



MASTER LEDtube EM/ Mains



MASTER LEDtube 1050mm 16W 840 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 lighting 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	LED
Flux measurement reference	Sphere
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.)	156 lm/W
Colour consistency	<6
Colour rendering index (CRI)	80
LLMF at end of nominal lifetime (nom.)	70 %

Flickering value (PstLM)	0.5
Stroboscopic effect	0.2
Photobiological safety according to EN 62471	RG0
Operating and Electrical	
Line Frequency	50 to 60 Hz
Input frequency	50 to 60 Hz
Power Consumption	16 W
Lamp current (max.)	83 mA
Lamp current (min.)	68 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	38 W
Inrush current at mains	8.4
Max. lamp no. on MCB B type 10A — Mains	90

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Max. lamp no. on MCB B type 10A — EM ballast without Comp. Cap.	90
Max. lamp no. on MCB B type 10A — EM ballast with Comp. Cap.	15
Max. lamp no. on MCB B type 16A — Mains	140
Max. lamp no. on MCB B type 16A — EM ballast without Comp. Cap.	150
Max. lamp no. on MCB B type 16A — EM ballast with Comp. Cap.	25
Ballast Compatibility	EM/Mains

Temperature

Ambient temperature range	-20°C to 45°C
T-Case maximum (nom.)	55 °C

Controls and Dimming

Dimmable	No
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Mechanical and Housing

Lamp Finish	Frosted
Bulb material	Plastic
Product length	1,100 mm
Bulb shape	T8

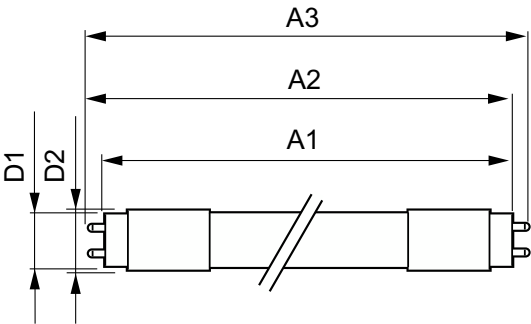
Approval and Application

Energy Efficiency Class	D
Energy-saving product	Yes
Approval marks	RoHS compliance TUV CE marking KEMA Keur certificate
Energy consumption kWh/1,000 hours	16 kWh
EPREL registration number	1206972

Product Data

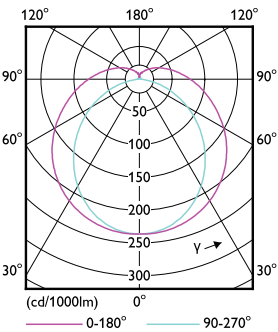
Order product name	MAS LEDtube 1050mm 16W 840 T8
Full product name	MASTER LEDtube 1050mm 16W 840 T8
Full EOC	871869961602100
Order code	61602100
Material no. (12 NC)	929001961102
SAP numerator – quantity per pack	1
EAN/UPC — Product/Case	8718699616021
Numerator – packs per outer box	10
EAN/UPC - Case	8718699616038

Dimensional drawing

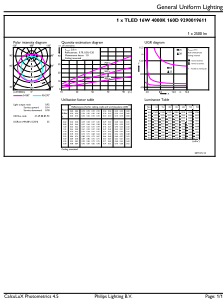


Product	D1	D2	A1	A2	A3
MAS LEDtube 1050mm 16W 840 T8	25.8 mm	28 mm	1,045.8 mm	1,052.9 mm	1,060 mm

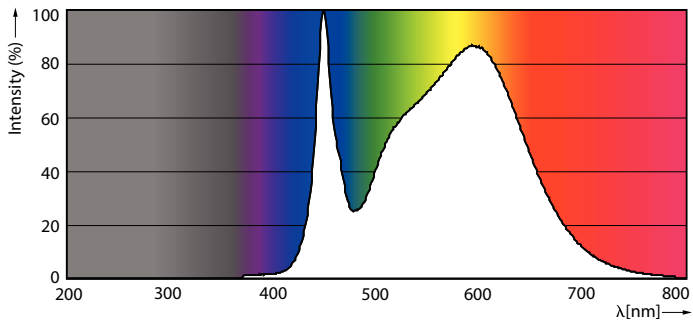
Photometric data



Light Distribution Diagram - MAS LEDtube 1050mm 16W 840 T8

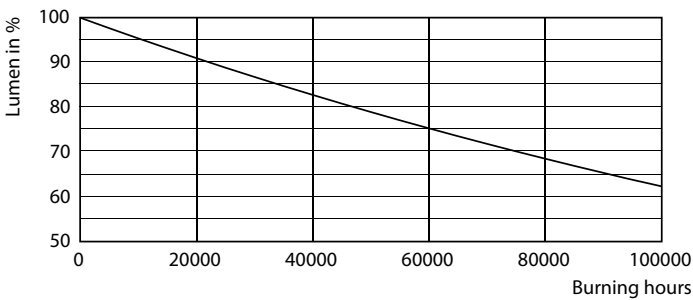


General uniform lighting - MAS LEDtube 1050mm 16W 840 T8

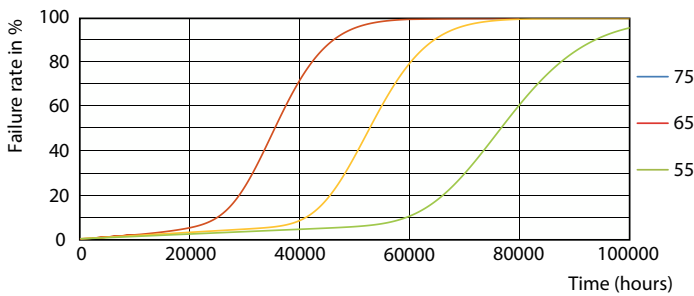


Spectral Power Distribution Colour - MAS LEDtube 1050mm 16W 840 T8

Lifetime



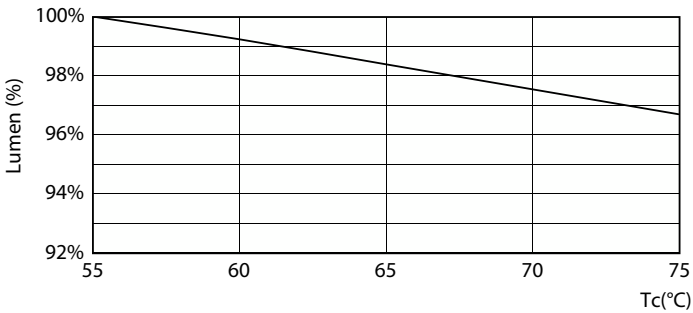
Lumen Maintenance Diagram - MAS LEDtube 1050mm 16W 840 T8



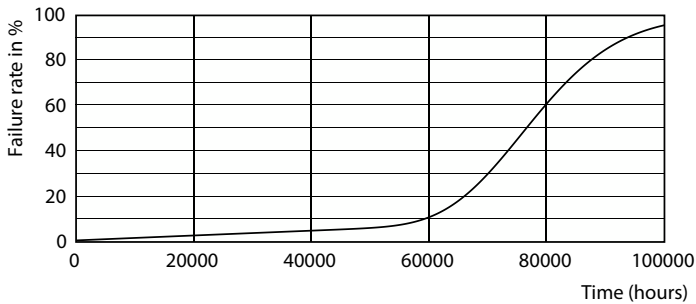
Life Expectancy Diagram - MAS LEDtube 1050mm 16W 840 T8

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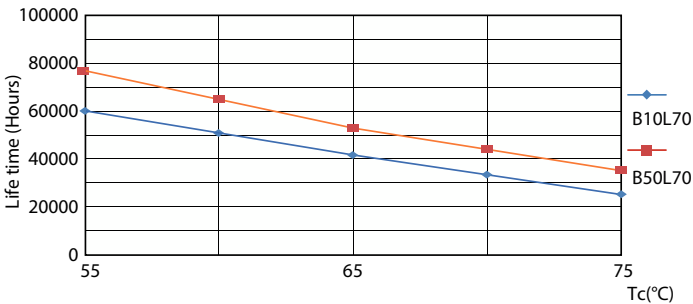
Lifetime



Lumen Maintenance Diagram - MAS LEDtube 1050mm 16W 840 T8



Life Expectancy Diagram - MAS LEDtube 1050mm 16W 840 T8



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