PHILIPS

Lighting

The new generation of energy saving tube lighting

MASTER LEDtube EM/Mains 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 lamping 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 40,000 hours
- Retrofit to existing T8 lamps on EM or HF electronic gear
- Full safety features and EM Protector safety device
- No mercury

Application

- Car parks
- Warehouses
- Transport and distribution areas
- Front & back of house retail & hospitality

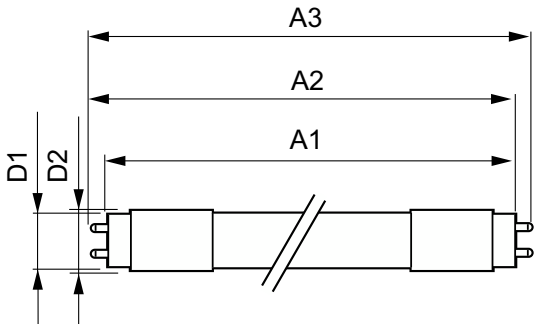
Warnings and Safety

- -

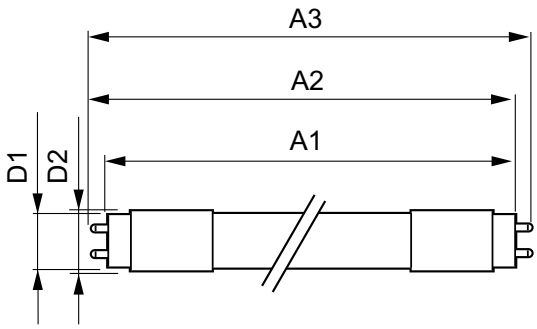
MASTER LEDtube EM/Mains T8

Versions

Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm UO 14.7W 830 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
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 1200mm UO 14.7W 865 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1500mm UO 21.7W 830 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 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 1500mm UO 21.7W 865 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 900mm HO 12W 840 T8	25.78 mm	28 mm	893.3 mm	900.4 mm	907.5 mm
MAS LEDtube 900mm HO 12W 865 T8	25.78 mm	28 mm	893.3 mm	900.4 mm	907.5 mm



Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm HO 14W830 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm HO 14W840 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm HO 14W865 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1500mm HO 18.2W 830 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 1500mm HO 18.2W 840 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 1500mm HO 18.2W 865 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 600mm HO 8W830 T8	25.8 mm	28 mm	588.5 mm	595.5 mm	602.5 mm
MAS LEDtube 600mm HO 8W840 T8	25.8 mm	28 mm	588.5 mm	595.5 mm	602.5 mm
MAS LEDtube 600mm HO 8W865 T8	25.8 mm	28 mm	588.5 mm	595.5 mm	602.5 mm
MAS LEDtube STD 1200mm 10.5W840 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube STD 1200mm 10.5W865 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm

MASTER LEDtube EM/Mains T8

General Information	
Switching Cycle	200,000
Light Technical	
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Input Frequency	50 to 60 Hz
Line Frequency	50 to 60 Hz
Starting Time (Nom)	0.5 s
Temperature	
Ambient temperature range	-20 °C to 45 °C
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Shape	T8

General Information

Order Code	Full Product Name	Cap-Base	Nominal lifetime
929001298402	MAS LEDtube 900mm HO 12W 840 T8	G13 ROT	75,000 hour(s)
929001298502	MAS LEDtube 900mm HO 12W 865 T8	G13 ROT	75,000 hour(s)
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	G13 ROT	75,000 hour(s)
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	G13 ROT	75,000 hour(s)
929002998402	MAS LEDtube 1200mm UO 14.7W 865 T8	G13 ROT	75,000 hour(s)
929002998502	MAS LEDtube 1500mm UO 21.7W 830 T8	G13 ROT	75,000 hour(s)
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	G13 ROT	75,000 hour(s)
929002998702	MAS LEDtube 1500mm UO 21.7W 865 T8	G13 ROT	75,000 hour(s)
929003555808	MAS LEDtube STD 1200mm 10.5W840 T8	G13	60,000 hour(s)
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	G13	60,000 hour(s)
929003556008	MAS LEDtube 1200mm HO 14W830 T8	G13	60,000 hour(s)
929003556108	MAS LEDtube 1200mm HO 14W840 T8	G13	60,000 hour(s)
929003556208	MAS LEDtube 1200mm HO 14W865 T8	G13	60,000 hour(s)
929003557208	MAS LEDtube 600mm HO 8W830 T8	G13	60,000 hour(s)
929003557308	MAS LEDtube 600mm HO 8W840 T8	G13	60,000 hour(s)
929003557408	MAS LEDtube 600mm HO 8W865 T8	G13	60,000 hour(s)
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	G13 ROT	75,000 hour(s)
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	G13 ROT	75,000 hour(s)
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	G13 ROT	75,000 hour(s)

Light Technical (1/2)

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Color Code
929001298402	MAS LEDtube 900mm HO 12W 840 T8	160 degree(s)	4000 K	80	840
929001298502	MAS LEDtube 900mm HO 12W 865 T8	160 degree(s)	6500 K	80	865
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	160 degree(s)	3000 K	80	830
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	160 degree(s)	4000 K	80	840
929002998402	MAS LEDtube 1200mm UO 14.7W 865 T8	160 degree(s)	6500 K	80	865
929002998502	MAS LEDtube 1500mm UO 21.7W 830 T8	160 degree(s)	3000 K	80	830
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	160 degree(s)	4000 K	80	840
929002998702	MAS LEDtube 1500mm UO 21.7W 865 T8	160 degree(s)	6500 K	80	865

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Color Code
929003555808	MAS LEDtube STD 1200mm 10.5W840 T8	190 degree(s)	4000 K	80	840
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	190 degree(s)	6500 K	80	865
929003556008	MAS LEDtube 1200mm HO 14W830 T8	190 degree(s)	3000 K	80	830
929003556108	MAS LEDtube 1200mm HO 14W840 T8	190 degree(s)	4000 K	80	840
929003556208	MAS LEDtube 1200mm HO 14W865 T8	190 degree(s)	6500 K	80	865
929003557208	MAS LEDtube 600mm HO 8W830 T8	190 degree(s)	3000 K	83	830
929003557308	MAS LEDtube 600mm HO 8W840 T8	190 degree(s)	4000 K	83	840
929003557408	MAS LEDtube 600mm HO 8W865 T8	190 degree(s)	6500 K	83	865

MASTER LEDtube EM/Mains T8

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Color Code
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	160 degree(s)	3000 K	80	830
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	160 degree(s)	4000 K	80	840
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	160 degree(s)	6500 K	80	865

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux
929001298402	MAS LEDtube 900mm HO 12W 840 T8	1,575 lm
929001298502	MAS LEDtube 900mm HO 12W 865 T8	1,575 lm
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	2,300 lm
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	2,500 lm
929002998402	MAS LEDtube 1200mm UO 14.7W 865 T8	2,500 lm
929002998502	MAS LEDtube 1500mm UO 21.7W 830 T8	3,400 lm
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	3,700 lm
929002998702	MAS LEDtube 1500mm UO 21.7W 865 T8	3,700 lm
929003555808	MAS LEDtube STD 1200mm 10.5W840 T8	1,600 lm
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	1,600 lm
929003556008	MAS LEDtube 1200mm HO 14W830 T8	2,000 lm
929003556108	MAS LEDtube 1200mm HO 14W840 T8	2,100 lm
929003556208	MAS LEDtube 1200mm HO 14W865 T8	2,100 lm
929003557208	MAS LEDtube 600mm HO 8W830 T8	1,000 lm
929003557308	MAS LEDtube 600mm HO 8W840 T8	1,050 lm
929003557408	MAS LEDtube 600mm HO 8W865 T8	1,050 lm
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	2,900 lm
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	3,100 lm
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	3,100 lm

Operating and Electrical

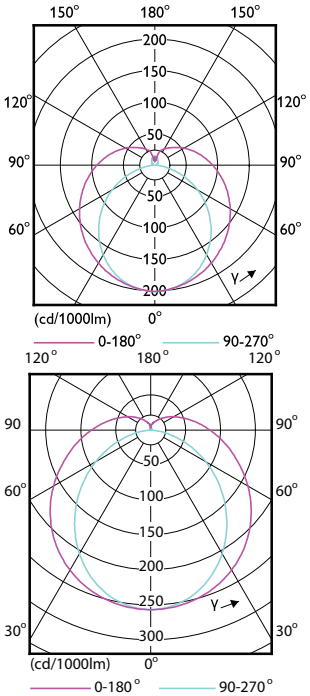
Order Code	Full Product Name	Power Consumption
929001298402	MAS LEDtube 900mm HO 12W 840 T8	12 W
929001298502	MAS LEDtube 900mm HO 12W 865 T8	12 W
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	14.7 W
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	14.7 W
929002998402	MAS LEDtube 1200mm UO 14.7W 865 T8	14.7 W
929002998502	MAS LEDtube 1500mm UO 21.7W 830 T8	21.7 W
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	21.7 W
929002998702	MAS LEDtube 1500mm UO 21.7W 865 T8	21.7 W
929003555808	MAS LEDtube STD 1200mm 10.5W840 T8	10.5 W
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	10.5 W
929003556008	MAS LEDtube 1200mm HO 14W830 T8	14 W
929003556108	MAS LEDtube 1200mm HO 14W840 T8	14 W
929003556208	MAS LEDtube 1200mm HO 14W865 T8	14 W
929003557208	MAS LEDtube 600mm HO 8W830 T8	8 W
929003557308	MAS LEDtube 600mm HO 8W840 T8	8 W
929003557408	MAS LEDtube 600mm HO 8W865 T8	8 W
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	18.2 W
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	18.2 W
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	18.2 W

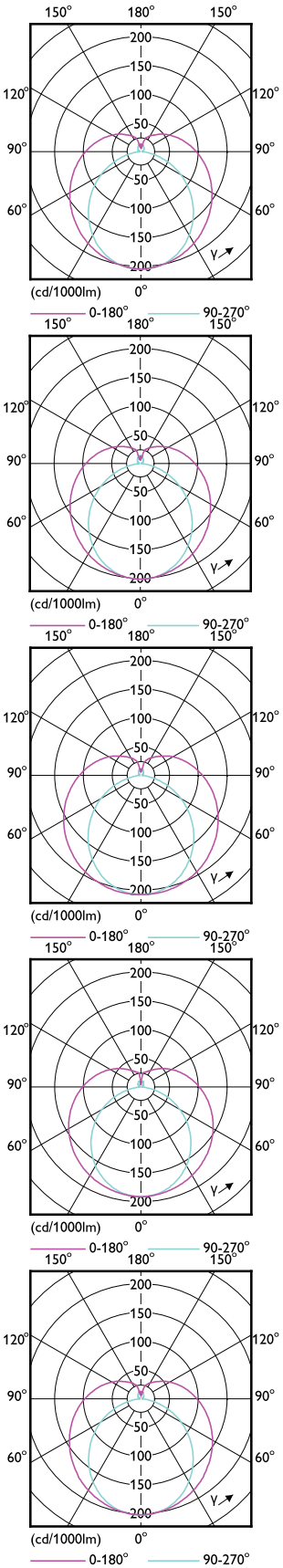
Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929001298402	MAS LEDtube 900mm HO 12W 840 T8	50 °C
929001298502	MAS LEDtube 900mm HO 12W 865 T8	50 °C
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	55 °C
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	55 °C
929002998402	MAS LEDtube 1200mm UO 14.7W 865 T8	55 °C
929002998502	MAS LEDtube 1500mm UO 21.7W 830 T8	60 °C
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	60 °C
929002998702	MAS LEDtube 1500mm UO 21.7W 865 T8	60 °C
929003555808	MAS LEDtube STD 1200mm 10.5W840 T8	50 °C
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	50 °C
929003556008	MAS LEDtube 1200mm HO 14W830 T8	50 °C
929003556108	MAS LEDtube 1200mm HO 14W840 T8	50 °C
929003556208	MAS LEDtube 1200mm HO 14W865 T8	50 °C
929003557208	MAS LEDtube 600mm HO 8W830 T8	50 °C
929003557308	MAS LEDtube 600mm HO 8W840 T8	50 °C
929003557408	MAS LEDtube 600mm HO 8W865 T8	50 °C
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	55 °C
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	55 °C
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	55 °C

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/ 1000 h
929001298402	MAS LEDtube 900mm HO 12W 840 T8	12 kWh
929001298502	MAS LEDtube 900mm HO 12W 865 T8	12 kWh
929002998202	MAS LEDtube 1200mm UO 14.7W 830 T8	15 kWh
929002998302	MAS LEDtube 1200mm UO 14.7W 840 T8	15 kWh
929002998402	MAS LEDtube 1200mm UO 14.7W 865 T8	15 kWh
929002998502	MAS LEDtube 1500mm UO 21.7W 830 T8	22 kWh
929002998602	MAS LEDtube 1500mm UO 21.7W 840 T8	22 kWh
929002998702	MAS LEDtube 1500mm UO 21.7W 865 T8	22 kWh
929003555808	MAS LEDtube STD 1200mm 10.5W840 T8	-
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	-
929003556008	MAS LEDtube 1200mm HO 14W830 T8	-
929003556108	MAS LEDtube 1200mm HO 14W840 T8	-
929003556208	MAS LEDtube 1200mm HO 14W865 T8	-
929003557208	MAS LEDtube 600mm HO 8W830 T8	-
929003557308	MAS LEDtube 600mm HO 8W840 T8	-
929003557408	MAS LEDtube 600mm HO 8W865 T8	-
929001922902	MAS LEDtube 1500mm HO 18.2W 830 T8	19 kWh
929001923002	MAS LEDtube 1500mm HO 18.2W 840 T8	19 kWh
929001923102	MAS LEDtube 1500mm HO 18.2W 865 T8	19 kWh





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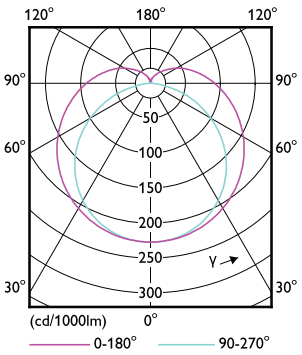

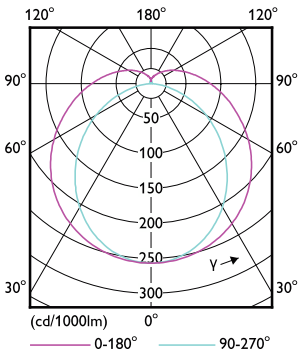

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