



For top performance and sustainability

MASTER LEDtube T8 UltraEfficient

With energy prices rising and the EU's Green Deal² continuing to fund energy efficient building renovations, many are looking into make their company's lighting more sustainable. The new Philips MASTER LEDtube Ultra Efficient T8 is a true breakthrough on the way to more sustainable lighting. It replaces your current fluorescent tube or LED tube directly and offers immediately great energy cost reduction as well as a much longer lifetime!

Benefits

- Absolute performance in energy saving: up to 44% compared with standard LED tube
- Reliable performance of up to 100,000 hours
- Energy cost and CO₂ savings from the start

Features

- Ultra efficiency achieves an incredible class A/B energy efficiency rating
- Up to 100,000 hours lifetime
- Rotatable end-cap that gives light where needed
- 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

Application

- Industry & warehouse
- Office, education & retail

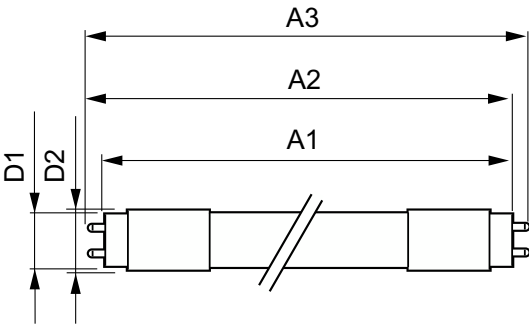
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Versions



LEDtube 1200mm 15W G13

Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1500mm UE 20W 865 T8	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
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
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Shape	T8

Order Code	Full Product Name	Nominal lifetime
33978100	MAS LEDtube 1500mm UE 20W 865 T8	75,000 hour(s)
28170700	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	100,000 hour(s)
28172100	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	100,000 hour(s)

Light Technical

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Order Code	Full Product Name	Correlated Color	Color	Luminous Flux
		Temperature (Nom)	Code	
33978100	MAS LEDtube 1500mm UE 20W 865 T8	6500 K	865	3,700 lm
28170700	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	4000 K	840	2,500 lm

Order Code	Full Product Name	Correlated Color	Color	Luminous Flux
		Temperature (Nom)	Code	
28172100	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	6500 K	865	2,500 lm

Operating and Electrical

Order Code	Full Product Name	Line Frequency	Power Consumption	Starting	Wattage Equivalent
				Time (Nom)	
33978100	MAS LEDtube 1500mm UE 20W 865 T8	50 to 60 Hz	20 W	0.5 s	-
28170700	MAS LEDtube 1200mm UE	-	11.9 W	1 s	36 W

Order Code	Full Product Name	Line Frequency	Power Consumption	Starting	Wattage Equivalent
				Time (Nom)	
	11.9W 840 T8 EELA				
28172100	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	-	11.9 W	1 s	36 W

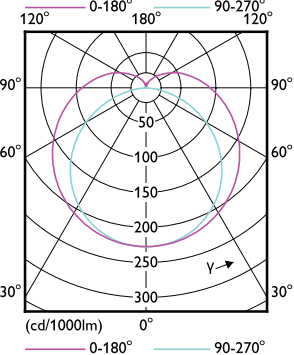
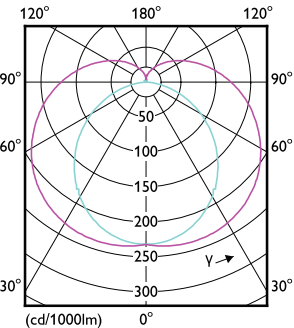
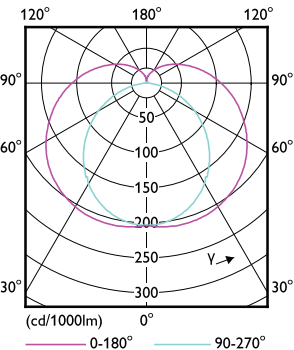
Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
33978100	MAS LEDtube 1500mm UE 20W 865 T8	60 °C
28170700	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	40 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
28172100	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	40 °C

Approval and Application

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
33978100	MAS LEDtube 1500mm UE 20W 865 T8	-20 °C to 45 °C	20 kWh
28170700	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	-20 to +45 °C	-
28172100	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	-20 to +45 °C	-



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