



MASTER LEDtube InstantFit HF T5



Master LEDtube HF 1200mm HE 16.5W 840 T5

The Philips MASTER LEDtube integrates an LED light source into a traditional fluorescent form factor. Its unique design creates a perfectly uniform visual appearance, which cannot be distinguished from traditional fluorescents. These T5 lighting tubes are the right choice for absolute performance and are designed to stand up to everyday conditions. Unparalleled savings, thanks to low energy consumption and an exceptionally long lifetime, make these T5 LED tubes the choice for every demanding applications.

Product data

General Information	
Cap base	G5
Nominal lifetime	60,000 h
Switching Cycle	50,000
Lighting Technology	LED
Flux measurement reference	Sphere
CE mark	Yes
EU RoHS compliant	Yes
Light Technical	
Colour Code	840 [CCT of 4000K]
Beam angle (nom.)	200 degree(s)
Luminous Flux	2,500 lm
Colour designation	Cool White (CW)
Correlated Colour Temperature	4000 K
Luminous efficacy (rated) (nom.)	151 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	30K to 100K Hz
Input frequency	30 K to 100 K Hz
Power Consumption	16.5 W
Lamp current (max.)	350 mA
Lamp current (min.)	150 mA
Starting time (nom.)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.92
Voltage (nom.)	70-120 V
LED alternative to fluorescent lamp power	28 W
Inrush current at mains	-
Max. lamp no. on MCB B type 10A — Mains	-
Max. lamp no. on MCB B type 10A — EM ballast	-
without Comp. Cap.	-

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Max. lamp no. on MCB B type 10A — EM ballast with Comp. Cap.	-
Max. lamp no. on MCB B type 16A — Mains	-
Max. lamp no. on MCB B type 16A — EM ballast without Comp. Cap.	-
Max. lamp no. on MCB B type 16A — EM ballast with Comp. Cap.	-
Ballast Compatibility	HF

Temperature

Ambient temperature range	-20°C to 45°C
T-Case maximum (nom.)	65 °C

Controls and Dimming

Dimmable	Yes – Check ballast compatibility
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Mechanical and Housing

Lamp Finish	Frosted
Bulb material	Glass
Product length	1,200 mm
Bulb shape	T5

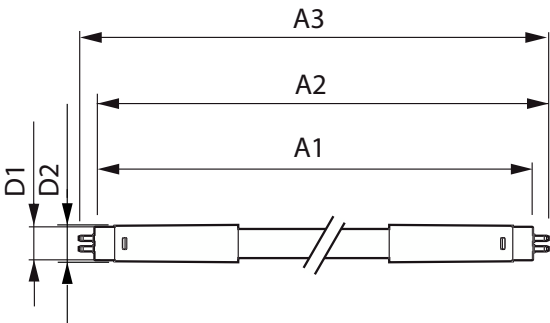
Approval and Application

Energy Efficiency Class	D
Energy-saving product	Yes
Approval marks	RoHS compliance TUV CE marking KEMA Keur certificate
Energy consumption kWh/1,000 hours	17 kWh
EPREL registration number	1384135

Product Data

Order product name	MAS LEDtube HF 1200mm HE 16.5W 840 T5
Full product name	Master LEDtube HF 1200mm HE 16.5W 840 T5
Full EOC	871869674331700
Order code	74331700
Material no. (12 NC)	929001391102
SAP numerator – quantity per pack	1
EAN/UPC — Product/Case	8718696743317
Numerator – packs per outer box	10
EAN/UPC – Case	8718696743324

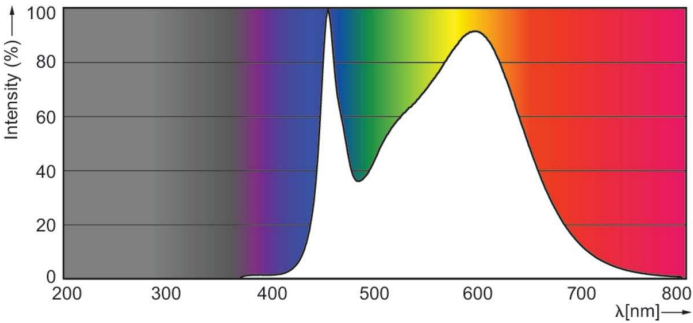
Dimensional drawing



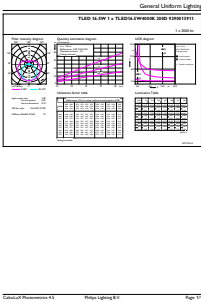
Product	D1	D2	A1	A2	A3
MAS LEDtube HF 1200mm HE 16.5W 840 T5	15.5 mm	18.8 mm	1,149 mm	1,156.1 mm	1,163.2 mm

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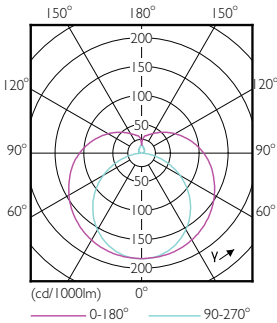
Photometric data



Spectral Power Distribution Colour - MAS LEDtube HF 1200mm HE 16.5W 840 T5

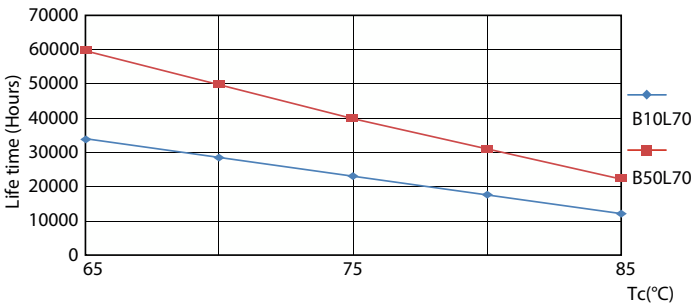


General uniform lighting - MAS LEDtube HF 1200mm HE 16.5W 840 T5

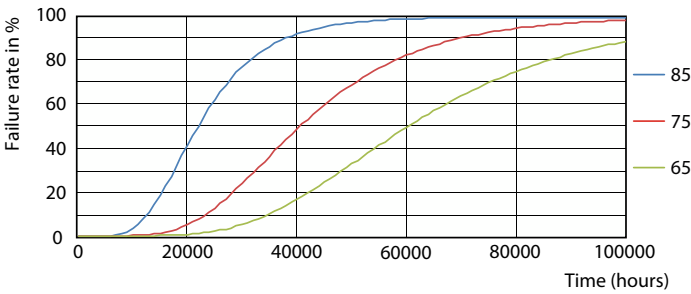


Light Distribution Diagram - MAS LEDtube HF 1200mm HE 16.5W 840 T5

Lifetime



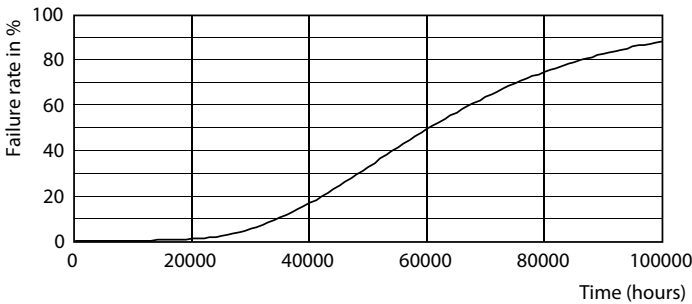
Life Expectancy Diagram - MAS LEDtube HF 1200mm HE 16.5W 840 T5



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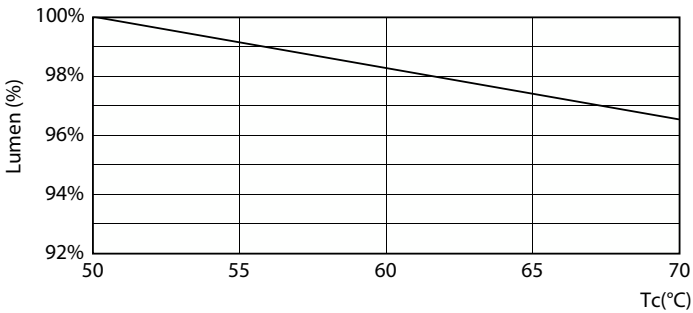
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Lifetime



Lumen Maintenance Diagram - MAS LEDtube HF 1200mm HE 16.5W 840 T5

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