



For top performance and sustainability

MASTER LEDtube EM/Mains T8

The Philips MASTER LEDtube integrates an LED light source into a traditional fluorescent form factor. Its unique design creates a perfectly uniform visual appearance, which cannot be distinguished from traditional fluorescents. 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 that this tube masters every demanding application.

Benefits

- Absolute performance that provides a solution for every application
- Unparalleled savings with low energy consumption and long lifetime
- Robust and reliable: stands up to everyday conditions

Features

- Retrofit existing T8 lamps on EM ballast or mains
- > 50% energy savings compared to fluorescent tubes with up to 185 lm/W
- Extra-long life up to 75,000 hours
- Shatterproof, passing drop test horizontally from a height of 4m on to a flat concrete according to IEC 61549.
- Enable easy implementation of HACCP without need for additional guard, supported by product level NSF certificate
- 160° small beam angle to ensure higher flux where needed
- No mercury

Application

- Open/covered car parks
- Warehouses/cold rooms/signage
- Transport and distribution areas
- Food & Museums

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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.

Versions

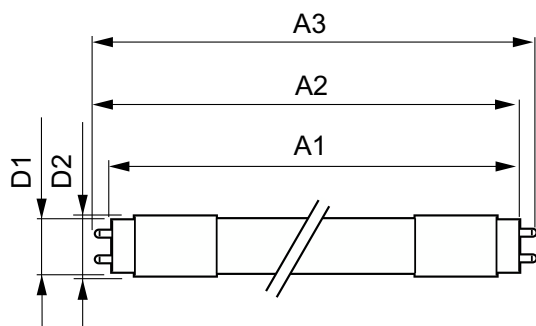


LEDtubes, 600mm 8.5W, 900mm
10.5W, 1200mm 12W, 1200mm 15W



LEDtube 1200mm HO T8

Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm UO 14.7W 840 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1500mm UO 21.7W 840 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 600mm HO 7.6W865 T8	25.8 mm	28 mm	588.5 mm	595.5 mm	602.5 mm
MAS LEDtube 900mm HO 12W 840 T8	25.78 mm	28 mm	893.3 mm	900.4 mm	907.5 mm

General Information

Cap base	G13 ROT
Switching Cycle	200,000
Nominal lifetime	75,000 h

Light Technical

Beam angle (nom.)	160 degree(s)
Colour rendering index (CRI)	80
LLMF at end of nominal lifetime (nom.)	70 %

Operating and Electrical

Input frequency	50 to 60 Hz
Starting time (nom.)	0.5 s

Controls and Dimming

Dimmable	No
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Mechanical and Housing

Lamp Finish	Frosted
Bulb shape	T8

Light Technical

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour Code	Luminous Flux
929001298402	MAS LEDtube 900mm HO 12W 840 T8	4000 K	840	1,575 lm
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	4000 K	840	2,500 lm
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	4000 K	840	3,700 lm
929004260402	MAS LEDtube 600mm HO 7.6W865 T8	6500 K	865	1,150 lm

Operating and Electrical

Order Code	Full Product Name	Line Frequency	Power Consumption
929001298402	MAS LEDtube 900mm HO 12W 840 T8	50 to 60 Hz	12 W
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	50 to 60 Hz	14.7 W

Order Code	Full Product Name	Line Frequency	Power Consumption
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	50 to 60 Hz	21.7 W
929004260402	MAS LEDtube 600mm HO 7.6W865 T8	-	7.6 W

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Temperature

Order Code	Full Product Name	T-Case maximum (nom.)
929001298402	MAS LEDtube 900mm HO 12W 840 T8	50 °C
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	55 °C

Order Code	Full Product Name	T-Case maximum (nom.)
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	60 °C
929004260402	MAS LEDtube 600mm HO 7.6W865 T8	50 °C

Approval and Application

Order Code	Full Product Name	Ambient temperature range	Energy consumption kWh/ 1,000 hours
929001298402	MAS LEDtube 900mm HO 12W 840 T8	-20°C to 45°C	12 kWh
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	-20°C to 45°C	15 kWh
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	-20°C to 45°C	22 kWh
929004260402	MAS LEDtube 600mm HO 7.6W865 T8	-20 to +45 °C	8 kWh

