



MASTER LEDtube EM/ Mains



MASTER LEDtube 600mm HO 8W830 T8

MASTER, LEDtube, T8, EM/Mains, 600 mm, 8 W, 18W TL-D, 3000 K, 1000 lm, CRI 80, 75000 h

The Philips MASTER LEDtube integrates a LED light source into a traditional fluorescent form factor. Its unique design creates a perfectly uniform visual appearance which cannot be distinguished from traditional fluorescent. This product is the ideal solution for up lighting in general lighting applications.

Warnings and Safety

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Product data

General Information		Colour consistency	
Cap base	G13 ROT	Colour consistency	<6
Nominal lifetime	75,000 h	Colour rendering index (CRI)	80
Switching Cycle	200,000	LLMF at end of nominal lifetime (nom.)	70 %
Lighting Technology	LEDtube	Photobiological safety according to EN 62471	RG0
Flux measurement reference	Sphere	Operating and Electrical	
Light Technical		Line Frequency	50 to 60 Hz
Colour Code	830 [CCT of 3000K]	Input frequency	50 to 60 Hz
Beam angle (nom.)	160 degree(s)	Power Consumption	8 W
Luminous Flux	1,000 lm	Lamp current (max.)	42 mA
Colour designation	White (WH)	Lamp current (min.)	36 mA
Correlated Colour Temperature (Nom)	3000 K	Starting time (nom.)	0.5 s
Luminous efficacy (rated) (nom.)	125 lm/W	Warm-up time to 60% light	0.5 s
		Power Factor (Fraction)	0.9

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Voltage (nom.)	220-240 V
LED alternative to fluorescent lamp power	18W TL-D
Inrush current at mains	7
Max. lamp no. on MCB B type 10A – Mains	105
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	125
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	30
Max. lamp no. on MCB B type 16A – Mains	170
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	290
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	49
Ballast Compatibility	EM/Mains

Temperature

T-Case maximum (nom.)	50 °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	600 mm
Bulb shape	T8
Net Weight (Piece)	0.100 kg

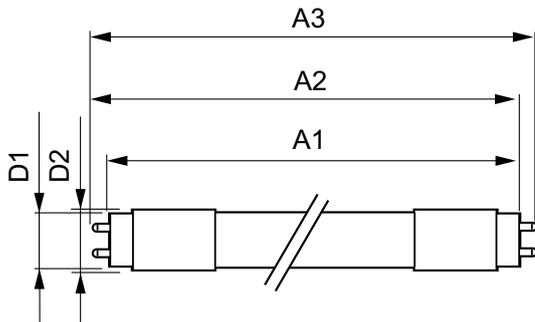
Approval and Application

Energy Efficiency Class	E
Energy-saving product	Yes
Approval marks	RoHS compliance CE marking KEMA Keur certificate ENEC certificate
Energy consumption kWh/1,000 hours	8 kWh
EPREL Registration Number	1571691
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM)	0.5
Stroboscopic effect	0.2
Ambient temperature range	-20°C to 45°C

Product Data

Order product name	MAS LEDtube 600mm HO 8W830 T8
Full product name	MASTER LEDtube 600mm HO 8W830 T8
Full EOC	871869669747400
Order code	69747400
Material no. (12 NC)	929001307002
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8718696697474
Numerator – packs per outer box	10
EAN/UPC – Case	8718696697481

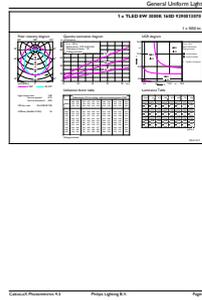
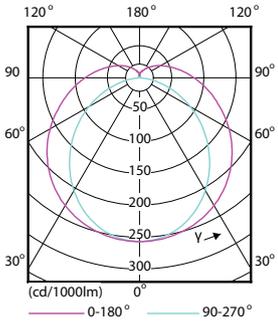
Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 600mm HO 8W830 T8	25.78 mm	28 mm	588.5 mm	595.5 mm	602.5 mm

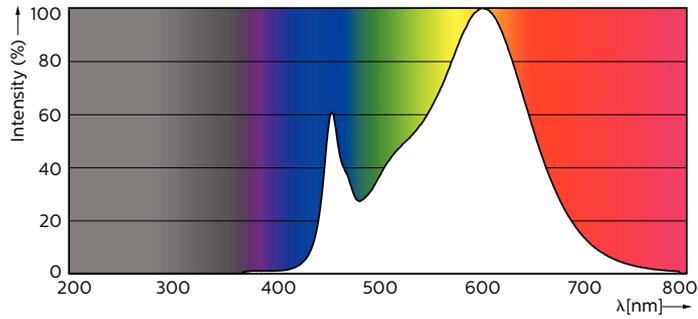
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Photometric data



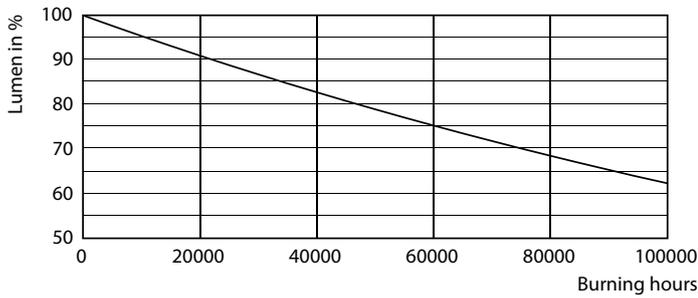
Light Distribution Diagram - MAS LEDtube 600mm HO 8W830 T8

General uniform lighting - MAS LEDtube 600mm HO 8W830 T8

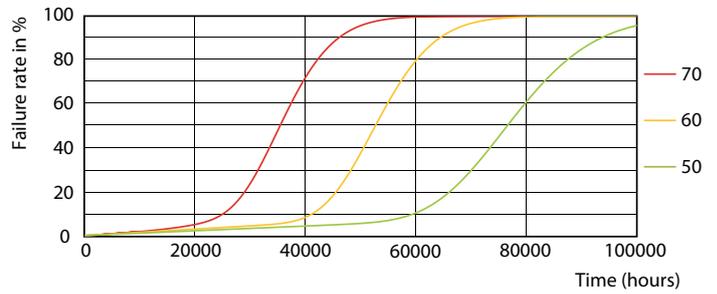


Spectral Power Distribution Colour - MAS LEDtube 600mm HO 8W830 T8

Lifetime



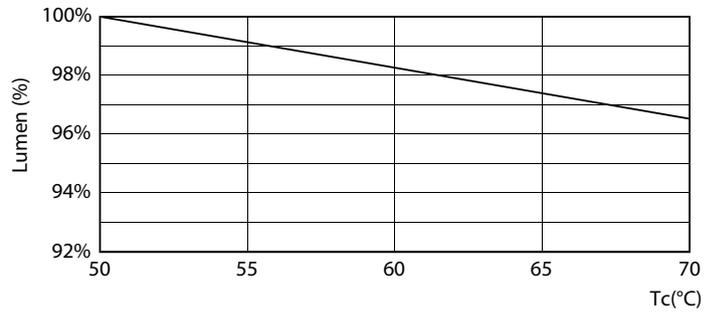
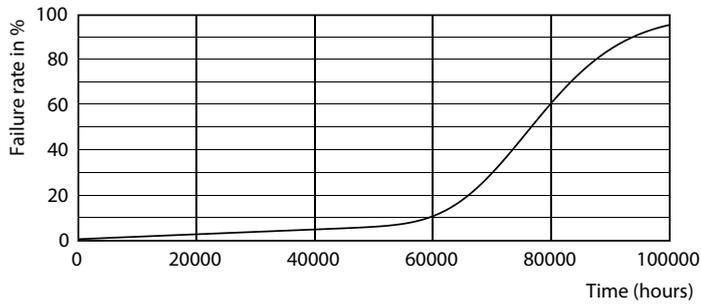
Lumen Maintenance Diagram - MAS LEDtube 600mm HO 8W830 T8



LEDtube-75K-5070-FailureRate-LED

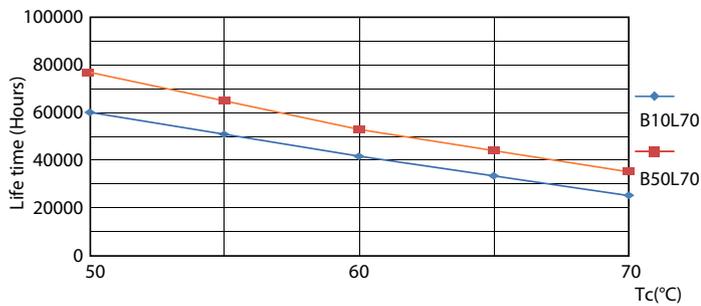
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Lifetime



Life Expectancy Diagram

Lumen Maintenance Diagram - MAS LEDtube 600mm HO 8W830 T8



LifetimeVsTc

