



MASTER TL-D Eco

MASTER TL-D Eco 16W/865 1SL

Low-pressure mercury discharge lamps with a tubular 26 mm envelope

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 | 16 W |
| Dimmable | yes |
| Lamp Current EM 25°C | 0.380 A |
| Lamp Wattage EM 25°C, Rated | 15.7 W |
| Lamp Wattage EM 25°C, Nominal | 16 W |

| | |
|----------------------|------|
| Lamp Voltage EM 25°C | 51 V |
|----------------------|------|

• Environmental Characteristics

| | |
|-------------------------------|--------|
| Energy Efficiency Label (EEL) | A |
| Mercury (Hg) Content | 2.0 mg |

• Light Technical Characteristics

| | |
|------------------------------|--------------------|
| Colour Code | 865 [CCT of 6500K] |
| Colour Rendering Index | 85 Ra8 |
| Colour Designation | Cool Daylight |
| Colour Temperature | 6500 K |
| Chromaticity Coordinate X | 314 - |
| Chromaticity Coordinate Y | 338 - |
| Luminous Flux Lamp EM 30°C | 1225 Lm |
| Lum Efficacy Rated EM 25°C | 72 Lm/W |
| LLMF EM 12000h Rated | 91 % |
| LLMF EM 8000h Rated | 93 % |
| LLMF EM 6000h Rated | 94 % |
| LLMF EM 4000h Rated | 95 % |
| LLMF EM 2000h Rated | 96 % |
| Luminous Flux EM 25°C, Rated | 1125 Lm |



asimpleswitch.com

PHILIPS

sense and simplicity

MASTER TL-D Eco

Luminous Flux EM 25°C, Nominal 1125 Lm
Design Temperature 30 C

• Product Dimensions

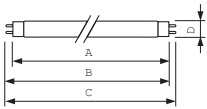
Base Face to Base Face A 589.8 (max) mm
Insertion Length B 594.5 (min), 596.9 (max) mm
Overall Length C 604.0 (max) mm
Diameter D 28 (max) mm

• Product Data

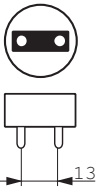
Order code 268716 40

Full product code 871150026871640
Full product name MASTER TL-D Eco 16W/865 1SL
Order product name MASTER TL-D Eco 16W/865 1SL/25
Pieces per pack 1
Packing configuration 25
Packs per outerbox 25
Bar code on pack - EAN1 8711500268716
Bar code on outerbox - EAN3 8711500268723
Logistic code(s) - 12NC 927922886515
ILCOS code FD-16/65/1B-E-G13-26/604
Net weight per piece 68.900 gr

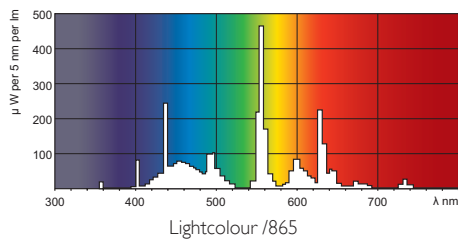
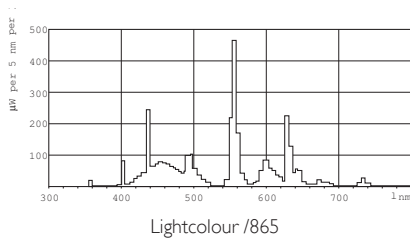
Dimensional drawing



| Product | A (Max) | B (Min) | B (Max) | C (Max) | D (Max) |
|------------------|---------|---------|---------|---------|---------|
| TL-D Eco 16W/865 | 589.8 | 594.5 | 596.9 | 604.0 | 28 |



Photometric data



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

- Nominal and rated lamp wattage;
- Nominal and rated lamp luminous flux;
- 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;
- 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;
- 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;
- Lamp mercury content as X.X mg;
- Colour Rendering Index (Ra) of the lamp;
- Colour temperature of the lamp;
- 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;
- 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>



© 2011 Koninklijke Philips Electronics N.V.
All rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips Electronics N.V. or their respective owners.

www.philips.com/lighting

2011, May 8
data subject to change