MASTER LEDtube EM/ Mains

MASTER LEDtube 600mm HO 8W840 T8

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 lamping in general lighting applications.

Warnings and Safety

- -

Product data

General Information	
Cap base	G13 ROT
Nominal lifetime	75,000 h
Switching Cycle	200,000
Lighting Technology	LED
Flux measurement reference	Sphere

Light Technical	
Colour Code	840 [CCT of 4000K]
Beam angle (nom.)	160 degree(s)
Luminous Flux	1,050 lm
Colour designation	Cool White (CW)
Correlated Colour Temperature (Nom)	4000 K
Luminous efficacy (rated) (nom.)	131 lm/W
Colour consistency	<6
Colour rendering index (CRI)	83
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	8 W
Lamp current (max.)	42 mA
Lamp current (min.)	36 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	18 W
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

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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

Controls and Dimming

Dimmable	No

Mechanical and Housing

Lamp Finish	Frosted
Bulb material	Plastic
Product length	600 mm
Bulb shape	T8
Net Weight (Piece)	0.100 kg

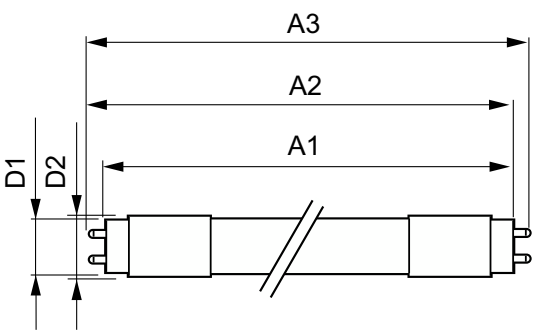
Approval and Application

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	1571692
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 8W840 T8
Full product name	MASTER LEDtube 600mm HO 8W840 T8
Full EOC	871869669749800
Order code	69749800
Material no. (12 NC)	929001307102
Numerator – quantity per pack	1
EAN/UPC — Product/Case	8718696697498
Numerator – packs per outer box	10
EAN/UPC - Case	8718696697504

Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 600mm HO 8W840 T8	25.78 mm	28 mm	588.5 mm	595.5 mm	602.5 mm

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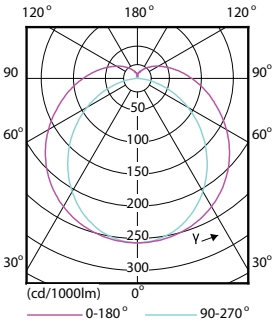
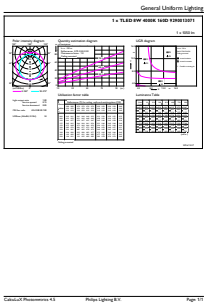
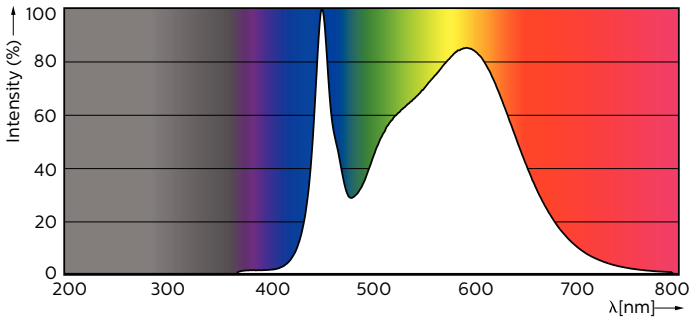
Photometric data



Light Distribution Diagram - MAS LEDtube 600mm HO 8W840 T8

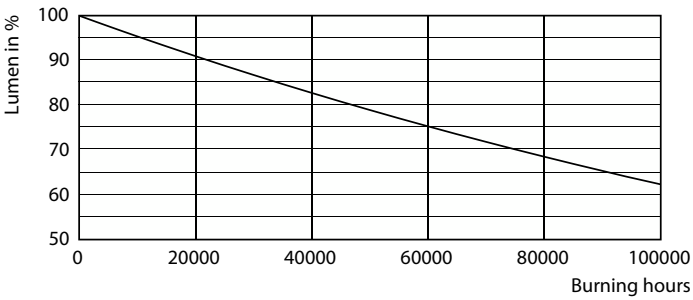


General uniform lighting - MAS LEDtube 600mm HO 8W840 T8

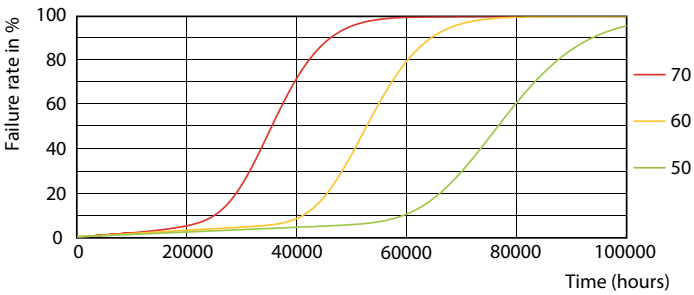


Spectral Power Distribution Colour - MAS LEDtube 600mm HO 8W840 T8

Lifetime



Lumen Maintenance Diagram - MAS LEDtube 600mm HO 8W840 T8



LEDtube-75K-5070-FailureRate-LED

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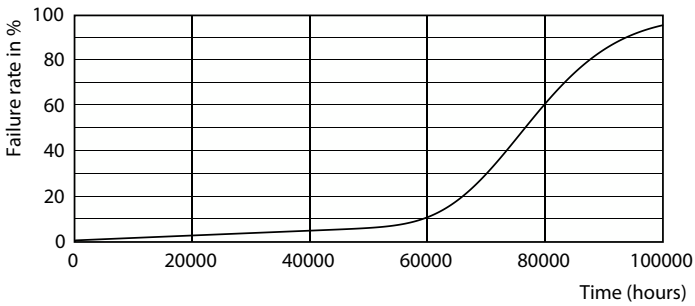
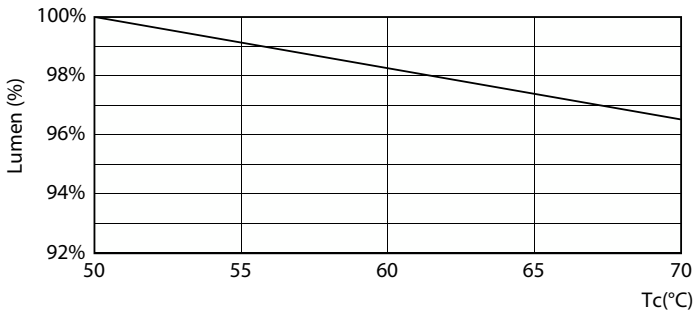
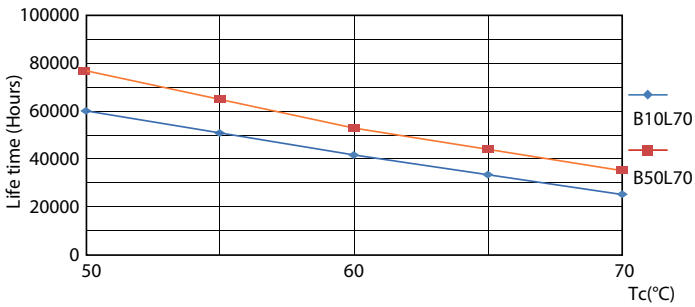
Lifetime



Life Expectancy Diagram



Lumen Maintenance Diagram - MAS LEDtube 600mm HO 8W840 T8



LifetimeVsTc

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