



MASTER TL5 High Output

MASTER TL5 HO 80W/865 1SL

Low-pressure mercury discharge lamps with a tubular 16 mm envelope

Product data

• General Characteristics

| | |
|----------------------|-------------|
| System Description | High Output |
| Cap-Base | G5 |
| Cap-Base Information | Green Plate |
| Bulb | T5 [16 mm] |
| Life to 50% fail | 24000 hr |
| Preheat EL,3h | |
| Life to 10% fail | 19000 hr |
| Preheat EL,3h | |
| LSF HF Preheat | 85 % |
| 20000h Rated,3h | |
| LSF HF Preheat | 95 % |
| 12000h Rated,3h | |
| LSF HF Preheat | 97 % |
| 8000h Rated,3h | |
| LSF HF Preheat | 98 % |
| 6000h Rated,3h | |
| LSF HF Preheat | 98 % |
| 4000h Rated,3h | |
| LSF HF Preheat | 99 % |
| 2000h Rated,3h | |
| LSF HF Preheat | 94 % |
| 16000h Rated,3h | |

• Electrical Characteristics

| | |
|-----------------|---------|
| Lamp Wattage | 80 W |
| Lamp Voltage EL | 151 V |
| 25°C | |
| Lamp Current EL | 0.540 A |
| 25°C | |
| Dimmable | yes |
| Lamp Wattage EL | 80.0 W |
| 35°C | |
| Lamp Current EL | 0.555 A |
| 35°C | |

| | |
|-----------------|--------|
| Lamp Voltage EL | 130 V |
| 35°C | |
| Lamp Wattage EL | 81.5 W |
| 25°C, Rated | |
| Lamp Wattage EL | 80 W |
| 25°C, Nominal | |

• Environmental Characteristics

| | |
|-------------------|--------|
| Energy Efficiency | B |
| Label (EEL) | |
| Mercury (Hg) | 1.4 mg |
| Content | |

• Light Technical Characteristics

| | |
|---------------------------|------------------------|
| Colour Code | 865 [CCT of 6500K] |
| Colour Rendering | 85 Ra8 |
| Index | |
| Colour Designation | Cool Daylight |
| Colour Temperature | 6500 K |
| Chromaticity Coordinate X | 316 - |
| Chromaticity Coordinate Y | 336 - |
| Luminous Flux Lamp | 6650 Lm |
| EL 35°C | |
| Luminance Average | 2.7 cd/cm ² |
| EL 25°C | |
| Lum Efficacy Rated | 77 Lm/W |
| HF 25°C | |
| Lum Efficacy Rated | 83 Lm/W |
| HF 35°C | |
| LLMF HF 20000h | 88 % |
| Rated | |
| LLMF HF 16000h | 90 % |
| Rated | |



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| | |
|--------------------------------|---------|
| LLMF HF 12000h Rated | 91 % |
| LLMF HF 8000h Rated | 93 % |
| LLMF HF 6000h Rated | 94 % |
| LLMF HF 4000h Rated | 95 % |
| LLMF HF 2000h Rated | 96 % |
| Luminous Flux EL 25°C, Rated | 6300 Lm |
| Luminous Flux EL 25°C, Nominal | 6300 Lm |
| Design Temperature | 35 C |

• Product Dimensions

| | |
|--------------------------|-------------------------------|
| Base Face to Base Face A | 1449.0 (max) mm |
| Insertion Length B | 1453.7 (min), 1456.1 (max) mm |
| Overall Length C | 1463.2 (max) mm |
| Diameter D | 17 (max) mm |

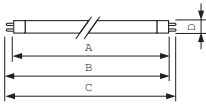
• Measuring Conditions

| | |
|----------------------------|---------|
| Calibration Current | 0.555 A |
| HF Generator Rated Voltage | 290 V |
| Resistor | 260 ohm |

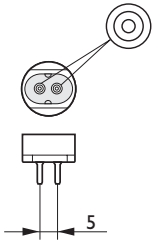
• Product Data

| | |
|-----------------------------|------------------------------|
| Order code | 710475 55 |
| Full product code | 871150071047555 |
| Full product name | MASTER TL5 HO 80W/865 1SL |
| Order product name | MASTER TL5 HO 80W/865 1SL/40 |
| Pieces per pack | 1 |
| Packing configuration | 40 |
| Packs per outerbox | 40 |
| Bar code on pack - EAN1 | 8711500710475 |
| Bar code on outerbox - EAN3 | 8711500868879 |
| Logistic code(s) - 12NC | 927929586557 |
| ILCOS code | FDH-80/65/1B-L/P-G5-16/1450 |
| Net weight per piece | 132.000 gr |

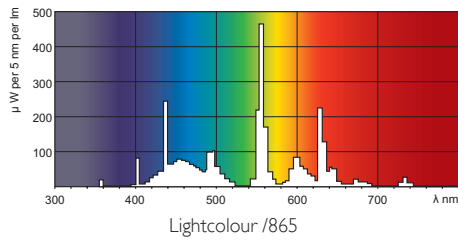
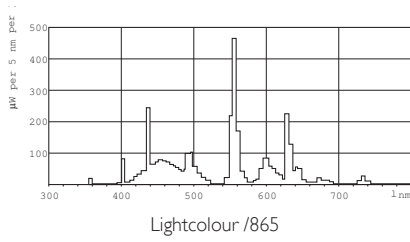
Dimensional drawing



| Product | A (Max) | B (Min) | B (Max) | C (Max) | D (Max) |
|----------------|---------|---------|---------|---------|---------|
| TL5 HO 80W/865 | 1449.0 | 1453.7 | 1456.1 | 1463.2 | 17 |



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>



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data subject to change