



MASTER TL-D 90 De Luxe

MASTER TL-D 90 De Luxe 18W/950 1SL

Fluorescent lamps with a diameter of 26 mm

Product data

• General Characteristics

Cap-Base	G13 [Medium Bi-Pin Fluorescent]
Bulb	T8 [26 mm]
Life to 50% failures EM	15000 hr
Life to 50% fail Preheat EL,3h	20000 hr
Life to 50% fail Nonpreh EL,3h	12000 hr
Life to 10% fail Nonpreh EL,3h	10000 hr
Life to 10% fail Preheat EL,3h	17000 hr
Life to 10% failures EM	12000 hr
LSF EM 12000h Rated,3h cycle	90 %
LSF EM 8000h Rated,3h cycle	95 %
LSF EM 6000h Rated,3h cycle	96 %
LSF EM 4000h Rated,3h cycle	97 %
LSF EM 2000h Rated,3h cycle	99 %

• Electrical Characteristics

Lamp Wattage	18 W
Dimmable	Yes
Lamp Current EM 25°C	0.360 A
Lamp Wattage EM 25°C, Rated	18.0 W
Lamp Wattage EM 25°C, Nominal	18 W

Lamp Voltage EM 25°C	59 V
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• Environmental Characteristics

Energy Efficiency Label (EEL)	B
Mercury (Hg) Content	5.0 mg

• Light Technical Characteristics

Color Code	950 [CCT of 5000K]
Color Rendering Index	92 Ra8
Color Designation (text)	Daylight
Color Temperature	5300 K
Chromaticity Coordinate X	340 -
Chromaticity Coordinate Y	352 -
Luminance Average EM	0.90 cd/cm2
Lum Efficacy Rated EM 25°C	63.9 Lm/W
LLMF EM 12000h Rated	90 %
LLMF EM 8000h Rated	93 %
LLMF EM 6000h Rated	94 %
LLMF EM 4000h Rated	95 %
LLMF EM 2000h Rated	96 %



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MASTER TL-D 90 De Luxe

Luminous Flux EM 25°C, Rated 1150 Lm
Luminous Flux EM 25°C, Nominal 1150 Lm
Design Temperature 25 C

• Product Dimensions

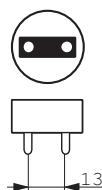
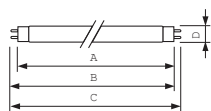
Base Face to Base Face A 589.8 (max) mm
Insertion Length B 594.5 (min), 596.9 (max) mm
Overall Length C 604 (max) mm
Diameter D 28 (max) mm

• Product Data

Order code 928043595081

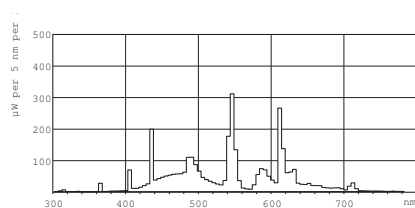
Full product code 928043595081
Full product name MASTER TL-D 90 De Luxe 18W/950 1SL
Order product name MASTER TL-D 90 De Luxe 18W/950 1SL/10
Pieces per pack 1
Packing configuration 10
Packs per outerbox 10
Bar code on pack - EAN1 8711500888433
Bar code on outerbox - EAN3 8711500888440
Logistic code(s) - 12NC 928043595081
ILCOS code FD-18/53/1A-E-G13
Net weight per piece 71.000 gr

Dimensional drawing

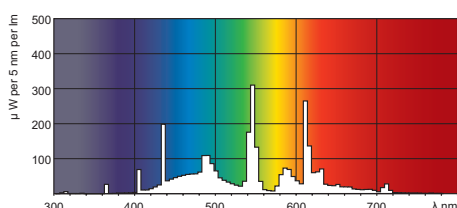


Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL-D 18W/950	589.8	594.5	596.9	604	28

Photometric data



Lightcolor TL-D de Luxe /950



Lightcolor TL-D de Luxe /950

Lamps being part of this product family comply with Commission Regulation (EC) No 245/2009 – Ecodesign requirements, applicable from 13 April 2010.

1.3 Product information requirements on lamps

- a) Nominal and rated lamp wattage;
 - b) Nominal and rated lamp luminous flux;
 - c) Rated lamp efficacy at 100 h in standard conditions (25 °C, for T5 lamps at 35 °C). For fluorescent lamps both at 50 Hz (mains frequency) operation (where applicable) and at High Frequency (> 50 Hz) operation (where applicable) for the same rated luminous flux in all cases, indicating for High Frequency operation the calibration current of the test conditions and/or the rated voltage of the HF generator with the resistance. It shall be stated in a conspicuous manner that the power dissipated by auxiliary equipment such as ballasts is not included in the power consumed by the source;
 - d) Rated lamp Lumen Maintenance Factor at 2000 h, 4000 h, 6000 h, 8000 h, 12000 h, 16000 h and 20000 h (up to 8000 h only for new lamps on the market where no data is yet available), indicating which operation mode of the lamp was used for the test if both 50 Hz and High Frequency operation are possible;
 - e) Rated lamp Survival Factor at 2000 h, 4000 h, 6000 h, 8000 h, 12000 h, 16000 h and 20000 h (up to 8000 h only for new lamps on the market where no data is yet available), indicating which operation mode of the lamp was used for the test if both 50 Hz and High Frequency operation are possible;
 - f) Lamp mercury content as X.X mg;
 - g) Colour Rendering Index (Ra) of the lamp;
 - h) Colour temperature of the lamp;
 - i) Ambient temperature inside the luminaire at which the lamp was designed to maximise its luminous flux. If this temperature is equal to or lower than 0 °C or equal to or higher than 50 °C it shall be stated that the lamp is not suitable for indoor use at standard room temperatures;
 - j) For fluorescent lamps without integrated ballast, the energy efficiency index(es) of ballasts as defined in Table 17 with which the lamp can operate.
- See Table 17-EuP245.pdf for Table 17 – Energy efficiency index requirements for non-dimmable ballasts for fluorescent lamps.
For more information see: <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:076:0017:0044:EN:PDF>



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data subject to change