



# 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
- $\cdot$  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

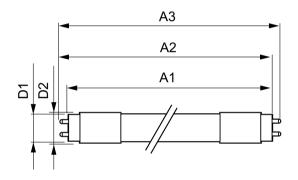
# **MASTER LEDtube T8 UltraEfficient**

# Versions



#### LEDtube 1200mm 15W G13

# Dimensional drawing



Product	D1	D2	A1	A2	А3
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	70 %
(Nom)	
Operating and Electrical	
Input Frequency	50 to 60 Hz
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Shape	Т8

#### **General Information**

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

# **MASTER LEDtube T8 UltraEfficient**

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

			Color	
Order Code   F	Full Product Name	Temperature (Nom)	Code	Luminous Flux
28172100 I	MAS LEDtube 1200mm UE	6500 K	865	2,500 lm
1	11.9W 865 T8 EELA			

# Operating and Electrical

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

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

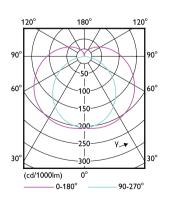
#### Temperature

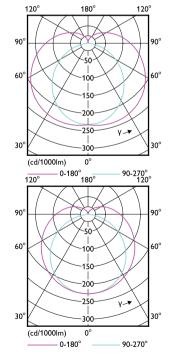
Order Code	Full Product Name	T-Case Maximum (Nom)
33978100	MAS LEDtube 1500mm UE 20W 865 T8	60 ℃
28170700	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	40 °C

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

# **Approval and Application**

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





3

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