



MASTER LED tube EM/Mains T8 with Recycled Plastic

MAS LEDtube 600mm HO 7.6W830 T8

MASTER, LEDtube, T8, EM/Mains, 600 mm, 7.6 W, 18W TL-D, 3000 K, 1090 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	830 [CCT of 3000K]
Nominal lifetime	75,000 hour(s)	Beam Angle (Nom)	160 degree(s)
Switching Cycle	200,000	Luminous Flux	1,090 lm
Lighting Technology	LEDtube	Color Designation	White (WH)
Flux measurement reference	Sphere	Correlated Color Temperature (Nom)	3000 K
Warranty period	5 years	Luminous Efficacy (rated) (Nom)	143 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

Sustainability Data

Product non-virgin material ratio	40.9 %
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Operating and Electrical

Input Frequency	50 to 60 Hz
Power Consumption	7.6 W
Lamp Current (Max)	40 mA
Lamp Current (Min)	30 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	18W TL-D
Inrush current at mains	7
Max. lamp no. on MCB B type 10A - Mains	105
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.	30
Max. lamp no. on MCB B type 16A - Mains	170
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	290
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	49
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	600 mm
Bulb Shape	T8
Net Weight (Piece)	0.095 kg

Approval and Application

Energy Efficiency Class	D
Energy Saving Product	Yes
Approval Marks	RoHS compliance CE marking KEMA Keur certificate ENEC certificate
Energy Consumption kWh/1000 h	8 kWh
EPREL Registration Number	2144208
CE mark	Yes
EU RoHS compliant	Yes
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 %

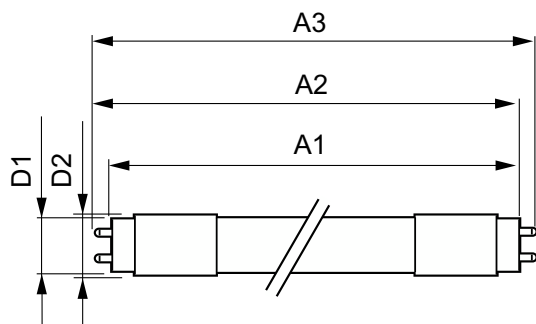
Application Conditions

can it be used in closed luminaires	Yes
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Product Data

Order product name	MAS LEDtube 600mm HO 7.6W830 T8
Full product name	MAS LEDtube 600mm HO 7.6W830 T8
Full product code	872110304415000
Order code	929004260202
Material Nr. (12NC)	929004260202
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8721103044150
Numerator - Packs per outer box	10
EAN/UPC - Case	8721103044167

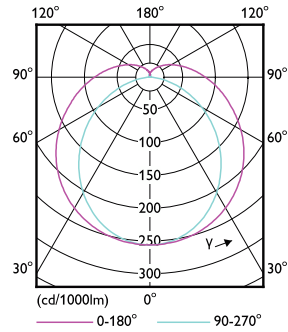
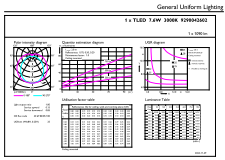
Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube 600mm HO 7.6W830 T8	25.8 mm	28 mm	588.5 mm	595.5 mm	602.5 mm

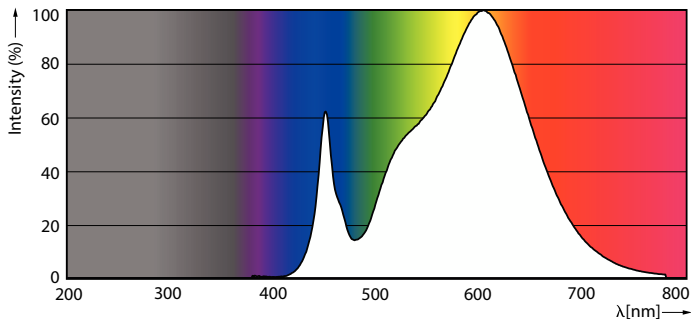
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Photometric data



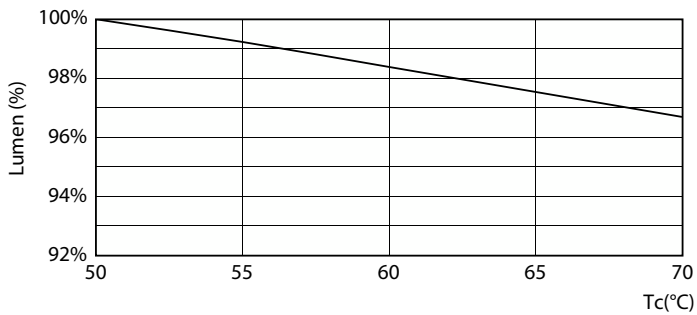
General uniform lighting - MAS LEDtube 600mm HO 7.6W830 T8

Light Distribution Diagram - MAS LEDtube 600mm HO 7.6W830 T8

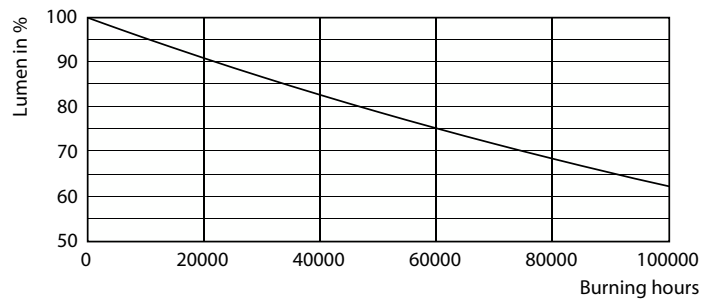


Spectral Power Distribution Colour - MAS LEDtube 600mm HO 7.6W830 T8

Lifetime



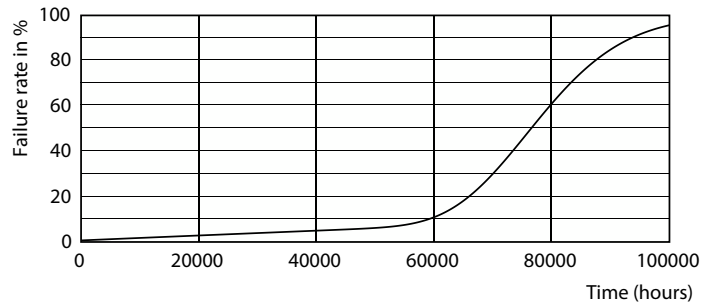
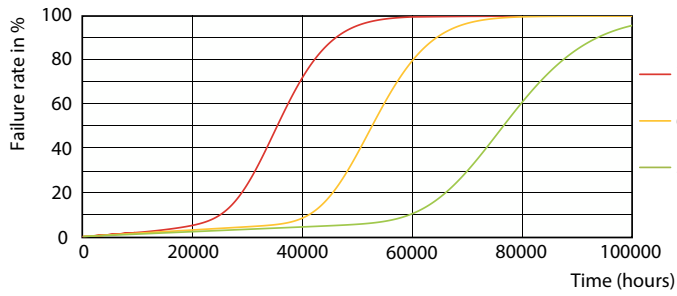
Lumen Maintenance Diagram - MAS LEDtube 600mm HO 7.6W830 T8



Lumen Maintenance Diagram - MAS LEDtube 600mm HO 7.6W830 T8

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Lifetime



LEDtube-75K-5070-FailureRate-LED

Life Expectancy Diagram



LifetimeVsTc

