



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

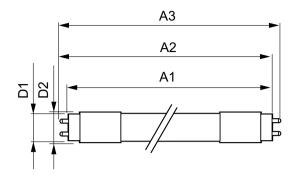
Features

- · 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

Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm UE	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
11.9W 840 T8 EELA					
MAS LEDtube 1200mm UE	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
11.9W 840 T8 EELA					
MAS LEDtube 1200mm UE	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
11.9W 840 T8 EELA					
MAS LEDtube 1200mm UE	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
11.9W 865 T8 EELA					
MAS LEDtube 1200mm UE	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
11.9W 865 T8 EELA					
MAS LEDtube 1200mm UE	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
13.5W 840 T8					
MAS LEDtube 1200mm UE	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
13.5W 865 T8					
MAS LEDtube 1500mm UE	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
17.6W 865 T8 EELA					
MAS LEDtube 1500mm UE 20W	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
840 T8					
MAS LEDtube 1500mm UE 20W	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
865 T8					

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	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)
929003731808	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)
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

		Correlated Color			
		Temperature	Color	Luminous	
Order Code	Full Product Name	(Nom)	Code	Flux	
929003067002	MAS LEDtube 1200mm	4000 K	840	2,500 lm	
	UE 13.5W 840 T8				

		Correlated Color Temperature Color Luminous		
Order Code	Full Product Name	(Nom)	Code	Flux
929003067102	MAS LEDtube 1200mm	6500 K	865	2,500 lm
	UE 13.5W 865 T8			

		Correlated Color		
		Temperature	Color	Luminous
Order Code	Full Product Name	(Nom)	Code	Flux
929003067202	MAS LEDtube 1500mm	4000 K	840	3,700 lm
	UE 20W 840 T8			
929003067302	MAS LEDtube 1500mm	6500 K	865	3,700 lm
	UE 20W 865 T8			
929003482202	MAS LEDtube 1200mm	4000 K	840	2,500 lm
	UE 11.9W 840 T8 EELA			
929003482208	MAS LEDtube 1200mm	4000 K	840	2,500 lm
	UE 11.9W 840 T8 EELA			

		Correlated Color		
		Temperature	Color	Luminous
Order Code	Full Product Name	(Nom)	Code	Flux
929003731808	MAS LEDtube 1200mm	6500 K	865	2,500 lm
	UE 11.9W 865 T8 EELA			
929003731902	MAS LEDtube 1500mm	6500 K	865	3,700 lm
	UE 17.6W 865 T8 EELA			
929004243608	MAS LEDtube 1200mm	4000 K	840	2,500 lm
	UE 11.9W 840 T8 EELA			
929004243708	MAS LEDtube 1200mm	6500 K	865	2,500 lm
	UE 11.9W 865 T8 EELA			

Operating and Electrical

Product ne S LEDtube	Line Frequency	Power	Starting Time	Wattage
ne			Time	Wattage
	Frequency	Concumption		
S LEDtube		Consumption	(Nom)	Equivalent
	50 to 60 Hz	13.5 W	0.5 s	-
0mm UE				
W 840 T8				
S LEDtube	50 to 60 Hz	13.5 W	0.5 s	-
0mm UE				
W 865 T8				
S LEDtube	50 to 60 Hz	20 W	0.5 s	-
0mm UE				
V 840 T8				
S LEDtube	50 to 60 Hz	20 W	0.5 s	-
Omm UE				
V 865 T8				
S LEDtube	50 to 60 Hz	11.9 W	1 s	-
0mm UE				
W 840 T8				
Α.				
S LEDtube	-	11.9 W	1 s	36 W
0mm UE				
	W 840 T8 S LEDtube Omm UE W 865 T8 S LEDtube Omm UE V 840 T8 S LEDtube Omm UE V 865 T8 S LEDtube Omm UE W 865 T8 S LEDtube Omm UE W 840 T8 S LEDtube	W 840 T8 S LEDtube 50 to 60 Hz Omm UE W 865 T8 S LEDtube 50 to 60 Hz Omm UE V 840 T8 S LEDtube 50 to 60 Hz Omm UE V 865 T8 S LEDtube 50 to 60 Hz Omm UE W 865 T8 S LEDtube 50 to 60 Hz Omm UE W 840 T8 A S LEDtube -	W 840 T8 S LEDtube 50 to 60 Hz 13.5 W Omm UE W 865 T8 S LEDtube 50 to 60 Hz 20 W Omm UE V 840 T8 S LEDtube 50 to 60 Hz 20 W Omm UE V 865 T8 S LEDtube 50 to 60 Hz 11.9 W Omm UE W 840 T8 A S LEDtube - 11.9 W	W 840 T8 S LEDtube 50 to 60 Hz 13.5 W 0.5 s Omm UE W 865 T8 S LEDtube 50 to 60 Hz 20 W 0.5 s Omm UE V 840 T8 S LEDtube 50 to 60 Hz 20 W 0.5 s Omm UE V 865 T8 S LEDtube 50 to 60 Hz 11.9 W 1s Omm UE W 840 T8 A S LEDtube - 11.9 W 1 s

	Full Product	Line	Power	Starting Time	Wattage
Order Code	Name	Frequency	Consumption	(Nom)	Equivalent
	11.9W 840 T8				
	EELA				
929003731808	MAS LEDtube	-	11.9 W	1 s	36 W
	1200mm UE				
	11.9W 865 T8				
	EELA				
929003731902	MAS LEDtube	-	17.6 W	1 s	-
	1500mm UE				
	17.6W 865 T8				
	EELA				
929004243608	MAS LEDtube	-	11.9 W	1 s	36 W
	1200mm UE				
	11.9W 840 T8				
	EELA				
929004243708	MAS LEDtube	-	11.9 W	1 s	36 W
	1200mm UE				
	11.9W 865 T8				
	EELA				

Temperature

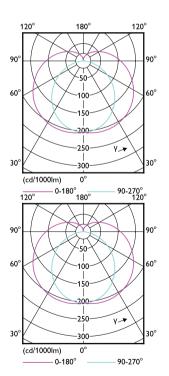
		T-Case Maximum
Order Code	Full Product Name	(Nom)
929003067002	MAS LEDtube 1200mm UE 13.5W 840 T8	55 °C
929003067102	MAS LEDtube 1200mm UE 13.5W 865 T8	55 °C
929003067202	MAS LEDtube 1500mm UE 20W 840 T8	60 °C
929003067302	MAS LEDtube 1500mm UE 20W 865 T8	60 °C
929003482202	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	40 °C

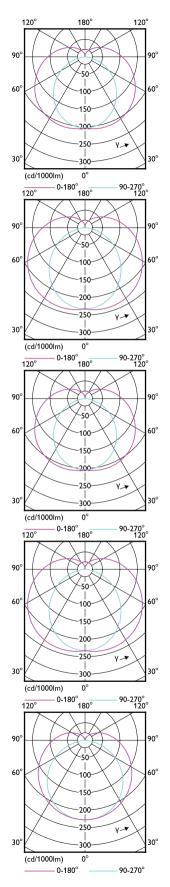
		T-Case Maximum
Order Code	Full Product Name	(Nom)
929003482208	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	40 °C
929003731808	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	40 °C
929003731902	MAS LEDtube 1500mm UE 17.6W 865 T8 EELA	45 °C
929004243608	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	40 °C
929004243708	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	40 °C

Approval and Application

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			Energy
		Ambient temperature	Consumption
Order Code	Full Product Name	range	kWh/1000 h
929003067002	MAS LEDtube 1200mm	-20 °C to 45 °C	14 kWh
	UE 13.5W 840 T8		
929003067102	MAS LEDtube 1200mm	-20 °C to 45 °C	14 kWh
	UE 13.5W 865 T8		
929003067202	MAS LEDtube 1500mm	-20 °C to 45 °C	20 kWh
	UE 20W 840 T8		
929003067302	MAS LEDtube 1500mm	-20 °C to 45 °C	20 kWh
	UE 20W 865 T8		
929003482202	MAS LEDtube 1200mm	-20 °C to 45 °C	12 kWh
	UE 11.9W 840 T8 EELA		
929003482208	MAS LEDtube 1200mm	-20 to +45 °C	-
	UE 11.9W 840 T8 EELA		
929003731808	MAS LEDtube 1200mm	-20 to +45 °C	-
	UE 11.9W 865 T8 EELA		
929003731902	MAS LEDtube 1500mm	-20 to +45 °C	18 kWh
	UE 17.6W 865 T8 EELA		
929004243608	MAS LEDtube 1200mm	-20 to +45 °C	-
	UE 11.9W 840 T8 EELA		
929004243708	MAS LEDtube 1200mm	-20 to +45 °C	-
	UE 11.9W 865 T8 EELA		







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