PHILIPS

Lighting

MASTER LEDtube EM/ Mains

MASTER LEDtube 1200mm HO 12.5W 830 T8

MASTER, LEDtube, T8, EM/Mains, 1200 mm, 12.5 W, 36W TL-D, 3000 K, 2000 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 lamping in general lighting applications.

Warnings and Safety

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Product data

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

Light Technical	
Colour Code	830 [CCT of 3000K]
Beam angle (nom.)	160 degree(s)
Luminous Flux	2,000 lm
Colour designation	White (WH)
Correlated Colour Temperature (Nom)	3000 K
Luminous efficacy (rated) (nom.)	160 lm/W
Colour consistency	<6
Colour rendering index (CRI)	80
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	12.5 W
Lamp current (max.)	63 mA
Lamp current (min.)	52 mA
Starting time (nom.)	0.5 s
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	36W TL-D
Inrush current at mains	8
Max. lamp no. on MCB B type 10A — Mains	90
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	115
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	15
Max. lamp no. on MCB B type 16A — Mains	150
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.)	50 °C

Controls and Dimming

Dimmable	No

Mechanical and Housing

Lamp Finish	Frosted
Bulb material	Plastic
Product length	1,200 mm
Bulb shape	T8
Net Weight (Piece)	0.230 kg

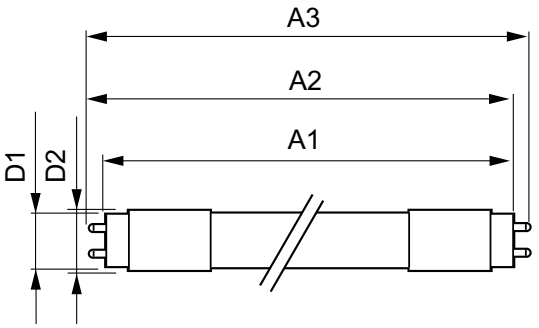
Approval and Application

Energy Efficiency Class	C
Energy-saving product	Yes
Approval marks	RoHS compliance CE marking KEMA Keur certificate ENEC certificate
Energy consumption kWh/1,000 hours	13 kWh
EPREL Registration Number	1206966
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 1200mm HO 12.5W 830 T8
Full product name	MASTER LEDtube 1200mm HO 12.5W 830 T8
Full EOC	871869959235600
Order code	59235600
Material no. (12 NC)	929001922602
Numerator – quantity per pack	1
EAN/UPC — Product/Case	8718699592356
Numerator – packs per outer box	10
EAN/UPC - Case	8718699592363

Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm HO 12.5W 830 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm

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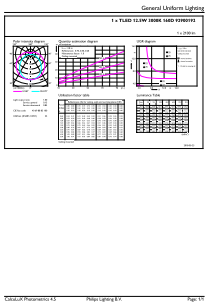
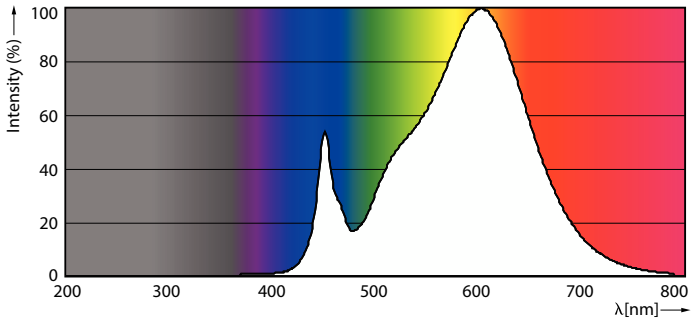
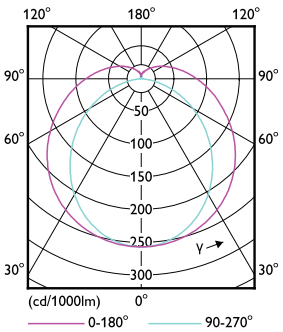
Photometric data



General uniform lighting - MAS LEDtube 1200mm HO 12.5W 830 T8

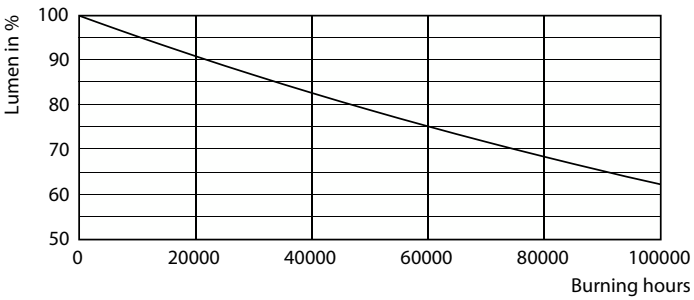


Spectral Power Distribution Colour - MAS LEDtube 1200mm HO 12.5W 830 T8

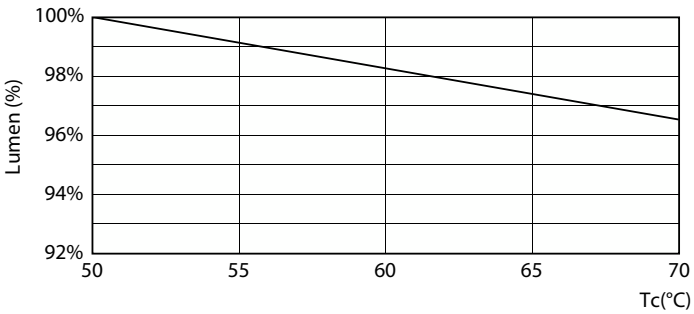


Light Distribution Diagram - MAS LEDtube 1200mm HO 12.5W 830 T8

Lifetime



Lumen Maintenance Diagram - MAS LEDtube 1200mm HO 12.5W 830 T8



Lumen Maintenance Diagram - MAS LEDtube 1200mm HO 12.5W 830 T8

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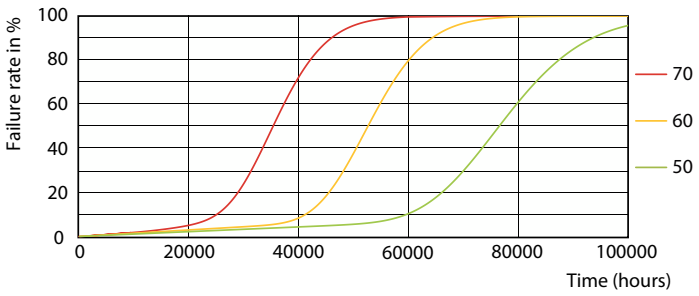
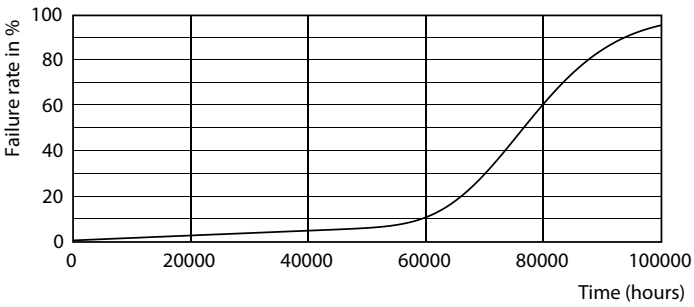
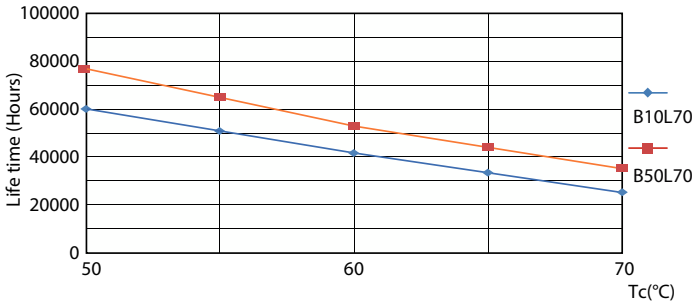
Lifetime



LEDtube-75K-5070-FailureRate-LED



Life Expectancy Diagram



LifetimeVsTc

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