

The new generation of energy saving tube lighting

MASTER LEDtube InstantFit HF 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.

Benefits

- Reduced operational cost thanks to lower energy consumption
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- Lower maintenance cost thanks to 2-3 times longer lifetime than normal fluorescent tubes
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- Fastest and easiest way to upgrade existing luminaire to LED technology; 100%-safe installation process
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Features

- Only 50% energy consumption compared to fluorescent tubes
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- Extra-long life of 50,000 hours
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- Retrofit to existing T8 lamps on HF ballast installations
- Retrofit to existing T8 lamps on EM ballast installations
- No mercury
- Full safety features and EM Protector safety device
- No mercury

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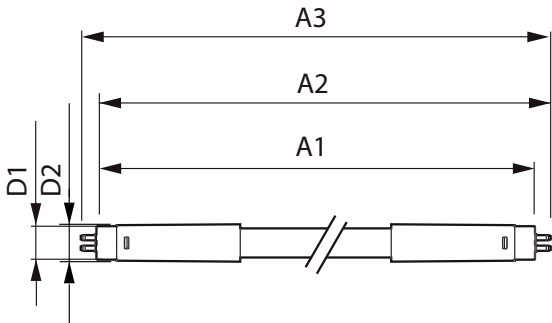
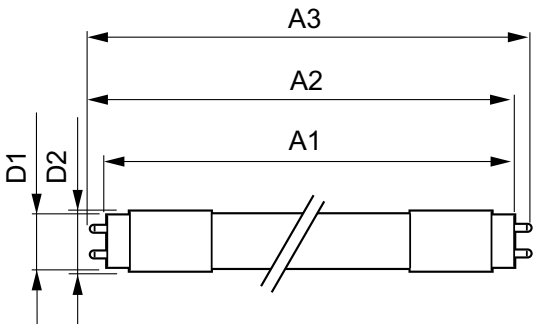
Application

- Parking lots / covered car parks
- Warehouses / coldrooms / signage
- Transport and distribution areas

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.

Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube HF 1200mm HO 14W840 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube HF 1200mm HO 14W865 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube HF 1200mm UO 16W840 T8	25.6 mm	28 mm	1,198.1 mm	1,205.2 mm	1,212.3 mm
MAS LEDtube HF 1500mm HO 20W840 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube HF 1500mm HO 20W865 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube HF 1500mm UO 24W840 T8	25.6 mm	28 mm	1,498.7 mm	1,505.8 mm	1,512.9 mm

Product	D1	D2	A1	A2	A3
MAS LEDtube HF 600mm HO 8W840 T8	25.8 mm	28 mm	588.6 mm	595.7 mm	602.8 mm
MAS LEDtube HF 600mm HO 8W865 T8	25.8 mm	28 mm	588.6 mm	595.7 mm	602.8 mm

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General Information	
Cap-Base	G13 ROT
Switching Cycle	50,000
Light Technical	
Beam Angle (Nom)	160 degree(s)
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Starting Time (Nom)	0.5 s
Temperature	
Ambient temperature range	-20 °C to 45 °C
T-Case Maximum (Nom)	55 °C
Mechanical and Housing	
Bulb Shape	T8

General Information

Order Code	Full Product Name	Nominal lifetime
929001300002	MAS LEDtube HF 1200mm UO 16W840 T8	60,000 hour(s)
929001300302	MAS LEDtube HF 1500mm UO 24W840 T8	60,000 hour(s)
929003553502	MAS LEDtube HF 1200mm HO 14W840 T8	75,000 hour(s)
929003553602	MAS LEDtube HF 1200mm HO 14W865 T8	75,000 hour(s)
929003553802	MAS LEDtube HF 1500mm HO 20W840 T8	75,000 hour(s)
929003553902	MAS LEDtube HF 1500mm HO 20W865 T8	75,000 hour(s)
929001393232	MAS LEDtube HF 600mm HO 8W840 T8	75,000 hour(s)
929001393332	MAS LEDtube HF 600mm HO 8W865 T8	75,000 hour(s)

Light Technical

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
929001300002	MAS LEDtube HF 1200mm UO 16W840 T8	4000 K	83	840	2,500 lm
929001300302	MAS LEDtube HF 1500mm UO 24W840 T8	4000 K	83	840	3,700 lm
929003553502	MAS LEDtube HF 1200mm HO 14W840 T8	4000 K	80	840	2,100 lm
929003553602	MAS LEDtube HF 1200mm HO 14W865 T8	6500 K	80	865	2,100 lm

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
929003553802	MAS LEDtube HF 1500mm HO 20W840 T8	4000 K	80	840	3,100 lm
929003553902	MAS LEDtube HF 1500mm HO 20W865 T8	6500 K	80	865	3,100 lm
929001393232	MAS LEDtube HF 600mm HO 8W840 T8	4000 K	80	840	1,050 lm
929001393332	MAS LEDtube HF 600mm HO 8W865 T8	6500 K	80	865	1,050 lm

Operating and Electrical

Order Code	Full Product Name	Power		
		Input Frequency	Line Frequency	Consumption
929001300002	MAS LEDtube HF 1200mm UO 16W840 T8	20000-75000 Hz	20000-75000 Hz	16 W
929001300302	MAS LEDtube HF 1500mm UO 24W840 T8	20000-75000 Hz	20000-75000 Hz	24 W
929003553502	MAS LEDtube HF 1200mm HO 14W840 T8	20000-75000 Hz	20000-75000 Hz	14 W

Order Code	Full Product Name	Power		
		Input Frequency	Line Frequency	Consumption
929003553602	MAS LEDtube HF 1200mm HO 14W865 T8	20000-75000 Hz	20000-75000 Hz	14 W
929003553802	MAS LEDtube HF 1500mm HO 20W840 T8	20000-75000 Hz	20000-75000 Hz	20 W
929003553902	MAS LEDtube HF 1500mm HO 20W865 T8	20000-75000 Hz	20000-75000 Hz	20 W

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Full Product				Power
Order Code	Name	Input Frequency	Line Frequency	Consumption
929001393232	MAS LEDtube HF 600mm HO 8W840 T8	20000-120000 Hz	20000-120000 Hz	8 W

Controls and Dimming

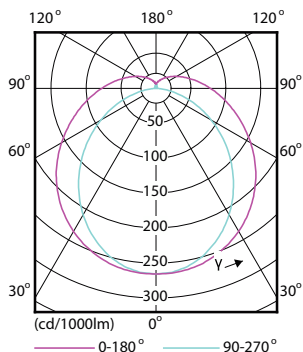
Order Code	Full Product Name	Dimmable
929001300002	MAS LEDtube HF 1200mm UO 16W840 T8	No
929001300302	MAS LEDtube HF 1500mm UO 24W840 T8	No
929003553502	MAS LEDtube HF 1200mm HO 14W840 T8	Yes - Check ballast compatibility
929003553602	MAS LEDtube HF 1200mm HO 14W865 T8	Yes - Check ballast compatibility

Mechanical and Housing

Order Code	Full Product Name	Bulb Finish
929001300002	MAS LEDtube HF 1200mm UO 16W840 T8	-
929001300302	MAS LEDtube HF 1500mm UO 24W840 T8	-
929003553502	MAS LEDtube HF 1200mm HO 14W840 T8	Frosted
929003553602	MAS LEDtube HF 1200mm HO 14W865 T8	Frosted

Approval and Application

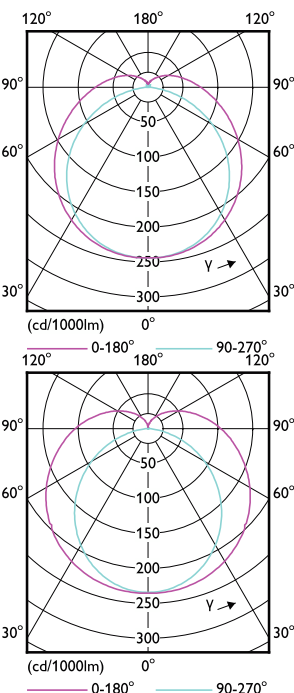
Order Code	Full Product Name	Energy Consumption kWh/1000 h
929001300002	MAS LEDtube HF 1200mm UO 16W840 T8	16 kWh
929001300302	MAS LEDtube HF 1500mm UO 24W840 T8	24 kWh
929003553502	MAS LEDtube HF 1200mm HO 14W840 T8	14 kWh
929003553602	MAS LEDtube HF 1200mm HO 14W865 T8	14 kWh
929003553802	MAS LEDtube HF 1500mm HO 20W840 T8	20 kWh
929003553902	MAS LEDtube HF 1500mm HO 20W865 T8	20 kWh
929001393232	MAS LEDtube HF 600mm HO 8W840 T8	8 kWh
929001393332	MAS LEDtube HF 600mm HO 8W865 T8	8 kWh



Full Product				Power
Order Code	Name	Input Frequency	Line Frequency	Consumption
929001393332	MAS LEDtube HF 600mm HO 8W865 T8	20000-120000 Hz	20000-120000 Hz	8 W

Order Code	Full Product Name	Dimmable
929003553802	MAS LEDtube HF 1500mm HO 20W840 T8	Yes - Check ballast compatibility
929003553902	MAS LEDtube HF 1500mm HO 20W865 T8	Yes - Check ballast compatibility
929001393232	MAS LEDtube HF 600mm HO 8W840 T8	No
929001393332	MAS LEDtube HF 600mm HO 8W865 T8	No

Order Code	Full Product Name	Bulb Finish
929003553802	MAS LEDtube HF 1500mm HO 20W840 T8	Frosted
929003553902	MAS LEDtube HF 1500mm HO 20W865 T8	Frosted
929001393232	MAS LEDtube HF 600mm HO 8W840 T8	Frosted
929001393332	MAS LEDtube HF 600mm HO 8W865 T8	Frosted



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