



For top performance and sustainability

MASTER LEDtube EM/Mains T8 with Recycled Plastic

Our new sustainability hero Philips MASTER LEDtube T8 EM/mains — a pioneering LED tube designed for performance, durability, and environmental impact. As the first-ever LED tube to feature 40% post-consumer recycled plastic, it sets a new standard for sustainable lighting without compromising quality. With a long lifetime of 75,000 hours and high luminous efficacy up to 185 lm/W, the MASTER LEDtube T8 ensures outstanding energy efficiency. These T8 LED tubes are the right choice for absolute performance and are designed to stand up to everyday conditions. Unparalleled savings thanks to low energy consumption and an exceptionally long lifetime ensure this tube master every demanding application.

Benefits

- Absolute performance that provides a solution for every application
- Unparalleled savings with low energy consumption and long lifetime
- Robust and reliable: stands up to everyday conditions

Features

- Made with on average 40% post-consumer-recycled plastic
- Impressive energy saving and durability with up to 185 lm/W efficacy and 75,000 hrs lifetime
- Shatterproof, passing drop test horizontally from a height of 4m on to a flat concrete according to IEC 61549.
- Enable easy implementation of HACCP without need for additional guard, supported by product level NSF certificate
- Easy to install on EM ballast or rewire to direct mains; rotatable end caps (up to 90°) for flexible installation

MASTER LEDtube EM/Mains T8 with Recycled Plastic

Application

- Offices, schools, healthcare
- Parking, warehouses, and industry
- Public spaces

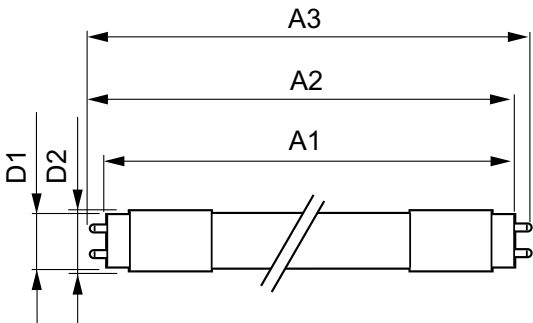
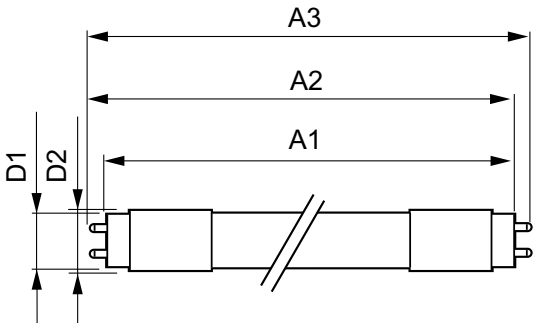
Versions



SPPR MLEDGA 0024

MASTER LEDtube EM/Mains T8 with Recycled Plastic

Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 1050mm 16W 830 T8	25.8 mm	28 mm	1,045.8 mm	1,052.9 mm	1,060 mm
MAS LEDtube 1200mm UO 13.5W 830 T8 EELC	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm UO 13.5W 830 T8 SDCM	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm UO 13.5W 840 T8 EELB	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm UO 13.5W 840 T8 ID	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm UO 13.5W 840 T8 SDCM	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm UO 13.5W 865 T8 EELB	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1500mm UO 20W 830 T8 EELC	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 1500mm UO 20W 830 T8 SDCM	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 1500mm UO 20W 840 T8 EELB	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 1500mm UO 20W 840 T8 SDCM	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 1500mm UO 20W 865 T8 EELB	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 600mm HO 7.6W830 T8	25.8 mm	28 mm	588.5 mm	595.5 mm	602.5 mm
MAS LEDtube 600mm HO 7.6W840 T8	25.8 mm	28 mm	588.5 mm	595.5 mm	602.5 mm
MAS LEDtube 600mm HO 7.6W865 T8	25.8 mm	28 mm	588.5 mm	595.5 mm	602.5 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 1050mm 16W 840 T8	25.8 mm	28 mm	1,045.8 mm	1,052.9 mm	1,060 mm
MAS LEDtube 1200mm HO 11.3W 830 T8 EELC	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm HO 11.3W 840 T8 EELB	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm HO 11.3W 865 T8 EELB	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1500mm HO 16.7W 830 T8 EELC	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 1500mm HO 16.7W 840 T8 EELB	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm

MASTER LEDtube EM/Mains T8 with Recycled Plastic

Dimensional drawing

Product	D1	D2	A1	A2	A3
MAS LEDtube 1500mm HO 16.7W 865 T8 EELB	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm

General Information	
Cap-Base	G13 ROT
Switching Cycle	200,000
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	
Input Frequency	50 to 60 Hz
Starting Time (Nom)	0.5 s
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Shape	T8

Light Technical

Order Code	Full Product Name	Correlated Color Temperature (Nom)	Color Code	Luminous Flux
929001298402	MAS LEDtube 900mm HO 12W 840 T8	4000 K	840	1,575 lm
929001298502	MAS LEDtube 900mm HO 12W 865 T8	6500 K	865	1,575 lm
929004241802	MAS LEDtube 1200mm UO 13.5W 830 T8 EELC	3000 K	830	2,300 lm
929004241902	MAS LEDtube 1200mm UO 13.5W 840 T8 EELB	4000 K	840	2,500 lm
929004241917	MAS LEDtube 1200mm UO 13.5W 840 T8 ID	4000 K	840	2,500 lm
929004242002	MAS LEDtube 1200mm UO 13.5W 865 T8 EELB	6500 K	865	2,500 lm
929004242102	MAS LEDtube 1500mm UO 20W 830 T8 EELC	3000 K	830	3,400 lm
929004242202	MAS LEDtube 1500mm UO 20W 840 T8 EELB	4000 K	840	3,700 lm
929004242302	MAS LEDtube 1500mm UO 20W 865 T8 EELB	6500 K	865	3,700 lm
929004243002	MAS LEDtube 1200mm UO 13.5W 830 T8 SDCM	3000 K	830	2,300 lm
929004243102	MAS LEDtube 1200mm UO 13.5W 840 T8 SDCM	4000 K	840	2,500 lm
929004243202	MAS LEDtube 1500mm UO 20W 830 T8 SDCM	3000 K	830	3,400 lm
929004243302	MAS LEDtube 1500mm UO 20W 840 T8 SDCM	4000 K	840	3,700 lm
929004260202	MAS LEDtube 600mm HO 7.6W830 T8	3000 K	830	1,090 lm
929004260302	MAS LEDtube 600mm HO 7.6W840 T8	4000 K	840	1,150 lm
929004260402	MAS LEDtube 600mm HO 7.6W865 T8	6500 K	865	1,150 lm
929001961102	MAS LEDtube 1050mm 16W 840 T8	4000 K	840	2,500 lm
929004242402	MAS LEDtube 1200mm HO 11.3W 830 T8 EELC	3000 K	830	2,000 lm
929004242502	MAS LEDtube 1200mm HO 11.3W 840 T8 EELB	4000 K	840	2,100 lm
929004242602	MAS LEDtube 1200mm HO 11.3W 865 T8 EELB	6500 K	865	2,100 lm
929004242702	MAS LEDtube 1500mm HO 16.7W 830 T8 EELC	3000 K	830	2,900 lm
929004242802	MAS LEDtube 1500mm HO 16.7W 840 T8 EELB	4000 K	840	3,100 lm
929004242902	MAS LEDtube 1500mm HO 16.7W 865 T8 EELB	6500 K	865	3,100 lm
929001375602	MAS LEDtube 1050mm 16W 830 T8	3000 K	830	2,300 lm

Operating and Electrical

MASTER LEDtube EM/Mains T8 with Recycled Plastic

Order Code	Full Product Name	Line	Power	Wattage
		Frequency	Consumption	Equivalent
929001298402	MAS LEDtube 900mm HO 12W 840 T8	50 to 60 Hz	12 W	-
929001298502	MAS LEDtube 900mm HO 12W 865 T8	50 to 60 Hz	12 W	-
929004241802	MAS LEDtube 1200mm UO 13.5W 830 T8 EELC	-	13.5 W	-
929004241902	MAS LEDtube 1200mm UO 13.5W 840 T8 EELB	-	13.5 W	-
929004241917	MAS LEDtube 1200mm UO 13.5W 840 T8 ID	-	13.5 W	36 W
929004242002	MAS LEDtube 1200mm UO 13.5W 865 T8 EELB	-	13.5 W	-
929004242102	MAS LEDtube 1500mm UO 20W 830 T8 EELC	-	20 W	-
929004242202	MAS LEDtube 1500mm UO 20W 840 T8 EELB	-	20 W	-
929004242302	MAS LEDtube 1500mm UO 20W 865 T8 EELB	-	20 W	-
929004243002	MAS LEDtube 1200mm UO 13.5W 830 T8 SDCM	-	13.5 W	-
929004243102	MAS LEDtube 1200mm UO 13.5W 840 T8 SDCM	-	13.5 W	-
929004243202	MAS LEDtube 1500mm UO 20W 830 T8 SDCM	-	20 W	-

Temperature

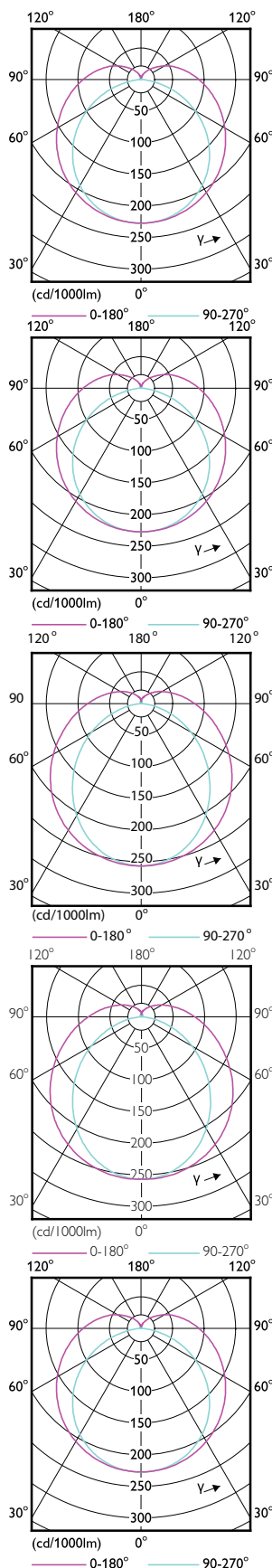
Order Code	Full Product Name	T-Case Maximum (Nom)
929001298402	MAS LEDtube 900mm HO 12W 840 T8	50 °C
929001298502	MAS LEDtube 900mm HO 12W 865 T8	50 °C
929004241802	MAS LEDtube 1200mm UO 13.5W 830 T8 EELC	50 °C
929004241902	MAS LEDtube 1200mm UO 13.5W 840 T8 EELB	50 °C
929004241917	MAS LEDtube 1200mm UO 13.5W 840 T8 ID	50 °C
929004242002	MAS LEDtube 1200mm UO 13.5W 865 T8 EELB	50 °C
929004242102	MAS LEDtube 1500mm UO 20W 830 T8 EELC	50 °C
929004242202	MAS LEDtube 1500mm UO 20W 840 T8 EELB	50 °C
929004242302	MAS LEDtube 1500mm UO 20W 865 T8 EELB	50 °C
929004243002	MAS LEDtube 1200mm UO 13.5W 830 T8 SDCM	50 °C
929004243102	MAS LEDtube 1200mm UO 13.5W 840 T8 SDCM	50 °C
929004243202	MAS LEDtube 1500mm UO 20W 830 T8 SDCM	50 °C

Order Code	Full Product Name	Line	Power	Wattage
		Frequency	Consumption	Equivalent
929004243302	MAS LEDtube 1500mm UO 20W 840 T8 SDCM	-	20 W	-
929004260202	MAS LEDtube 600mm HO 7.6W830 T8	-	7.6 W	-
929004260302	MAS LEDtube 600mm HO 7.6W840 T8	-	7.6 W	-
929004260402	MAS LEDtube 600mm HO 7.6W865 T8	-	7.6 W	-
929001961102	MAS LEDtube 1050mm 16W 840 T8	50 to 60 Hz	16 W	-
929004242402	MAS LEDtube 1200mm HO 11.3W 830 T8 EELC	-	11.3 W	-
929004242502	MAS LEDtube 1200mm HO 11.3W 840 T8 EELB	-	11.3 W	-
929004242602	MAS LEDtube 1200mm HO 11.3W 865 T8 EELB	-	11.3 W	-
929004242702	MAS LEDtube 1500mm HO 16.7W 830 T8 EELC	-	16.7 W	-
929004242802	MAS LEDtube 1500mm HO 16.7W 840 T8 EELB	-	16.7 W	-
929004242902	MAS LEDtube 1500mm HO 16.7W 865 T8 EELB	-	16.7 W	-
929001375602	MAS LEDtube 1050mm 16W 830 T8	50 to 60 Hz	16 W	-

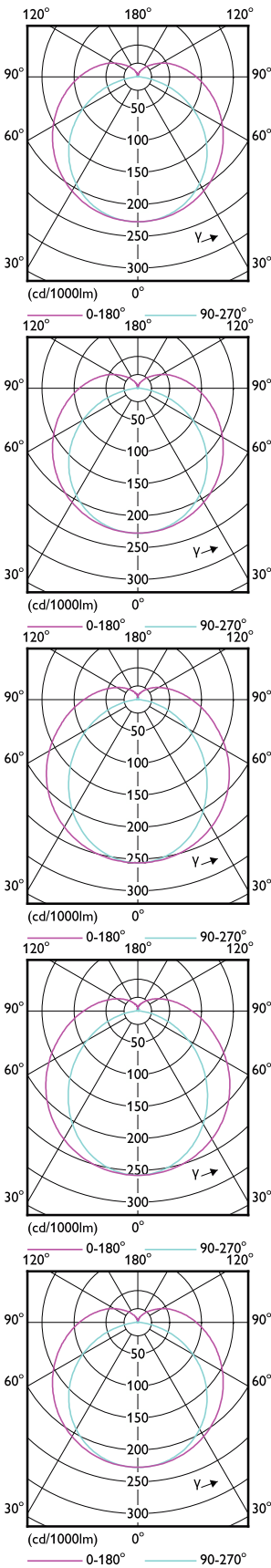
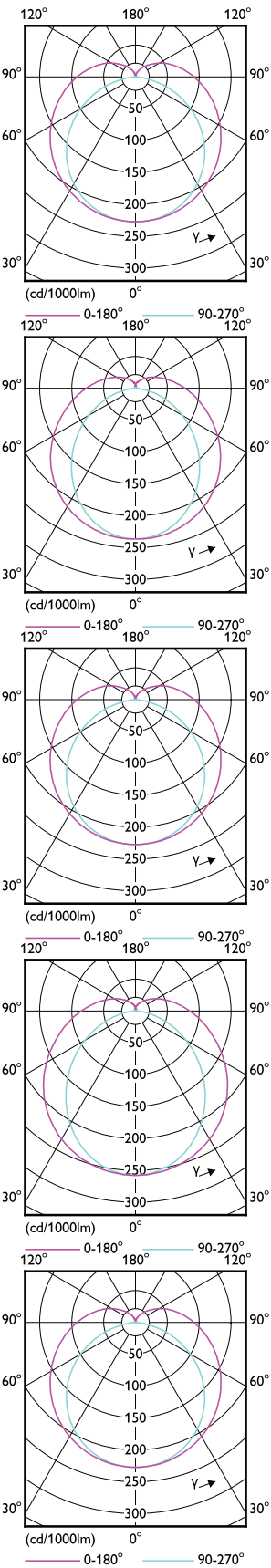
MASTER LEDtube EM/Mains T8 with Recycled Plastic

Approval and Application

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
929001298402	MAS LEDtube 900mm HO 12W 840 T8	-20 °C to +45 °C	12 kWh
929001298502	MAS LEDtube 900mm HO 12W 865 T8	-20 °C to +45 °C	12 kWh
929004241802	MAS LEDtube 1200mm UO 13.5W 830 T8 EELC	-20 to +45 °C	14 kWh
929004241902	MAS LEDtube 1200mm UO 13.5W 840 T8 EELB	-20 to +45 °C	14 kWh
929004241917	MAS LEDtube 1200mm UO 13.5W 840 T8 ID	-20 to +45 °C	-
929004242002	MAS LEDtube 1200mm UO 13.5W 865 T8 EELB	-20 to +45 °C	14 kWh
929004242102	MAS LEDtube 1500mm UO 20W 830 T8 EELC	-20 to +45 °C	20 kWh
929004242202	MAS LEDtube 1500mm UO 20W 840 T8 EELB	-20 to +45 °C	20 kWh
929004242302	MAS LEDtube 1500mm UO 20W 865 T8 EELB	-20 to +45 °C	20 kWh
929004243002	MAS LEDtube 1200mm UO 13.5W 830 T8 SDCM	-20 to +45 °C	14 kWh
929004243102	MAS LEDtube 1200mm UO 13.5W 840 T8 SDCM	-20 to +45 °C	14 kWh
929004243202	MAS LEDtube 1500mm UO 20W 830 T8 SDCM	-20 to +45 °C	20 kWh
929004243302	MAS LEDtube 1500mm UO 20W 840 T8 SDCM	-20 to +45 °C	20 kWh
929004260202	MAS LEDtube 600mm HO 7.6W830 T8	-20 to +45 °C	8 kWh
929004260302	MAS LEDtube 600mm HO 7.6W840 T8	-20 to +45 °C	8 kWh
929004260402	MAS LEDtube 600mm HO 7.6W865 T8	-20 to +45 °C	8 kWh
929001961102	MAS LEDtube 1050mm 16W 840 T8	-20 °C to +45 °C	16 kWh
929004242402	MAS LEDtube 1200mm HO 11.3W 830 T8 EELC	-20 to +45 °C	12 kWh
929004242502	MAS LEDtube 1200mm HO 11.3W 840 T8 EELB	-20 to +45 °C	12 kWh
929004242602	MAS LEDtube 1200mm HO 11.3W 865 T8 EELB	-20 to +45 °C	12 kWh
929004242702	MAS LEDtube 1500mm HO 16.7W 830 T8 EELC	-20 to +45 °C	17 kWh
929004242802	MAS LEDtube 1500mm HO 16.7W 840 T8 EELB	-20 to +45 °C	17 kWh
929004242902	MAS LEDtube 1500mm HO 16.7W 865 T8 EELB	-20 to +45 °C	17 kWh
929001375602	MAS LEDtube 1050mm 16W 830 T8	-20 °C to +45 °C	16 kWh



MASTER LEDtube EM/Mains T8 with Recycled Plastic



MASTER LEDtube EM/Mains T8 with Recycled Plastic

