



For top performance and sustainability

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. 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 masters 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
- Extra-long life up to 75,000 hours
- 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
- 160° small beam angle to ensure higher flux where needed
- No mercury

Applications

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

Features

- Retrofit existing T8 lamps on EM ballast or mains
- > 50% energy savings compared to fluorescent tubes with up to 185lm/W

• NOTE: The overall energy efficiency and light distribution of any installation that uses these lamps will be determined by the design of the installation.

Versions



LEDtube T8 G13 2

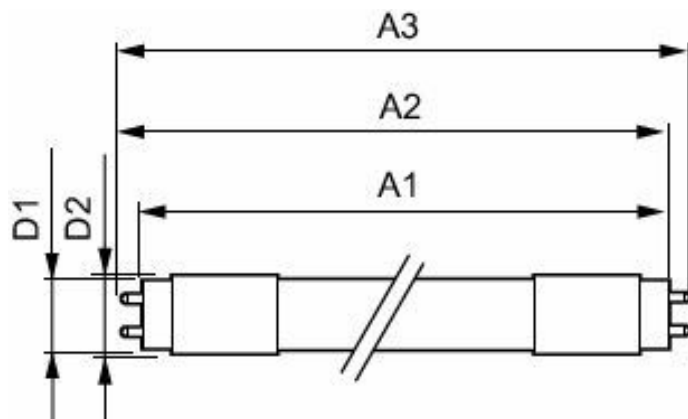


Standard Product Photo

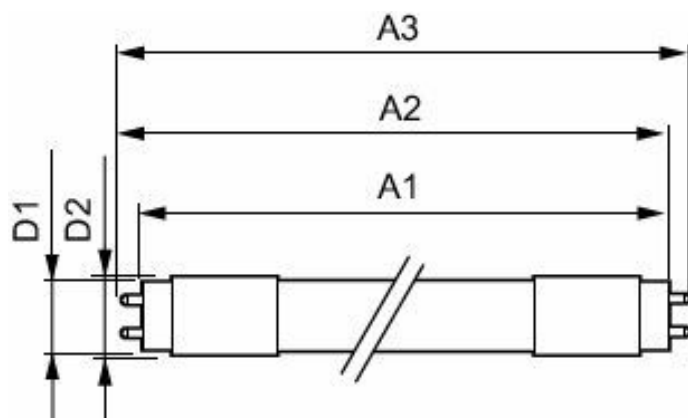


LEDtube MAS GM 20,5W G13

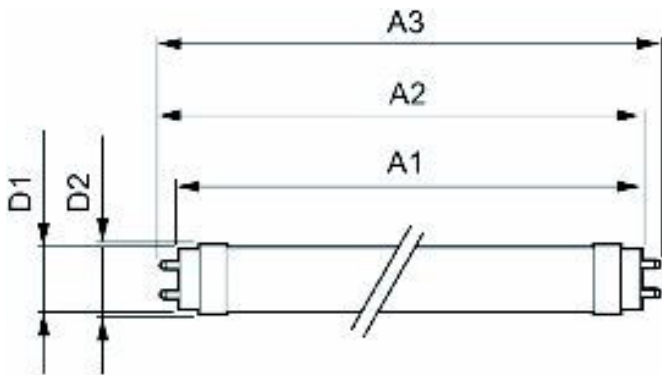
Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm 20.5W 850 T8 JP G2	25.8 mm	28.1 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm 20.5W 865 T8 JP G2	25.8 mm	28.1 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm



Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm HO 13W830 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm HO 13W840 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm HO 13W865 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 1200mm MO 23W840 T8	25.7 mm	28 mm	1,199.4 mm	1,206.5 mm	1,213.6 mm
MAS LEDtube 1200mm MO 23W865 T8	25.7 mm	28 mm	1,199.4 mm	1,206.5 mm	1,213.6 mm
MAS LEDtube 600mm HO 8W830 T8	25.8 mm	28 mm	595.7 mm	598.8 mm	604 mm
MAS LEDtube 600mm HO 8W840 T8	25.8 mm	28 mm	595.7 mm	598.8 mm	604 mm
MAS LEDtube 600mm HO 8W865 T8	25.8 mm	28 mm	595.7 mm	598.8 mm	604 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



D1	D2	A1	A2	A3
26mm	28mm	1198mm	1205mm	1212mm

Product	D1	D2	A1	A2	A3
MAS LEDtube DE 1200mm 13W840 100-240V T8	26 mm	28 mm	1,198 mm	1,205 mm	1,212 mm
MAS LEDtube DE 1200mm 13W865 100-240V T8	26 mm	28 mm	1,198 mm	1,205 mm	1,212 mm

General Information

Cap-Base	G13
Switching Cycle	200,000

Light Technical

LLMF At End Of Nominal Lifetime (Nom)	70 %
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Operating and Electrical

Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Starting Time (Nom)	0.5 s

Controls and Dimming

Dimmable	No
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Mechanical and Housing

Bulb Finish	Frosted
Bulb Shape	T8

General Information

Order Code	Full Product Name	Nominal lifetime
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	60,000 hour(s)
929003556208	MAS LEDtube 1200mm HO 14W865 T8	60,000 hour(s)
929003805708	MAS LEDtube 600mm HO 8W830 T8	60,000 hour(s)
929003805808	MAS LEDtube 600mm HO 8W840 T8	60,000 hour(s)
929003805908	MAS LEDtube 600mm HO 8W865 T8	60,000 hour(s)

Order Code	Full Product Name	Nominal lifetime
929003806008	MAS LEDtube 1200mm HO 13W830 T8	60,000 hour(s)
929003806108	MAS LEDtube 1200mm HO 13W840 T8	60,000 hour(s)
929003806208	MAS LEDtube 1200mm HO 13W865 T8	60,000 hour(s)
929004246008	MAS LEDtube 1200mm MO 23W840 T8	60,000 hour(s)
929004246108	MAS LEDtube 1200mm MO 23W865 T8	60,000 hour(s)
929002320988	MAS LEDtube 1200mm 20.5W 850 T8 JP G2	50,000 hour(s)
929002321068	MAS LEDtube 1200mm 20.5W 865 T8 JP G2	50,000 hour(s)
929002483608	MAS LEDtube DE 1200mm 13W865 100-240V T8	50,000 hour(s)
929002489008	MAS LEDtube DE 1200mm 13W840 100-240V T8	50,000 hour(s)

Light Technical

Order Code	Full Product Name	Color Code	Beam Angle (Nom)	Luminous Flux	Correlated Color Temperature (Nom)	Color rendering index (CRI)
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	865	190 degree(s)	1,600 lm	6500 K	80
929003556208	MAS LEDtube 1200mm HO 14W865 T8	865	190 degree(s)	2,100 lm	6500 K	80
929003805708	MAS LEDtube 600mm HO 8W830 T8	830	190 degree(s)	1,150 lm	3000 K	80
929003805808	MAS LEDtube 600mm HO 8W840 T8	840	190 degree(s)	1,200 lm	4000 K	80
929003805908	MAS LEDtube 600mm HO 8W865 T8	865	190 degree(s)	1,200 lm	6500 K	80
929003806008	MAS LEDtube 1200mm HO 13W830 T8	830	190 degree(s)	2,000 lm	3000 K	80
929003806108	MAS LEDtube 1200mm HO 13W840 T8	840	190 degree(s)	2,100 lm	4000 K	80
929003806208	MAS LEDtube 1200mm HO 13W865 T8	865	190 degree(s)	2,100 lm	6500 K	80
929004246008	MAS LEDtube 1200mm MO 23W840 T8	840	160 degree(s)	3,700 lm	4000 K	80
929004246108	MAS LEDtube 1200mm MO 23W865 T8	865	160 degree(s)	3,700 lm	6500 K	80
929002320988	MAS LEDtube 1200mm 20.5W 850 T8 JP G2	850	190 degree(s)	3,300 lm	5000 K	83
929002321068	MAS LEDtube 1200mm 20.5W 865 T8 JP G2	865	190 degree(s)	3,300 lm	6500 K	83
929002483608	MAS LEDtube DE 1200mm 13W865 100-240V T8	865	240 degree(s)	2,100 lm	6500 K	80
929002489008	MAS LEDtube DE 1200mm 13W840 100-240V T8	840	240 degree(s)	2,100 lm	4000 K	80

Operating and Electrical

Order Code	Full Product Name	Power Consumption	Wattage Equivalent
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	10.5 W	-
929003556208	MAS LEDtube 1200mm HO 14W865 T8	14 W	-
929003805708	MAS LEDtube 600mm HO 8W830 T8	8 W	18 W
929003805808	MAS LEDtube 600mm HO 8W840 T8	8 W	18 W
929003805908	MAS LEDtube 600mm HO 8W865 T8	8 W	18 W
929003806008	MAS LEDtube 1200mm HO 13W830 T8	13 W	36 W
929003806108	MAS LEDtube 1200mm HO 13W840 T8	13 W	36 W
929003806208	MAS LEDtube 1200mm HO 13W865 T8	13 W	36 W
929004246008	MAS LEDtube 1200mm MO 23W840 T8	23 W	48 W
929004246108	MAS LEDtube 1200mm MO 23W865 T8	23 W	48 W
929002320988	MAS LEDtube 1200mm 20.5W 850 T8 JP G2	20.5 W	36 W

Order Code	Full Product Name	Power Consumption	Wattage Equivalent
929002321068	MAS LEDtube 1200mm 20.5W 865 T8 JP G2	20.5 W	36 W
929002483608	MAS LEDtube DE 1200mm 13W865 100-240V T8	13 W	-
929002489008	MAS LEDtube DE 1200mm 13W840 100-240V T8	13 W	-

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	50 °C
929003556208	MAS LEDtube 1200mm HO 14W865 T8	50 °C
929003805708	MAS LEDtube 600mm HO 8W830 T8	50 °C
929003805808	MAS LEDtube 600mm HO 8W840 T8	50 °C
929003805908	MAS LEDtube 600mm HO 8W865 T8	50 °C
929003806008	MAS LEDtube 1200mm HO 13W830 T8	50 °C
929003806108	MAS LEDtube 1200mm HO 13W840 T8	50 °C
929003806208	MAS LEDtube 1200mm HO 13W865 T8	50 °C
929004246008	MAS LEDtube 1200mm MO 23W840 T8	55 °C
929004246108	MAS LEDtube 1200mm MO 23W865 T8	55 °C
929002320988	MAS LEDtube 1200mm 20.5W 850 T8 JP G2	60 °C
929002321068	MAS LEDtube 1200mm 20.5W 865 T8 JP G2	60 °C
929002483608	MAS LEDtube DE 1200mm 13W865 100-240V T8	65 °C
929002489008	MAS LEDtube DE 1200mm 13W840 100-240V T8	65 °C

Approval and Application

Order Code	Full Product Name	Ambient temperature range
929003555908	MAS LEDtube STD 1200mm 10.5W865 T8	-20 °C to 45 °C
929003556208	MAS LEDtube 1200mm HO 14W865 T8	-20 °C to 45 °C
929003805708	MAS LEDtube 600mm HO 8W830 T8	-20 to +45 °C
929003805808	MAS LEDtube 600mm HO 8W840 T8	-20 to +45 °C
929003805908	MAS LEDtube 600mm HO 8W865 T8	-20 to +45 °C
929003806008	MAS LEDtube 1200mm HO 13W830 T8	-20 to +45 °C
929003806108	MAS LEDtube 1200mm HO 13W840 T8	-20 to +45 °C
929003806208	MAS LEDtube 1200mm HO 13W865 T8	-20 to +45 °C
929004246008	MAS LEDtube 1200mm MO 23W840 T8	-20 to +45 °C
929004246108	MAS LEDtube 1200mm MO 23W865 T8	-20 to +45 °C
929002320988	MAS LEDtube 1200mm 20.5W 850 T8 JP G2	-20 to +45 °C
929002321068	MAS LEDtube 1200mm 20.5W 865 T8 JP G2	-20 to +45 °C
929002483608	MAS LEDtube DE 1200mm 13W865 100-240V T8	-20 °C to 45 °C
929002489008	MAS LEDtube DE 1200mm 13W840 100-240V T8	-20 °C to 45 °C