PHILIPS

Lighting

# MASTER LEDtube InstantFit HF T8

## MAS LEDtube HF 1500mm HO 20W840 T8

The Philips MASTER LEDtube integrates a LED light source into a traditional fluorescent form factor. Its unique design creates a perfectly uniform visual appearance which cannot be distinguished from traditional fluorescent. This product is the ideal solution for up lamping in general lighting applications.

### Warnings and Safety

- NOTES: The overall energy efficiency and light distribution of any installation that uses these lamps are determined by the design of the installation.

### Product data

| General Information | |
|---|---|
| **Cap-Base** | G13 ROT (Rotating) [Medium Bi-Pin Fluorescent] |
| **Nominal lifetime** | 60,000 hour(s) |
| **Switching Cycle** | 50,000 |
| **Lighting Technology** | LED |
| **Flux measurement reference** | Sphere |
| **CE mark** | Yes |
| **EU RoHS compliant** | Yes |

| Light Technical | |
|---|---|
| **Color Code** | 840 [CCT of 4000K] |
| **Beam Angle (Nom)** | 160 degree(s) |
| **Luminous Flux** | 3,100 lm |
| **Color Designation** | Cool White (CW) |
| **Correlated Color Temperature (Nom)** | 4000 K |
| **Luminous Efficacy (rated) (Nom)** | 155.00 lm/W |
| **Color Consistency** | <6 |
| **Color rendering index (CRI)** | 83 |
| **LLMF At End Of Nominal Lifetime (Nom)** | 70 % |

| Operating and Electrical | |
|---|---|
| **Line Frequency** | 20000-75000 Hz |
| **Input Frequency** | 20000-75000 Hz |
| **Power Consumption** | 20 W |
| **Lamp Current (Max)** | 750 mA |
| **Lamp Current (Min)** | 300 mA |
| **Starting Time (Nom)** | 0.5 s |
| **Warm-up time to 60% light** | 0.5 s |
| **Power Factor (Fraction)** | 0.9 |
| **Voltage (Nom)** | 30-80 V |

| Temperature | |
|---|---|
| **Ambient temperature range** | -20 °C to 45 °C |

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| | |
|---|---|
| **T-Case Maximum (Nom)** | 55 °C |

### Controls and Dimming

| | |
|---|---|
| **Dimmable** | No |

### Mechanical and Housing

| | |
|---|---|
| **Bulb Material** | Plastic |
| **Product Length** | 1,500 mm |
| **Bulb Shape** | T8 |

### Approval and Application

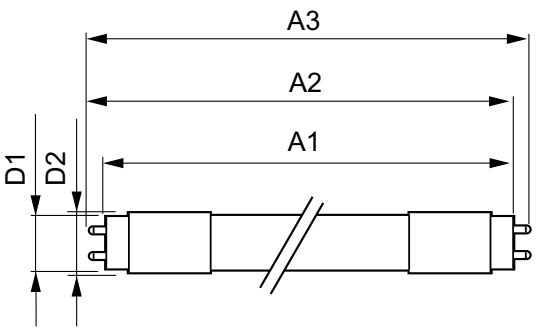
| | |
|---|---|
| **Energy Efficiency Class** | D |
| **Energy Saving Product** | Yes |
| **Approval Marks** | RoHS compliance TUV CE marking KEMA Keur certificate |

| | |
|---|---|
| **Energy Consumption kWh/1000 h** | 20 kWh |
| **EPREL Registration Number** | 387370 |

### Product Data

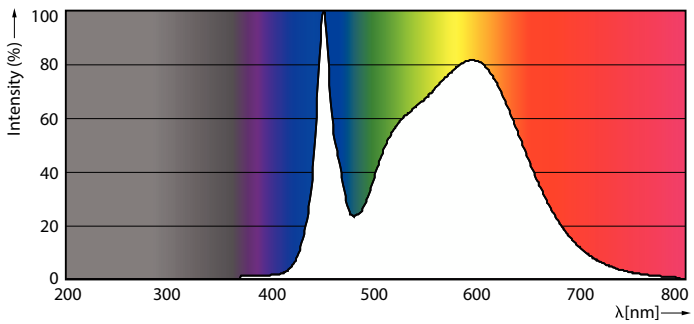
| | |
|---|---|
| **Order product name** | MAS LEDtube HF 1500mm HO 20W840 T8 |
| **Full product name** | MAS LEDtube HF 1500mm HO 20W840 T8 |
| **Full product code** | 871869668754300 |
| **Order code** | 929001284402 |
| **Material Nr. (12NC)** | 929001284402 |
| **Numerator - Quantity Per Pack** | 1 |
| **EAN/UPC - Product/Case** | 8718696687543 |
| **Numerator - Packs per outer box** | 10 |
| **EAN/UPC - Case** | 8718696687550 |

## Dimensional drawing

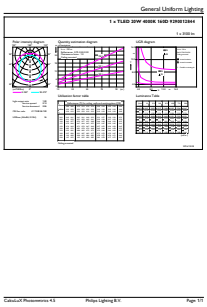



| Product | D1 | D2 | A1 | A2 | A3 |
|---|---|---|---|---|---|
| MAS LEDtube HF 1500mm HO 20W840 T8 | 25.6 mm | 28 mm | 1,498.7 mm | 1,505.8 mm | 1,512.9 mm |

## Photometric data




Spectral Power Distribution Colour - MAS LEDtube HF 1500mm HO 20W840 T8



General uniform lighting - MAS LEDtube HF 1500mm HO 20W840 T8

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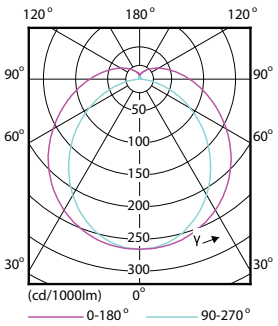
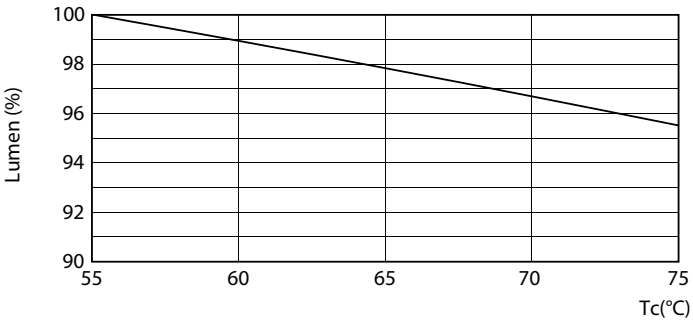
## Photometric data

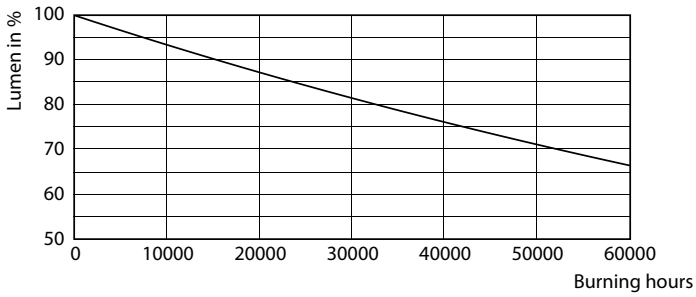



Light Distribution Diagram - MAS LEDtube HF 1500mm HO 20W840 T8

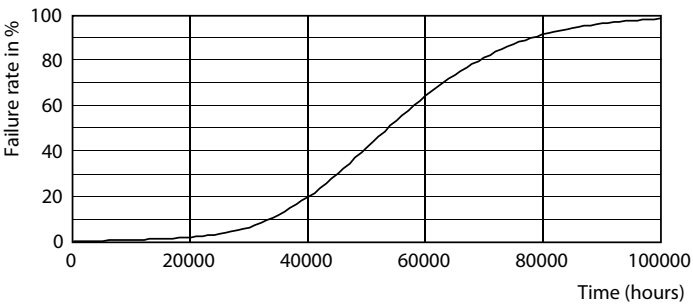
## Lifetime



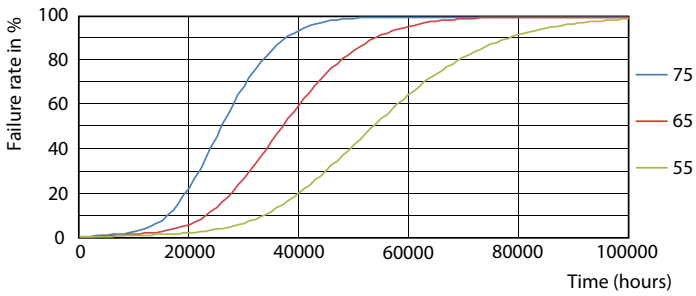

Lumen Maintenance Diagram - MAS LEDtube HF 1500mm HO 20W840 T8




Lumen Maintenance Diagram - MAS LEDtube HF 1500mm HO 20W840 T8




Life Expectancy Diagram - MAS LEDtube HF 1500mm HO 20W840 T8




Life Expectancy Diagram - MAS LEDtube HF 1500mm HO 20W840 T8

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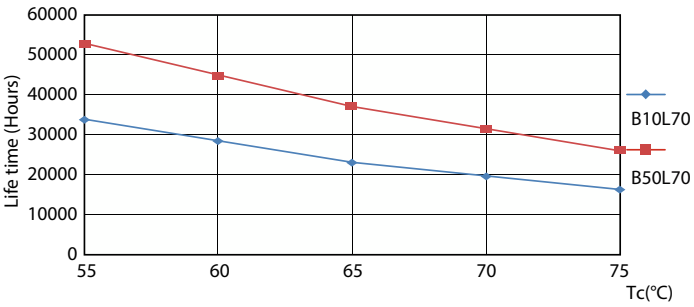
## Lifetime




**Life Expectancy Diagram - MAS LEDtube HF 1500mm HO 20W840 T8**

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