

MASTER LEDtube T8 UltraEfficient



MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

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!

Product data

General Information				
Cap-Base	G13 ROT			
Nominal lifetime	100,000 hour(s)			
Switching Cycle	200,000			
Lighting Technology	LED			
Flux measurement reference	Sphere			
Light Technical				
Color Code	840 [CCT of 4000K]			
Beam Angle (Nom)	160 degree(s)			
Luminous Flux	2,500 lm			
Color Designation	Cool White (CW)			
Correlated Color Temperature (Nom)	4000 K			
Luminous Efficacy (rated) (Nom)	210 lm/W			
Color Consistency	<6			
Color rendering index (CRI)	80			
LLMF At End Of Nominal Lifetime (Nom)	70 %			
Photobiological safety according to EN 62471	RG0			

Operating and Electrical	
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Power Consumption	11.9 W
Lamp Current (Max)	63 mA
Lamp Current (Min)	48 mA
Starting Time (Nom)	1s
Warm-up time to 60% light	1s
Power Factor (Fraction)	0.9
Voltage (Nom)	220-240 V
Ballast Compatibility	EM/Mains
LED alternative to fluorescent lamp power	36 W
Inrush current at mains	5
Max. lamp no. on MCB B type 10A - Mains	120
Max. lamp no. on MCB B type 10A – EM ballast	120
without Compensation Capacitor.	
Max. lamp no. on MCB B type 10A – EM ballast	15
with Compensation Capacitor.	
Max. lamp no. on MCB B type 16A - Mains	190

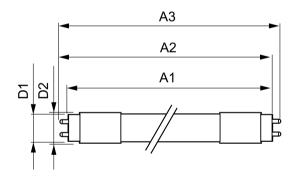
Datasheet, 2025, March 17 data subject to change

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Max. lamp no. on MCB B type 16A – EM ballast	190			
without Compensation Capacitor.				
Max. lamp no. on MCB B type 16A – EM ballast	25			
with Compensation Capacitor.				
Temperature				
T-Case Maximum (Nom)	40 °C			
Controls and Dimming				
Dimmable	No			
Mechanical and Housing				
Bulb Finish	Frosted			
Bulb Material	Plastic			
Product Length	1,200 mm			
Bulb Shape	Т8			
Net Weight (Piece)	0.230 kg			
Approval and Application				
Energy Efficiency Class	А			
Energy Saving Product	Yes			
Approval Marks	RoHS compliance CE marking KEMA			
	Keur certificate ENEC certificate			

Energy Consumption kWh/1000 h	12 kWh		
EPREL Registration Number	1013082		
CE mark	Yes		
EU RoHS compliant	Yes		
Flickering value (PstLM) - Flickering value as per	1		
EN 61000-3-3			
Stroboscopic effect visibility measure (SVM)	0.4		
Ambient temperature range	-20 °C to 45 °C		
Product Data			
Order product name	MAS LEDtube 1200mm UE 11.9W		
	840 T8 EELA		
Full product name	MAS LEDtube 1200mm UE 11.9W		
	840 T8 EELA		
Full product code	871951443166900		
Order code	929003482202		
Material Nr. (12NC)	929003482202		
Numerator - Quantity Per Pack	1		
EAN/UPC - Product/Case	8719514431669		
Numerator - Packs per outer box	10		
EAN/UPC - Case	8719514431676		

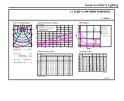
Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm UE 11.9W	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
840 T8 EELA					

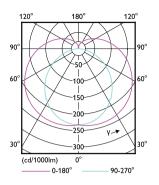
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Photometric data

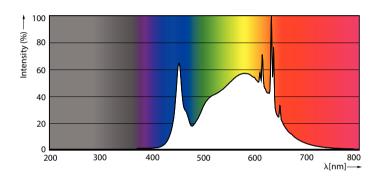


Calculus Photometrics 4.5 Philips Lighting B.V. Fago: 1

General uniform lighting - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

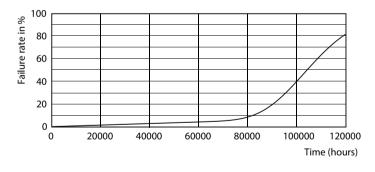


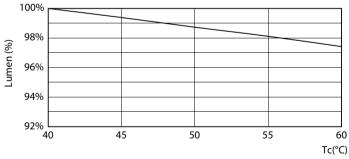
Light Distribution Diagram - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA



Spectral Power Distribution Colour - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

Lifetime



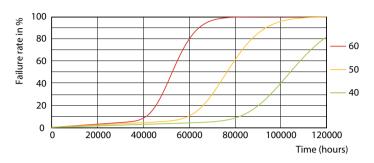


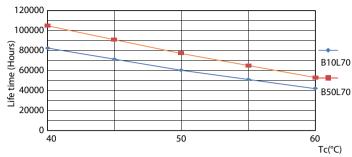
Life Expectancy Diagram

Lumen Maintenance Diagram - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

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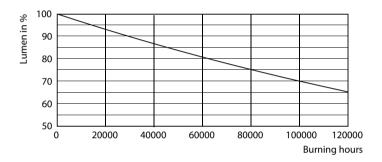
Lifetime





LEDtube_100K_4060_FailureRate-LED





Lumen Maintenance Diagram - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA



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