

MASTER LEDtube T8 UltraEfficient with Recycled Plastic

MAS LEDtube 1500mm UE 17.6W 840 T8 EELA

MASTER, LED, T8, EM/Mains, 1500 mm, 17.6 W, 58W TL-D, 4000 K, 3700 lm, CRI 80, 100000 hour(s)

With energy prices rising and the EU's Green Deal continuing to fund energy efficient building renovations, many are looking into make their company's lighting more sustainable. The new Philips MASTER LEDtube UltraEfficient 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		
Warranty period	10 years		
Light Technical			
Color Code	840 [CCT of 4000K]		
Beam Angle (Nom)	160 degree(s)		
Luminous Flux	3,700 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	17.6 W		

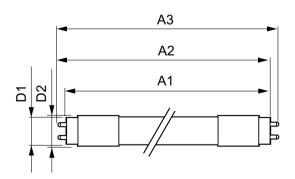
Datasheet, 2023, June 15 data subject to change

MASTER LEDtube T8 Ultra Efficient with Recycled Plastic

Lamp Current (Max)	93 mA
Lamp Current (Min)	73 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	220-240 V
LED alternative to fluorescent lamp power	58W TL-D
Inrush current at mains	5
Max. lamp no. on MCB B type 10A - Mains	80
Max. lamp no. on MCB B type 10A – EM ballast	80
without Compensation Capacitor.	
Max. lamp no. on MCB B type 10A – EM ballast	10
with Compensation Capacitor.	
Max. lamp no. on MCB B type 16A - Mains	130
Max. lamp no. on MCB B type 16A – EM ballast	130
without Compensation Capacitor.	
Max. lamp no. on MCB B type 16A – EM ballast	16
with Compensation Capacitor.	
Ballast Compatibility	EM/Mains
Temperature	
T-Case Maximum (Nom)	45 °C
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Material	Plastic
Product Length	1,500 mm
Bulb Shape	Т8
Net Weight (Piece)	0.285 kg
Approval and Application	
Energy Efficiency Class	A

Energy Saving Product	Yes			
Approval Marks	RoHS compliance CE marking			
	KEMA Keur certificate ENEC			
	certificate			
Energy Consumption kWh/1000 h	18 kWh			
EPREL Registration Number	2102397			
CE mark	Yes			
EU RoHS compliant	Yes			
LED Innovations	UltraEfficient			
Flickering value (PstLM) - Flickering value as per	0.1			
EN 61000-3-3				
Stroboscopic effect visibility measure (SVM)	0.1			
Ambient temperature range	-20 to +45 °C			
Post-consumer recycled plastic material ratio	40 %			
Product non-virgin material ratio	25.3 %			
Application Conditions				
can it be used in closed luminaires	Yes			
Product Data				
Order product name	MAS LEDtube 1500mm UE 17.6W			
	840 T8 EELA			
Full product name	MAS LEDtube 1500mm UE 17.6W			
	840 T8 EELA			
Full product code	871951443168300			
Order code	929003482302			
Material Nr. (12NC)	929003482302			
Numerator - Quantity Per Pack	1			
EAN/UPC - Product/Case	8719514431683			
	10			
Numerator - Packs per outer box				

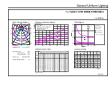
Dimensional drawing



Product	D1	D2	A1	A2	А3
MAS LEDtube 1500mm UE 17.6W	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
840 T8 EELA					

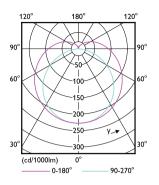
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Photometric data

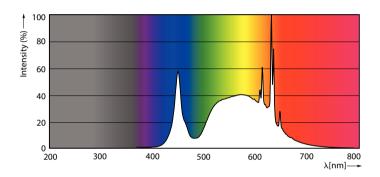


Calculus Presentation 4.5 Philips Lighting B.V. Page: 1

General uniform lighting - MAS LEDtube 1500mm UE 17.6W 840 T8 EELA

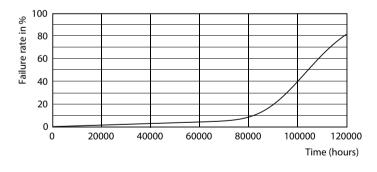


Light Distribution Diagram - MAS LEDtube 1500mm UE 17.6W 840 T8 EELA



Spectral Power Distribution Colour - MAS LEDtube 1500mm UE 17.6W 840 T8 EELA

Lifetime



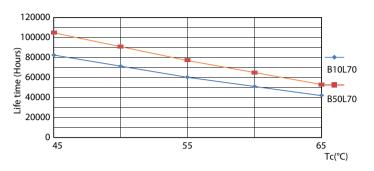
98% 98% 96% 94% 92% 45 50 55 60 65 Tc(°C)

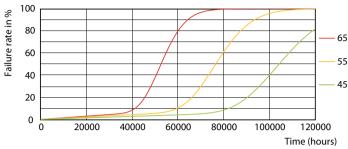
Life Expectancy Diagram

Lumen Maintenance Diagram - MAS LEDtube 1500mm UE 17.6W 840 T8 EELA

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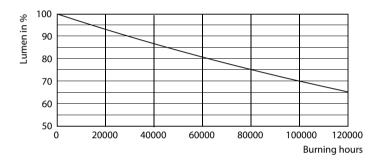
Lifetime





LifetimeVsTc





Lumen Maintenance Diagram - MAS LEDtube 1500mm UE 17.6W 840 T8 EELA



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