



MASTER TL-D 90 Graphica

MASTER TL-D 90 Graphica 18W/965 1SL

This TL-D lamp has excellent color rendering which makes it very suitable for the graphical and printing industry to check the quality of printed material.

Product data

• General Characteristics

Cap-Base	G13 [Medium Bi-Pin Fluorescent]
Bulb	T8 [26 mm]
Life to 10% failures EM	12000 hr
Life to 10% fail Preheat EL,3h	17000 hr
Life to 10% fail Nonpreh EL,3h	10000 hr
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
LSF EM 2000h Rated, 3h cycle	99 %
LSF EM 4000h Rated, 3h cycle	99 %
LSF EM 6000h Rated, 3h cycle	99 %
LSF EM 8000h Rated, 3h cycle	99 %
LSF EM 12000h Rated,3h cycle	89 %
LSF EM 16000h Rated,3h cycle	33 %
LSF EM 20000h Rated,3h cycle	2 %

• Light Technical Characteristics

Color Code	965 [CCT of 6500K]
Color Rendering Index	98 Ra8
Color Designation (text)	Cool Daylight

Color Temperature	6500 K
Luminous Flux EM 25°C, Rated	930 Lm
Luminous Flux EM 25°C, Nominal	930 Lm
Lum Efficacy Rated EM 25°C	51.7 Lm/W
Luminance Average EM	0.80 cd/cm ²
LLMF EM 2000h Rated	93 %
LLMF EM 4000h Rated	90 %
LLMF EM 6000h Rated	88 %
LLMF EM 8000h Rated	85 %
LLMF EM 12000h Rated	82 %
LLMF EM 16000h Rated	80 %
LLMF EM 20000h Rated	78 %
Design Temperature	25 C
Chromaticity Coordinate X	309 -
Chromaticity Coordinate Y	323 -

• Electrical Characteristics

Lamp Wattage	18 W
Lamp Wattage EM 25°C, Nominal	18 W
Lamp Wattage EM 25°C, Rated	18.0 W



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Lamp Voltage EM 25°C	59 V
Lamp Current EM 25°C	0.360 A
Dimmable	Yes

• Environmental Characteristics

Energy Efficiency Label (EEL)	B
Mercury (Hg) Content	3.0 mg
Energy consumption kWh/1000h	22 kWh

• Product Dimensions

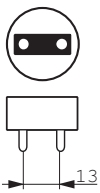
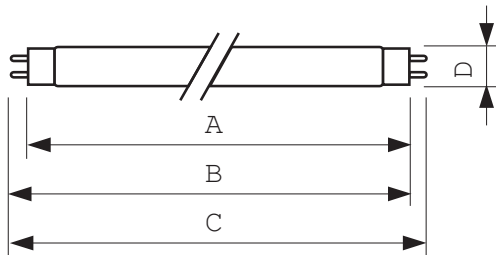
Base Face to Base Face A	589.8 (max) mm
Insertion Length B	594.5 (min), 596.9 (max) mm
Overall Length C	604 (max) mm

Diameter D 28 (max) mm

• Product Data

Order code	928043796581
Full product code	928043796581
Full product name	MASTER TL-D 90 Graphica 18W/965 1SL
Order product name	MASTER TL-D 90 Graphica 18W/965 1SL/10
Pieces per pack	1
Packing configuration	10
Packs per outerbox	10
Bar code on pack - EAN1	8711500888525
Bar code on outerbox - EAN3	8711500888532
Logistic code(s) - 12NC	928043796581
ILCOS code	FD-18/65/1A-E-G13
Net weight per piece	49.700 gr

Dimensional drawing

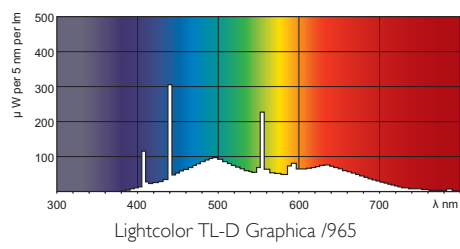
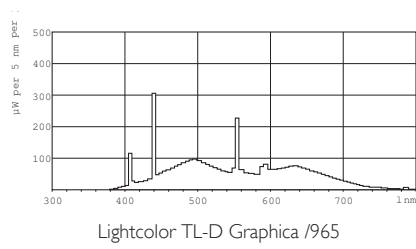


G13

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Product	A (Max)	B (Min)	B (Max)	C (Max)	D (Max)
TL-D Graphica 18W/965	589.8	594.5	596.9	604	28

Photometric data



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data subject to change