PHILIPS

Lighting

PHILIPS

MASTER LEDtube EM/ Mains T8

MAS LEDtube 1200mm HO 12.5W 865 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

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Product data

General Information	
Cap-Base	G13 ROT
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	2,100 lm
Color Designation	Cool Daylight
Correlated Color Temperature (Nom)	6500 K
Luminous Efficacy (rated) (Nom)	168 lm/W
Color Consistency	<6

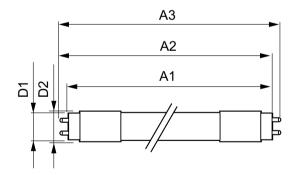
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Flickering value (PstLM) - Flickering value as per	0.5
EN 61000-3-3	
Stroboscopic effect visibility measure (SVM)	0.2
Photobiological safety according to EN 62471	RGO
Operating and Electrical	
Line Frequency	50 to 60 Hz
Input Frequency	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
Voltage (Nom)	220-240 V

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LED alternative to fluorescent lamp power	36 W
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	115
without Comp. Cap.	
Max. lamp no. on MCB B type 10A - EM ballast	15
with Comp. Cap.	
Max. lamp no. on MCB B type 16A - Mains	150
Max. lamp no. on MCB B type 16A – EM ballast	190
without Comp. Cap.	
Max. lamp no. on MCB B type 16A – EM ballast	25
with Comp. Cap.	
Ballast Compatibility	EM/Mains
Temperature	
Ambient temperature range	-20 °C to 45 °C
T-Case Maximum (Nom)	50 ℃
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Material	Plastic
Product Length	1,200 mm

Dulh Chana	Т8
Bulb Shape	18
Approval and Application	
	C
Energy Efficiency Class	
Energy Saving Product	Yes
Approval Marks	RoHS compliance TUV CE marking
	KEMA Keur certificate
Energy Consumption kWh/1000 h	13 kWh
EPREL Registration Number	1206968
Product Data	
Order product name	MAS LEDtube 1200mm HO 12.5W
	865 T8
Full product name	MAS LEDtube 1200mm HO 12.5W
	865 T8
Full product code	871869959239400
Order code	929001922802
Material Nr. (12NC)	929001922802
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718699592394
Numerator - Packs per outer box	10
EAN/UPC - Case	8718699592400

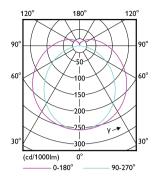
Dimensional drawing

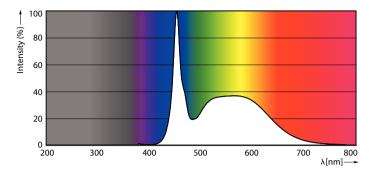


Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm HO 12.5W	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
865 T8					

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Photometric data





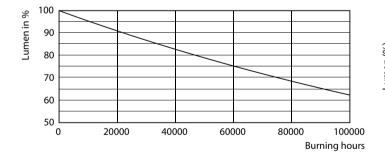
Light Distribution Diagram - MAS LEDtube 1200mm HO 12.5W 865 T8

Spectral Power Distribution Colour - MAS LEDtube 1200mm HO 12.5W 865 T8

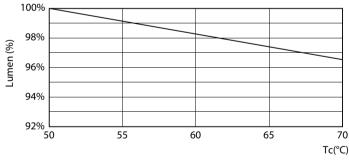
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General uniform lighting - MAS LEDtube 1200mm HO 12.5W 865 T8

Lifetime



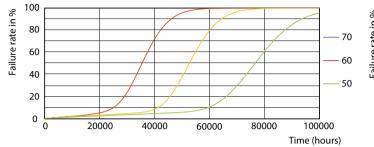
Lumen Maintenance Diagram - MAS LEDtube 1200mm HO 12.5W 865 T8

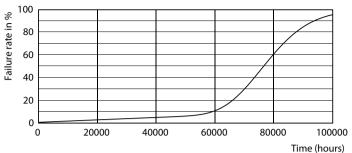


Lumen Maintenance Diagram - MAS LEDtube 1200mm HO 12.5W 865 T8

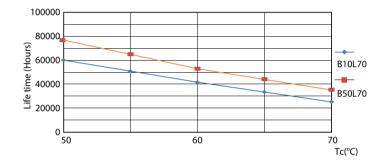
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Lifetime





Life Expectancy Diagram - MAS LEDtube 1200mm HO 12.5W 865 T8



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Life Expectancy Diagram - MAS LEDtube 1200mm HO 12.5W 865 T8