



# MASTER LED tube EM/Mains T8 with Recycled Plastic

## MAS LEDtube 900mm HO 12W 865 T8

MASTER, LEDtube, T8, EM/Mains, 900 mm, 220–240 V, 12 W, 30W TL-D, 6500 K, 1575 lm, CRI 80, 75000 hour(s)

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 this tube master every demanding application.

### Product data

General Information		Light Technical	
Cap-Base	G13 Rotatable end-cap	Color Code	865 [CCT of 6500K]
Nominal lifetime	75,000 hour(s)	Beam Angle (Nom)	160 degree(s)
Switching Cycle	200,000	Luminous Flux	1,575 lm
Lighting Technology	LEDtube	Color Designation	Cool Daylight
Flux measurement reference	Sphere	Correlated Color Temperature (Nom)	6500 K
Warranty period	5 years	Luminous Efficacy (rated) (Nom)	131 lm/W
		Color Consistency	<6
		Color rendering index (CRI)	80

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LLMF At End Of Nominal Lifetime (Nom)	70 %
Photobiological safety according to EN 62471	RGO

## Sustainability Data

Product non-virgin material ratio	28.1 %
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## 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

Bulb Finish	Frosted
Bulb Material	Plastic
Product Length	900 mm
Bulb Shape	T8
Net Weight (Piece)	0.180 kg

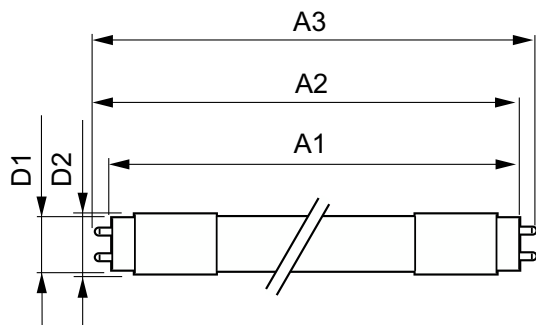
## Approval and Application

Energy Efficiency Class	E
Energy Saving Product	Yes
Approval Marks	RoHS compliance CE marking KEMA Keur certificate ENEC certificate
Energy Consumption kWh/1000 h	12 kWh
EPREL Registration Number	1206964
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	0.5
Stroboscopic effect visibility measure (SVM)	0.2
Ambient temperature range	-20 °C to 45 °C
Post-consumer recycled plastic material ratio	40 %

## Product Data

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

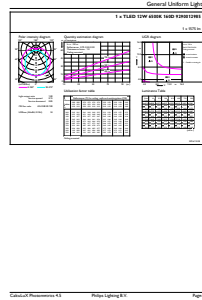
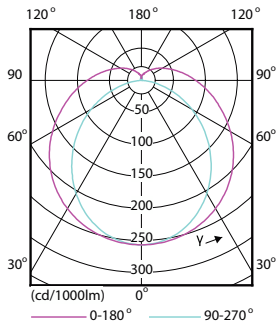
## Dimensional drawing



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

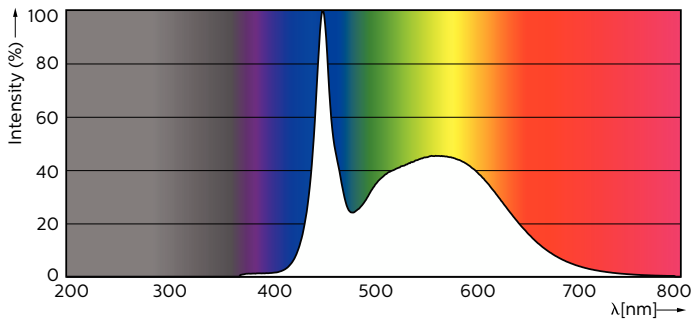
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## Photometric data



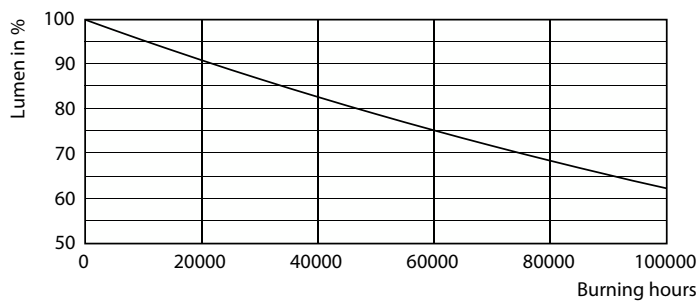
Light Distribution Diagram - MAS LEDtube 900mm HO 12W 865 T8

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

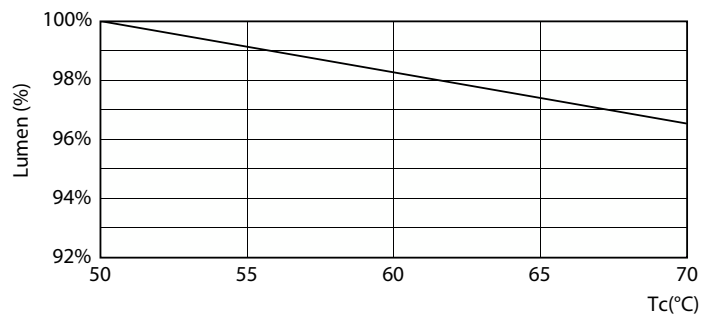


Spectral Power Distribution Colour - MAS LEDtube 900mm HO 12W 865 T8

## Lifetime



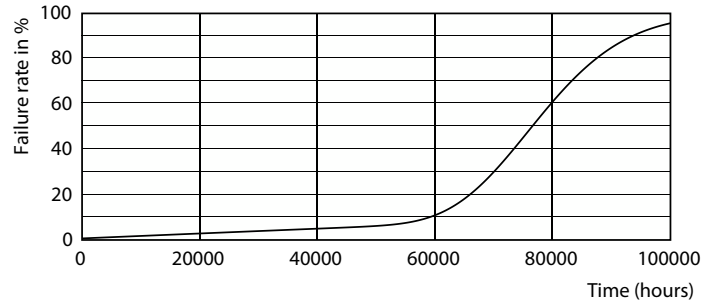
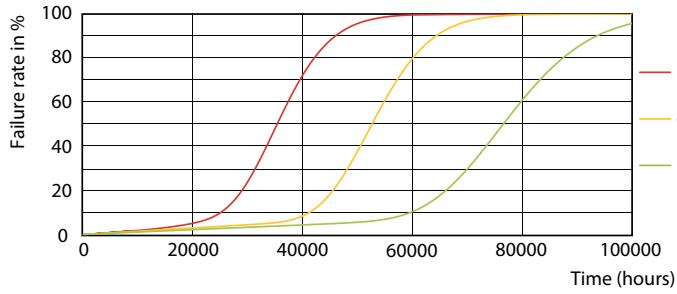
Lumen Maintenance Diagram - MAS LEDtube 900mm HO 12W 865 T8



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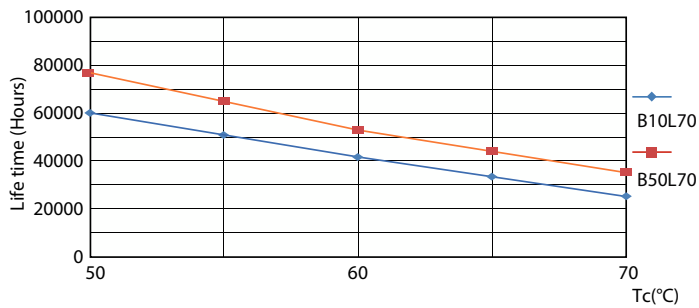
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## Lifetime



LEDtube-75K-5070-FailureRate-LED

Life Expectancy Diagram



LifetimeVsTc

