damages on grounds of late Deliveries as well as claims for damages in lieu of performance [Note: this issue must be checked under Swiss law] that exceed the limits specified in 3. above are excluded in all cases of delayed Deliveries, even after Supplier has failed to meet a deadline set for delivery. The aforementioned does not apply in cases of unlawful intent or gross negligence on Supplier's part, nor if it contravenes mandatory law. Purchaser may only withdraw from the contract if Supplier is at fault with regard to the late Deliveries and if Supplier has failed to meet a previously specified, reasonable deadline.
5. At Supplier's request, Purchaser must – within a reasonable period – state whether it wishes to withdraw from the contract due to the delay in Deliveries, or insists on the Deliveries.
6. If dispatch or delivery is delayed at Purchaser's request by more than one month after giving notice of readiness for dispatch, Purchaser may be charged storage costs of 0.5% of the price of the Deliveries for every additional month or part thereof. The parties to the contract are at liberty to prove the incurrence of higher or lower storage costs.

Article V: Transfer of risk

1. If not expressly otherwise agreed upon in writing between the Purchaser and the Supplier, all goods shall be delivered FCA RZB premises Bamberg (Incoterm 2020) at the time when the goods are loaded onto the Purchaser's transport.
2. The risk passes to Purchaser if the dispatch, delivery, commencement or execution of setup or assembly, adoption into Purchaser's own operation or trial run is delayed for reasons for which Purchaser is responsible, or if the latter otherwise delays acceptance of the goods.

Article VI: Acceptance

Purchaser may not refuse to accept Deliveries on grounds of minor defects.

Article VII: Material defects

1. The warranty period is 12 months. It commences when the Deliveries leave the factory or, if appropriate, following agreed acceptance of the Deliveries or, if Supplier is responsible for assembly, upon completion of the same. If dispatch, acceptance or assembly are delayed for reasons beyond Supplier's control, the warranty lapses at the latest 18 months after notification of readiness for dispatch. The warranty lapses prematurely in case of unauthorised modifications or repairs by Purchaser or third parties, or failure by Purchaser to immediately take all suitable steps to mitigate the damage in the event of a defect and to give Supplier the opportunity to remedy the defect.
2. During the warranty period and at Purchaser's request, Supplier undertakes to either remedy or replace – at Supplier's discretion – as quickly as possible any and all parts of Supplier's Deliveries that are demonstrably damaged or unusable at the time of risk transfer due to material defects, design flaws or poor workmanship. Purchaser's warranty claims are excluded after the warranty period has lapsed. Replaced parts become Supplier's property unless Supplier expressly waives its right of title. Supplier must bear all the rectification costs incurred at its facility. If rectification is not possible at Supplier's facility, Purchaser must bear the associated costs to the extent that they exceed the normal transport and staff costs, travel and accommodation expenses, and the cost of installation and disassembly of the defective parts.
3. Damages that are not demonstrably due to material defects, design flaws or poor workmanship, e.g. normal wear, poor maintenance, failure to follow operating instructions, excessive stress, unsuitable operating equipment, chemical or electrolytic influences, construction or assembly work not performed by Supplier, and any other reasons beyond Supplier's control, are excluded from Supplier's warranty and liability.
4. Supplier only accepts liability for supplies from subcontractors designated by Purchaser within the framework of the warranty obligations of the relevant subcontractors.
5. Purchaser can claim no rights or entitlements for material, design or workmanship defects above and beyond those listed in 1. to 4. above.
6. Guaranteed properties must be expressly designated accordingly. The provisions governing material defects in Article VII 1. - 5. above apply accordingly.

Article VIII: Industrial property rights and copyrights; defects of title

1. Unless otherwise agreed, Supplier's obligation to execute the Deliveries free of third party industrial property rights and copyrights ("Property Rights") only applies in the country of the delivery location. If a third party raises justified claims against Purchaser on the grounds of infringement of Property Rights by Deliveries executed by Supplier and used in accordance with the contract, Supplier's liability to Purchaser within the period set out in Art. VII 1. above is as follows:
 - a) At its own discretion and expense, Supplier can acquire the right of use for the relevant Deliveries, modify the Deliveries so that they no longer infringe the Property Rights, or replace them. If it is not possible for Supplier to reasonably do so, Purchaser is entitled to exercise its statutory rights of cancellation or price reduction.
 - b) Supplier's obligation to pay damages is governed by Art. XII.
 - c) The aforementioned obligations of Supplier are only applicable if Purchaser promptly notifies Supplier in writing of any claims filed by a third party, does not concede an infringement, and all defence measures and settlement negotiations remain reserved for Supplier. If Purchaser discontinues the use of the Deliveries on grounds of loss mitigation or for other good reason, it must notify the third party that the discontinuation of use does not constitute acknowledgement of an infringement of Property Rights.
2. Purchaser is not entitled to assert claims for any infringement of Property Rights for which Purchaser is responsible.
3. Nor is Purchaser entitled to assert claims if the infringement of Property Rights results from specifications made by the Purchaser, usage that Supplier could not have foreseen, or is caused by the Deliveries being modified by Purchaser or used in conjunction with products not provided by Supplier.
4. If Property Rights are infringed, the provisions of Art. VIII apply accordingly for Purchaser claims governed by 1 a) above.
5. In the event of other defects in title, the provisions of Art. VIII apply accordingly.
6. Any other claims or claims not provided for in this Art. IX asserted by Purchaser against Supplier and the latter's agents on grounds of defect of title are excluded.

Article IX: Conditional performance

1. Contract performance is conditional upon the absence of any hindrances under German, Swiss, US or any other applicable national, EU or international laws governing external trade, embargoes or any other sanctions.
2. Purchaser undertakes to provide all information and documentation necessary to enable export, shipment and import.

Article X: Impossibility of performance; contract amendments

1. If Deliveries prove to be impossible, Purchaser is entitled to claim damages unless Supplier is not responsible for the impossibility. However, Purchaser's entitlement to damages is limited to 10% of the value of the part of the Deliveries that cannot be put to its intended use due to the impossibility. This limitation does not apply in cases of unlawful intent or gross negligence on Supplier's part, but does apply to unlawful intent or gross negligence on the part of Supplier's agents.
2. The parties agree to amend the contract appropriately and in good faith if events as defined in Art. IV, 2 a) - c) above substantially alter the economic significance or content of the Deliveries, or considerably impact Supplier's business. If this is not economically viable, Supplier is entitled to withdraw from the contract. The same applies if the requisite export permits are not granted or cannot be used. If Supplier wishes to exercise its right of rescission, it must inform Purchaser immediately on learning the implications of the event concerned, even if an extension of the delivery period had initially been agreed with Purchaser.

Article XI: Returns of goods

1. The possibility of cancelling in full, or in part, the order is only given if case of agreement of the Supplier. In that case, we are entitled to invoice 30% of the order value in order to cover our costs. This applies only to standard products from our portfolio. In case of custom made products, we will invoice 100% of the order value.
2. Goods that have already been delivered may be returned – if at all – in a re-sellable condition and in their original packaging. Modified or custom products are not returnable.
3. In the event that we consent to the return, we will issue a return slip which must be included with the return. Standard and undamaged goods in original packaging will be credited at a maximum of 70% of the invoiced price. All reconditioning, freight and packaging costs must, moreover, be borne by the purchaser. Returns are always shipped at the risk of the customer returning the goods. No credit will be issued for goods returned without a written declaration of consent by RZB. Such goods may be disposed of at the sender's expense.

Article XII: Place of jurisdiction and applicable law

1. All disputes, differences in opinion or claims arising from or in connection with this contract, including the validity, invalidity, infringement or cancellation of the same, are subject to final settlement under the Rules of Arbitration of the International Chamber of Commerce (ICC). The Court of Arbitration must be composed of one or three arbitrators. If the Court is composed of three arbitrators, each party appoints one arbitrator, who must be confirmed by the ICC. These two arbitrators nominate the third arbitrator within thirty (30) days of their own appointment. If the two arbitrators are unable to agree on a third arbitrator within this period, the ICC will appoint the third arbitrator. The responsible Court of Arbitration is [Zurich] unless the parties agree on a different venue. Arbitration proceedings must be conducted in German.
2. This contract and its interpretation are subject to pertinent Swiss laws to the exclusion of the United Nations Convention on Contracts for the International Sale of Goods (CISG).

Article XIII: Contract validity

If individual provisions of this contract prove to be invalid, the remaining parts are nevertheless binding unless continuation of the contract would constitute undue hardship for one of the parties.



The application image shows:
Flat Slim

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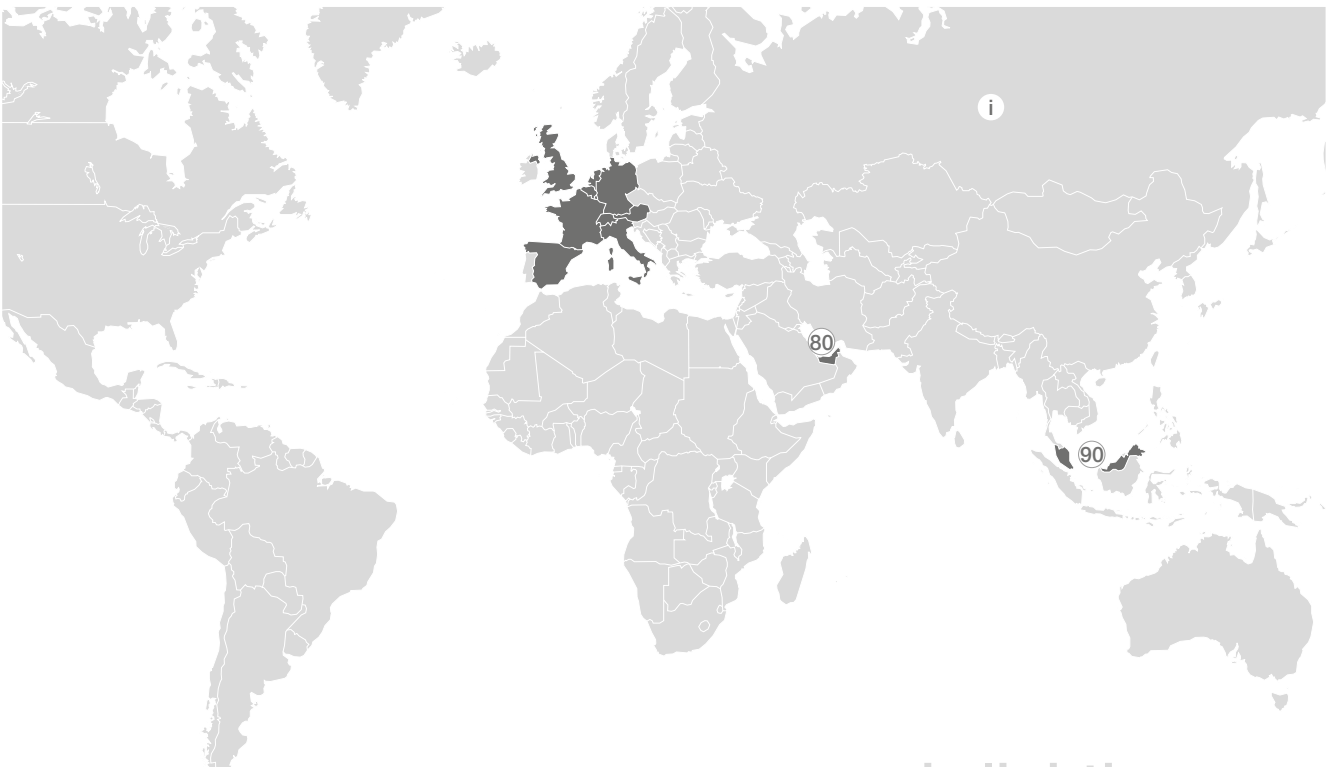
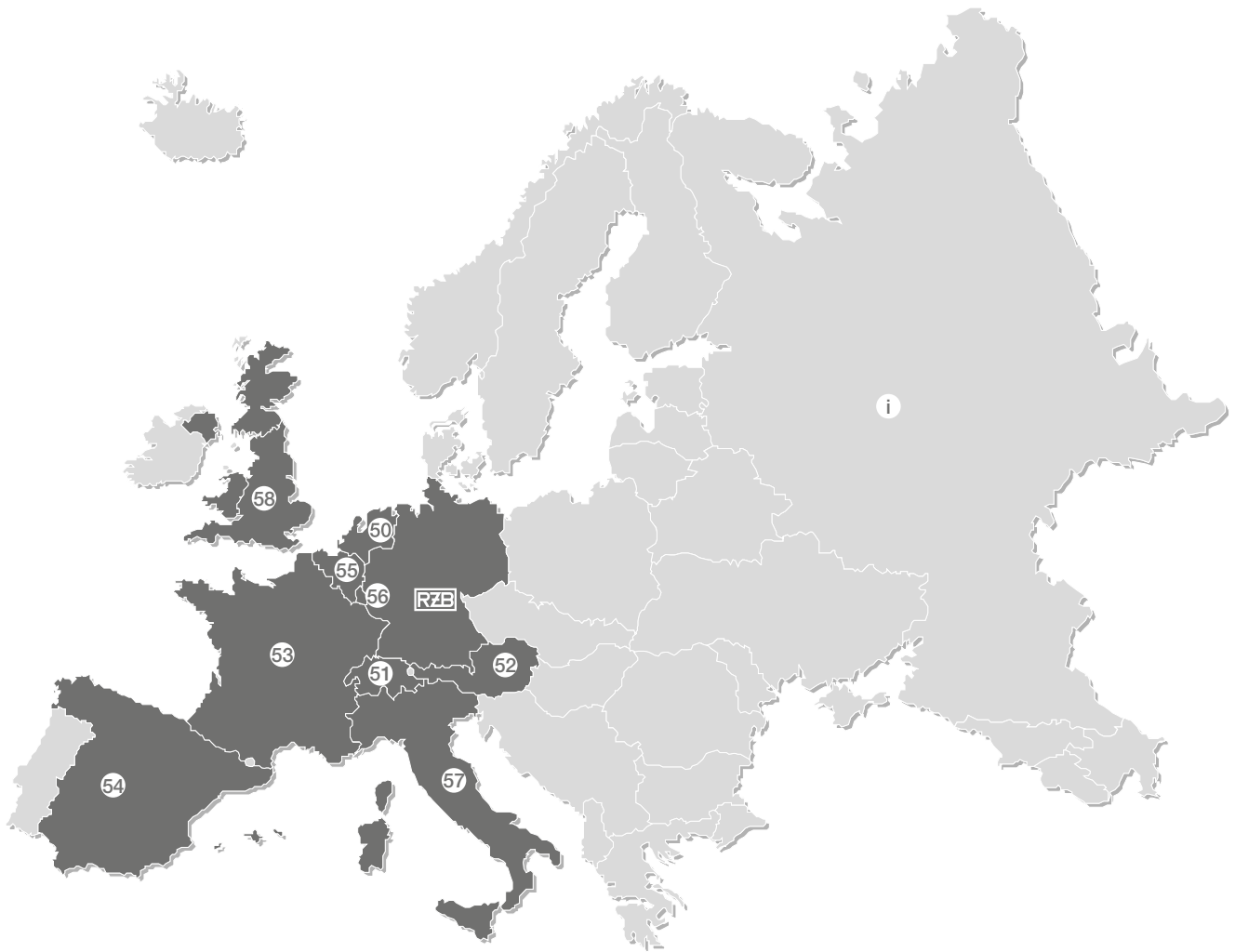
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