PHILIPS

Lighting




# MASTER LEDtube EM/ Mains T8

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## MASTER LEDtube 1500mm HO 18.2W 865 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. For those that are looking for value for money within limited budget and re-lamping efforts for better light effect and lifetime.

### Warnings and Safety

- -

### Product data

| General Information | |
|---|---|
| **Cap-Base** | G13 ROT |
| **Nominal lifetime** | 75,000 hour(s) |
| **Switching Cycle** | 200,000 |
| **Lighting Technology** | LED |
| **Flux measurement reference** | Sphere |
| **CE mark** | Yes |
| **EU RoHS compliant** | Yes |

| Light Technical | |
|---|---|
| **Color Code** | 865 [CCT of 6500K] |
| **Beam Angle (Nom)** | 160 degree(s) |
| **Luminous Flux** | 3,100 lm |
| **Color Designation** | Cool Daylight |
| **Correlated Color Temperature (Nom)** | 6500 K |
| **Luminous Efficacy (rated) (Nom)** | 170 lm/W |
| **Color Consistency** | <6 |
| **Color rendering index (CRI)** | 80 |
| **LLMF At End Of Nominal Lifetime (Nom)** | 70 % |
| **Flickering value (PstLM) - Flickering value as per EN 61000-3-3** | 0.5 |
| **Stroboscopic effect visibility measure (SVM)** | 0.2 |
| **Photobiological safety according to EN 62471** | RG0 |

| Operating and Electrical | |
|---|---|
| **Line Frequency** | 50 to 60 Hz |
| **Input Frequency** | 50 to 60 Hz |
| **Power Consumption** | 18.2 W |
| **Lamp Current (Max)** | 93 mA |
| **Lamp Current (Min)** | 77 mA |
| **Starting Time (Nom)** | 0.5 s |
| **Warm-up time to 60% light** | 0.5 s |
| **Power Factor (Fraction)** | 0.9 |
| **Voltage (Nom)** | 220-240 V |

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| | |
|---|---|
| **LED alternative to fluorescent lamp power** | 58 W |
| **Inrush current at mains** | 8.4 |
| **Max. lamp no. on MCB B type 10A - Mains** | 80 |
| **Max. lamp no. on MCB B type 10A – EM ballast without Comp. Cap.** | 80 |
| **Max. lamp no. on MCB B type 10A – EM ballast with Comp. Cap.** | 10 |
| **Max. lamp no. on MCB B type 16A - Mains** | 130 |
| **Max. lamp no. on MCB B type 16A – EM ballast without Comp. Cap.** | 135 |
| **Max. lamp no. on MCB B type 16A – EM ballast with Comp. Cap.** | 16 |
| **Ballast Compatibility** | EM/Mains |

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

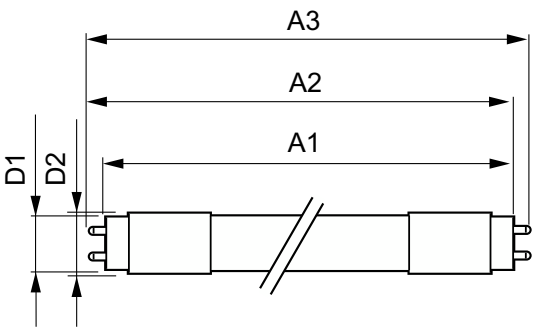
## Approval and Application

| | |
|---|---|
| **Energy Efficiency Class** | C |
| **Energy Saving Product** | Yes |
| **Approval Marks** | RoHS compliance TUV CE marking<br>KEMA Keur certificate |
| **Energy Consumption kWh/1000 h** | 19 kWh |
| **EPREL Registration Number** | 1206971 |

## Product Data

| | |
|---|---|
| **Order product name** | MAS LEDtube 1500mm HO 18.2W 865 T8 |
| **Full product name** | MASTER LEDtube 1500mm HO 18.2W 865 T8 |
| **Full product code** | 871869959245500 |
| **Order code** | 59245500 |
| **Material Nr. (12NC)** | 929001923102 |
| **Numerator - Quantity Per Pack** | 1 |
| **EAN/UPC - Product/Case** | 8718699592455 |
| **Numerator - Packs per outer box** | 10 |
| **EAN/UPC - Case** | 8718699592462 |

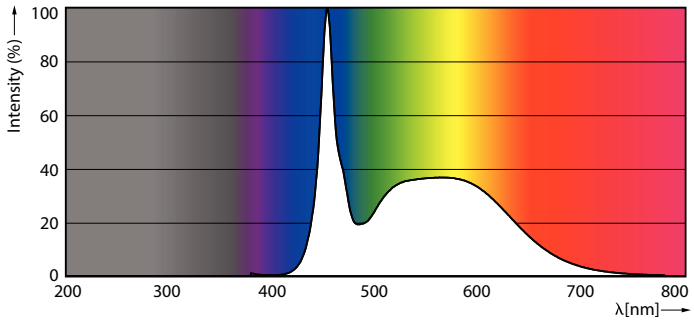
## Dimensional drawing



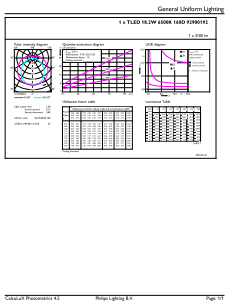

| Product | D1 | D2 | A1 | A2 | A3 |
|---|---|---|---|---|---|
| MAS LEDtube 1500mm HO 18.2W 865 T8 | 25.8 mm | 28 mm | 1,498.8 mm | 1,505.9 mm | 1,513 mm |

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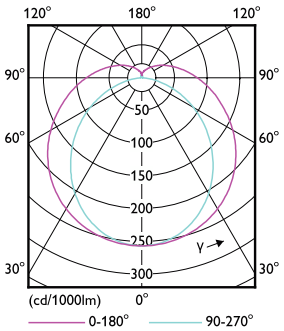
## Photometric data




Spectral Power Distribution Colour - MAS LEDtube 1500mm HO 18.2W 865 T8

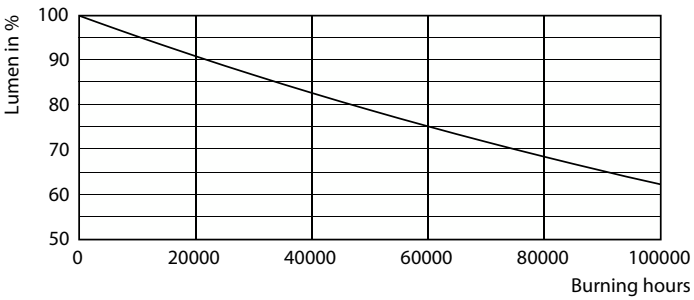


General uniform lighting - MAS LEDtube 1500mm HO 18.2W 865 T8

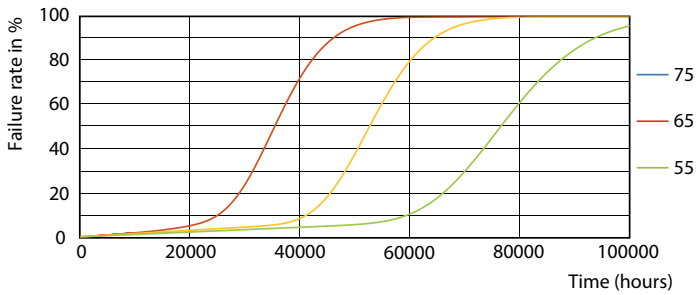



Light Distribution Diagram - MAS LEDtube 1500mm HO 18.2W 865 T8

## Lifetime



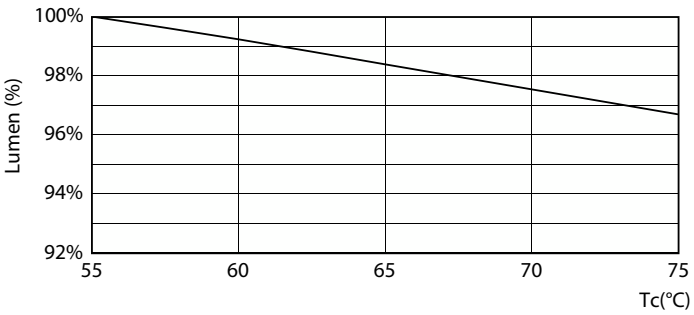

Lumen Maintenance Diagram - MAS LEDtube 1500mm HO 18.2W 865 T8



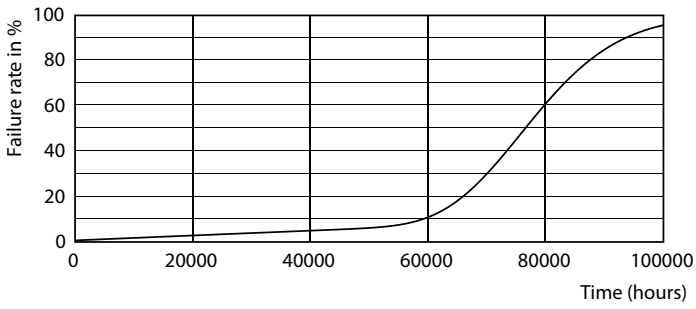

Life Expectancy Diagram - MAS LEDtube 1500mm HO 18.2W 865 T8

# MASTER LEDtube EM/Mains T8

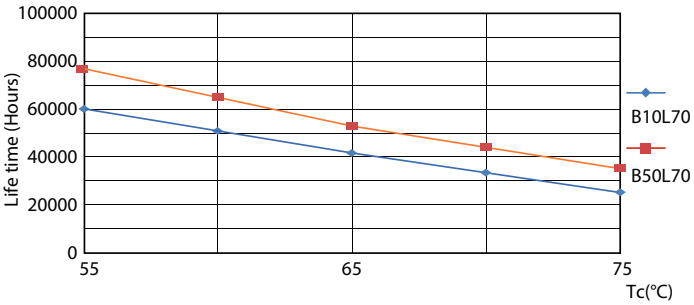
## Lifetime




Lumen Maintenance Diagram - MAS LEDtube 1500mm HO 18.2W 865 T8




Life Expectancy Diagram - MAS LEDtube 1500mm HO 18.2W 865 T8




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