



MASTER LEDtube EM/ Mains



MASTER LEDtube 1500mm HO 18.2W 840 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 lighting in general lighting applications.

Warnings and Safety

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Product data

| General Information | |
|--|--------------------|
| Cap base | G13 ROT |
| Nominal lifetime | 75,000 h |
| Switching Cycle | 200,000 |
| Lighting Technology | LED |
| Flux measurement reference | Sphere |
| Light Technical | |
| Colour Code | 840 [CCT of 4000K] |
| Beam angle (nom.) | 160 degree(s) |
| Luminous Flux | 3,100 lm |
| Colour designation | Cool White (CW) |
| Correlated Colour Temperature (Nom) | 4000 K |
| Luminous efficacy (rated) (nom.) | 170 lm/W |
| Colour consistency | <6 |
| Colour rendering index (CRI) | 80 |
| LLMF at end of nominal lifetime (nom.) | 70 % |

| 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 |
| 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 Compensation Capacitor. | 80 |

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|--|----------|
| Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor. | 10 |
| Max. lamp no. on MCB B type 16A – Mains | 130 |
| Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor. | 135 |
| Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor. | 16 |
| Ballast Compatibility | EM/Mains |

Temperature

| | |
|-----------------------|-------|
| T-Case maximum (nom.) | 55 °C |
|-----------------------|-------|

Controls and Dimming

| | |
|----------|----|
| Dimmable | No |
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Mechanical and Housing

| | |
|--------------------|----------|
| Lamp Finish | Frosted |
| Bulb material | Plastic |
| Product length | 1,500 mm |
| Bulb shape | T8 |
| Net Weight (Piece) | 0.285 kg |

Approval and Application

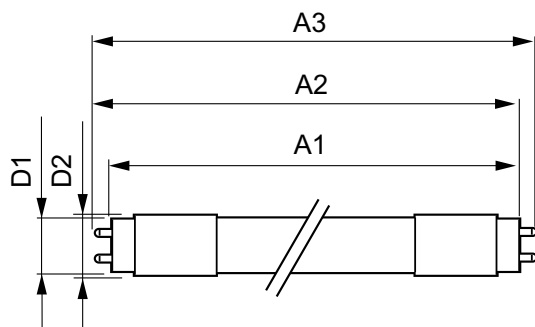
| | |
|-------------------------|-----|
| Energy Efficiency Class | C |
| Energy-saving product | Yes |

| | |
|------------------------------------|--|
| Approval marks | RoHS compliance CE marking KEMA Keur certificate ENEC certificate |
| Energy consumption kWh/1,000 hours | 19 kWh |
| EPREL Registration Number | 1206970 |
| CE mark | Yes |
| EU RoHS compliant | Yes |
| Flickering value (PstLM) | 0.5 |
| Stroboscopic effect | 0.2 |
| Ambient temperature range | -20°C to 45°C |

Product Data

| | |
|---------------------------------|--|
| Order product name | MAS LEDtube 1500mm HO 18.2W 840 T8 |
| Full product name | MASTER LEDtube 1500mm HO 18.2W 840 T8 |
| Full EOC | 871869959243100 |
| Order code | 59243100 |
| Material no. (12 NC) | 929001923002 |
| Numerator – quantity per pack | 1 |
| EAN/UPC – Product/Case | 8718699592431 |
| Numerator – packs per outer box | 10 |
| EAN/UPC – Case | 8718699592448 |

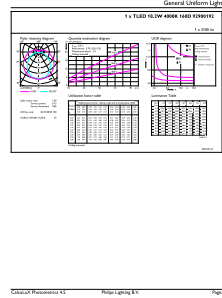
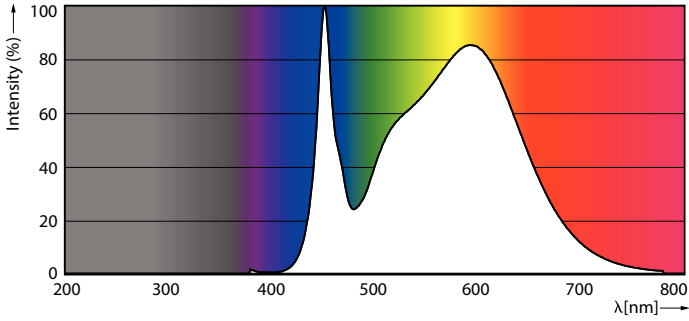
Dimensional drawing



| Product | D1 | D2 | A1 | A2 | A3 |
|---------------------------------------|---------|-------|------------|------------|----------|
| MAS LEDtube 1500mm HO 18.2W 840 T8 | 25.8 mm | 28 mm | 1,498.8 mm | 1,505.9 mm | 1,513 mm |

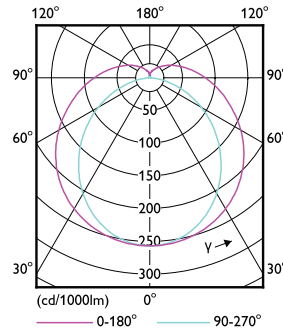
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Photometric data



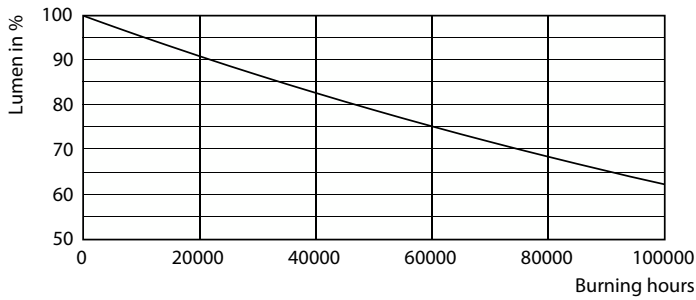
Spectral Power Distribution Colour - MAS LEDtube 1500mm HO 18.2W 840 T8

General uniform lighting - MAS LEDtube 1500mm HO 18.2W 840 T8

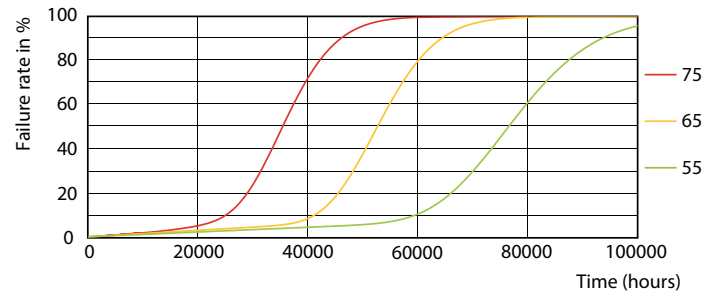


Light Distribution Diagram - MAS LEDtube 1500mm HO 18.2W 840 T8

Lifetime



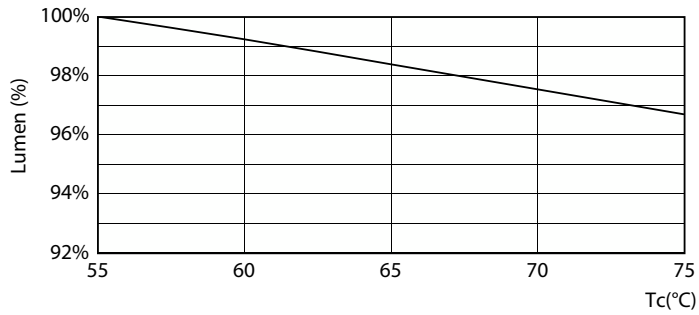
Lumen Maintenance Diagram - MAS LEDtube 1500mm HO 18.2W 840 T8



LEDtube-75K-5575-FailureRate-LED

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Lifetime



Lumen Maintenance Diagram - MAS LEDtube 1500mm HO 18.2W 840 T8

Life Expectancy Diagram



LifetimeVsTc

