MASTER LEDtube EM/ Mains T8

MAS LEDtube 600mm HO 8W865 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 (Rotating) [Medium Bi-Pin Fluorescent]
Nominal lifetime	75,000 hour(s)
Switching Cycle	200,000
Lighting Technology	LED
Flux measurement reference	Sphere
CE mark	Yes
EU RoHS compliant	Yes

Light Technical	
Color Code	865 [CCT of 6500K]
Beam Angle (Nom)	160 degree(s)
Luminous Flux	1,050 lm
Color Designation	Cool Daylight
Correlated Color Temperature (Nom)	6500 K
Luminous Efficacy (rated) (Nom)	131 lm/W
Color Consistency	<6
Color rendering index (CRI)	83
LLMF At End Of Nominal Lifetime (Nom)	70 %
Flickering value (PstLM)	0.5
Stroboscopic effect value (SVM)	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	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

MASTER LEDtube EM/Mains T8

LED alternative to fluorescent lamp power	18 W
Max. lamp no. on MCB B type 10A - Mains	105
Max. lamp no. on MCB B type 10A – EM ballast without Comp. Cap.	125
Max. lamp no. on MCB B type 10A – EM ballast with Comp. Cap.	30
Max. lamp no. on MCB B type 16A - Mains	170
Max. lamp no. on MCB B type 16A – EM ballast without Comp. Cap.	290
Max. lamp no. on MCB B type 16A – EM ballast with Comp. Cap.	49

Temperature

Ambient temperature range	-20 °C to 45 °C
T-Case Maximum (Nom)	50 °C

Controls and Dimming

Dimmable	No

Mechanical and Housing

Bulb Finish	Frosted
Bulb Material	Plastic
Product Length	600 mm
Bulb Shape	T8

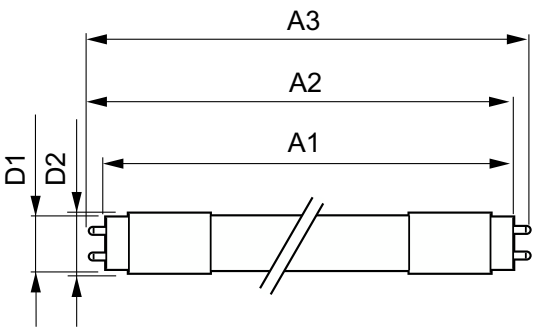
Approval and Application

Energy Efficiency Class	E
Energy Saving Product	Yes
Approval Marks	RoHS compliance TUV CE marking KEMA Keur certificate
Energy Consumption kWh/1000 h	8 kWh
EPREL Registration Number	1571693

Product Data

Order product name	MAS LEDtube 600mm HO 8W865 T8
Full product name	MAS LEDtube 600mm HO 8W865 T8
Full product code	871869669751100
Order code	929001307202
Material Nr. (12NC)	929001307202
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718696697511
Numerator - Packs per outer box	10
EAN/UPC - Case	8718696697528

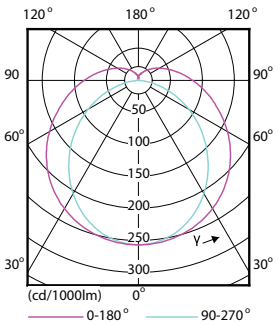
Dimensional drawing



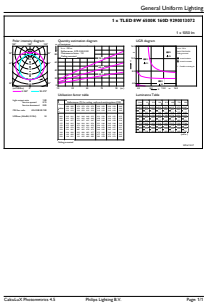
Product	D1	D2	A1	A2	A3
MAS LEDtube 600mm HO 8W865 T8	25.78 mm	28 mm	588.5 mm	595.5 mm	602.5 mm

MASTER LEDtube EM/Mains T8

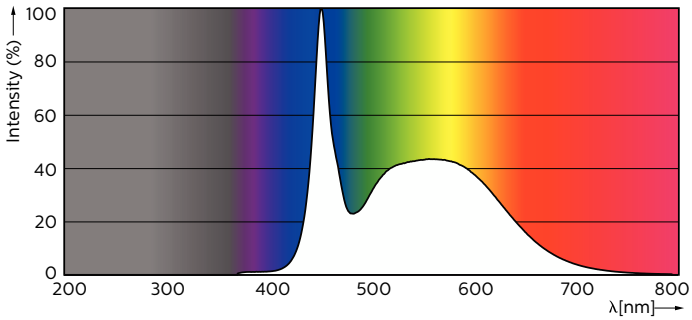
Photometric data



Light Distribution Diagram - MAS LEDtube 600mm HO 8W865 T8

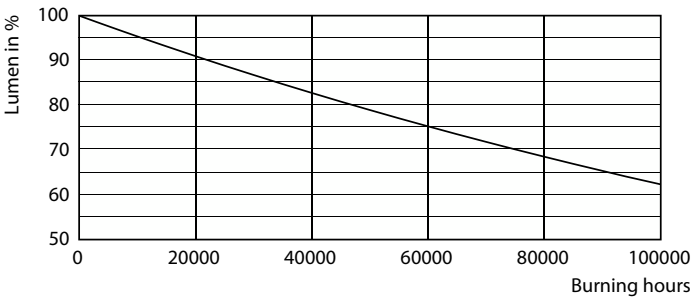


General uniform lighting - MAS LEDtube 600mm HO 8W865 T8

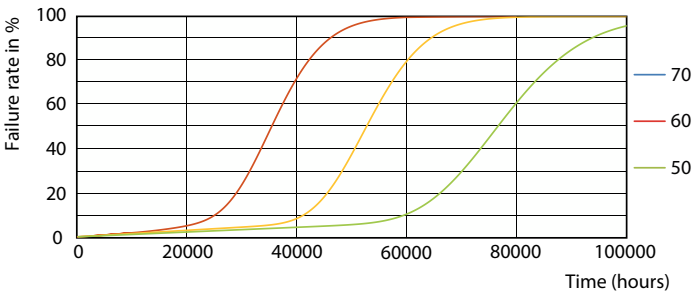


Spectral Power Distribution Colour - MAS LEDtube 600mm HO 8W865 T8

Lifetime



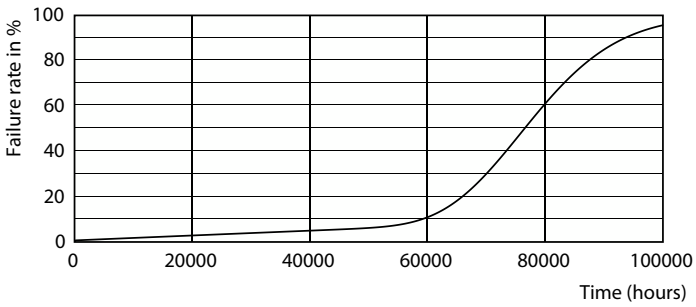
Lumen Maintenance Diagram - MAS LEDtube 600mm HO 8W865 T8



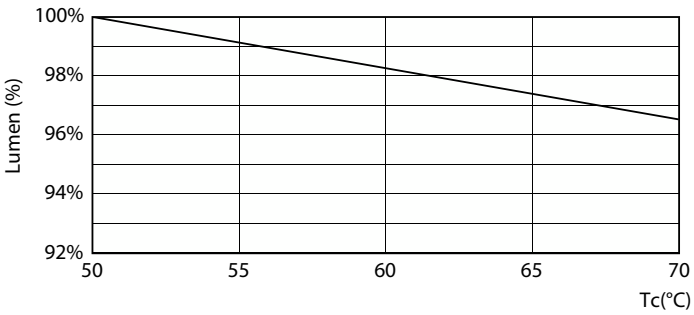
Life Expectancy Diagram - MAS LEDtube 600mm HO 8W865 T8

MASTER LEDtube EM/Mains T8

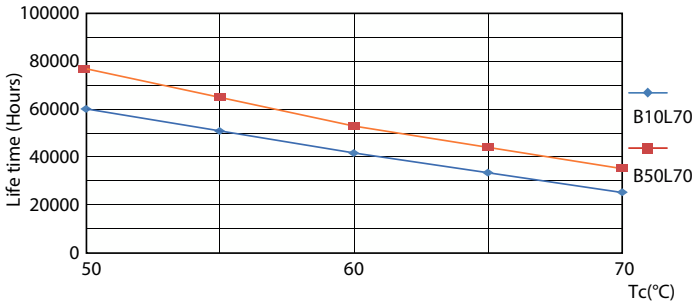
Lifetime



Life Expectancy Diagram - MAS LEDtube 600mm HO 8W865 T8



Lumen Maintenance Diagram - MAS LEDtube 600mm HO 8W865 T8



Life Expectancy Diagram - MAS LEDtube 600mm HO 8W865 T8

© 2023 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.