



# MASTER LED tube EM/Mains T8 with Recycled Plastic



## MAS LEDtube 900mm HO 12W 840 T8

MASTER, LEDtube, T8, EM/Mains, 900 mm, 220-240 V, 12 W, 30W TL-D, 4000 K, 1575 lm, CRI 80, 75000 h

Our new sustainability hero Philips MASTER LEDtube T8 EM/mains — a pioneering LED tube designed for performance, durability and environmental impact. As the first-ever LED tube to feature 40% post-consumer recycled plastic, it sets a new standard for sustainable lighting without compromising quality. With a long lifetime of 75,000 hours and high luminous efficacy up to 185 lm/W, the MASTER LEDtube T8 ensures outstanding energy efficiency. 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 that this tube masters every demanding application.

### Product data

General Information	
Cap base	G13 Rotatable end-cap
Nominal lifetime	75,000 h
Switching Cycle	200,000
Lighting Technology	LEDtube
Flux measurement reference	Sphere
Warranty period	5 years

Light Technical	
Colour Code	840 [CCT of 4000K]
Beam angle (nom.)	160 degree(s)
Luminous Flux	1,575 lm
Colour designation	Cool White (CW)
Correlated Colour Temperature (Nom)	4000 K
Luminous efficacy (rated) (nom.)	131 lm/W
Colour consistency	<6
Colour rendering index (CRI)	80

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LLMF at end of nominal lifetime (nom.)	70 %
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
LED alternative to fluorescent lamp power	30W TL-D
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 Compensation Capacitor.	125
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	15
Max. lamp no. on MCB B type 16A — Mains	150
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	200
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	25
Ballast Compatibility	EM/Mains

## Temperature

T-Case maximum (nom.)	50 °C
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## Controls and Dimming

Dimmable	No
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## Mechanical and Housing

Lamp Finish	Frosted
Bulb material	Plastic
Product length	900 mm
Bulb shape	T8

Net Weight (Piece)	0.180 kg
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## Approval and Application

Energy Efficiency Class	E
Energy-saving product	Yes
Approval marks	RoHS compliance CE marking KEMA Keur certificate ENEC certificate
Energy consumption kWh/1,000 hours	12 kWh
EPREL Registration Number	2571886
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM)	0.1
Stroboscopic effect	0.1
Ambient temperature range	-20 to +45 °C
Post-consumer recycled plastic material ratio	40 %

## Application Conditions

Can it be used in closed luminaires	Yes
Wireless Technology	Not applicable

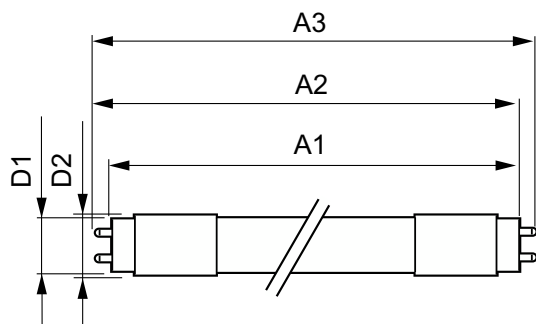
## Sustainability Data

Product non-virgin material ratio	28.1 %
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## Product Data

Order product name	MAS LEDtube 900mm HO 12W 840 T8
Full product name	MAS LEDtube 900mm HO 12W 840 T8
Full EOC	871869668708600
Order code	929001298402
Material no. (12 NC)	929001298402
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8718696687086
Numerator – packs per outer box	10
EAN/UPC - Case	8718696687093

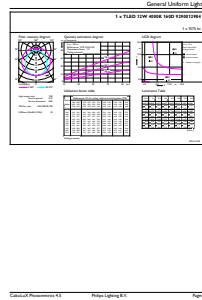
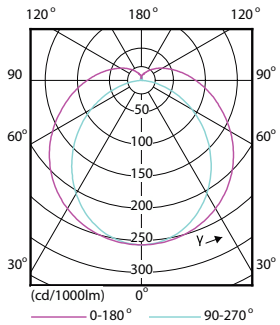
## Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 900mm HO 12W 840 T8	25.78 mm	28 mm	893.3 mm	900.4 mm	907.5 mm

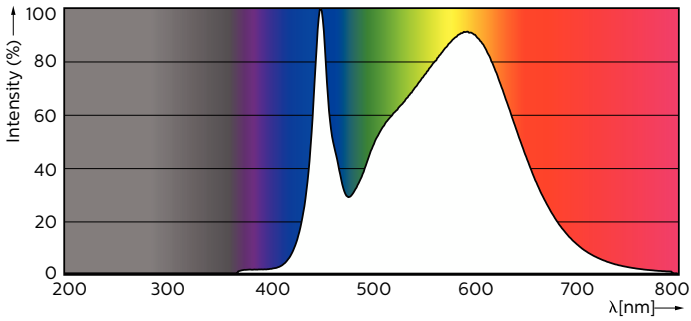
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## Photometric data



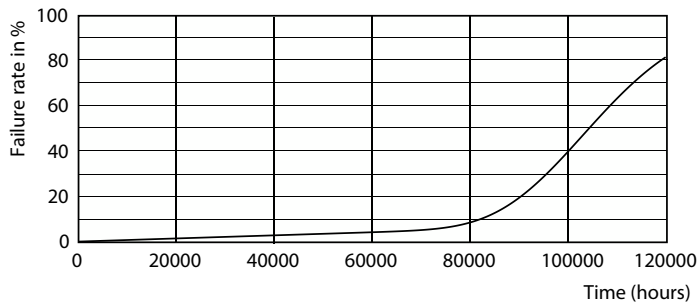
Light Distribution Diagram - MAS LEDtube 900mm HO 12W 840 T8

General uniform lighting - MAS LEDtube 900mm HO 12W 840 T8

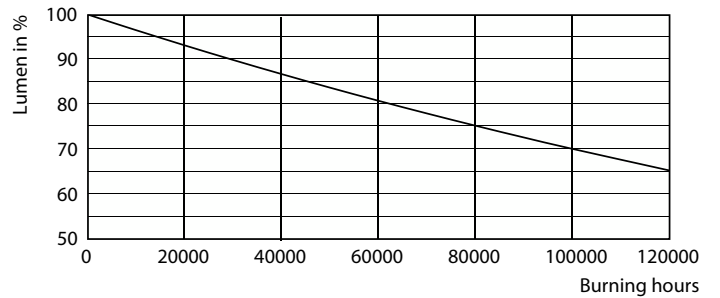


Spectral Power Distribution Colour - MAS LEDtube 900mm HO 12W 840 T8

## Lifetime



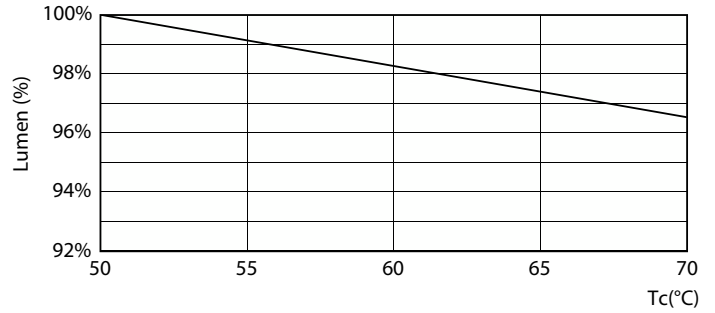
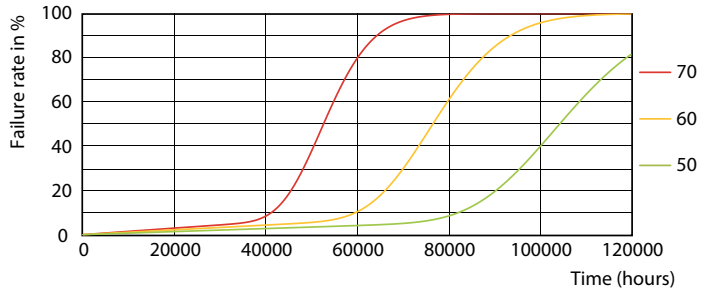
Life Expectancy Diagram



Lumen Maintenance Diagram - MAS LEDtube 900mm HO 12W 840 T8

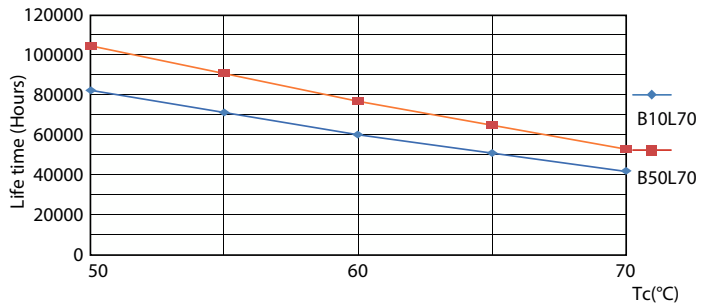
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## Lifetime



Life Expectancy Diagram

Lumen Maintenance Diagram - MAS LEDtube 900mm HO 12W 840 T8



Life Expectancy Diagram

