



# MASTER LED tube EM/Mains T8 with Recycled Plastic



## MAS LEDtube 1200mm UO 13.5W 840 T8 EELB

MASTER, LEDtube, T8, EM/Mains, 1200 mm, 13.5 W, 36W TL-D, 4000 K, 2500 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	
Cap-Base	G13 Rotatable end-cap
Nominal lifetime	75,000 hour(s)
Switching Cycle	200,000
Lighting Technology	LEDtube
Flux measurement reference	Sphere
Warranty period	5 years

Light Technical	
Color Code	840 [CCT of 4000K]
Beam Angle (Nom)	160 degree(s)
Luminous Flux	2,500 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	185 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	RG0

## Operating and Electrical

Input Frequency	50 to 60 Hz
Power Consumption	13.5 W
Lamp Current (Max)	69 mA
Lamp Current (Min)	56 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	36W TL-D
Inrush current at mains	7.4
Max. lamp no. on MCB B type 10A – Mains	100
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	100
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	15
Max. lamp no. on MCB B type 16A – Mains	160
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	160
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	1,200 mm
Bulb Shape	T8
Net Weight (Piece)	0.220 kg

## Approval and Application

Energy Efficiency Class	B
Energy Saving Product	Yes
Approval Marks	RoHS compliance CE marking KEMA Keur certificate ENEC certificate
Energy Consumption kWh/1000 h	14 kWh
EPREL Registration Number	2571902
CE mark	Yes
EU RoHS compliant	Yes
LED Innovations	UltraEfficient
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	0.1
Stroboscopic effect visibility measure (SVM)	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	26.8 %
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## Product Data

Order product name	MAS LEDtube 1200mm UO 13.5W 840 T8 EELB
Full product name	MAS LEDtube 1200mm UO 13.5W 840 T8 EELB
Full product code	872016938795900
Order code	929004241902
Material Nr. (12NC)	929004241902
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8720169387959
Numerator - Packs per outer box	10
EAN/UPC - Case	8720169387966

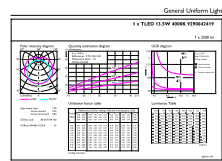
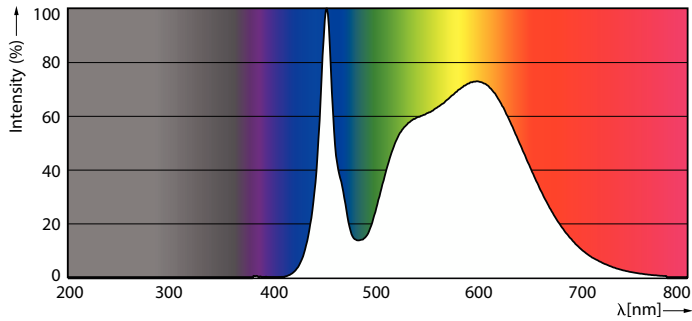
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## Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm UO 13.5W	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
840 T8 EELB					

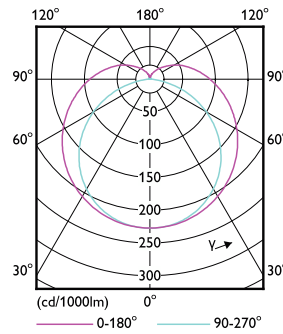
## Photometric data



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Spectral Power Distribution Colour - MAS LEDtube 1200mm UO 13.5W 840 T8 EELB

General uniform lighting - MAS LEDtube 1200mm UO 13.5W 840 T8 EELB



Light Distribution Diagram - MAS LEDtube 1200mm UO 13.5W 840 T8 EELB

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## Lifetime



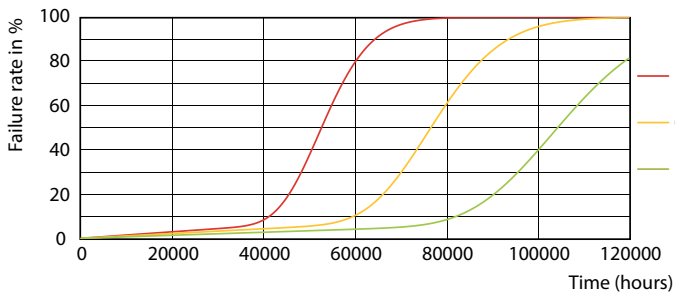
Lumen Maintenance Diagram - MAS LEDtube 1200mm UO 13.5W 840 T8 EELB



Life Expectancy Diagram



Lumen Maintenance Diagram - MAS LEDtube 1200mm UO 13.5W 840 T8 EELB



Life Expectancy Diagram



Life Expectancy Diagram

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