PHILIPS

Lighting

MASTER LEDtube EM/ Mains T8

MASTER LEDtube 900mm HO 12W 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. For those that are looking for value for money within limited budget and re-lamping efforts for better light effect and lifetime.

Warnings and Safety

- -

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	1,575 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)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	0.5
Stroboscopic effect visibility measure (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	12 W
Lamp Current (Max)	60 mA
Lamp Current (Min)	50 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	30 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 without Comp. Cap.	125
Max. lamp no. on MCB B type 10A – EM ballast with Comp. Cap.	15
Max. lamp no. on MCB B type 16A - Mains	150
Max. lamp no. on MCB B type 16A – EM ballast without Comp. Cap.	200
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)	50 °C

Controls and Dimming

Dimmable	No

Mechanical and Housing

Bulb Finish	Frosted
Bulb Material	Plastic
Product Length	900 mm
Bulb Shape	T8

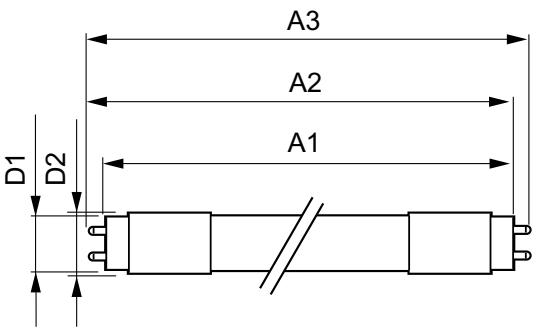
Approval and Application

Energy Efficiency Class	E
Energy Saving Product	Yes
Approval Marks	RoHS compliance TUV CE marking KEMA Keur certificate
Energy Consumption kWh/1000 h	12 kWh
EPREL Registration Number	1206964

Product Data

Order product name	MAS LEDtube 900mm HO 12W 865 T8
Full product name	MASTER LEDtube 900mm HO 12W 865 T8
Full product code	871869668710900
Order code	68710900
Material Nr. (12NC)	929001298502
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718696687109
Numerator - Packs per outer box	10
EAN/UPC - Case	8718696687116

Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 900mm HO 12W 865 T8	25.78 mm	28 mm	893.3 mm	900.4 mm	907.5 mm

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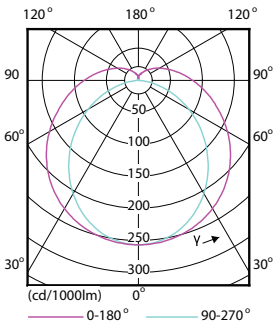
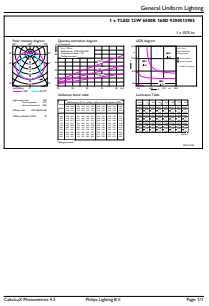
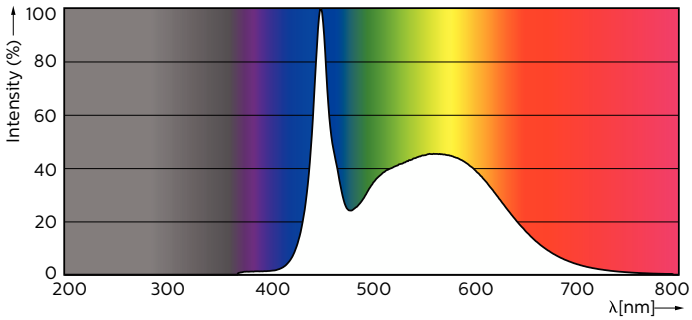
Photometric data



Light Distribution Diagram - MAS LEDtube 900mm HO 12W 865 T8

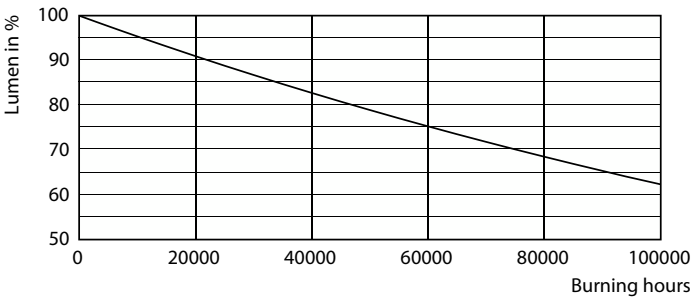


General uniform lighting - MAS LEDtube 900mm HO 12W 865 T8

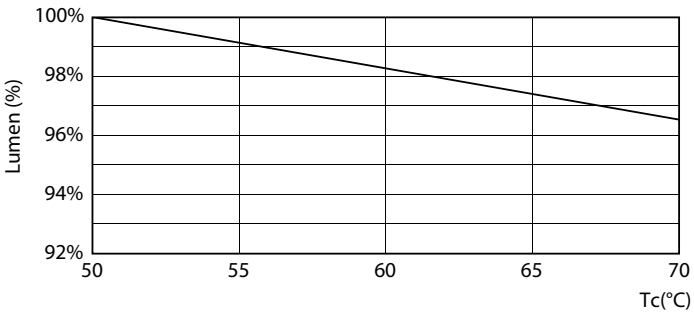


Spectral Power Distribution Colour - MAS LEDtube 900mm HO 12W 865 T8

Lifetime



Lumen Maintenance Diagram - MAS LEDtube 900mm HO 12W 865 T8



Lumen Maintenance Diagram - MAS LEDtube 900mm HO 12W 865 T8

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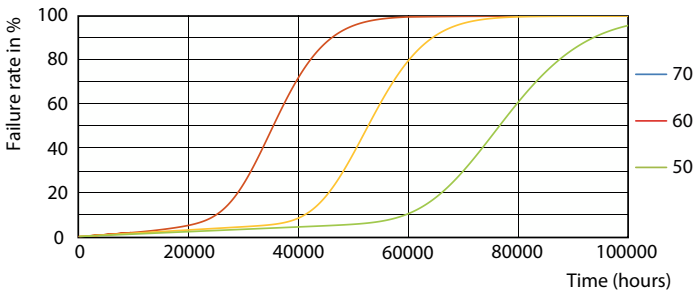
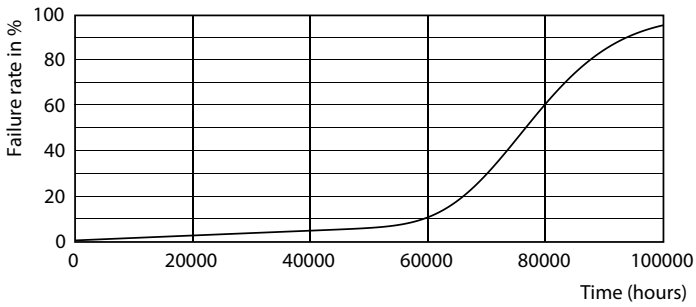
Lifetime



Life Expectancy Diagram - MAS LEDtube 900mm HO 12W 865 T8



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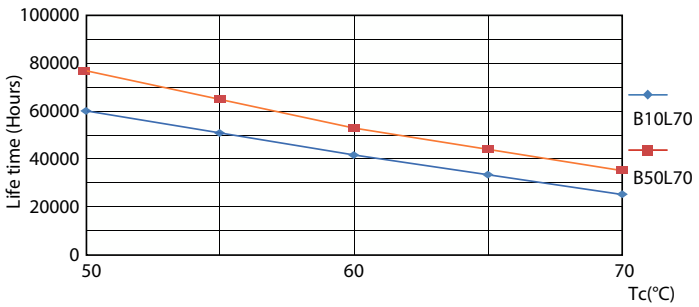

Life Expectancy Diagram - MAS LEDtube 900mm HO 12W 865 T8

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