

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. The MASTER LEDtube Performance is the ideal solution for customers which have higher light requirements and the want to maximize value over lifetime.(need the longest lifetime). Full energy savings and TCO benefits.

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 50000 hours
- Retrofit to existing T8 lamps on EM ballast installations
- Full safety features and EM Protector safety device
- No mercury

Application

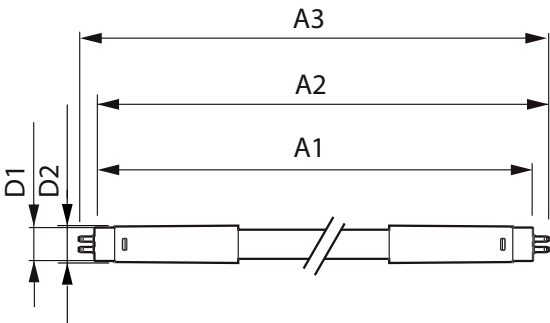
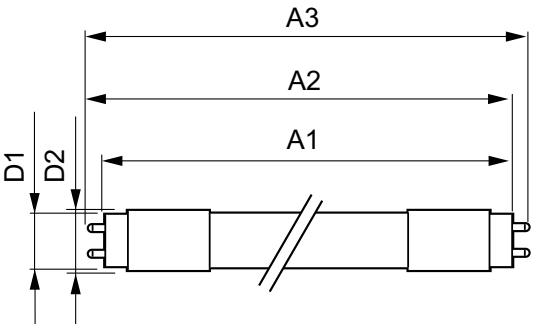
- Parking lots / covered car parks
- Warehouses / coldrooms / signage
- Transport and distribution areas

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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 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 1200mm UO 16W830 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	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube HF 1200mm UO 16W865 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 24W830 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
MAS LEDtube HF 1500mm UO 24W865 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

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General Information	
Cap-Base	G13 ROT
Switching Cycle	50,000
Nominal lifetime	75,000 hour(s)
Light Technical	
Beam Angle (Nom)	160 degree(s)
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Starting Time (Nom)	0.5 s
Temperature	
T-Case Maximum (Nom)	55 °C
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Shape	T8
Approval and Application	
Ambient temperature range	-20 °C to 45 °C

Light Technical

		Correlated Color Temperature (Nom)	Color Code	Luminous Flux
Order Code	Full Product Name			
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
46700200	MASTER LEDtube HF 1200mm UO 16W830 T8	3000 K	830	2,350 lm
46696800	MASTER LEDtube HF 1200mm UO 16W840 T8	4000 K	840	2,500 lm
46698200	MASTER LEDtube HF 1200mm UO 16W865 T8	6500 K	865	2,500 lm
46706400	MASTER LEDtube HF 1500mm UO 24W830 T8	3000 K	830	3,500 lm
46702600	MASTER LEDtube HF 1500mm UO 24W840 T8	4000 K	840	3,700 lm
46704000	MASTER LEDtube HF 1500mm UO 24W865 T8	6500 K	865	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
46644900	MASTER LEDtube HF 600mm HO 8W865 T8	6500 K	865	1,050 lm

Operating and Electrical

Full Product					Power				
Order Code	Name	Input Frequency	Line Frequency	Consumption	Order Code	Name	Input Frequency	Line Frequency	Consumption
46688300	MASTER LEDtube HF 1200mm HO 14W830 T8	20000-75000 Hz	20000-75000 Hz	14 W		1500mm HO 20W830 T8			
46684500	MASTER LEDtube HF 1200mm HO 14W840 T8	20000-75000 Hz	20000-75000 Hz	14 W	46690600	MASTER LEDtube HF 1500mm HO 20W840 T8	20000-75000 Hz	20000-75000 Hz	20 W
46686900	MASTER LEDtube HF 1200mm HO 14W865 T8	20000-75000 Hz	20000-75000 Hz	14 W	46692000	MASTER LEDtube HF 1500mm HO 20W865 T8	20000-75000 Hz	20000-75000 Hz	20 W
46694400	MASTER LEDtube HF	20000-75000 Hz	20000-75000 Hz	20 W	46700200	MASTER LEDtube HF 1200mm UO 16W830 T8	20000-75000 Hz	20000-75000 Hz	16 W

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Full Product				Power
Order Code	Name	Input Frequency	Line Frequency	Consumption
46696800	MASTER	20000-75000 Hz	20000-75000 Hz	16 W
	LEDtube HF			
	1200mm UO			
	16W840 T8			
46698200	MASTER	20000-75000 Hz	20000-75000 Hz	16 W
	LEDtube HF			
	1200mm UO			
	16W865 T8			
46706400	MASTER	20000-75000 Hz	20000-75000 Hz	24 W
	LEDtube HF			
	1500mm UO			
	24W830 T8			
46702600	MASTER	20000-75000 Hz	20000-75000 Hz	24 W
	LEDtube HF			
	1500mm UO			
	24W840 T8			
46704000	MASTER	20000-75000 Hz	20000-75000 Hz	24 W
	LEDtube HF			

Controls and Dimming

Order Code	Full Product Name	Dimmable
46688300	MASTER LEDtube HF 1200mm HO	Yes - Check ballast compatibility
	14W830 T8	
46684500	MASTER LEDtube HF 1200mm HO	Yes - Check ballast compatibility
	14W840 T8	
46686900	MASTER LEDtube HF 1200mm HO	Yes - Check ballast compatibility
	14W865 T8	
46694400	MASTER LEDtube HF 1500mm HO	Yes - Check ballast compatibility
	20W830 T8	
46690600	MASTER LEDtube HF 1500mm HO	Yes - Check ballast compatibility
	20W840 T8	
46692000	MASTER LEDtube HF 1500mm HO	Yes - Check ballast compatibility
	20W865 T8	
46700200	MASTER LEDtube HF 1200mm UO	Yes - Check ballast compatibility
	16W830 T8	
46696800	MASTER LEDtube HF 1200mm UO	Yes - Check ballast compatibility
	16W840 T8	

Approval and Application

			Energy Consumption
Order Code	Full Product Name		kWh/1000 h
46688300	MASTER LEDtube HF 1200mm HO 14W830 T8		14 kWh
46684500	MASTER LEDtube HF 1200mm HO 14W840 T8		14 kWh
46686900	MASTER LEDtube HF 1200mm HO 14W865 T8		14 kWh
46694400	MASTER LEDtube HF 1500mm HO 20W830 T8		20 kWh
46690600	MASTER LEDtube HF 1500mm HO 20W840 T8		20 kWh
46692000	MASTER LEDtube HF 1500mm HO 20W865 T8		20 kWh
46700200	MASTER LEDtube HF 1200mm UO 16W830 T8		16 kWh

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

Order Code	Full Product Name	Dimmable
46698200	MASTER LEDtube HF 1200mm UO	Yes - Check ballast compatibility
	16W865 T8	
46706400	MASTER LEDtube HF 1500mm UO	Yes - Check ballast compatibility
	24W830 T8	
46702600	MASTER LEDtube HF 1500mm UO	Yes - Check ballast compatibility
	24W840 T8	
46704000	MASTER LEDtube HF 1500mm UO	Yes - Check ballast compatibility
	24W865 T8	
46640100	MASTER LEDtube HF 600mm HO	No
	8W830 T8	
46642500	MASTER LEDtube HF 600mm HO	No
	8W840 T8	
46644900	MASTER LEDtube HF 600mm HO	No
	8W865 T8	

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Order Code Full Product Name		Energy Consumption kWh/1000 h
46644900	MASTER LEDtube HF 600mm HO 8W865 T8	8 kWh

