PHILIPS

MAS LEDtube HF
1500mm HO 20W840 T8

929003553802



MASTER, LEDtube, T8, HF, 1500 mm, 20 W, 58W TL-D, 4000 K, 3100 lm, CRI 80, 75000 hour(s)



MASTER, LEDtube, T8, HF, 1500 mm, 20 W, LED alternative to 58W TL-D, 4000 K, 3100 lm, CRI 80, 75000 hour(s), 155 lm/W, EEL D, G13 Rotatable end-cap, Beam angle 160 degree(s), Plastic, 1500 mm, RG0, SDCM 6, PF 0.9, IP20, SVM 0.2, PstLM 0.5

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.

General Information

Cap-Base	G13 Rotatable end-cap
Nominal lifetime	75,000 hour(s)
Switching Cycle	50,000
Lighting Technology	LEDtube
Flux measurement reference	Sphere
Warranty period	5 years

Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	155 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %
Photobiological safety according to EN 62471	RG0

Light Technical

Color Code	840 [CCT of 4000K]
Beam Angle (Nom)	160 degree(s)
Luminous Flux	3,100 lm
Color Designation	Cool White (CW)

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
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

Controls and Dimming

Dimmable	Yes - Check ballast compatibility

Mechanical and Housing

Bulb 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	D
Energy Saving Product	Yes
Approval Marks	RoHS compliance
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

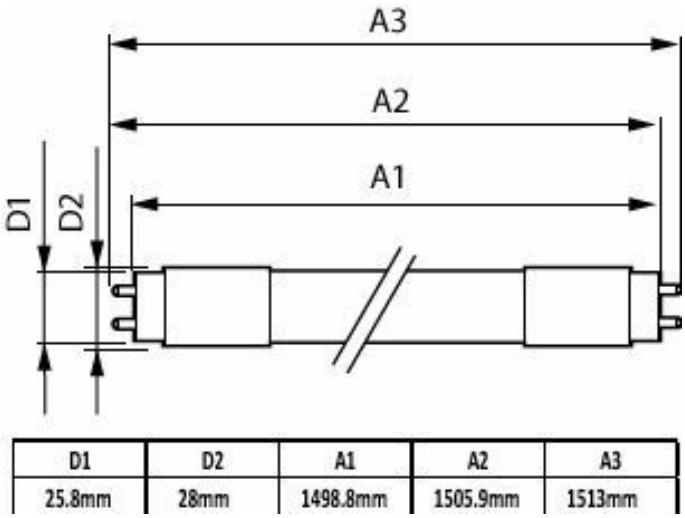
Application Conditions

Wireless Technology	Not applicable

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

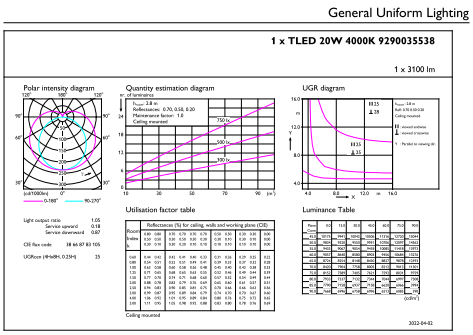
Dimensional drawing



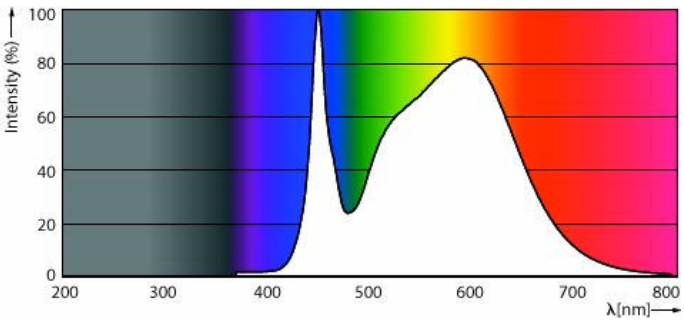
D1	D2	A1	A2	A3
25.8mm	28mm	1498.8mm	1505.9mm	1513mm

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

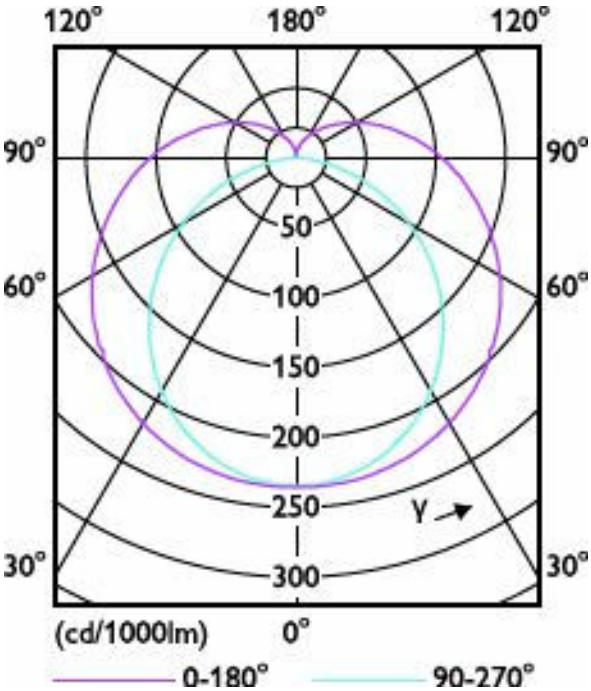
Photometric data



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

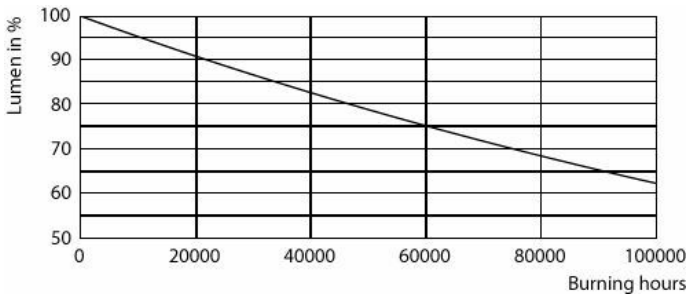


Spectral Power Distribution Colour - MAS LEDtube HF 1500mm HO 20W840 T8

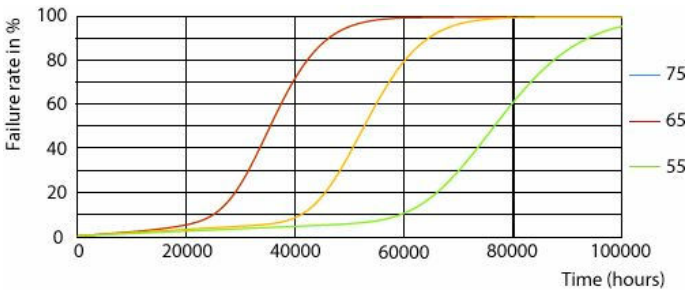


Light Distribution Diagram - MAS LEDtube HF 1500mm HO 20W840 T8

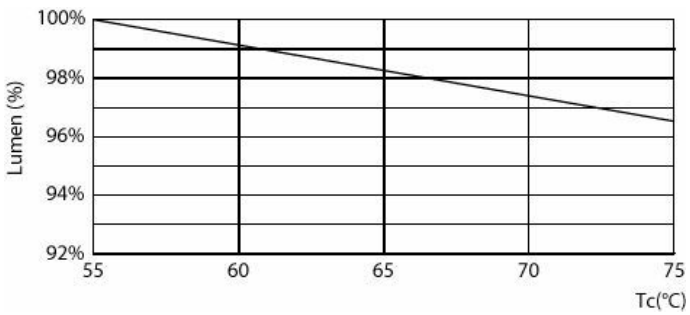
Lifetime



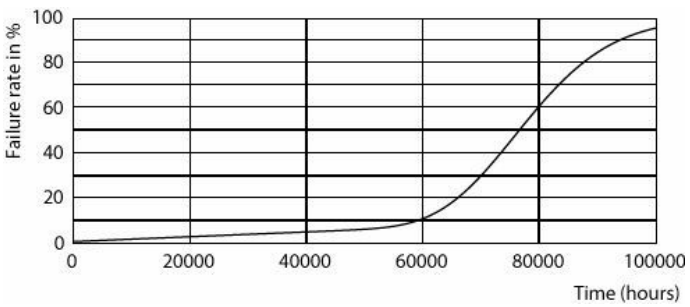
Lumen Maintenance Diagram - MAS LEDtube HF 1500mm HO 20W840 T8



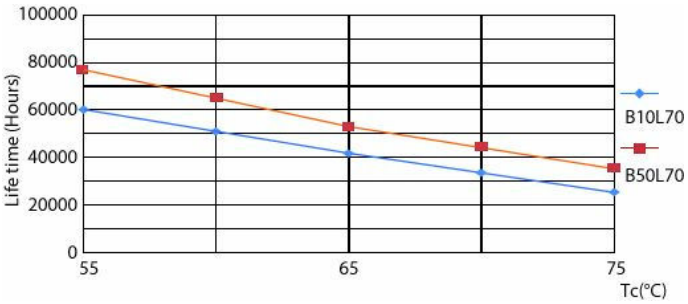
LEDtube-75K-5575-FailureRate-LED



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



Life Expectancy Diagram



LifetimeVsTc

Related Documents

Documents and certificates	Document Name	Download
Environmental Product Declaration	Philips-MASTER-LEDtube-InstantFit-HF-T8-COMF-2168-Ref-929003554402-EPD.pdf	Download
Installation Instructions	LEDtube_Installation_Guide_HF_1-INI.pdf	Download

Photometry and lighting design	Document Name	Download
IES File	LEDtube_MAS_EU3_20W_G13_3100lm_840-IES.IES	Download

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