



# For top performance and sustainability

## MASTER LEDtube T8 UltraEfficient

With energy prices rising and the EU's Green Deal<sup>2</sup> 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 70% compared with conventional fluorescent tube
- Reliable performance of up to 100,000 hours
- Up to 70% CO<sub>2</sub> savings when compared to conventional fluorescent tube

### Features

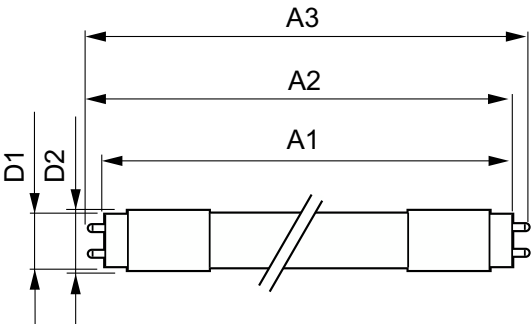
- Ultra efficiency achieve an incredible 210lm/W
- Up to 100,000 hours lifetime
- Plastic design makes it true shatterproof according to IEC 61549 standards
- Rotatable end-cap that gives light where needed
- HACCP-enabled, supported by product level NSF certificate

### Application

- Industry & warehouse
- Office, education & retail

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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 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 1200mm UE 13.5W 840 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1200mm UE 13.5W 865 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
MAS LEDtube 1500mm UE 17.6W 840 T8 EELA	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 1500mm UE 20W 840 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
929003067002	MAS LEDtube 1200mm UE 13.5W 840 T8	75,000 hour(s)
929003067102	MAS LEDtube 1200mm UE 13.5W 865 T8	75,000 hour(s)
929003067202	MAS LEDtube 1500mm UE 20W 840 T8	75,000 hour(s)
929003482202	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	100,000 hour(s)
929003482208	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	100,000 hour(s)
929003482302	MAS LEDtube 1500mm UE 17.6W 840 T8 EELA	100,000 hour(s)
929003731808	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	100,000 hour(s)

Light Technical

Order Code	Full Product Name	Correlated Color		
		Temperature (Nom)	Color Code	Luminous Flux
929003067002	MAS LEDtube 1200mm UE 13.5W 840 T8	4000 K	840	2,500 lm
929003067102	MAS LEDtube 1200mm UE 13.5W 865 T8	6500 K	865	2,500 lm
929003067202	MAS LEDtube 1500mm UE 20W 840 T8	4000 K	840	3,700 lm
929003482202	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	4000 K	840	2,500 lm

Order Code	Full Product Name	Correlated Color		
		Temperature (Nom)	Color Code	Luminous Flux
929003482208	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	4000 K	840	2,500 lm
929003482302	MAS LEDtube 1500mm UE 17.6W 840 T8 EELA	4000 K	840	3,700 lm
929003731808	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	6500 K	865	2,500 lm

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Operating and Electrical

Order Code	Full Product Name	Line Frequency	Power Consumption	Starting	
				Time (Nom)	Wattage Equivalent
929003067002	MAS LEDtube 1200mm UE 13.5W 840 T8	50 to 60 Hz	13.5 W	0.5 s	-
929003067102	MAS LEDtube 1200mm UE 13.5W 865 T8	50 to 60 Hz	13.5 W	0.5 s	-
929003067202	MAS LEDtube 1500mm UE 20W 840 T8	50 to 60 Hz	20 W	0.5 s	-
929003482202	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	50 to 60 Hz	11.9 W	1 s	-

Order Code	Full Product Name	Line Frequency	Power Consumption	Starting	
				Time (Nom)	Wattage Equivalent
929003482208	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	-	11.9 W	1 s	36 W
929003482302	MAS LEDtube 1500mm UE 17.6W 840 T8 EELA	50 to 60 Hz	17.6 W	1 s	-
929003731808	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	-	11.9 W	1 s	36 W

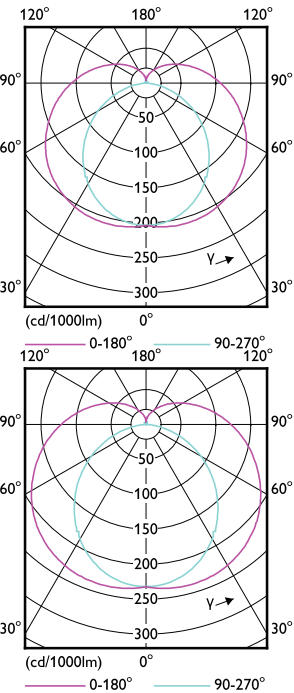
Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929003067002	MAS LEDtube 1200mm UE 13.5W 840 T8	55 °C
929003067102	MAS LEDtube 1200mm UE 13.5W 865 T8	55 °C
929003067202	MAS LEDtube 1500mm UE 20W 840 T8	60 °C
929003482202	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	40 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929003482208	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	40 °C
929003482302	MAS LEDtube 1500mm UE 17.6W 840 T8 EELA	45 °C
929003731808	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
929003067002	MAS LEDtube 1200mm UE 13.5W 840 T8	-20 °C to 45 °C	14 kWh
929003067102	MAS LEDtube 1200mm UE 13.5W 865 T8	-20 °C to 45 °C	14 kWh
929003067202	MAS LEDtube 1500mm UE 20W 840 T8	-20 °C to 45 °C	20 kWh
929003482202	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	-20 °C to 45 °C	12 kWh
929003482208	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	-20 to +45 °C	-
929003482302	MAS LEDtube 1500mm UE 17.6W 840 T8 EELA	-20 °C to 45 °C	18 kWh
929003731808	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	-20 to +45 °C	-



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