



MASTER LEDtube EM/ Mains T8



MAS LEDtube 1050mm 16W 830 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			
Cap-Base	G13 ROT (Rotating) [Medium Bi-Pin Fluorescent]	Correlated Color Temperature (Nom)	3000 K
Nominal lifetime	75,000 hour(s)	Luminous Efficacy (rated) (Nom)	143 lm/W
Switching Cycle	200,000	Color Consistency	<6
Lighting Technology	LED	Color rendering index (CRI)	80
Flux measurement reference	Sphere	LLMF At End Of Nominal Lifetime (Nom)	70 %
EU RoHS compliant	Yes	Flickering value (PstLM)	0.5
		Stroboscopic effect value (SVM)	0.2
		Photobiological safety according to EN 62471	RG0
Light Technical		Operating and Electrical	
Color Code	830 [CCT of 3000K]	Line Frequency	50 to 60 Hz
Beam Angle (Nom)	160 degree(s)	Input Frequency	50 to 60 Hz
Luminous Flux	2,300 lm	Power Consumption	16 W
Color Designation	White (WH)	Lamp Current (Max)	83 mA

MASTER LEDtube EM/Mains T8

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
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

Temperature

Ambient temperature range	-20 °C to 45 °C
T-Case Maximum (Nom)	55 °C

Controls and Dimming

Dimmable	No
----------	----

Mechanical and Housing

Bulb Finish	Frosted
-------------	---------

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

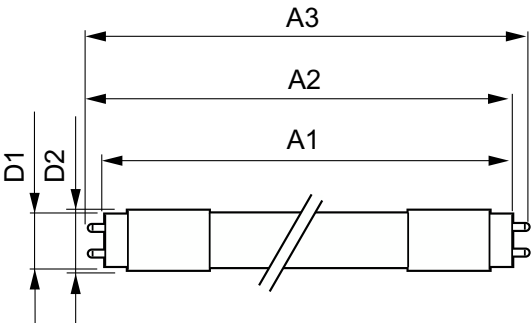
Approval and Application

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	1206965

Product Data

Order product name	MAS LEDtube 1050mm 16W 830 T8
Full product name	MAS LEDtube 1050mm 16W 830 T8
Full product code	871869672855000
Order code	929001375602
Material Nr. (12NC)	929001375602
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718696728550
Numerator - Packs per outer box	10
EAN/UPC - Case	8718696728567

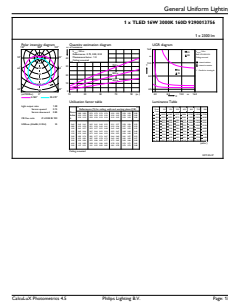
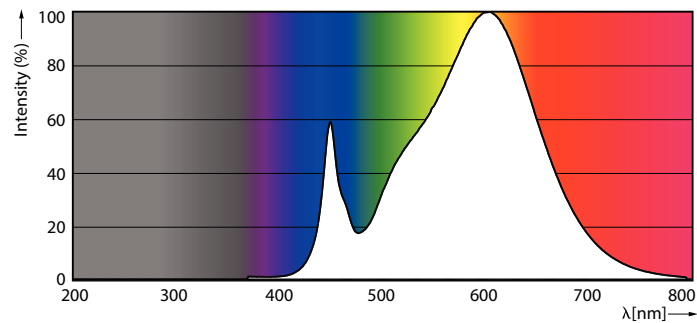
Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 1050mm 16W 830 T8	25.8 mm	28 mm	1,045.8 mm	1,052.9 mm	1,060 mm

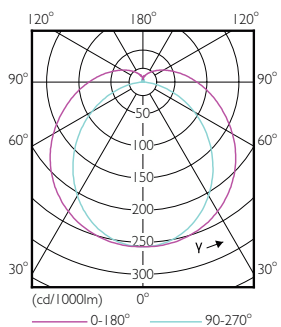
MASTER LEDtube EM/Mains T8

Photometric data



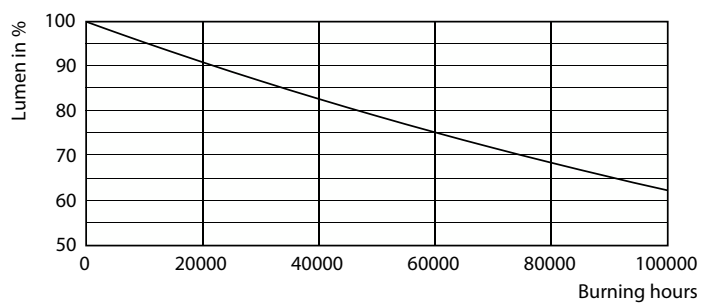
Spectral Power Distribution Colour - MAS LEDtube 1050mm 16W 830 T8

General uniform lighting - MAS LEDtube 1050mm 16W 830 T8

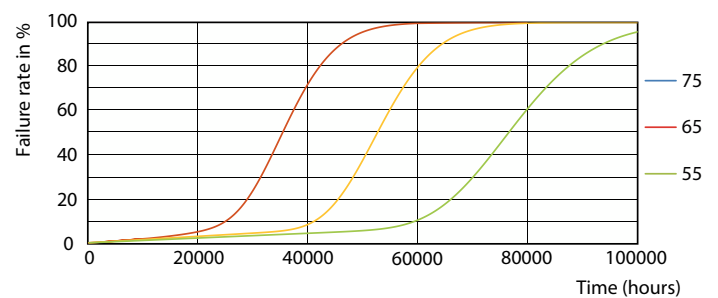


Light Distribution Diagram - MAS LEDtube 1050mm 16W 830 T8

Lifetime



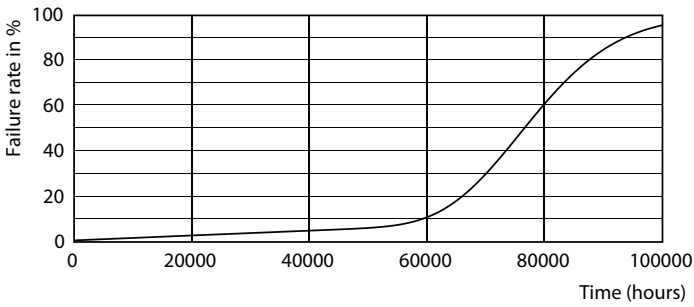
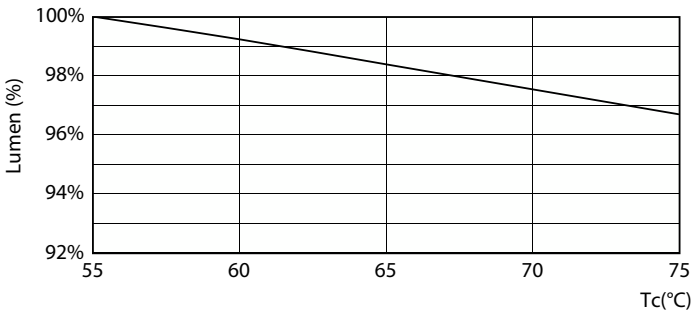
Lumen Maintenance Diagram - MAS LEDtube 1050mm 16W 830 T8



Life Expectancy Diagram - MAS LEDtube 1050mm 16W 830 T8

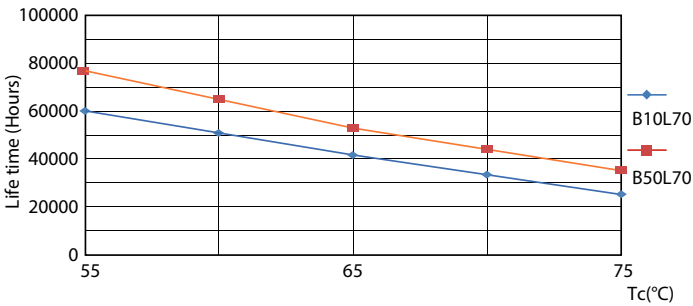
MASTER LEDtube EM/Mains T8

Lifetime



Lumen Maintenance Diagram - MAS LEDtube 1050mm 16W 830 T8

Life Expectancy Diagram - MAS LEDtube 1050mm 16W 830 T8



Life Expectancy Diagram - MAS LEDtube 1050mm 16W 830 T8

