



MASTER LEDtube InstantFit HF



MASTER LEDtube HF 1200mm HO 14W830 T8

MASTER, LEDtube, T8, HF, 1200 mm, 14 W, 36W TL-D, 3000 K, 2000 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 lambing 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 ROT
Nominal lifetime	75,000 h
Switching Cycle	50,000
Lighting Technology	LEDtube
Flux measurement reference	Sphere
Warranty period	5 years
Light Technical	
Colour Code	830 [CCT of 3000K]
Beam angle (nom.)	160 degree(s)
Luminous Flux	2,000 lm
Colour designation	White (WH)

Correlated Colour Temperature (Nom)	3000 K
Luminous efficacy (rated) (nom.)	142 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	14 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	36W 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	1,200 mm
Bulb shape	T8

Net Weight (Piece)	0.230 kg
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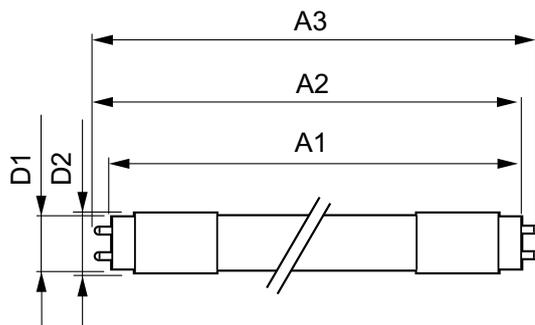
Approval and Application

Energy Efficiency Class	E
Energy-saving product	Yes
Approval marks	RoHS compliance CE marking KEMA Keur certificate ENEC certificate
Energy consumption kWh/1,000 hours	14 kWh
EPREL Registration Number	1165513
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 1200mm HO 14W830 T8
Full product name	MASTER LEDtube HF 1200mm HO 14W830 T8
Full EOC	871951446688300
Order code	46688300
Material no. (12 NC)	929003553402
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8719514466883
Numerator – packs per outer box	20
EAN/UPC – Case	8719514466890

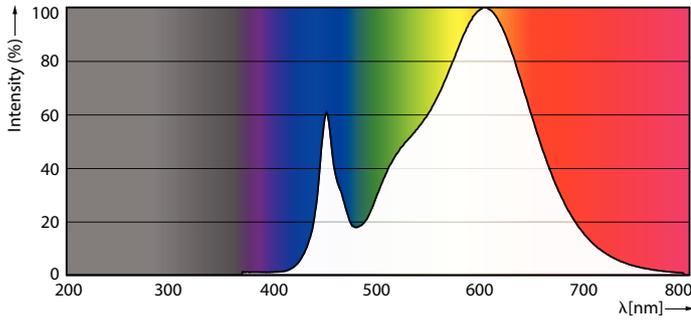
Dimensional drawing



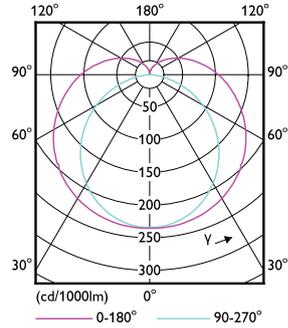
Product	D1	D2	A1	A2	A3
MAS LEDtube HF 1200mm HO 14W830 T8	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm

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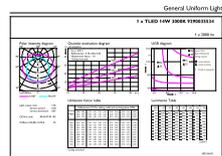
Photometric data



Spectral Power Distribution Colour - MAS LEDtube HF 1200mm HO 14W830 T8



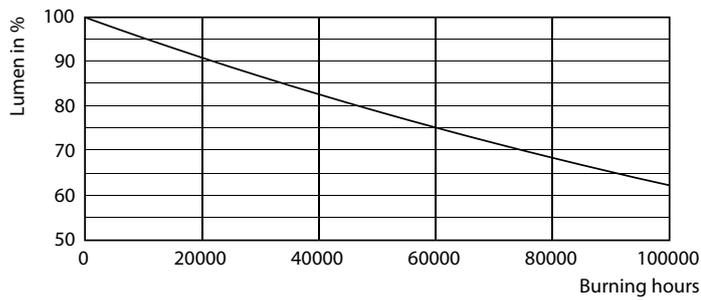
Light Distribution Diagram - MAS LEDtube HF 1200mm HO 14W830 T8



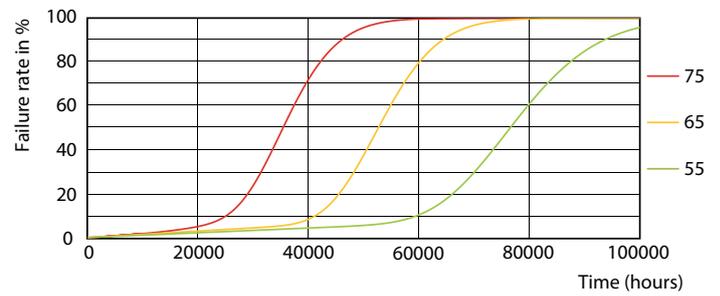
General Uniform Lighting

General uniform lighting - MAS LEDtube HF 1200mm HO 14W830 T8

Lifetime



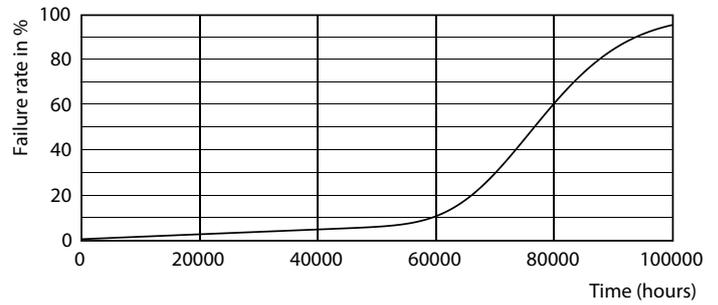
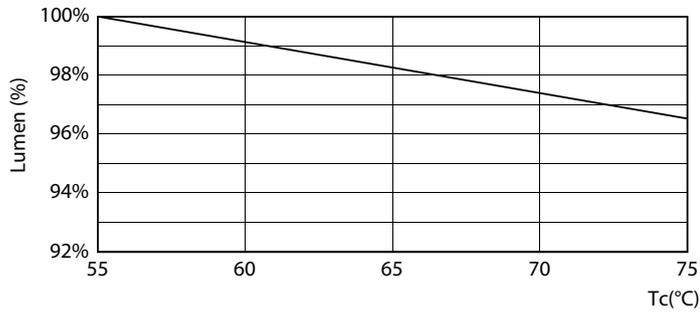
Lumen Maintenance Diagram - MAS LEDtube HF 1200mm HO 14W830 T8



LEDtube-75K-5575-FailureRate-LED

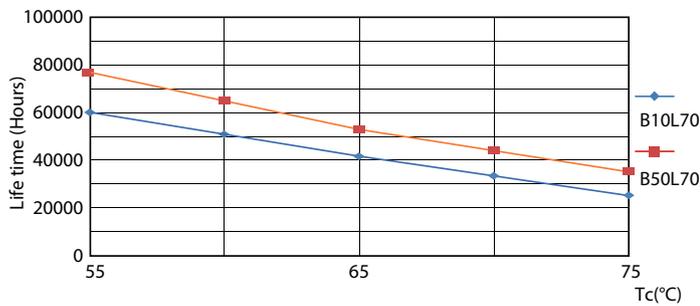
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Lifetime



Lumen Maintenance Diagram - MAS LEDtube HF 1200mm HO 14W830 T8

Life Expectancy Diagram



LifetimeVsTc

