



For top performance and sustainability

MASTER LEDtube T8 Ultra Efficient

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 70% compared with conventional fluorescent tube
- · Reliable performance of up to 100,000 hours
- Up to 70% CO2 savings when compared to conventional fluorescent tube

Features

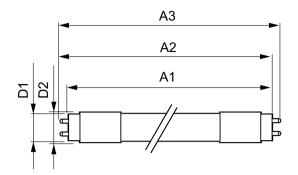
- · Ultra efficiency achieve an incredible 210lm/W
- \cdot Up to 100,000 hours lifetime
- \cdot Plastic design makes it true shatterproof according to IEC 61549 standards
- $\boldsymbol{\cdot}$ Rotatable end-cap that gives light where needed
- HACCP-enabled, supported by product level NSF certificate

Application

- · Industry & warehouse
- · Office, education & retail

MASTER LEDtube T8 UltraEfficient

Dimensional drawing



Product	D1	D2	A1	A2	А3
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
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 840 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					

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		
Switching Cycle 200,000 Light Technical Beam Angle (Nom) 160 degree(s) Color rendering index (CRI) 80 LLMF At End Of Nominal Lifetime (Nom) Operating and Electrical Input Frequency 50 to 60 Hz Controls and Dimming Dimmable No Mechanical and Housing Bulb Finish Frosted	General Information	
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	Cap-Base	G13 ROT
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	Switching Cycle	200,000
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		
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	Light Technical	
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	Beam Angle (Nom)	160 degree(s)
(Nom) Operating and Electrical Input Frequency 50 to 60 Hz Controls and Dimming Dimmable No Mechanical and Housing Bulb Finish Frosted	Color rendering index (CRI)	80
Operating and Electrical Input Frequency 50 to 60 Hz Controls and Dimming Dimmable No Mechanical and Housing Bulb Finish Frosted	LLMF At End Of Nominal Lifetime	70 %
Input Frequency 50 to 60 Hz Controls and Dimming Dimmable No Mechanical and Housing Bulb Finish Frosted	(Nom)	
Input Frequency 50 to 60 Hz Controls and Dimming Dimmable No Mechanical and Housing Bulb Finish Frosted		
Controls and Dimming Dimmable No Mechanical and Housing Bulb Finish Frosted	Operating and Electrical	
Dimmable No Mechanical and Housing Bulb Finish Frosted	Input Frequency	50 to 60 Hz
Dimmable No Mechanical and Housing Bulb Finish Frosted		
Mechanical and Housing Bulb Finish Frosted	Controls and Dimming	
Bulb Finish Frosted	Dimmable	No
Bulb Finish Frosted		
	Mechanical and Housing	
Bulb Shape T8	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)
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

		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			
929003067102	MAS LEDtube 1200mm	6500 K	865	2,500 lm
	UE 13.5W 865 T8			
929003067202	MAS LEDtube 1500mm	4000 K	840	3,700 lm
	UE 20W 840 T8			
929003482202	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
929003482208	MAS LEDtube 1200mm	4000 K	840	2,500 lm
	UE 11.9W 840 T8 EELA			
929003482302	MAS LEDtube 1500mm	4000 K	840	3,700 lm
	UE 17.6W 840 T8 EELA			
929003731808	MAS LEDtube 1200mm	6500 K	865	2,500 lm
	UE 11.9W 865 T8 EELA			

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Operating and Electrical

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

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

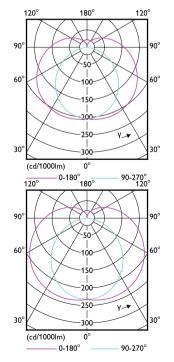
Temperature

		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
929003482202	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	40 °C

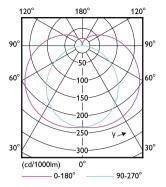
		T-Case Maximum
Order Code	Full Product Name	(Nom)
929003482208	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA	40 °C
929003482302	MAS LEDtube 1500mm UE 17.6W 840 T8 EELA	45 °C
929003731808	MAS LEDtube 1200mm UE 11.9W 865 T8 EELA	40 °C

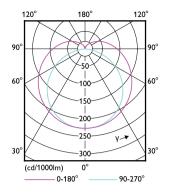
Approval and Application

			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		
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		
929003482302	MAS LEDtube 1500mm	-20 °C to 45 °C	18 kWh
	UE 17.6W 840 T8 EELA		
929003731808	MAS LEDtube 1200mm	-20 to +45 °C	-
	UE 11.9W 865 T8 EELA		



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