



MASTER LEDtube InstantFit HF



MAS LEDtube HF 1500mm HO 20W865 T8

MASTER, LEDtube, T8, HF, 1500 mm, 20 W, 58W TL-D, 6500 K, 3100 lm, CRI 80, 75000 h

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. This product is the ideal solution for up lighting in general lighting applications.

Warnings and Safety

- NOTES: The overall energy efficiency and light distribution of any installation that uses these lamps are determined by the design of the installation.

Product data

General Information		Correlated Colour Temperature (Nom)	
Cap base	G13 Rotatable end-cap	Correlated Colour Temperature (Nom)	6500 K
Nominal lifetime	75,000 h	Luminous efficacy (rated) (nom.)	155 lm/W
Switching Cycle	50,000	Colour consistency	<6
Lighting Technology	LEDtube	Colour rendering index (CRI)	80
Flux measurement reference	Sphere	LLMF at end of nominal lifetime (nom.)	70 %
Warranty period	5 years	Photobiological safety according to EN 62471	RG0
Light Technical		Operating and Electrical	
Colour Code	865 [CCT of 6500K]	Line Frequency	20000-75000 Hz
Beam angle (nom.)	160 degree(s)	Input frequency	20000-75000 Hz
Luminous Flux	3,100 lm	Power Consumption	20 W
Colour designation	Cool Daylight	Lamp current (max.)	750 mA
		Lamp current (min.)	300 mA

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Starting time (nom.)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (nom.)	30-80 V
LED alternative to fluorescent lamp power	58W TL-D
Inrush current at mains	-
Max. lamp no. on MCB B type 10A – Mains	-
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	-
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	-
Max. lamp no. on MCB B type 16A – Mains	-
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	-
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	-
Ballast Compatibility	HF

Temperature

T-Case maximum (nom.)	55 °C
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Controls and Dimming

Dimmable	Yes – Check ballast compatibility
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Mechanical and Housing

Lamp Finish	Frosted
Bulb material	Plastic
Product length	1,500 mm
Bulb shape	T8

Net Weight (Piece)	0.280 kg
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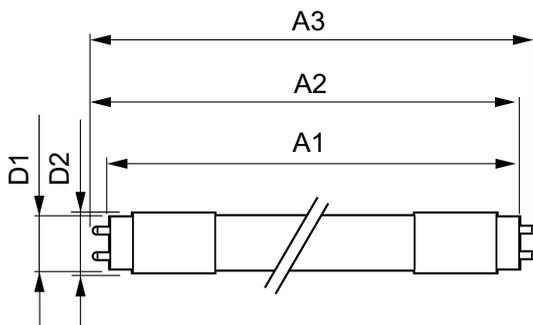
Approval and Application

Energy Efficiency Class	D
Energy-saving product	Yes
Approval marks	RoHS compliance CE marking KEMA Keur certificate ENEC certificate
Energy consumption kWh/1,000 hours	20 kWh
EPREL Registration Number	1165515
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM)	0.5
Stroboscopic effect	0.2
Ambient temperature range	-20°C to 45°C

Product Data

Order product name	MAS LEDtube HF 1500mm HO 20W865 T8
Full product name	MAS LEDtube HF 1500mm HO 20W865 T8
Full EOC	871951446692000
Order code	929003553902
Material no. (12 NC)	929003553902
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8719514466920
Numerator – packs per outer box	20
EAN/UPC – Case	8719514466937

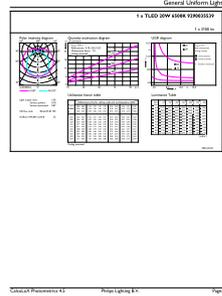
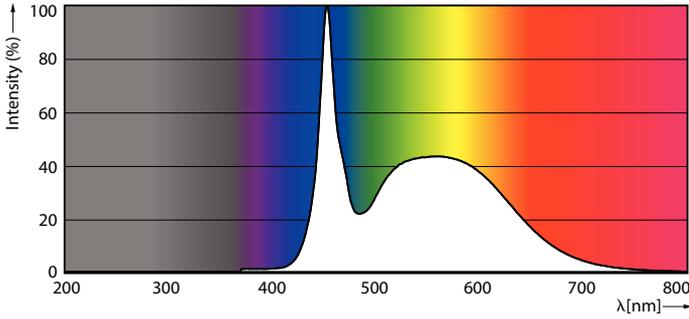
Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube HF 1500mm HO 20W865 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm

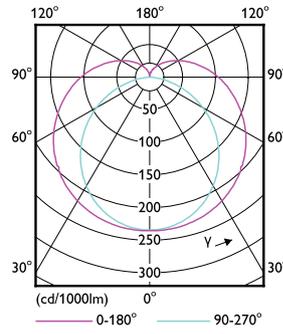
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Photometric data



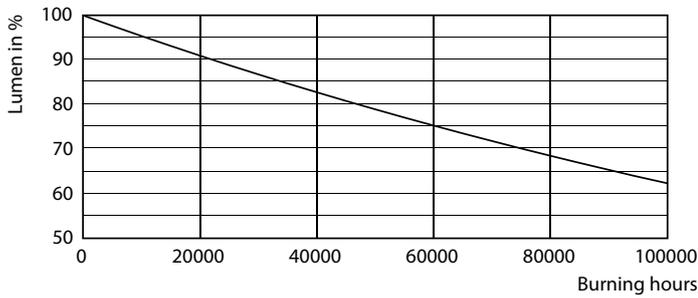
Spectral Power Distribution Colour - MAS LEDtube HF 1500mm HO 20W865 T8

General uniform lighting - MAS LEDtube HF 1500mm HO 20W865 T8

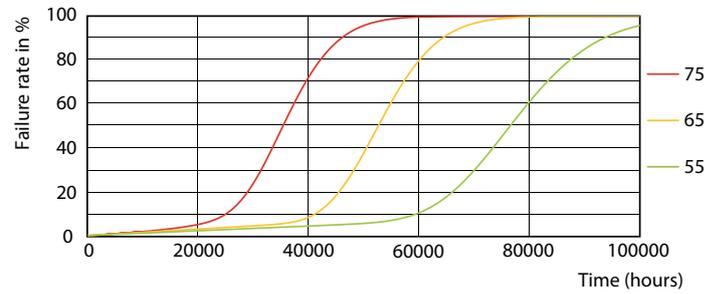


Light Distribution Diagram - MAS LEDtube HF 1500mm HO 20W865 T8

Lifetime



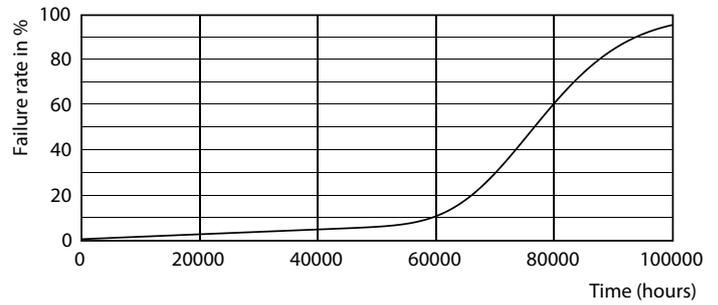
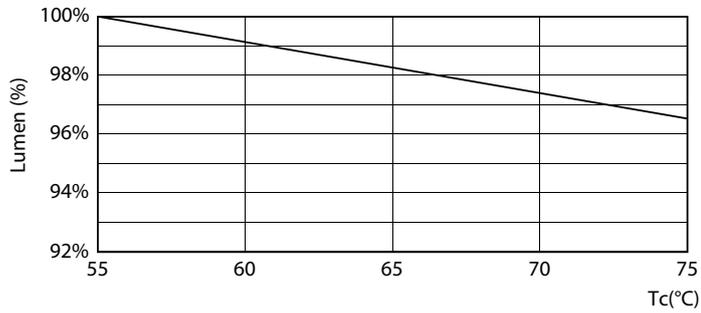
Lumen Maintenance Diagram - MAS LEDtube HF 1500mm HO 20W865 T8



LEDtube-75K-5575-FailureRate-LED

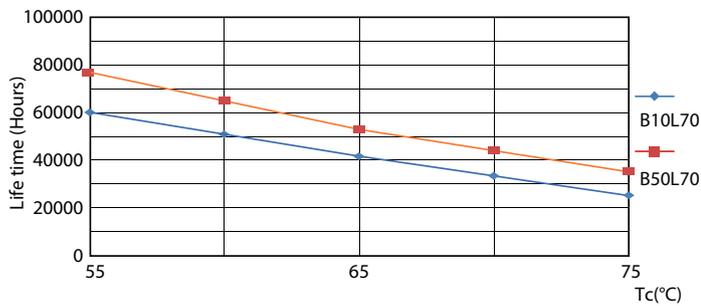
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Lifetime



Lumen Maintenance Diagram - MAS LEDtube HF 1500mm HO 20W865 T8

Life Expectancy Diagram



LifetimeVsTc

