

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

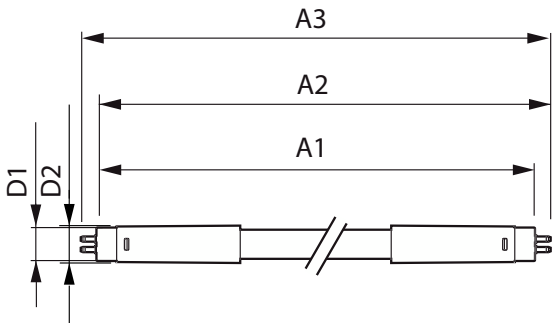
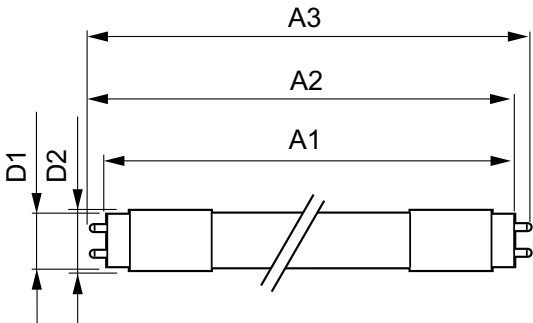
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Warnings and Safety

- NOTES: The overall energy efficiency and light distribution of any installation that uses these lamps are determined by the design of the installation.

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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	25.6 mm	28 mm	1,198.1 mm	1,205.2 mm	1,212.3 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	25.6 mm	28 mm	1,198.1 mm	1,205.2 mm	1,212.3 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 16W840 T8	25.6 mm	28 mm	1,198.1 mm	1,205.2 mm	1,212.3 mm
MAS LEDtube HF 1200mm UO 16W865 T8	25.6 mm	28 mm	1,198.1 mm	1,205.2 mm	1,212.3 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	25.6 mm	28 mm	1,498.7 mm	1,505.8 mm	1,512.9 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 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
MAS LEDtube HF 600mm HO 8W865 T8	25.8 mm	28 mm	588.6 mm	595.7 mm	602.8 mm

MASTER LEDtube InstantFit HF T8

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
Mechanical and Housing	
Bulb Shape	T8

General Information

Order Code	Full Product Name	Nominal lifetime
68750500	MASTER LEDtube HF 1200mm HO 14W865 T8	60,000 hour(s)
68758100	MASTER LEDtube HF 1500mm HO 20W830 T8	60,000 hour(s)
68796300	MASTER LEDtube HF 1200mm UO 16W840 T8	60,000 hour(s)
68798700	MASTER LEDtube HF 1200mm UO 16W865 T8	60,000 hour(s)
68800700	MASTER LEDtube HF 1200mm UO 16W830 T8	60,000 hour(s)
46688300	MASTER LEDtube HF 1200mm HO 14W830 T8	75,000 hour(s)
46684500	MASTER LEDtube HF 1200mm HO 14W840 T8	75,000 hour(s)
46686900	MASTER LEDtube HF 1200mm HO 14W865 T8	75,000 hour(s)
46694400	MASTER LEDtube HF 1500mm HO 20W830 T8	75,000 hour(s)
46690600	MASTER LEDtube HF 1500mm HO 20W840 T8	75,000 hour(s)
46692000	MASTER LEDtube HF 1500mm HO 20W865 T8	75,000 hour(s)

Order Code	Full Product Name	Nominal lifetime
46700200	MASTER LEDtube HF 1200mm UO 16W830 T8	75,000 hour(s)
46696800	MASTER LEDtube HF 1200mm UO 16W840 T8	75,000 hour(s)
46698200	MASTER LEDtube HF 1200mm UO 16W865 T8	75,000 hour(s)
46706400	MASTER LEDtube HF 1500mm UO 24W830 T8	75,000 hour(s)
46702600	MASTER LEDtube HF 1500mm UO 24W840 T8	75,000 hour(s)
46704000	MASTER LEDtube HF 1500mm UO 24W865 T8	75,000 hour(s)
74353900	MASTER LEDtube HF 600mm HO 8W830 T8	60,000 hour(s)
46640100	MASTER LEDtube HF 600mm HO 8W830 T8	75,000 hour(s)
46642500	MASTER LEDtube HF 600mm HO 8W840 T8	75,000 hour(s)
74367600	MASTER LEDtube HF 600mm HO 8W865 T8	60,000 hour(s)
46644900	MASTER 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
68750500	MASTER LEDtube HF 1200mm HO 14W865 T8	6500 K	83	865	2,100 lm
68758100	MASTER LEDtube HF 1500mm HO 20W830 T8	3000 K	83	830	2,900 lm
68796300	MASTER LEDtube HF 1200mm UO 16W840 T8	4000 K	83	840	2,500 lm
68798700	MASTER LEDtube HF 1200mm UO 16W865 T8	6500 K	83	865	2,500 lm

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
68800700	MASTER LEDtube HF 1200mm UO 16W830 T8	3000 K	83	830	2,350 lm
46688300	MASTER LEDtube HF 1200mm HO 14W830 T8	3000 K	80	830	2,000 lm
46684500	MASTER LEDtube HF 1200mm HO 14W840 T8	4000 K	80	840	2,100 lm
46686900	MASTER LEDtube HF 1200mm HO 14W865 T8	6500 K	80	865	2,100 lm

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Order Code	Full Product Name	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
46694400	MASTER LEDtube HF 1500mm HO 20W830 T8	3000 K	80	830	2,900 lm
46690600	MASTER LEDtube HF 1500mm HO 20W840 T8	4000 K	80	840	3,100 lm
46692000	MASTER LEDtube HF 1500mm HO 20W865 T8	6500 K	80	865	3,100 lm
46700200	MASTER LEDtube HF 1200mm UO 16W830 T8	3000 K	80	830	2,350 lm
46696800	MASTER LEDtube HF 1200mm UO 16W840 T8	4000 K	80	840	2,500 lm
46698200	MASTER LEDtube HF 1200mm UO 16W865 T8	6500 K	80	865	2,500 lm
46706400	MASTER LEDtube HF 1500mm UO 24W830 T8	3000 K	80	830	3,500 lm

Operating and Electrical

Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption
68750500	MASTER LEDtube HF 1200mm HO 14W865 T8	20000-75000 Hz	20000-75000 Hz	14 W
68758100	MASTER LEDtube HF 1500mm HO 20W830 T8	20000-75000 Hz	20000-75000 Hz	20 W
68796300	MASTER LEDtube HF 1200mm UO 16W840 T8	20000-75000 Hz	20000-75000 Hz	16 W
68798700	MASTER LEDtube HF 1200mm UO 16W865 T8	20000-75000 Hz	20000-75000 Hz	16 W
68800700	MASTER LEDtube HF 1200mm UO 16W830 T8	20000-75000 Hz	20000-75000 Hz	16 W
46688300	MASTER LEDtube HF	20000-75000 Hz	20000-75000 Hz	14 W

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Color Code	Luminous Flux
46702600	MASTER LEDtube HF 1500mm UO 24W840 T8	4000 K	80	840	3,700 lm
46704000	MASTER LEDtube HF 1500mm UO 24W865 T8	6500 K	80	865	3,700 lm
74353900	MASTER LEDtube HF 600mm HO 8W830 T8	3000 K	83	830	1,000 lm
46640100	MASTER LEDtube HF 600mm HO 8W830 T8	3000 K	80	830	1,000 lm
46642500	MASTER LEDtube HF 600mm HO 8W840 T8	4000 K	80	840	1,050 lm
74367600	MASTER LEDtube HF 600mm HO 8W865 T8	6500 K	83	865	1,050 lm
46644900	MASTER LEDtube HF 600mm HO 8W865 T8	6500 K	80	865	1,050 lm

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Full Product				Power
Order Code	Name	Input Frequency	Line Frequency	Consumption
46700200	MASTER	20000-75000 Hz	20000-75000 Hz	16 W
	LEDtube HF			
	1200mm UO			
	16W830 T8			
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			

Full Product				Power
Order Code	Name	Input Frequency	Line Frequency	Consumption
74353900	1500mm UO	20000-80000 Hz	20000-80000 Hz	8 W
	24W865 T8			
74353900	MASTER	20000-80000 Hz	20000-80000 Hz	8 W
	LEDtube HF			
	600mm HO			
	8W830 T8			
46640100	MASTER	20000-120000 Hz	20000-120000 Hz	8 W
	LEDtube HF			
	600mm HO			
	8W830 T8			
46642500	MASTER	20000-120000 Hz	20000-120000 Hz	8 W
	LEDtube HF			
	600mm HO			
	8W840 T8			
74367600	MASTER	20000-80000 Hz	20000-80000 Hz	8 W
	LEDtube HF			
	600mm HO			
	8W865 T8			
46644900	MASTER	20000-120000 Hz	20000-120000 Hz	8 W
	LEDtube HF			
	600mm HO			
	8W865 T8			

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
68750500	MASTER LEDtube HF 1200mm HO 14W865 T8	55 °C
68758100	MASTER LEDtube HF 1500mm HO 20W830 T8	55 °C
68796300	MASTER LEDtube HF 1200mm UO 16W840 T8	55 °C
68798700	MASTER LEDtube HF 1200mm UO 16W865 T8	55 °C
68800700	MASTER LEDtube HF 1200mm UO 16W830 T8	55 °C
46688300	MASTER LEDtube HF 1200mm HO 14W830 T8	55 °C
46684500	MASTER LEDtube HF 1200mm HO 14W840 T8	55 °C
46686900	MASTER LEDtube HF 1200mm HO 14W865 T8	55 °C
46694400	MASTER LEDtube HF 1500mm HO 20W830 T8	55 °C
46690600	MASTER LEDtube HF 1500mm HO 20W840 T8	55 °C
46692000	MASTER LEDtube HF 1500mm HO 20W865 T8	55 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
46700200	MASTER LEDtube HF 1200mm UO 16W830 T8	55 °C
46696800	MASTER LEDtube HF 1200mm UO 16W840 T8	55 °C
46698200	MASTER LEDtube HF 1200mm UO 16W865 T8	55 °C
46706400	MASTER LEDtube HF 1500mm UO 24W830 T8	55 °C
46702600	MASTER LEDtube HF 1500mm UO 24W840 T8	55 °C
46704000	MASTER LEDtube HF 1500mm UO 24W865 T8	55 °C
74353900	MASTER LEDtube HF 600mm HO 8W830 T8	60 °C
46640100	MASTER LEDtube HF 600mm HO 8W830 T8	55 °C
46642500	MASTER LEDtube HF 600mm HO 8W840 T8	55 °C
74367600	MASTER LEDtube HF 600mm HO 8W865 T8	60 °C
46644900	MASTER LEDtube HF 600mm HO 8W865 T8	55 °C

Controls and Dimming

Order Code	Full Product Name	Dimmable
68750500	MASTER LEDtube HF 1200mm HO 14W865 T8	No
68758100	MASTER LEDtube HF 1500mm HO 20W830 T8	No
68796300	MASTER LEDtube HF 1200mm UO 16W840 T8	No
68798700	MASTER LEDtube HF 1200mm UO 16W865 T8	No

Order Code	Full Product Name	Dimmable
68800700	MASTER LEDtube HF 1200mm UO 16W830 T8	No
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

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Order Code	Full Product Name	Dimmable
46694400	MASTER LEDtube HF 1500mm HO 20W830 T8	Yes - Check ballast compatibility
46690600	MASTER LEDtube HF 1500mm HO 20W840 T8	Yes - Check ballast compatibility
46692000	MASTER LEDtube HF 1500mm HO 20W865 T8	Yes - Check ballast compatibility
46700200	MASTER LEDtube HF 1200mm UO 16W830 T8	Yes - Check ballast compatibility
46696800	MASTER LEDtube HF 1200mm UO 16W840 T8	Yes - Check ballast compatibility
46698200	MASTER LEDtube HF 1200mm UO 16W865 T8	Yes - Check ballast compatibility
46706400	MASTER LEDtube HF 1500mm UO 24W830 T8	Yes - Check ballast compatibility

Mechanical and Housing

Order Code	Full Product Name	Bulb Finish
68750500	MASTER LEDtube HF 1200mm HO 14W865 T8	-
68758100	MASTER LEDtube HF 1500mm HO 20W830 T8	-
68796300	MASTER LEDtube HF 1200mm UO 16W840 T8	-
68798700	MASTER LEDtube HF 1200mm UO 16W865 T8	-
68800700	MASTER LEDtube HF 1200mm UO 16W830 T8	-
46688300	MASTER LEDtube HF 1200mm HO 14W830 T8	Frosted
46684500	MASTER LEDtube HF 1200mm HO 14W840 T8	Frosted
46686900	MASTER LEDtube HF 1200mm HO 14W865 T8	Frosted
46694400	MASTER LEDtube HF 1500mm HO 20W830 T8	Frosted
46690600	MASTER LEDtube HF 1500mm HO 20W840 T8	Frosted
46692000	MASTER LEDtube HF 1500mm HO 20W865 T8	Frosted

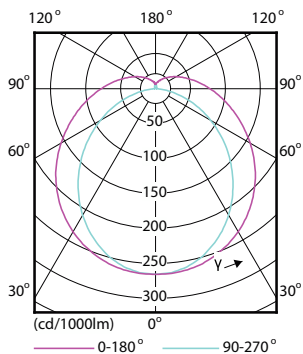
Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
68750500	MASTER LEDtube HF 1200mm HO 14W865 T8	14 kWh
68758100	MASTER LEDtube HF 1500mm HO 20W830 T8	20 kWh
68796300	MASTER LEDtube HF 1200mm UO 16W840 T8	16 kWh
68798700	MASTER LEDtube HF 1200mm UO 16W865 T8	16 kWh
68800700	MASTER LEDtube HF 1200mm UO 16W830 T8	16 kWh
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
46696800	MASTER LEDtube HF 1200mm UO 16W840 T8	16 kWh
46698200	MASTER LEDtube HF 1200mm UO 16W865 T8	16 kWh
46706400	MASTER LEDtube HF 1500mm UO 24W830 T8	24 kWh
46702600	MASTER LEDtube HF 1500mm UO 24W840 T8	24 kWh
46704000	MASTER LEDtube HF 1500mm UO 24W865 T8	24 kWh

Order Code	Full Product Name	Dimmable
46702600	MASTER LEDtube HF 1500mm UO 24W840 T8	Yes - Check ballast compatibility
46704000	MASTER LEDtube HF 1500mm UO 24W865 T8	Yes - Check ballast compatibility
74353900	MASTER LEDtube HF 600mm HO 8W830 T8	No
46640100	MASTER LEDtube HF 600mm HO 8W830 T8	No
46642500	MASTER LEDtube HF 600mm HO 8W840 T8	No
74367600	MASTER LEDtube HF 600mm HO 8W865 T8	No
46644900	MASTER LEDtube HF 600mm HO 8W865 T8	No

Order Code	Full Product Name	Bulb Finish
46700200	MASTER LEDtube HF 1200mm UO 16W830 T8	Frosted
46696800	MASTER LEDtube HF 1200mm UO 16W840 T8	Frosted
46698200	MASTER LEDtube HF 1200mm UO 16W865 T8	Frosted
46706400	MASTER LEDtube HF 1500mm UO 24W830 T8	Frosted
46702600	MASTER LEDtube HF 1500mm UO 24W840 T8	Frosted
46704000	MASTER LEDtube HF 1500mm UO 24W865 T8	Frosted
74353900	MASTER LEDtube HF 600mm HO 8W830 T8	-
46640100	MASTER LEDtube HF 600mm HO 8W830 T8	Frosted
46642500	MASTER LEDtube HF 600mm HO 8W840 T8	Frosted
74367600	MASTER LEDtube HF 600mm HO 8W865 T8	-
46644900	MASTER LEDtube HF 600mm HO 8W865 T8	Frosted

Order Code	Full Product Name	Energy Consumption kWh/1000 h
74353900	MASTER LEDtube HF 600mm HO 8W830 T8	8 kWh
46640100	MASTER LEDtube HF 600mm HO 8W830 T8	8 kWh
46642500	MASTER LEDtube HF 600mm HO 8W840 T8	8 kWh
74367600	MASTER LEDtube HF 600mm HO 8W865 T8	8 kWh
46644900	MASTER LEDtube HF 600mm HO 8W865 T8	8 kWh



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