



MASTER LED tube InstantFit HF T8

MAS LEDtube HF 1500mm HO 20W840 T8

MASTER, LEDtube, T8, HF, 1500 mm, 20 W, 58W TL-D, 4000 K, 3100 lm, CRI 80, 75000 hour(s)

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

- 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 | | Correlated Color Temperature (Nom) | |
|----------------------------|-----------------------|--|----------------|
| Cap-Base | G13 Rotatable end-cap | | 4000 K |
| Nominal lifetime | 75,000 hour(s) | Luminous Efficacy (rated) (Nom) | 155 lm/W |
| Switching Cycle | 50,000 | Color Consistency | <6 |
| Lighting Technology | LEDtube | Color rendering index (CRI) | 80 |
| Flux measurement reference | Sphere | LLMF At End Of Nominal Lifetime (Nom) | 70 % |
| Warranty period | 5 years | Photobiological safety according to EN 62471 | RG0 |
| Light Technical | | Operating and Electrical | |
| Color Code | 840 [CCT of 4000K] | Line Frequency | 20000-75000 Hz |
| Beam Angle (Nom) | 160 degree(s) | Input Frequency | 20000-75000 Hz |
| Luminous Flux | 3,100 lm | Power Consumption | 20 W |
| Color Designation | Cool White (CW) | Lamp Current (Max) | 750 mA |
| | | Lamp Current (Min) | 300 mA |

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| | |
|--|----------|
| 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 |
| LED alternative to fluorescent lamp power | 58W TL-D |
| Inrush current at mains | - |
| Max. lamp no. on MCB B type 10A - Mains | - |
| Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor. | - |
| Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor. | - |
| Max. lamp no. on MCB B type 16A - Mains | - |
| Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor. | - |
| Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor. | - |
| Ballast Compatibility | HF |

Temperature

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

Controls and Dimming

| | |
|----------|-----------------------------------|
| Dimmable | Yes - Check ballast compatibility |
|----------|-----------------------------------|

Mechanical and Housing

| | |
|--------------------|----------|
| Bulb Finish | Frosted |
| Bulb Material | Plastic |
| Product Length | 1,500 mm |
| Bulb Shape | T8 |
| Net Weight (Piece) | 0.280 kg |

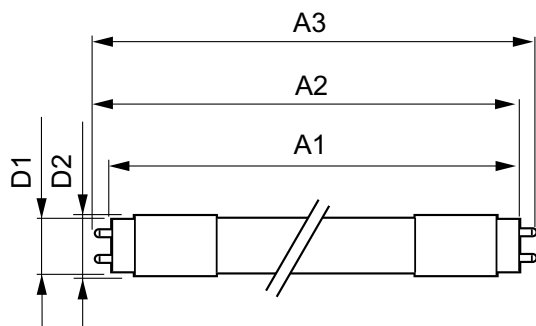
Approval and Application

| | |
|---|--|
| Energy Efficiency Class | D |
| Energy Saving Product | Yes |
| Approval Marks | RoHS compliance CE marking KEMA Keur certificate ENEC certificate |
| Energy Consumption kWh/1000 h | 20 kWh |
| EPREL Registration Number | 1165505 |
| CE mark | Yes |
| EU RoHS compliant | Yes |
| Flickering value (PstLM) - Flickering value as per EN 61000-3-3 | 0.5 |
| Stroboscopic effect visibility measure (SVM) | 0.2 |
| Ambient temperature range | -20 °C to 45 °C |

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 | 871951446690600 |
| Order code | 929003553802 |
| Material Nr. (12NC) | 929003553802 |
| Numerator - Quantity Per Pack | 1 |
| EAN/UPC - Product/Case | 8719514466906 |
| Numerator - Packs per outer box | 20 |
| EAN/UPC - Case | 8719514466913 |

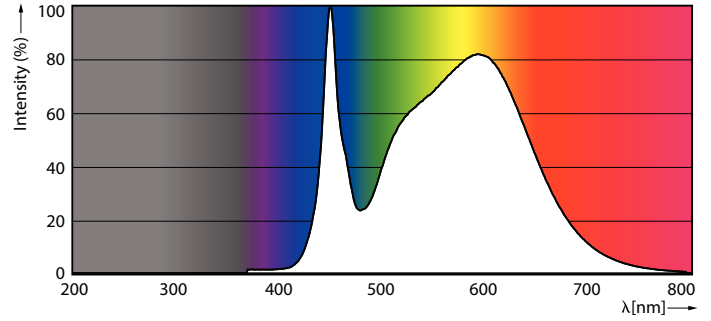
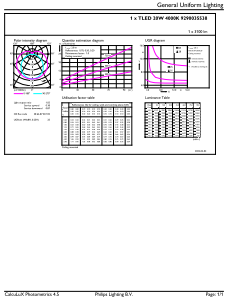
Dimensional drawing



| Product | D1 | D2 | A1 | A2 | A3 |
|---------------------------------------|---------|-------|------------|------------|----------|
| MAS LEDtube HF 1500mm HO 20W840 T8 | 25.8 mm | 28 mm | 1,498.8 mm | 1,505.9 mm | 1,513 mm |

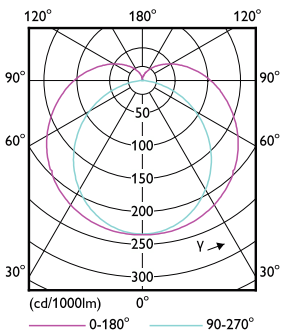
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Photometric data



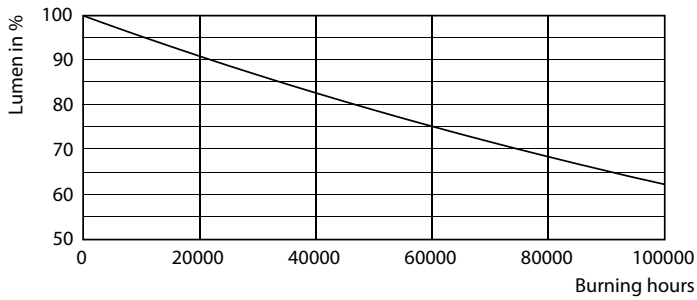
General uniform lighting - MAS LEDtube HF 1500mm HO 20W840 T8

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

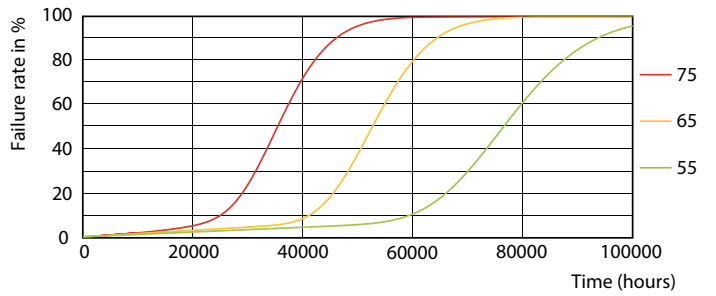


Light Distribution Diagram - MAS LEDtube HF 1500mm HO 20W840 T8

Lifetime



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



LEDtube-75K-5575-FailureRate-LED

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Lifetime



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

Life Expectancy Diagram



LifetimeVsTc

