

The new generation of energy saving tube lighting

MASTER LEDtube InstantFit HF

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

Features

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

Application

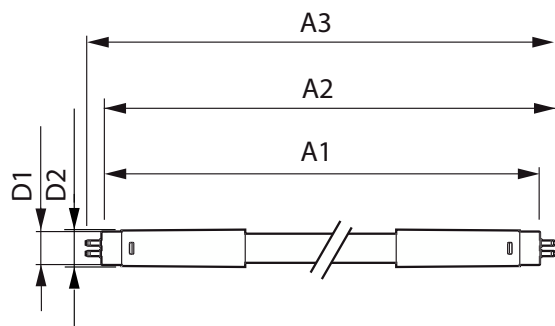
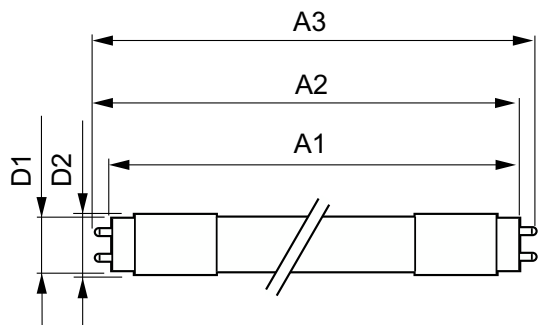
- Parking lots / covered car parks
- Warehouses / coldrooms / signage
- Transport and distribution areas

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.

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Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube HF 1200mm HO 14W830 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
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 1500mm HO 20W830 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 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	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm

Product	D1	D2	A1	A2	A3
MAS LEDtube HF 600mm HO 8W830 T8	25.8 mm	28 mm	588.6 mm	595.7 mm	602.8 mm
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

General Information

Cap base	G13 ROT
Switching Cycle	50,000
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

Starting time (nom.)	0.5 s
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Temperature

T-Case maximum (nom.)	55 °C
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Mechanical and Housing

Lamp Finish	Frosted
Bulb shape	T8

Approval and Application

Ambient temperature range	-20°C to 45°C
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Light Technical

Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour Code	Luminous Flux
46688300	MASTER LEDtube HF 1200mm HO 14W830 T8	3000 K	830	2,000 lm
46684500	MASTER LEDtube HF 1200mm HO 14W840 T8	4000 K	840	2,100 lm
46686900	MASTER LEDtube HF 1200mm HO 14W865 T8	6500 K	865	2,100 lm
46694400	MASTER LEDtube HF 1500mm HO 20W830 T8	3000 K	830	2,900 lm
46690600	MASTER LEDtube HF 1500mm HO 20W840 T8	4000 K	840	3,100 lm
46692000	MASTER LEDtube HF 1500mm HO 20W865 T8	6500 K	865	3,100 lm
46702600	MASTER LEDtube HF 1500mm UO 24W840 T8	4000 K	840	3,700 lm
46640100	MASTER LEDtube HF 600mm HO 8W830 T8	3000 K	830	1,000 lm
46642500	MASTER LEDtube HF 600mm HO 8W840 T8	4000 K	840	1,050 lm

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Order Code	Full Product Name	Correlated Colour Temperature (Nom)	Colour Code	Luminous Flux
46644900	MASTER LEDtube HF 600mm HO 8W865 T8	6500 K	865	1,050 lm

Operating and Electrical

Order Code	Full Product Name	Input frequency	Line Frequency	Power Consumption
46688300	MASTER LEDtube HF 1200mm HO 14W830 T8	20000-75000 Hz	20000-75000 Hz	14 W
46684500	MASTER LEDtube HF 1200mm HO 14W840 T8	20000-75000 Hz	20000-75000 Hz	14 W
46686900	MASTER LEDtube HF 1200mm HO 14W865 T8	20000-75000 Hz	20000-75000 Hz	14 W
46694400	MASTER LEDtube HF 1500mm HO 20W830 T8	20000-75000 Hz	20000-75000 Hz	20 W
46690600	MASTER LEDtube HF 1500mm HO 20W840 T8	20000-75000 Hz	20000-75000 Hz	20 W
46692000	MASTER LEDtube HF	20000-75000 Hz	20000-75000 Hz	20 W

Order Code	Full Product Name	Input frequency	Line Frequency	Power Consumption
46702600	MASTER LEDtube HF 1500mm UO 24W840 T8	20000-75000 Hz	20000-75000 Hz	24 W
46640100	MASTER LEDtube HF 600mm HO 8W830 T8	20000-120000 Hz	20000-120000 Hz	8 W
46642500	MASTER LEDtube HF 600mm HO 8W840 T8	20000-120000 Hz	20000-120000 Hz	8 W
46644900	MASTER LEDtube HF 600mm HO 8W865 T8	20000-120000 Hz	20000-120000 Hz	8 W

Controls and Dimming

Order Code	Full Product Name	Dimmable
46688300	MASTER LEDtube HF 1200mm HO 14W830 T8	Yes – Check ballast compatibility
46684500	MASTER LEDtube HF 1200mm HO 14W840 T8	Yes – Check ballast compatibility
46686900	MASTER LEDtube HF 1200mm HO 14W865 T8	Yes – Check ballast compatibility
46694400	MASTER LEDtube HF 1500mm HO 20W830 T8	Yes – Check ballast compatibility
46690600	MASTER LEDtube HF 1500mm HO 20W840 T8	Yes – Check ballast compatibility

Order Code	Full Product Name	Dimmable
46692000	MASTER LEDtube HF 1500mm HO 20W865 T8	Yes – Check ballast compatibility
46702600	MASTER LEDtube HF 1500mm UO 24W840 T8	Yes – Check ballast compatibility
46640100	MASTER LEDtube HF 600mm HO 8W830 T8	No
46642500	MASTER LEDtube HF 600mm HO 8W840 T8	No
46644900	MASTER LEDtube HF 600mm HO 8W865 T8	No

Approval and Application

Order Code	Full Product Name	Energy consumption kWh/1,000 hours
46688300	MASTER LEDtube HF 1200mm HO 14W830 T8	14 kWh
46684500	MASTER LEDtube HF 1200mm HO 14W840 T8	14 kWh

Order Code	Full Product Name	Energy consumption kWh/1,000 hours
46686900	MASTER LEDtube HF 1200mm HO 14W865 T8	14 kWh
46694400	MASTER LEDtube HF 1500mm HO 20W830 T8	20 kWh

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Order Code		Full Product Name	Energy consumption kWh/ 1,000 hours
46690600		MASTER LEDtube HF 1500mm HO 20W840 T8	20 kWh
46692000		MASTER LEDtube HF 1500mm HO 20W865 T8	20 kWh
46702600		MASTER LEDtube HF 1500mm UO 24W840 T8	24 kWh
46640100		MASTER LEDtube HF 600mm HO 8W830 T8	8 kWh
46642500		MASTER LEDtube HF 600mm HO 8W840 T8	8 kWh
46644900		MASTER LEDtube HF 600mm HO 8W865 T8	8 kWh

