



MASTER LED tube T8 UltraEfficient with Recycled Plastic



MAS LEDtube 1500mm UE 17.6W 840 T8 EELA

MASTER, LEDtube, T8, EM/Mains, 1500 mm, 17.6 W, 58W TL-D, 4000 K, 3700 lm, CRI 80, 100000 h

With energy prices rising and the EU's Green Deal continuing to fund energy-efficient building renovations, many are looking to 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 immediate energy cost reductions as well as a much longer lifetime!

Product data

General Information		Sustainability Data	
Cap base	G13 Rotatable end-cap	Colour designation	Cool White (CW)
Nominal lifetime	100,000 h	Correlated Colour Temperature (Nom)	4000 K
Switching Cycle	200,000	Luminous efficacy (rated) (nom.)	210 lm/W
Lighting Technology	LEDtube	Colour consistency	<6
Flux measurement reference	Sphere	Colour rendering index (CRI)	80
Warranty period	10 years	LLMF at end of nominal lifetime (nom.)	70 %
Light Technical		Photobiological safety according to EN 62471	RGO
Colour Code	840 [CCT of 4000K]	Product non-virgin material ratio	25.3 %
Beam angle (nom.)	160 degree(s)		
Luminous Flux	3,700 lm		

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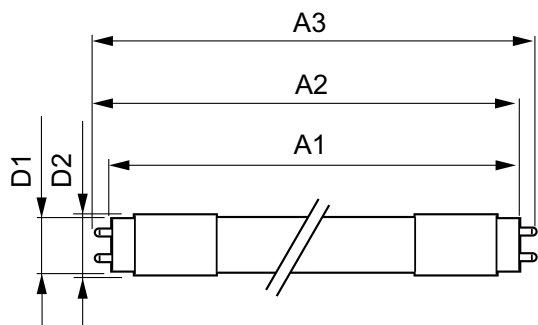
Operating and Electrical	
Line Frequency	50 to 60 Hz
Input frequency	50 to 60 Hz
Power Consumption	17.6 W
Lamp current (max.)	93 mA
Lamp current (min.)	73 mA
Starting time (nom.)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (nom.)	220-240 V
LED alternative to fluorescent 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 without Compensation Capacitor.	80
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	10
Max. lamp no. on MCB B type 16A — Mains	130
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	130
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	16
Ballast Compatibility	EM/Mains

Temperature	
T-Case maximum (nom.)	45 °C

Controls and Dimming	
Dimmable	No

Mechanical and Housing	
Lamp Finish	Frosted
Bulb material	Plastic
Product length	1,500 mm
Bulb shape	T8

Dimensional drawing



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/1,000 hours	18 kWh
EPREL Registration Number	2102397
CE mark	Yes
EU RoHS compliant	Yes
LED innovations	UltraEfficient
Flickering value (PstLM)	0.1
Stroboscopic effect	0.1
Ambient temperature range	-20 to +45 °C
Post-consumer recycled plastic material ratio	40 %

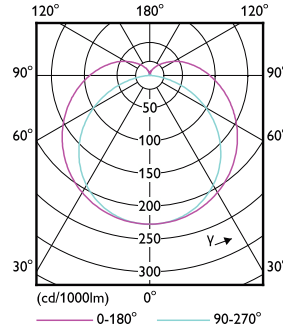
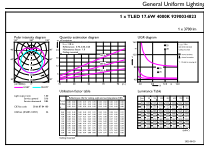
Application Conditions	
Can it be used in closed luminaires	Yes

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 EOC	871951443168300
Order code	929003482302
Material no. (12 NC)	929003482302
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8719514431683
Numerator – packs per outer box	10
EAN/UPC - Case	8719514431690

Product	D1	D2	A1	A2	A3
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

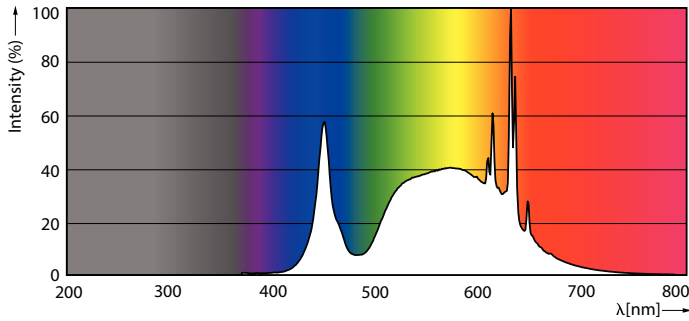
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Photometric data



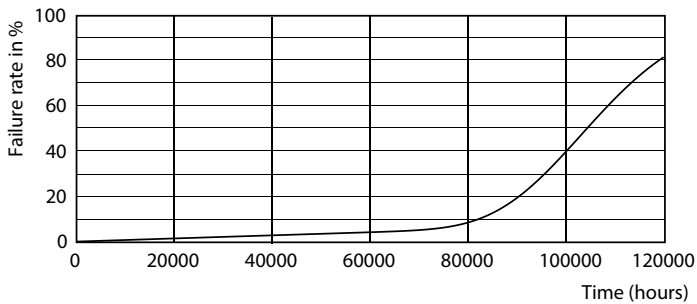
General uniform lighting - MAS LEDtube 1500mm UE 17.6W 840 T8 EELA

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

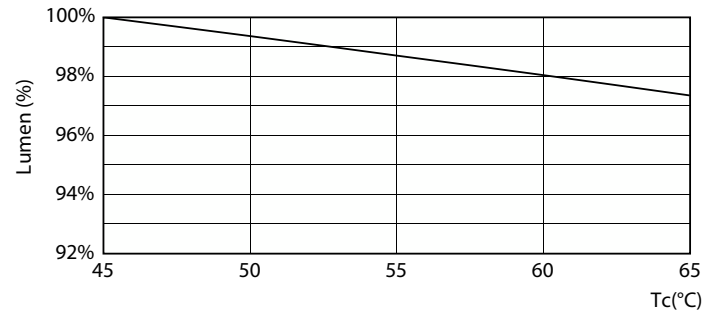


Spectral Power Distribution Colour - MAS LEDtube 1500mm UE 17.6W 840 T8 EELA

Lifetime



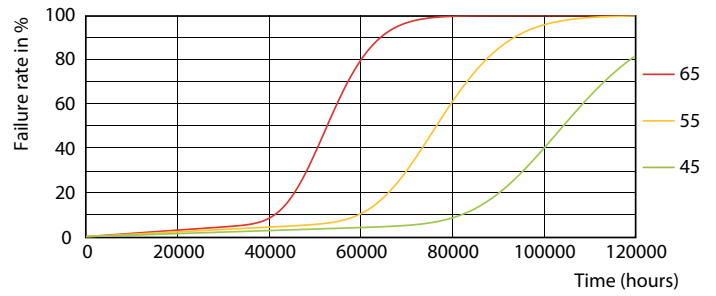
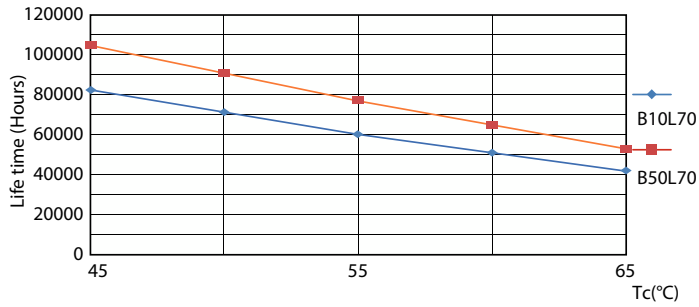
Life Expectancy Diagram



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

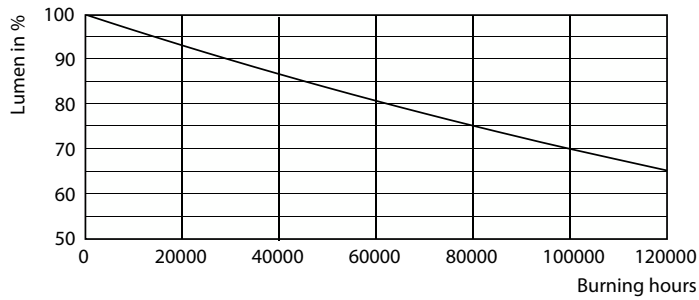
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Lifetime



LifetimeVsTc

LEDtube-100K-4565-FailureRate-LED



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