

PHILIPS MASTER TL5 High Output Lighting User Guide

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MASTER TL5 High Output MASTER TL5 HO 24W/840 1SL/40

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This TL5 lamp (tube diameter 16 mm) offers high light output. The TL5 HO lamp is optimized for installations requiring high light output and offers excellent lumen maintenance and color rendering. Application areas vary from offices and industry to schools and retail environments.

Warnings and Safety

• A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

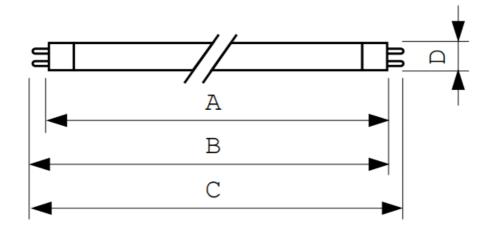
Product data

General information

| Cap base | G5 [G5] | | | | |
|--|---------------------------|--|--|--|--|
| Life to 50% failures preheat (nom.) | 30000 h | | | | |
| Features | na [Not Applicable] | | | | |
| System description | High Output (HO) | | | | |
| LSF preheat 2,000 hours rated | 99% | | | | |
| LSF preheat 4,000 hours rated | 99% | | | | |
| LSF preheat 6,000 hours rated | 99% | | | | |
| LSF preheat 8,000 hours rated | 99% | | | | |
| LSF preheat 16,000 hours rated | 97% | | | | |
| LSF preheat 20,000 hours rated | 84% | | | | |
| | Sphere | | | | |
| Light technical | | | | | |
| Colour Code | 841 [CCT of 4100K (841)] | | | | |
| Luminous flux (nom.) | 1700 lm | | | | |
| Luminous flux (rated) (nom.) | 1700 lm | | | | |
| Colour designation | Cool White (CW) | | | | |
| Luminous Efficacy (@ Max Lumen, Rated) (Nom) | 87 lm/W | | | | |
| Chromaticity coordinate X (nom.) | 0.38 | | | | |
| Chromaticity coordinate Y (nom.) | 0.38 | | | | |
| Correlated Colour Temperature (Nom) | 4000 K | | | | |
| Luminous efficacy (rated) (nom.) | 76 lm/W | | | | |
| Color rendering index (max.) | 85 | | | | |
| Colour-rendering index (min.) | 80 | | | | |
| Colour rendering index (nom.) | 82 | | | | |
| LLMF 2000 h Rated | 96% | | | | |
| LLMF 4000 h Rated | 95% | | | | |
| LLMF 6000 h Rated | 94% | | | | |
| LLMF 8000 h Rated | 93% | | | | |
| LLMF 12000 h Rated | 92% | | | | |
| LMF 16000 h Rated 91% | | | | | |
| | | | | | |

| Power (Rated) (Nom) 22.7 W | LLMF 20000 h Rated | 90% | | | | |
|--|---------------------------------------|------------------------------|--|--|--|--|
| Temperature Design temperature (nom.) 35 °C Controls and dimming Mechanical and housing Cap-base information Green Plate Bulb shape T5 [16 mm (T5)] Approval and application Energy Efficiency Class G Mercury (Hg) content (nom.) 1.2 mg Energy consumption kWh/1,000 hours 23 kWh Product data Full product code 8.7115E+14 Order product name MASTER TL5 HO 24W/840 SLV/40 EAN/UPC – product 8.7115E+12 Order code 6.3960855 SAP numerator – quantity per pack 1 Calculated local code description B2B 3816702 Numerator – packs per outer box 40 SAP material 9.2793E+11 Net Weight (Piece) 52.000 g | Operating and electrical | | | | | |
| Temperature Design temperature (nom.) 35 °C Controls and dimming Mechanical and housing Cap-base information Green Plate Bulb shape T5 [16 mm (T5)] Approval and application Energy Efficiency Class G Mercury (Hg) content (nom.) 1.2 mg Energy consumption kWh/1,000 hours 23 kWh 423555 Product data Full product code Order product name MASTER TL5 HO 24W/840 SLV/40 EAN/UPC – product 8.7115E+12 Order code 63960855 SAP numerator – quantity per pack 1 Calculated local code description B2B 3816702 Numerator – packs per outer box 40 SAP material 9.2793E+11 Net Weight (Piece) 52.000 g | Power (Rated) (Nom) | 22.7 W | | | | |
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| Calculated local code description B2B Numerator – packs per outer box SAP material Net Weight (Piece) 3816702 40 9.2793E+11 52.000 g | Order code | 63960855 | | | | |
| Numerator – packs per outer box SAP material 9.2793E+11 Net Weight (Piece) 52.000 g | SAP numerator – quantity per pack | 1 | | | | |
| SAP material 9.2793E+11 Net Weight (Piece) 52.000 g | Calculated local code description B2B | 3816702 | | | | |
| Net Weight (Piece) 52.000 g | Numerator – packs per outer box | 40 | | | | |
| | SAP material | 9.2793E+11 | | | | |
| ILCOS code FDH-24/40/1B-L/P-G5-16/550 | Net Weight (Piece) | 52.000 g | | | | |
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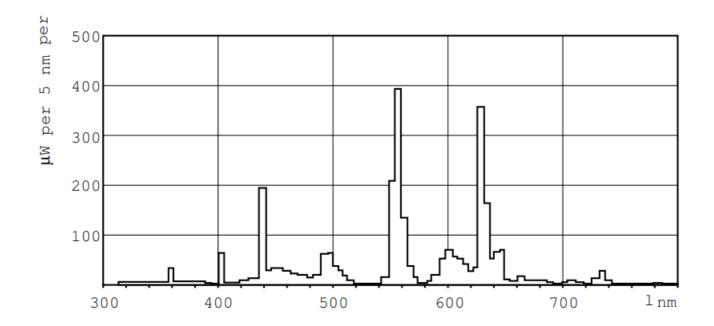
Dimensional drawing



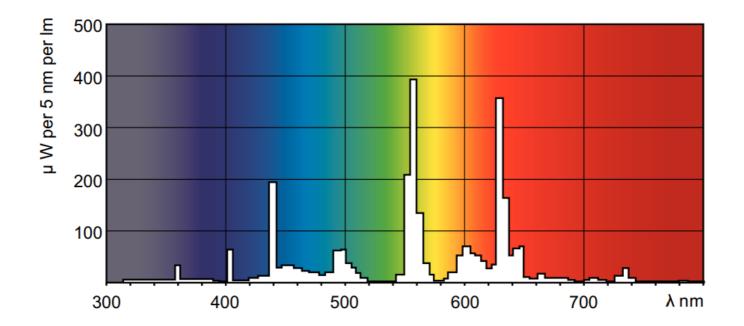
| Product | D (max) | A (max) | B (max) | B (min) | C (max) |
|----------------------------------|---------|----------|----------|----------|----------|
| MASTER TL5 HO 24W/840 S LV/40 | 17 mm | 549.0 mm | 556.1 mm | 553.7 mm | 563.2 mm |

MASTER TL5 HO 24W/840 SLV/40

Photometric data



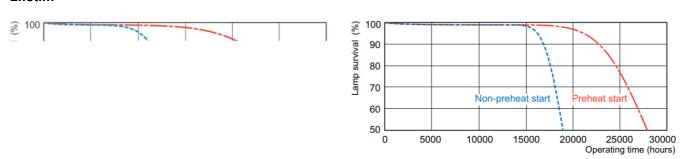
LDPB_TL5-HO8_840-Spectral power distribution B/W



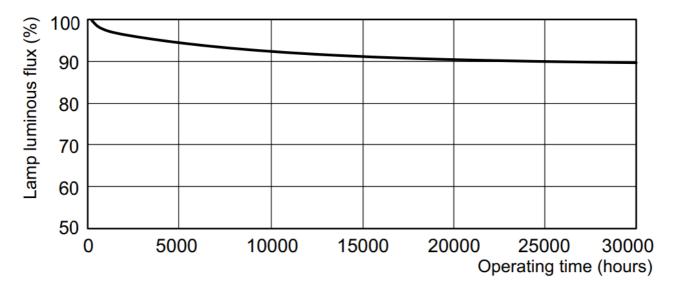
Lightcolour /840

MASTER TL5 High Output

Lifetim



LDLE_TL5-HO8_0001-Life expectancy diagram LDLE_TL5-HO8_0002-Life expectancy diagram



LDLM_TL5-HO8_0001-Lumen maintenance diagram

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2022, September 11 - data subject to change

Documents / Resources



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References

• 5 LED & Conventional lighting solutions | Philips lighting

Manuals+,