



MASTER LEDtube EM/ Mains T8



MAS 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. These T8 LED tubes are the right choice for absolute performance and are designed to stand up to everyday conditions. Unparalleled savings thanks to low energy consumption and an exceptionally long lifetime ensure this tube masters every demanding application.

Warnings and Safety

- NOTE: The overall energy efficiency and light distribution of any installation that uses these lamps will be determined by the design of the installation.

Product data

General Information		Luminous Efficacy (rated) (Nom)		156 lm/W
Cap-Base	G13 ROT	Color Consistency	<6	
Nominal lifetime	75,000 hour(s)	Color rendering index (CRI)	80	
Switching Cycle	200,000	LLMF At End Of Nominal Lifetime (Nom)	70 %	
Lighting Technology	LED	Flickering value (PstLM) - Flickering value as per EN 61000-3-3	0.5	
Flux measurement reference	Sphere	Stroboscopic effect visibility measure (SVM)	0.2	
EU RoHS compliant	Yes	Photobiological safety according to EN 62471	RG0	
Light Technical		Operating and Electrical		
Color Code	840 [CCT of 4000K]	Line Frequency	50 to 60 Hz	
Beam Angle (Nom)	160 degree(s)	Input Frequency	50 to 60 Hz	
Luminous Flux	2,500 lm	Power Consumption	16 W	
Color Designation	Cool White (CW)	Lamp Current (Max)	83 mA	
Correlated Color Temperature (Nom)	4000 K			

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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
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

Bulb Finish	Frosted
Bulb Material	Plastic
Product Length	1,100 mm
Bulb Shape	T8

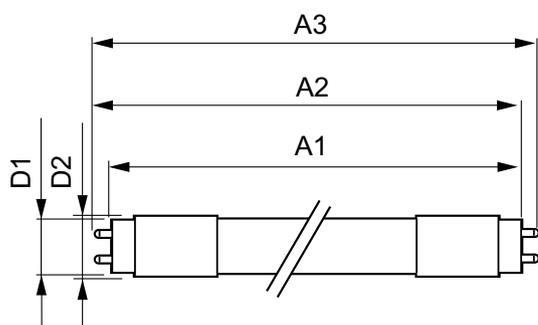
Approval and Application

Energy Efficiency Class	D
Energy Saving Product	Yes
Approval Marks	RoHS compliance TUV CE marking KEMA Keur certificate
Energy Consumption kWh/1000 h	16 kWh
EPREL Registration Number	1206972

Product Data

Order product name	MAS LEDtube 1050mm 16W 840 T8
Full product name	MAS LEDtube 1050mm 16W 840 T8
Full product code	871869961602100
Order code	929001961102
Material Nr. (12NC)	929001961102
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718699616021
Numerator - Packs per outer box	10
EAN/UPC - Case	8718699616038

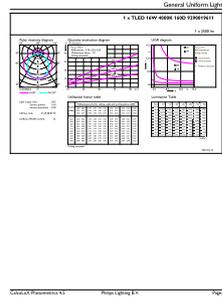
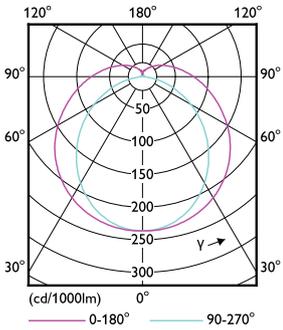
Dimensional drawing



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

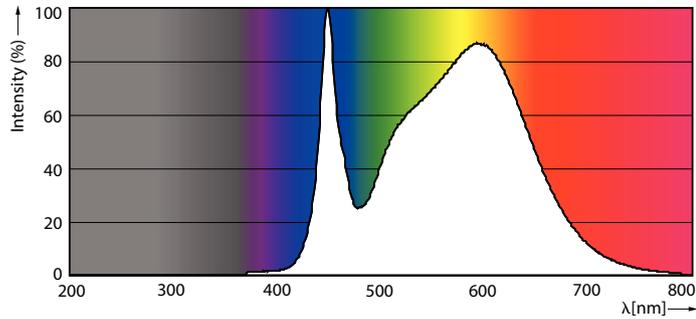
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Photometric data



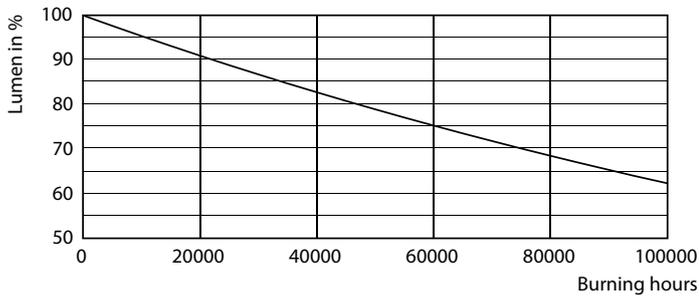
Light Distribution Diagram - MAS LEDtube 1050mm 16W 840 T8

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

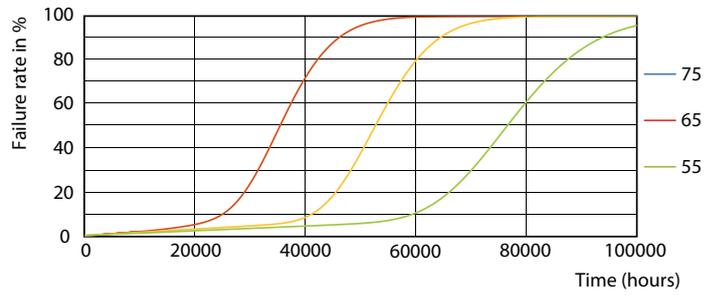


Spectral Power Distribution Colour - MAS LEDtube 1050mm 16W 840 T8

Lifetime



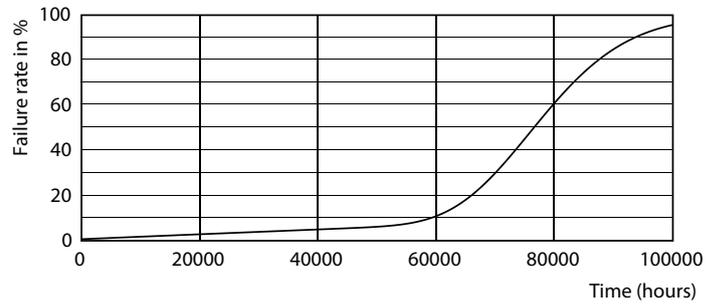
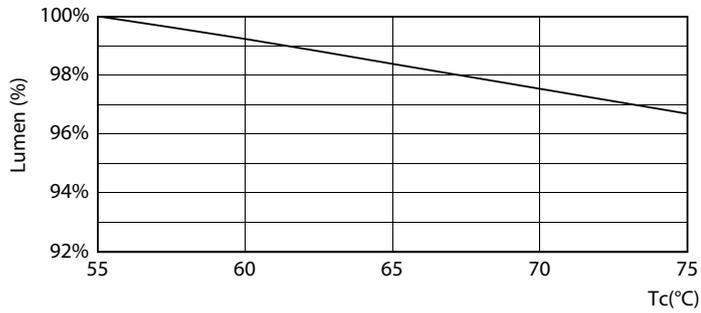
Lumen Maintenance Diagram - MAS LEDtube 1050mm 16W 840 T8



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

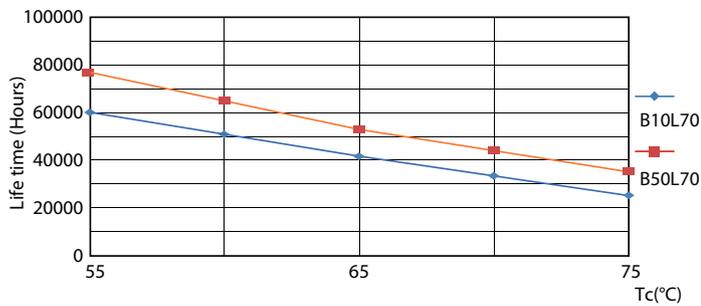
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Lifetime



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