MASTER LEDtube InstantFit HF

MASTER LEDtube HF 1500mm HO 20W830 T8

MASTER, LEDtube, T8, HF, 1500 mm, 20 W, 58W TL–D, 3000 K, 2900 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 lamping 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)	3000 K
Cap base	G13 ROT	Luminous efficacy (rated) (nom.)	145 lm/W
Nominal lifetime	75,000 h	Colour consistency	<6
Switching Cycle	50,000	Colour rendering index (CRI)	80
Lighting Technology	LEDtube	LLMF at end of nominal lifetime (nom.)	70 %
Flux measurement reference	Sphere	Photobiological safety according to EN 62471	RG0
Warranty period	5 years		
		Operating and Electrical	
Light Technical		Line Frequency	20000-75000 Hz
Colour Code	830 [CCT of 3000K]	Input frequency	20000-75000 Hz
Beam angle (nom.)	160 degree(s)	Power Consumption	20 W
Luminous Flux	2,900 lm	Lamp current (max.)	750 mA
Colour designation	White (WH)	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 ℃

Controls and Dimming

Dimmable	Yes – Check ballast compatibility

Mechanical and Housing

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

Net Weight (Piece)	0.280 kg

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	20 kWh
EPREL Registration Number	1165503
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM)	0.5
Stroboscopic effect	0.2
Ambient temperature range	–20℃ to 45℃

Product Data

Order product name	MAS LEDtube HF 1500mm HO 20W830 T8
Full product name	MASTER LEDtube HF 1500mm HO 20W830 T8
Full EOC	871951446694400
Order code	46694400
Material no. (12 NC)	929003553702
Numerator – quantity per pack	1
EAN/UPC — Product/Case	8719514466944
Numerator – packs per outer box	20
EAN/UPC – Case	8719514466951

Dimensional drawing
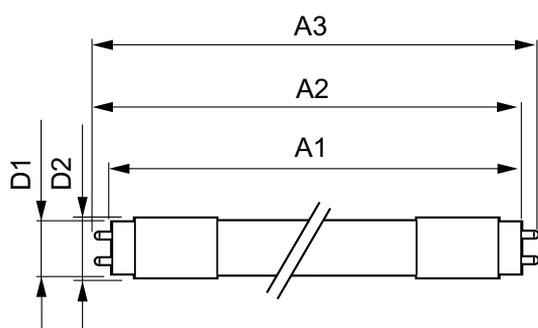
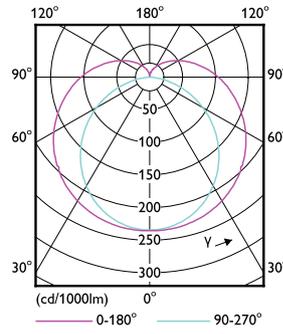| Product	D1	D2	A1	A2	A3
MAS LEDtube HF 1500mm HO 20W830 T8	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm

MASTER LEDtube InstantFit HF
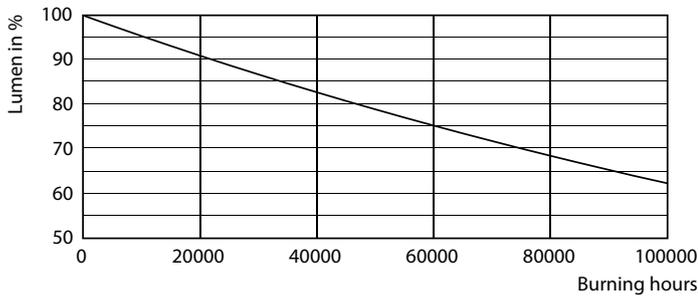
Photometric data
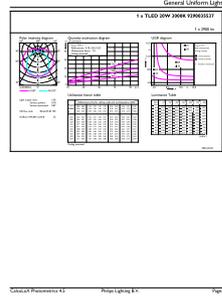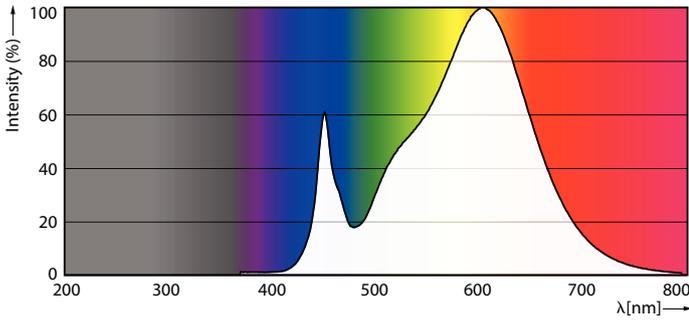
Spectral Power Distribution Colour – MAS LEDtube HF 1500mm HO 20W830 T8

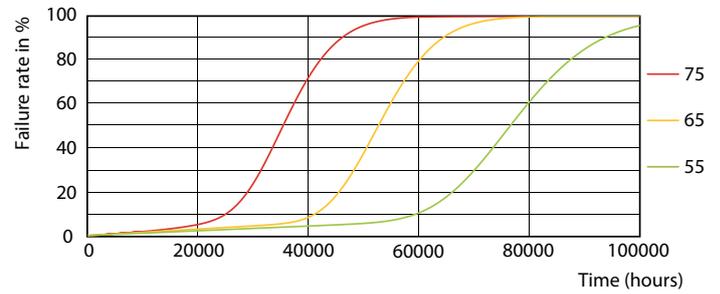**General uniform lighting – MAS LEDtube HF 1500mm HO 20W830 T8**

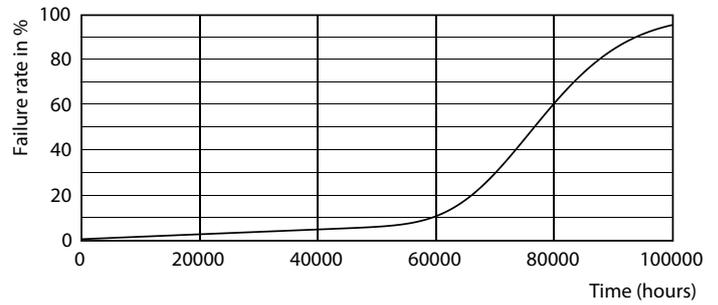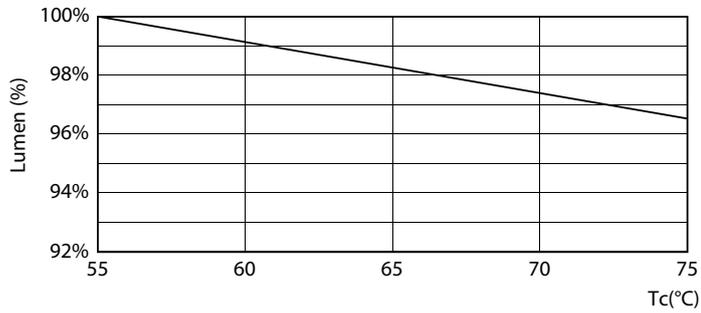**Light Distribution Diagram – MAS LEDtube HF 1500mm HO 20W830 T8**

Lifetime

Lumen Maintenance Diagram – MAS LEDtube HF 1500mm HO 20W830 T8
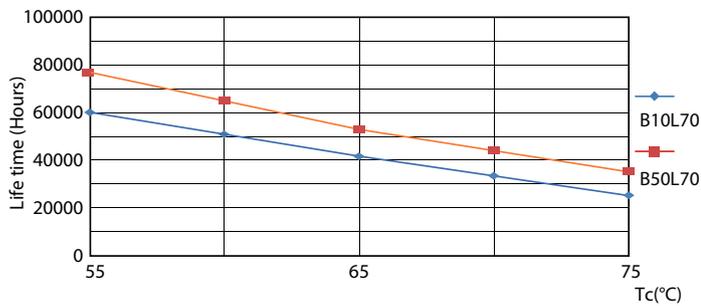

LEDtube-75K-5575-FailureRate-LED

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Lifetime

Lumen Maintenance Diagram – MAS LEDtube HF 1500mm HO 20W830 T8

Life Expectancy Diagram

LifetimeVsTc

www.lighting.philips.com

2023, April 15 – data subject to change