



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

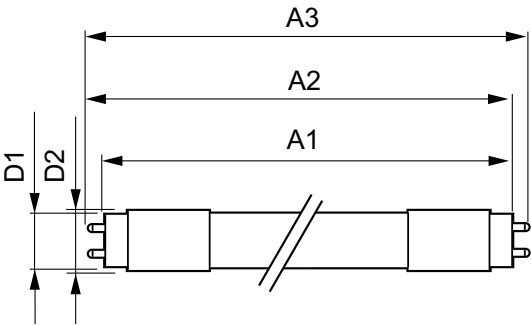
- Ultra efficiency achieves an incredible class A/B energy efficiency rating
- Up to 100,000 hours lifetime
- Rotatable end-cap that gives light where needed
- Shatterproof, passing drop test horizontally from a height of 4m on to a flat concrete according to IEC 61549
- Enable easy implementation of HACCP without need for additional guard, supported by product level NSF certificate

Application

- Industry & warehouse
- Office, education & retail

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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 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 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 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 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 830 T8	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 17.6W 865 T8 EELA	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 1500mm UE 17.6W 865 T8 EELA	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
MAS LEDtube 1500mm UE 20W 830 T8	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
MAS LEDtube 1500mm UE 20W 865 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm

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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

General Information

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)
929003067302	MAS LEDtube 1500mm UE 20W 865 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)
929003731802	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	100,000 hour(s)
929003731808	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	100,000 hour(s)
929003731810	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	100,000 hour(s)
929003731902	MAS LEDtube 1500mm UE 17.6W 865 T8 EELA	100,000 hour(s)
929003731910	MAS LEDtube 1500mm UE 17.6W 865 T8 EELA	100,000 hour(s)
929003745102	MAS LEDtube 1200mm UE 13.5W 830 T8	75,000 hour(s)
929003745202	MAS LEDtube 1500mm UE 20W 830 T8	75,000 hour(s)
929004243608	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	100,000 hour(s)
929004243708	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
929003067302	MAS LEDtube 1500mm UE 20W 865 T8	6500 K	865	3,700 lm
929003482202	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	4000 K	840	2,500 lm
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
929003731802	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	6500 K	865	2,500 lm

Order Code	Full Product Name	Correlated Color		
		Temperature (Nom)	Color Code	Luminous Flux
929003731808	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	6500 K	865	2,500 lm
929003731810	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	6500 K	865	2,500 lm
929003731902	MAS LEDtube 1500mm UE 17.6W 865 T8 EELA	6500 K	865	3,700 lm
929003731910	MAS LEDtube 1500mm UE 17.6W 865 T8 EELA	6500 K	865	3,700 lm
929003745102	MAS LEDtube 1200mm UE 13.5W 830 T8	3000 K	830	2,300 lm
929003745202	MAS LEDtube 1500mm UE 20W 830 T8	3000 K	830	3,400 lm
929004243608	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	4000 K	840	2,500 lm
929004243708	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	
				Time (Nom)	Wattage Equivalent
929003067002	MAS LEDtube 1200mm UE 13.5W 840 T8	50 to 60 Hz	13.5 W	0.5 s	-

Order Code	Full Product Name	Line Frequency	Power Consumption	Starting	
				Time (Nom)	Wattage Equivalent
929003067102	MAS LEDtube 1200mm UE 13.5W 865 T8	50 to 60 Hz	13.5 W	0.5 s	-

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Order Code	Full Product Name	Line Frequency	Power Consumption	Starting	
				Time (Nom)	Wattage Equivalent
929003067202	MAS LEDtube 1500mm UE 20W 840 T8	50 to 60 Hz	20 W	0.5 s	-
929003067302	MAS LEDtube 1500mm UE 20W 865 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	-
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	-
929003731802	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	-	11.9 W	1 s	-
929003731808	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	-	11.9 W	1 s	36 W
929003731810	MAS LEDtube 1200mm UE	-	11.9 W	0.5 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
929003067302	MAS LEDtube 1500mm UE 20W 865 T8	60 °C
929003482202	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	40 °C
929003482208	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	40 °C
929003482302	MAS LEDtube 1500mm UE 17.6W 840 T8 EELA	45 °C
929003731802	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

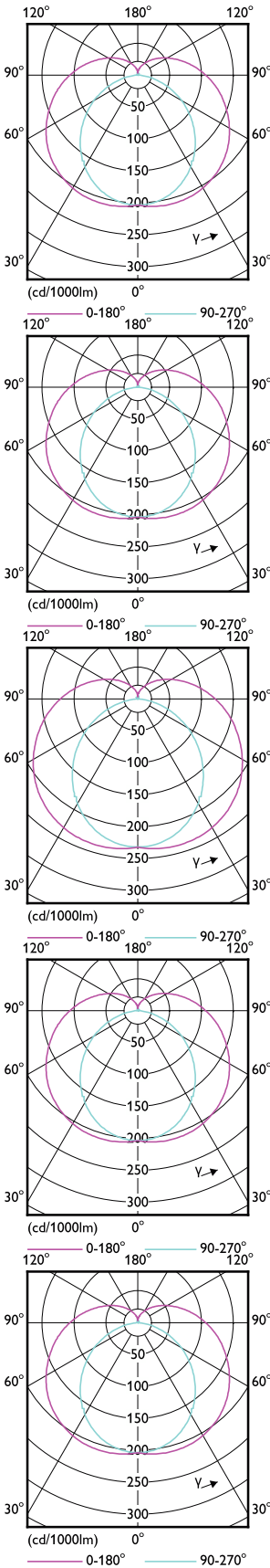
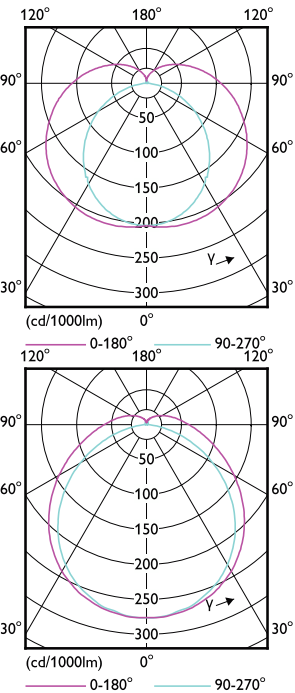
Order Code	Full Product Name	Line Frequency	Power Consumption	Starting	
				Time (Nom)	Wattage Equivalent
	11.9W 865 T8 EELA				
929003731902	MAS LEDtube 1500mm UE 17.6W 865 T8 EELA	-	17.6 W	1 s	-
929003731910	MAS LEDtube 1500mm UE 17.6W 865 T8 EELA	-	17.6 W	0.5 s	58 W
929003745102	MAS LEDtube 1200mm UE 13.5W 830 T8	-	13.5 W	1 s	-
929003745202	MAS LEDtube 1500mm UE 20W 830 T8	-	20 W	1 s	-
929004243608	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	-	11.9 W	1 s	36 W
929004243708	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	-	11.9 W	1 s	36 W

Order Code	Full Product Name	T-Case Maximum (Nom)
929003731808	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	40 °C
929003731810	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	40 °C
929003731902	MAS LEDtube 1500mm UE 17.6W 865 T8 EELA	45 °C
929003731910	MAS LEDtube 1500mm UE 17.6W 865 T8 EELA	45 °C
929003745102	MAS LEDtube 1200mm UE 13.5W 830 T8	45 °C
929003745202	MAS LEDtube 1500mm UE 20W 830 T8	45 °C
929004243608	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	40 °C
929004243708	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	40 °C

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
929003067102	MAS LEDtube 1200mm UE 13.5W 865 T8	-20 °C to 45 °C	14 kWh

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Order Code	Full Product Name	Ambient temperature range	Energy
			Consumption kWh/1000 h
929003067202	MAS LEDtube 1500mm UE 20W 840 T8	-20 °C to 45 °C	20 kWh
929003067302	MAS LEDtube 1500mm UE 20W 865 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
929003731802	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	-20 to +45 °C	12 kWh
929003731808	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	-20 to +45 °C	-
929003731810	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	-20 to +45 °C	-
929003731902	MAS LEDtube 1500mm UE 17.6W 865 T8 EELA	-20 to +45 °C	18 kWh
929003731910	MAS LEDtube 1500mm UE 17.6W 865 T8 EELA	-20 to +45 °C	-
929003745102	MAS LEDtube 1200mm UE 13.5W 830 T8	-20 to +45 °C	14 kWh
929003745202	MAS LEDtube 1500mm UE 20W 830 T8	-20 to +45 °C	20 kWh
929004243608	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	-20 to +45 °C	-
929004243708	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	-20 to +45 °C	-



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