



MASTER LED tube InstantFit HF T8



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 hour(s)

Philips MASTER LEDtube InstantFit T8 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. Philips MASTER LEDtube InstantFit T8 is the ideal solution for customers who have higher light requirements and want to maximize value over lifetime. Full energy savings & longer lifetime result in attractive payback times and TCO benefits.

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		Luminous Flux	
Cap-Base	G13 Rotatable end-cap	Luminous Flux	3,100 lm
Nominal lifetime	75,000 hour(s)	Color Designation	Cool White (CW)
Switching Cycle	50,000	Correlated Color Temperature (Nom)	4000 K
Lighting Technology	LEDtube	Luminous Efficacy (rated) (Nom)	155 lm/W
Flux measurement reference	Sphere	Color Consistency	<6
Warranty period	5 years	Color rendering index (CRI)	80
		LLMF At End Of Nominal Lifetime (Nom)	70 %
		Photobiological safety according to EN 62471	RG0
Light Technical		Operating and Electrical	
Color Code	840 [CCT of 4000K]	Line Frequency	20000-75000 Hz
Beam Angle (Nom)	160 degree(s)		

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Input Frequency	20000-75000 Hz
Power Consumption	20 W
Lamp Current (Max)	750 mA
Lamp Current (Min)	300 mA
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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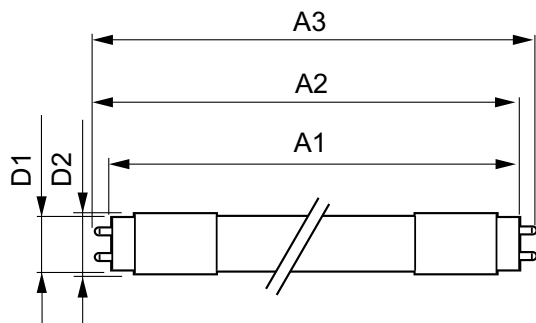
Controls and Dimming

Dimmable	Yes - Check ballast compatibility
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Mechanical and Housing

Bulb Finish	Frosted
Bulb Material	Plastic
Product Length	1,500 mm
Bulb Shape	T8

Dimensional drawing



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/1000 h	20 kWh
EPREL Registration Number	1165505
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	0.5
Stroboscopic effect visibility measure (SVM)	0.2
Ambient temperature range	-20 °C to 45 °C

Application Conditions

Wireless Technology	Not applicable
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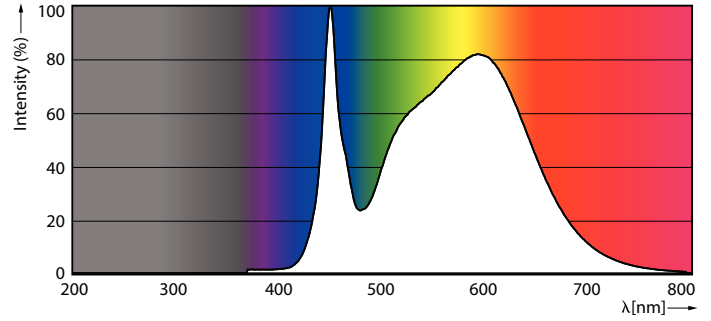
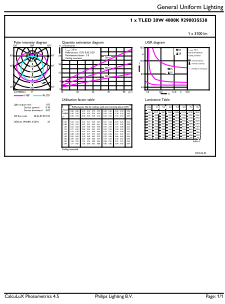
Product Data

Order product name	MAS LEDtube HF 1500mm HO 20W840 T8
Full product name	MAS LEDtube HF 1500mm HO 20W840 T8
Full product code	871951446690600
Order code	929003553802
Material Nr. (12NC)	929003553802
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8719514466906
Numerator - Packs per outer box	20
EAN/UPC - Case	8719514466913

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

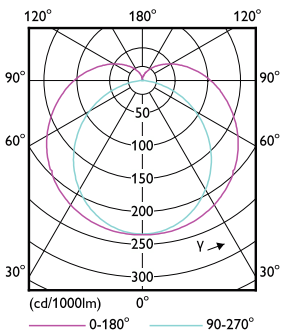
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Photometric data



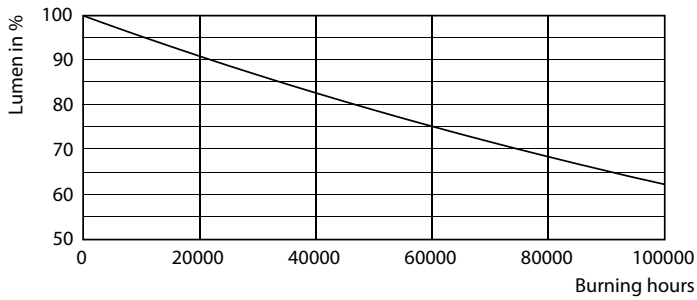
General uniform lighting - MAS LEDtube HF 1500mm HO 20W840 T8

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

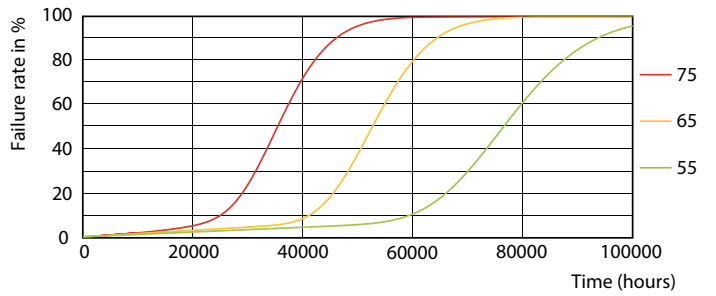


Light Distribution Diagram - MAS LEDtube HF 1500mm HO 20W840 T8

Lifetime



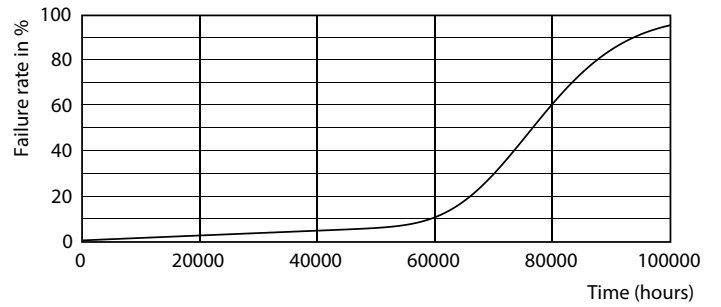
Lumen Maintenance Diagram - MAS LEDtube HF 1500mm HO 20W840 T8



LEDtube-75K-5575-FailureRate-LED

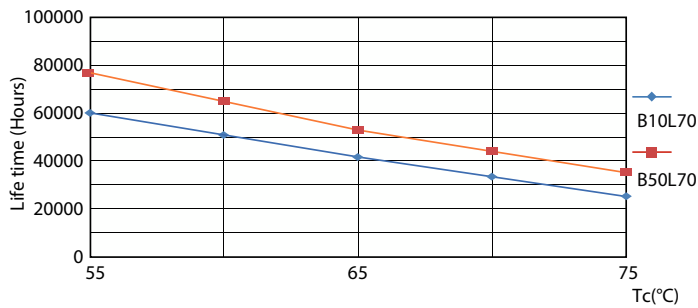
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Lifetime



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

Life Expectancy Diagram



LifetimeVsTc

