



MASTER LED tube T8 UltraEfficient with Recycled Plastic



MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

MASTER, LED, T8, EM/Mains, 1200 mm, 11.9 W, 36W TL-D, 4000 K, 2500 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		Correlated Colour Temperature (Nom)	
Cap base	G13 ROT	4000 K	
Nominal lifetime	100,000 h	Luminous efficacy (rated) (nom.)	
Switching Cycle	200,000	210 lm/W	
Lighting Technology	LED	Colour consistency	
Flux measurement reference	Sphere	<6	
		Colour rendering index (CRI)	
		80	
		LLMF at end of nominal lifetime (nom.)	
		70 %	
		Photobiological safety according to EN 62471	
		RG0	
Light Technical		Sustainability Data	
Colour Code	840 [CCT of 4000K]	Product non-virgin material ratio	
Beam angle (nom.)	160 degree(s)	26.5 %	
Luminous Flux	2,500 lm		
Colour designation	Cool White (CW)	Operating and Electrical	
		Line Frequency	
		50 to 60 Hz	

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Input frequency	50 to 60 Hz
Power Consumption	11.9 W
Lamp current (max.)	63 mA
Lamp current (min.)	48 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	36W TL-D
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 without Compensation Capacitor.	120
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	15
Max. lamp no. on MCB B type 16A — Mains	190
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	190
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	25
Ballast Compatibility	EM/Mains

Temperature

T-Case maximum (nom.)	40 °C
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Controls and Dimming

Dimmable	No
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Mechanical and Housing

Lamp Finish	Frosted
Bulb material	Plastic
Product length	1,200 mm
Bulb shape	T8
Net Weight (Piece)	0.230 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	12 kWh
EPREL Registration Number	2102398
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 %

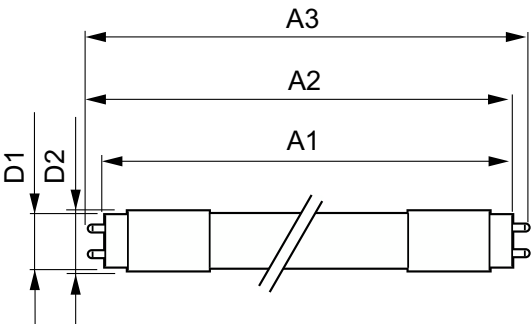
Application Conditions

Can it be used in closed luminaires	Yes
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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 EOC	871951443166900
Order code	43166900
Material no. (12 NC)	929003482202
Numerator – quantity per pack	1
EAN/UPC — Product/Case	8719514431669
Numerator – packs per outer box	10
EAN/UPC - Case	8719514431676

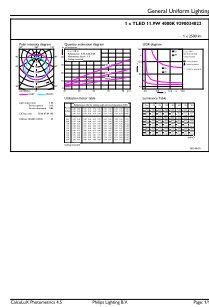
Dimensional drawing



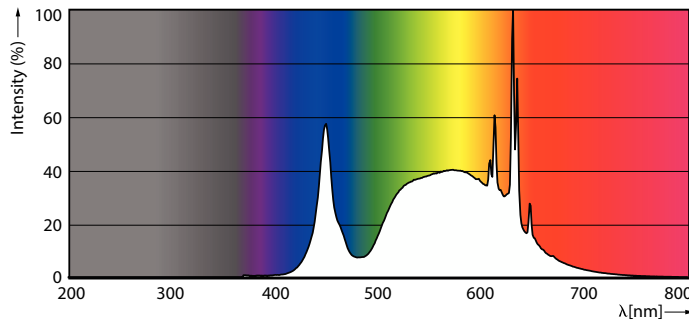
Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm UE 11.9W	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
840 T8 EELA					

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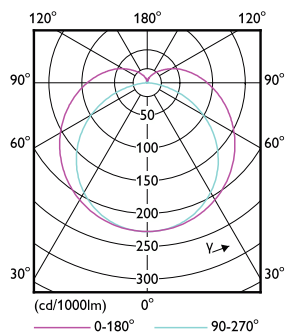
Photometric data



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

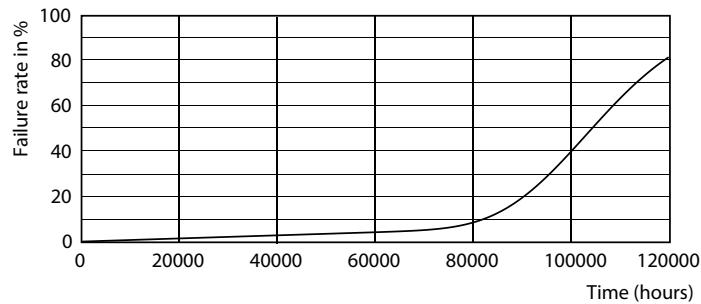


Spectral Power Distribution Colour - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

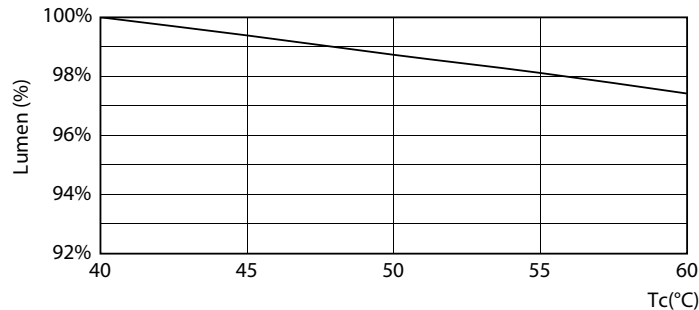


Light Distribution Diagram - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

Lifetime



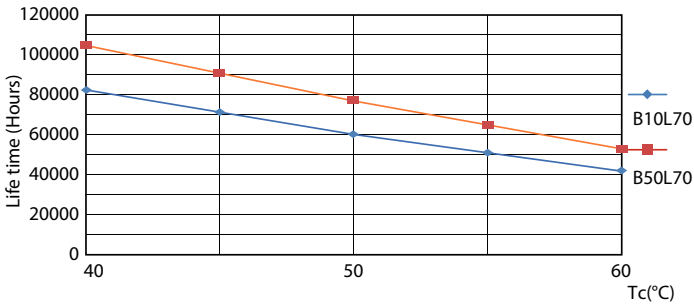
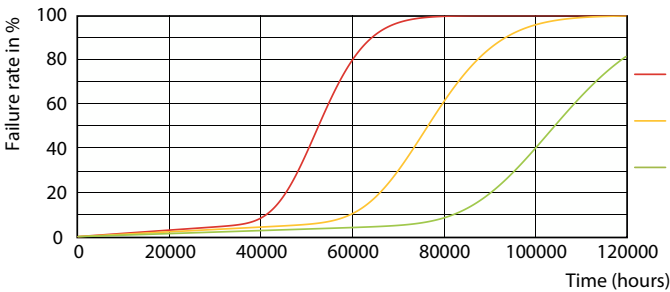
Life Expectancy Diagram



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

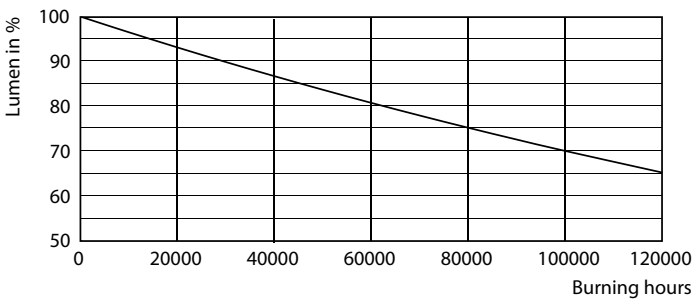
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Lifetime



LEDtube_100K_4060_FailureRate-LED

LifetimeVsTc



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