

# MASTER LEDtube EM/ Mains T8

## MAS LEDtube STD 1200mm 14W840 T8 I W

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. These T8 LED tubes are the right choice for absolute performance and are designed to stand up to everyday conditions. Unparalleled savings thanks to low energy consumption and an exceptionally long lifetime ensure this tube masters every demanding application.

### Warnings and Safety

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

### Product data

| General Information | |
|---|---|
| **Cap-Base** | G13 [Medium Bi-Pin Fluorescent] |
| **Nominal lifetime** | 50,000 hour(s) |
| **Switching Cycle** | 200,000 |
| **Lighting Technology** | LED |
| **EU RoHS compliant** | Yes |

| Light Technical | |
|---|---|
| **Color Code** | 840 [CCT of 4000K] |
| **Beam Angle (Nom)** | 160 degree(s) |
| **Luminous Flux** | 2,100 lm |
| **Color Designation** | Cool White (CW) |
| **Correlated Color Temperature (Nom)** | 4000 K |
| **Luminous Efficacy (rated) (Nom)** | 150.00 lm/W |
| **Color Consistency** | <6 |
| **Color rendering index (CRI)** | 80 |
| **LLMF At End Of Nominal Lifetime (Nom)** | 70 % |

| Operating and Electrical | |
|---|---|
| **Line Frequency** | 50 to 60 Hz |
| **Input Frequency** | 50 to 60 Hz |
| **Power Consumption** | 14 W |
| **Lamp Current (Max)** | 170 mA |
| **Lamp Current (Min)** | 50 mA |
| **Starting Time (Nom)** | 0.5 s |
| **Warm-up time to 60% light** | 0.5 s |
| **Power Factor (Fraction)** | 0.92 |

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| | |
|---|---|
| **Voltage (Nom)** | 100-277 V |

### Temperature

| | |
|---|---|
| **Ambient temperature range** | -20 °C to 45 °C |
| **T-Case Maximum (Nom)** | 55 °C |

### Controls and Dimming

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

### Mechanical and Housing

| | |
|---|---|
| **Bulb Finish** | Frosted |
| **Product Length** | 1,200 mm |
| **Bulb Shape** | T8 |

### Approval and Application

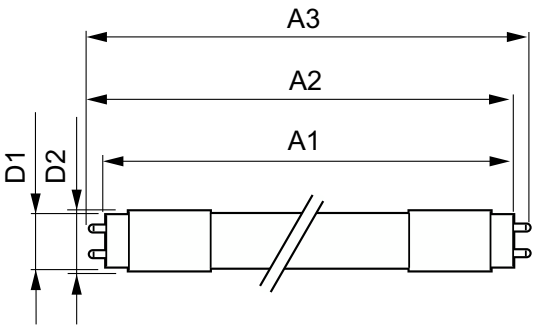
| | |
|---|---|
| **Energy Saving Product** | Yes |

| | |
|---|---|
| **Approval Marks** | RoHS compliance CE marking KEMA Keur certificate |
| **Energy Consumption kWh/1000 h** | 14 kWh |

### Product Data

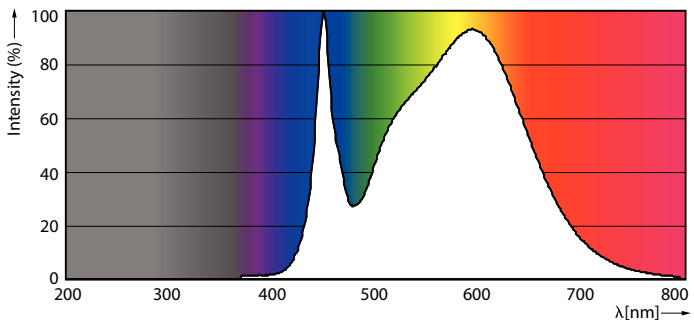
| | |
|---|---|
| **Order product name** | MAS LEDtube STD 1200mm 14W840 T8 I W |
| **Full product name** | MAS LEDtube STD 1200mm 14W840 T8 I W |
| **Order code** | 929001375442 |
| **Material Nr. (12NC)** | 929001375442 |
| **Numerator - Quantity Per Pack** | 1 |
| **EAN/UPC - Product/Case** | 046677554224 |
| **Numerator - Packs per outer box** | 25 |
| **EAN/UPC - Case** | 50046677554229 |

## Dimensional drawing

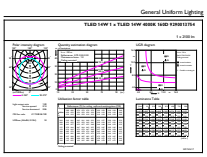



| Product | D1 | D2 | A1 | A2 | A3 |
|---|---|---|---|---|---|
| MAS LEDtube STD 1200mm 14W840 T8 I W | 25.7 mm | 28 mm | 1,198.2 mm | 1,205.3 mm | 1,212.4 mm |

## Photometric data



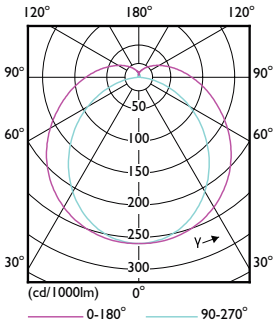

Spectral Power Distribution Colour - MAS LEDtube STD 1200mm 14W840 T8 I W



General uniform lighting - MAS LEDtube STD 1200mm 14W840 T8 I W

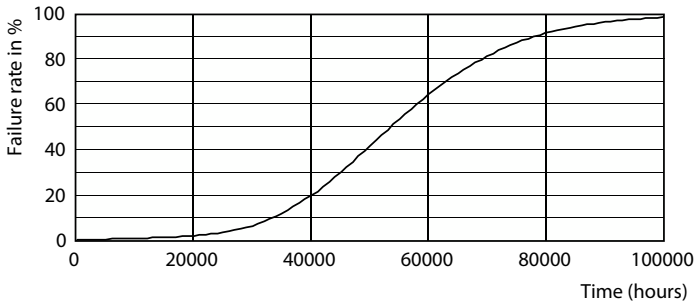
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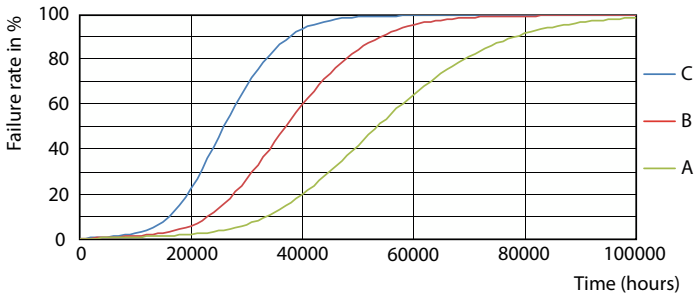



Light Distribution Diagram - MAS LEDtube STD 1200mm 14W840 T8 I W

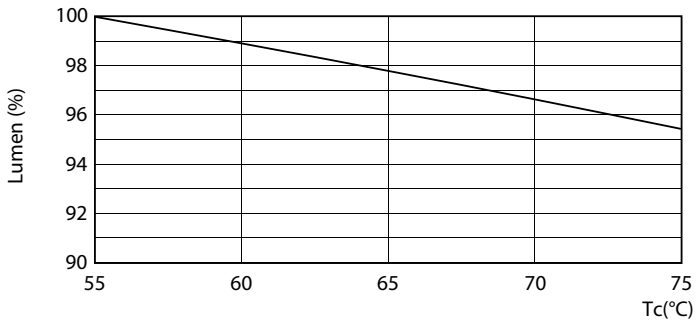
## Lifetime



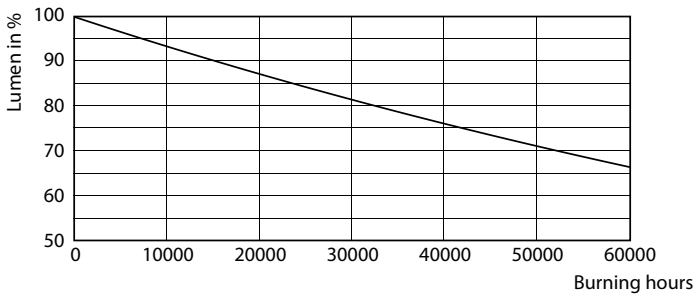

Life Expectancy Diagram - MAS LEDtube STD 1200mm 14W840 T8 I W




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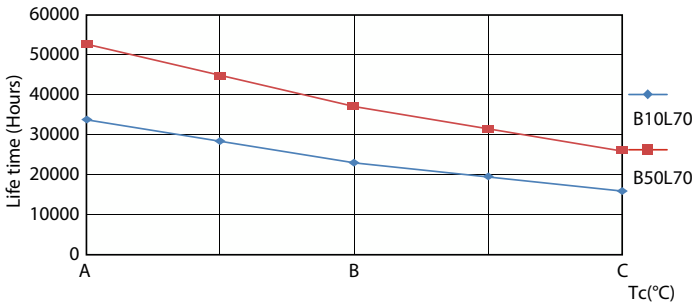

Lumen Maintenance Diagram - MAS LEDtube STD 1200mm 14W840 T8 I W




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## Lifetime




**Life Expectancy Diagram - MAS LEDtube STD 1200mm 14W840 T8 I W**

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