

MASTER LEDtube InstantFit HF

MASTER LEDtube HF 1500mm HO 20W830 T8

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	
Cap base	G13 ROT (Rotating) [Medium Bi-Pin Fluorescent]
EU RoHS compliant	Yes
Nominal lifetime (nom.)	75000 h
Switching cycle	50,000X
	Sphere
Tier	Master

Light technical	
Colour Code	830 [CCT of 3,000 K]
Beam Angle (Nom)	160 °
Luminous flux (nom.)	2900 lm
Colour designation	White (WH)
Correlated Colour Temperature (Nom)	3000 K
Luminous efficacy (rated) (nom.)	145 lm/W
Colour consistency	<6
Colour rendering index (nom.)	80
LLMF at end of nominal lifetime (nom.)	70 %

Operating and electrical	
Input frequency	20000-75000 Hz
Power (Rated) (Nom)	20 W
Lamp current (max.)	750 mA
Lamp current (min.)	300 mA
Starting time (nom.)	0.5 s
Warm-up time to 60% light (nom.)	0.5 s
Power factor (nom.)	0.9
Voltage (Nom)	30-80 V

Temperature	
T-ambient (max.)	45 °C
T-ambient (min.)	-20 °C
T-ambient (min.)	-20 °C

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T storage (max.)	65 °C
T storage (min.)	-40 °C
T-Case maximum (nom.)	55 °C

Controls and dimming

Dimmable	Yes – Check ballast compatibility

Mechanical and housing

Lamp Finish	Frosted
Bulb material	Plastic
Product length	1500 mm
Bulb shape	Tube, double-ended

Approval and application

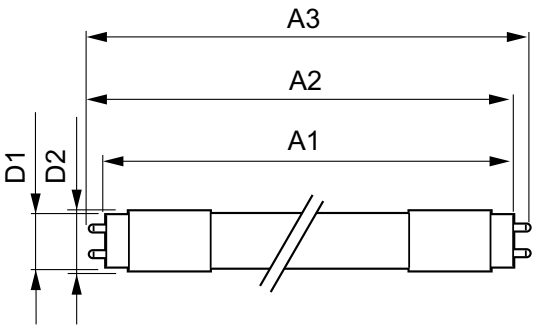
Energy Efficiency Class	E
Energy-saving product	Yes

Approval marks	RoHS compliance TUV CE marking KEMA Keur certificate
Energy consumption kWh/1,000 hours	20 kWh
	1165503

Product data

Full product code	871951446694400
Order product name	MASTER LEDtube HF 1500mm HO 20W830 T8
EAN/UPC – product	8719514466944
Order code	46694400
SAP numerator – quantity per pack	1
Numerator – packs per outer box	20
SAP material	929003553702
Net Weight (Piece)	0.280 kg

Dimensional drawing



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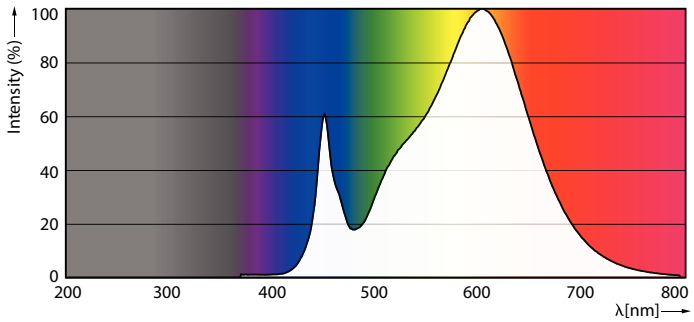
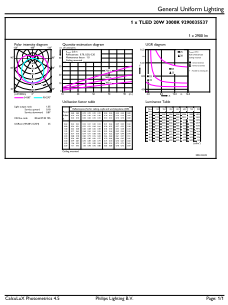
Product	D1	D2	A1	A2	A3
MASTER LEDtube HF 1500mm HO 20W830 T8	25.8 mm	28 mm	1498.8 mm	1505.9 mm	1513 mm

Photometric data



Spectral Power Distribution Colour



General uniform lighting

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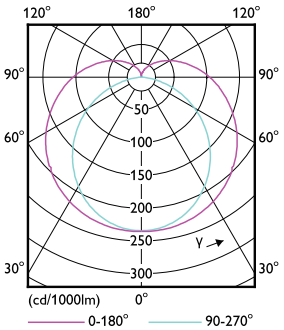
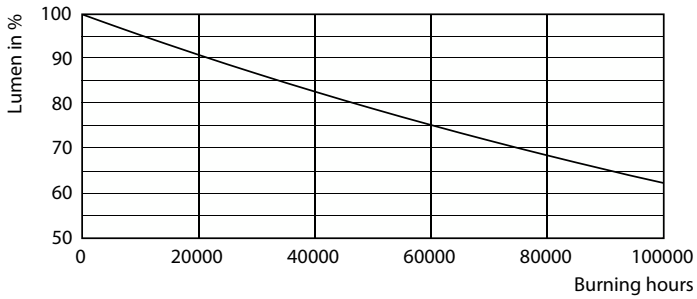
Photometric data

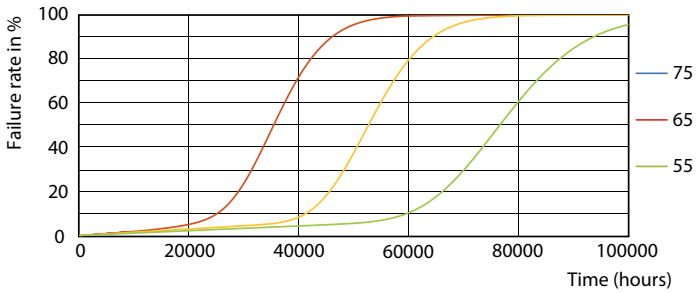


Light Distribution Diagram

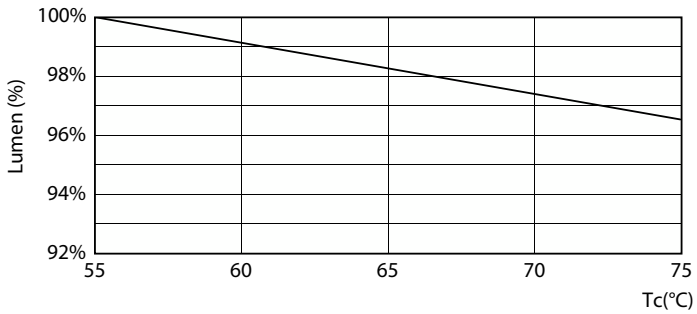
Lifetime



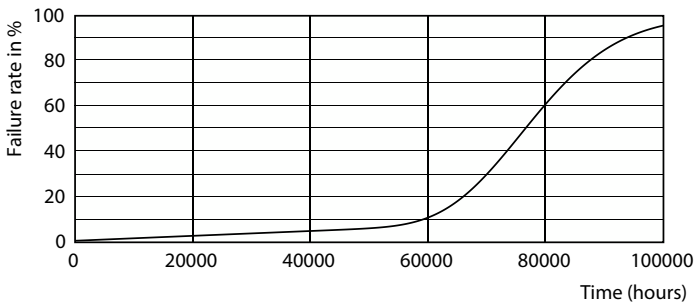
Lumen Maintenance Diagram



FailureRate



LumenVsTc



Life Expectancy Diagram

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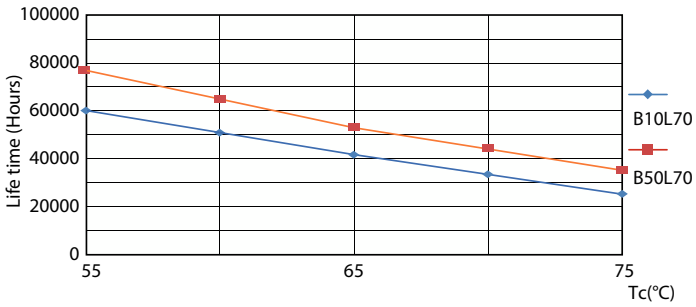
Lifetime



LifetimeVsTc

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