



MASTER LEDtube T8 Ultra Efficient



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 (Rotating) [Medium Bi-Pin Fluorescent]
Nominal lifetime	100,000 h
Switching Cycle	200,000
Lighting Technology	LED
Flux measurement reference	Sphere
CE mark	Yes
EU RoHS compliant	Yes

Light Technical	
Colour Code	840 [CCT of 4000K]
Beam angle (nom.)	160 degree(s)
Luminous Flux	2,500 lm
Colour designation	Cool White (CW)
Correlated Colour Temperature	4000 K
Luminous efficacy (rated) (nom.)	210 lm/W
Colour consistency	<6
Colour rendering index (CRI)	80

LLMF at end of nominal lifetime (nom.)	70 %
Flickering value (PstLM)	1
Stroboscopic effect	0.4
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
Starting time (nom.)	1 s
Warm-up time to 60% light	1 s
Power Factor (Fraction)	0.9
Voltage (nom.)	220-240 V
LED alternative to fluorescent lamp power	36 W

Temperature	
Ambient temperature range	-20°C to 45°C
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	Tube, double-ended

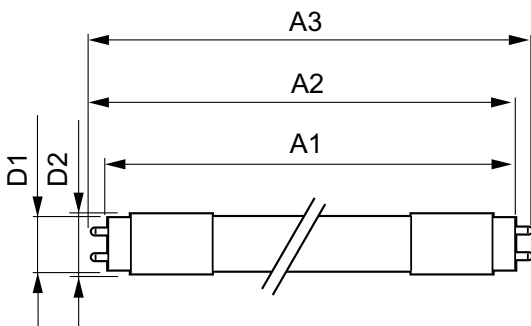
Approval and Application

Energy Efficiency Class	A
Energy-saving product	Yes
Approval marks	RoHS compliance TUV CE marking KEMA Keur certificate
Energy consumption kWh/1,000 hours	12 kWh
EPREL registration number	1013082

Product Data

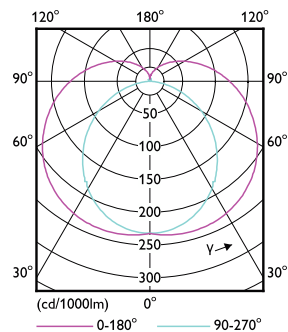
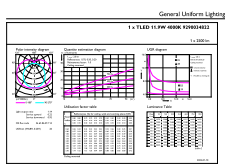
Full EOC	871951443166900
Order product name	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA
Order code	43166900
SAP numerator – quantity per pack	1
Numerator – packs per outer box	10
Material number (12NC)	929003482202
Full product name	MAS LEDtube 1200mm UE 11.9W 840 T8 EELA
EAN/UPC – Case	8719514431676
EAN/UPC – Product/Case	8719514431669

Dimensional drawing



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

Photometric data

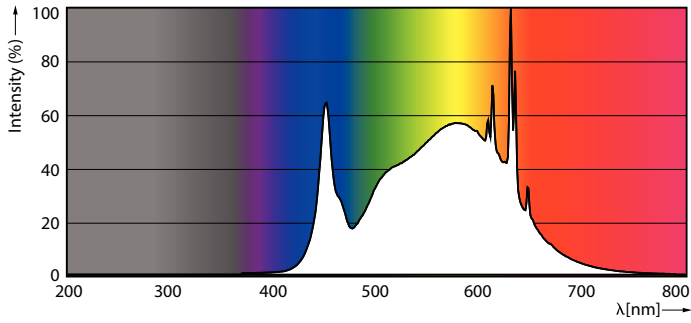


General uniform lighting - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

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

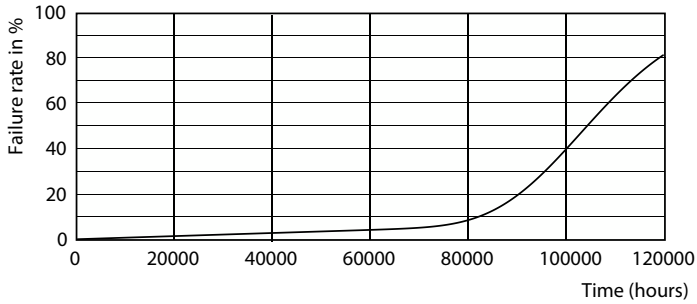
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Photometric data

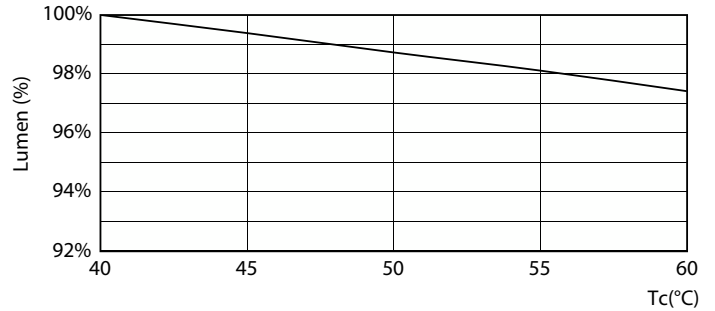


Spectral Power Distribution Colour - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA

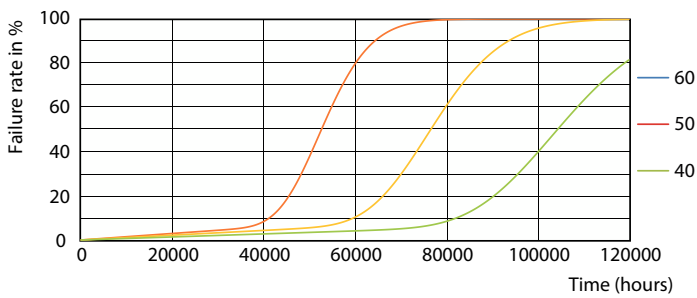
Lifetime



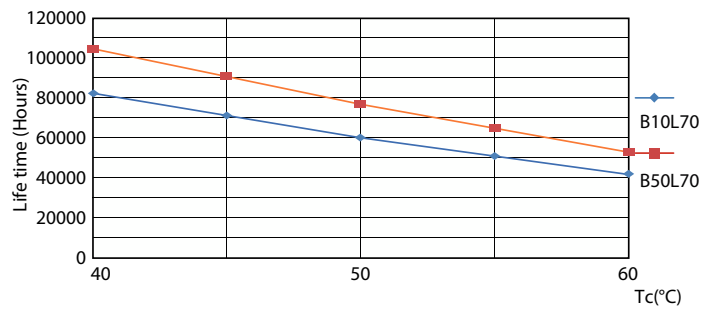
Life Expectancy Diagram - MAS LEDtube 1200mm UE 11.9W 840 T8 EELA



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



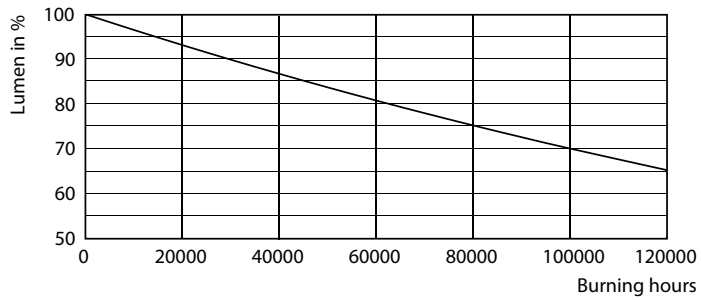
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Lifetime



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