



# 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 44% compared with standard LED tube
- Reliable performance of up to 100,000 hours
- Energy cost and CO<sub>2</sub> savings from the start

### Features

- Ultra efficiency achieve an incredible class A/B energy efficiency rating
- 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

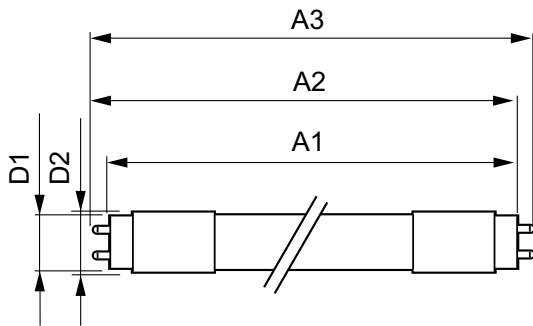
# MASTER LEDtube T8 UltraEfficient

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

# MASTER LEDtube T8 UltraEfficient

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
Line Frequency	50 to 60 Hz
Temperature	
Ambient temperature range	-20 °C to 45 °C
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)
929003482302	MAS LEDtube 1500mm UE 17.6W 840 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

Order Code	Full Product Name	Correlated Color		
		Temperature (Nom)	Color Code	Luminous Flux
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
929003482302	MAS LEDtube 1500mm UE 17.6W 840 T8 EELA	4000 K	840	3,700 lm

## Operating and Electrical

Order Code	Full Product Name	Power	Starting Time
		Consumption	(Nom)
929003067002	MAS LEDtube 1200mm UE 13.5W 840 T8	13.5 W	0.5 s
929003067102	MAS LEDtube 1200mm UE 13.5W 865 T8	13.5 W	0.5 s
929003067202	MAS LEDtube 1500mm UE 20W 840 T8	20 W	0.5 s

Order Code	Full Product Name	Power	Starting Time
		Consumption	(Nom)
929003067302	MAS LEDtube 1500mm UE 20W 865 T8	20 W	0.5 s
929003482202	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	11.9 W	1 s
929003482302	MAS LEDtube 1500mm UE 17.6W 840 T8 EELA	17.6 W	1 s

## Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929003067002	MAS LEDtube 1200mm UE 13.5W 840 T8	55 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929003067102	MAS LEDtube 1200mm UE 13.5W 865 T8	55 °C

# MASTER LEDtube T8 UltraEfficient

Order Code	Full Product Name	T-Case Maximum (Nom)
929003067202	MAS LEDtube 1500mm UE 20W 840 T8	60 °C
929003067302	MAS LEDtube 1500mm UE 20W 865 T8	60 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929003482202	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	40 °C
929003482302	MAS LEDtube 1500mm UE 17.6W 840 T8 EELA	45 °C

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
929003067002	MAS LEDtube 1200mm UE 13.5W 840 T8	14 kWh
929003067102	MAS LEDtube 1200mm UE 13.5W 865 T8	14 kWh
929003067202	MAS LEDtube 1500mm UE 20W 840 T8	20 kWh
929003067302	MAS LEDtube 1500mm UE 20W 865 T8	20 kWh
929003482202	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	12 kWh
929003482302	MAS LEDtube 1500mm UE 17.6W 840 T8 EELA	18 kWh

