



MASTER LEDtube InstantFit HF



MAS LEDtube HF 1500mm HO 20W840 T8

MASTER, LEDtube, T8, HF, 1500 mm, 20 W, 58W TL-D, 4000 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	
Cap base	G13 Rotatable end-cap
Nominal lifetime	75,000 h
Switching Cycle	50,000
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	3,100 lm
Colour designation	Cool White (CW)

Correlated Colour Temperature (Nom)	4000 K
Luminous efficacy (rated) (nom.)	155 lm/W
Colour consistency	<6
Colour rendering index (CRI)	80
LLMF at end of nominal lifetime (nom.)	70 %
Photobiological safety according to EN 62471	RG0
Operating and Electrical	
Line Frequency	20000-75000 Hz
Input frequency	20000-75000 Hz
Power Consumption	20 W
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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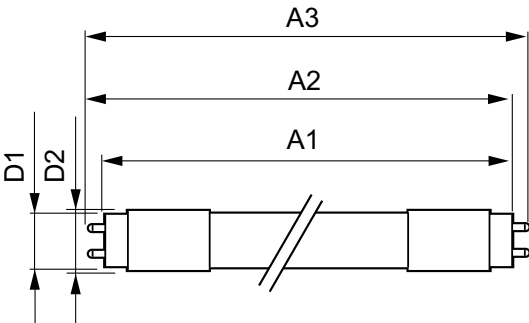
Approval and Application

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	1165505
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 20W840 T8
Full product name	MAS LEDtube HF 1500mm HO 20W840 T8
Full EOC	871951446690600
Order code	929003553802
Material no. (12 NC)	929003553802
Numerator – quantity per pack	1
EAN/UPC — Product/Case	8719514466906
Numerator – packs per outer box	20
EAN/UPC - Case	8719514466913

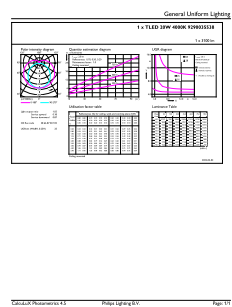
Dimensional drawing



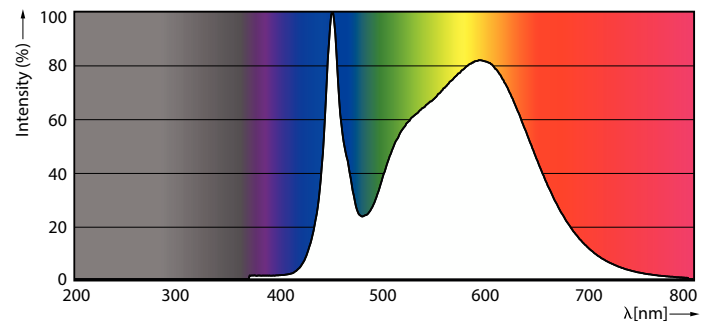
Product	D1	D2	A1	A2	A3
MAS LEDtube HF 1500mm HO 20W840 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm

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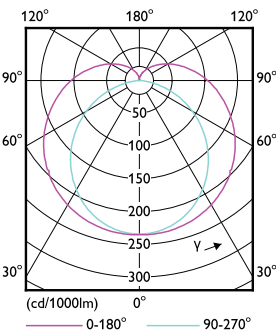
Photometric data



General uniform lighting - MAS LEDtube HF 1500mm HO 20W840 T8

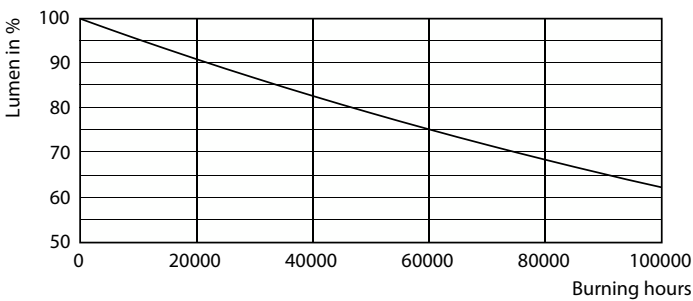


Spectral Power Distribution Colour - MAS LEDtube HF 1500mm HO 20W840 T8

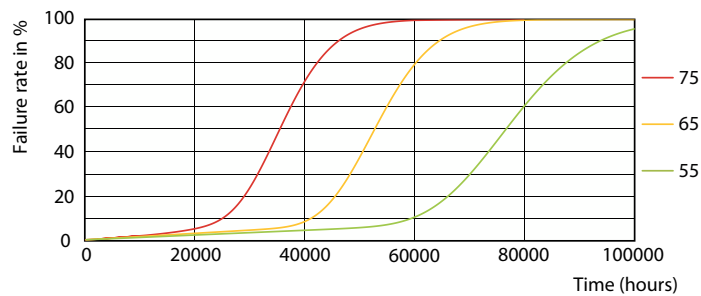


Light Distribution Diagram - MAS LEDtube HF 1500mm HO 20W840 T8

Lifetime



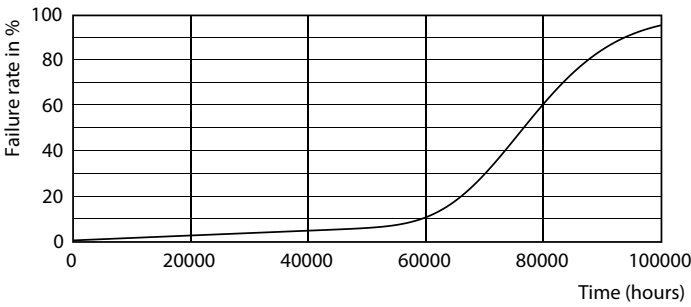
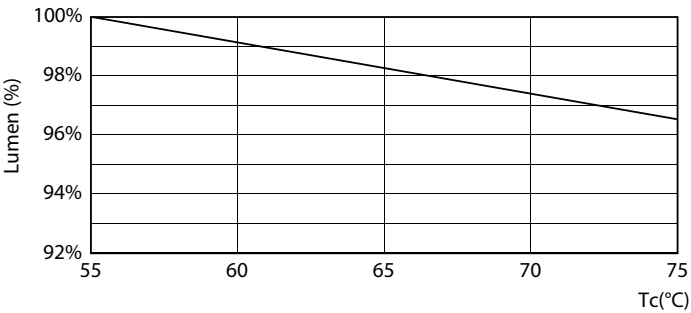
Lumen Maintenance Diagram - MAS LEDtube HF 1500mm HO 20W840 T8



LEDtube-75K-5575-FailureRate-LED

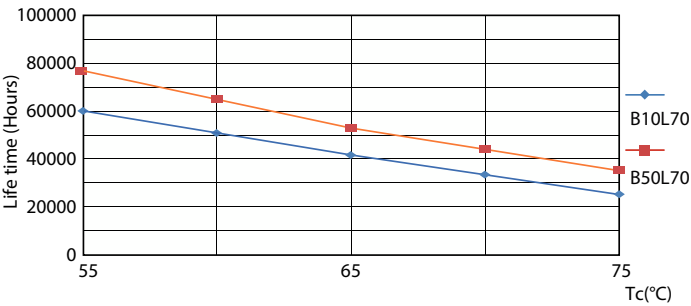
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Lifetime



Lumen Maintenance Diagram - MAS LEDtube HF 1500mm HO 20W840 T8

Life Expectancy Diagram



LifetimeVsTc

