PHILIPS

Lighting



MASTER LEDtube Mains T5



MASTER LEDtube 1200mm HE 16.5W 840 T5 EU

The new Philips Master LEDtube Mains T5 brings simplicity to your lighting project. You don't need to pay attention to the driver technology anymore. Thanks to a unique design, Philips MASTER LEDtube Mains T5 installs in luminaires operating on mains power connection. So simple to operate! . Perfectly safe, reliable &and easy to install, the Philips MASTER LEDtube Mains T5 is the ideal alternative to standard fluorescent tubes to maximise value over lifetime with high energy savings and lower maintenance costs.

Product data

General Information	
Cap base	G5
Nominal lifetime	50,000 h
Switching Cycle	200,000
Lighting Technology	LED
Flux measurement reference	Sphere

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 (Nom)	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	50 to 60 Hz
Input frequency	50 to 60 Hz
Power Consumption	16.5 W
Lamp current (nom.)	85 mA
Starting time (nom.)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (nom.)	220-240 V
LED alternative to fluorescent lamp power	28 W
Inrush current at mains	7
Max. lamp no. on MCB B type 10A — Mains	76
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.	-

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Max. lamp no. on MCB B type 16A — Mains	121
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	Mains

Temperature

T-Case maximum (nom.)	55 °C

Controls and Dimming

Dimmable	No

Mechanical and Housing

Lamp Finish	Frosted
Bulb material	Glass
Product length	1,200 mm
Bulb shape	T5
Net Weight (Piece)	0.215 kg

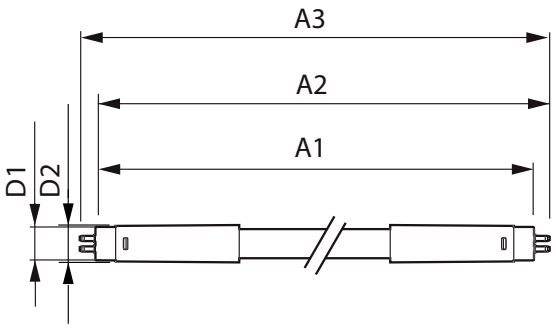
Approval and Application

Energy Efficiency Class	D
Energy-saving product	Yes
Approval marks	RoHS compliance
Energy consumption kWh/1,000 hours	17 kWh
EPREL Registration Number	1476407
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM)	1
Stroboscopic effect	0.4
Ambient temperature range	-20 to +45 °C

Product Data

Order product name	MAS LEDtube 1200mm HE 16.5W 840 T5 EU
Full product name	MASTER LEDtube 1200mm HE 16.5W 840 T5 EU
Full EOC	871951433433500
Order code	33433500
Material no. (12 NC)	929003044502
Numerator – quantity per pack	1
EAN/UPC — Product/Case	8719514334335
Numerator – packs per outer box	10
EAN/UPC - Case	8719514334342

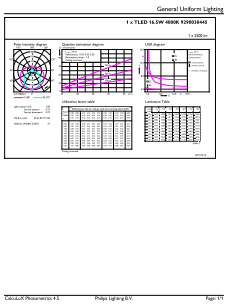
Dimensional drawing



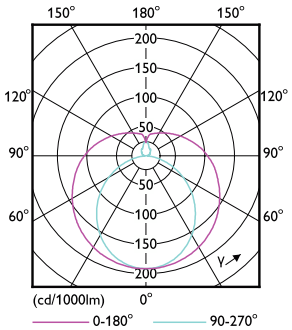
Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm HE 16.5W 840 T5 EU	15.7 mm	19 mm	1,149 mm	1,156.1 mm	1,163.2 mm

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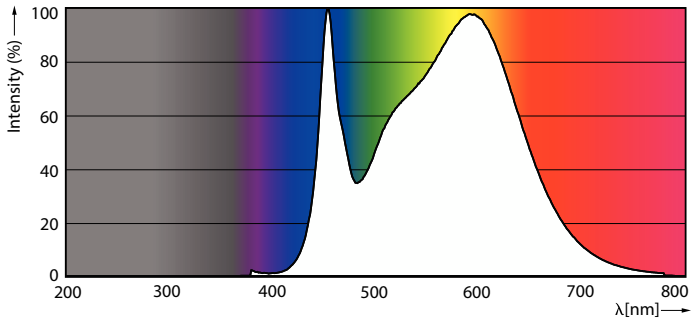
Photometric data



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

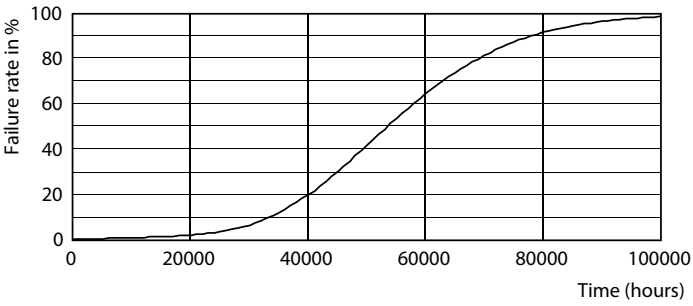


Light Distribution Diagram - MAS LEDtube 1200mm HE 16.5W 840 T5 EU

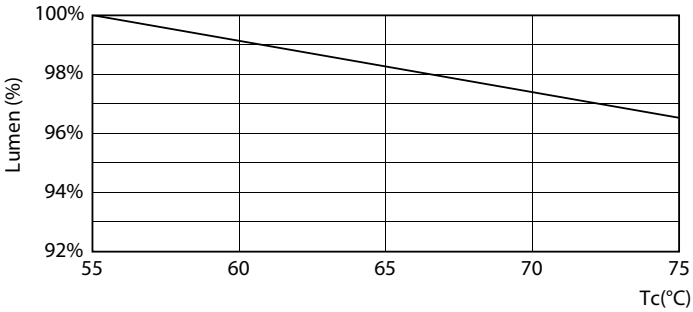


Spectral Power Distribution Colour - MAS LEDtube 1200mm HE 16.5W 840 T5 EU

Lifetime



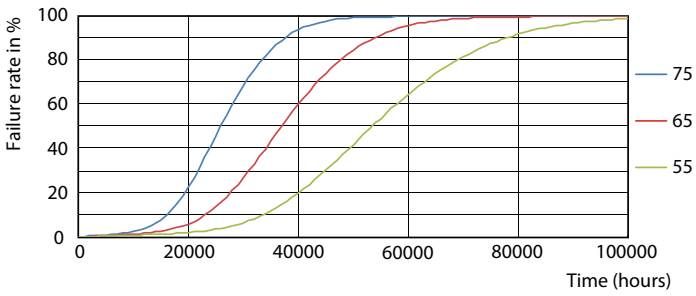
Life Expectancy Diagram

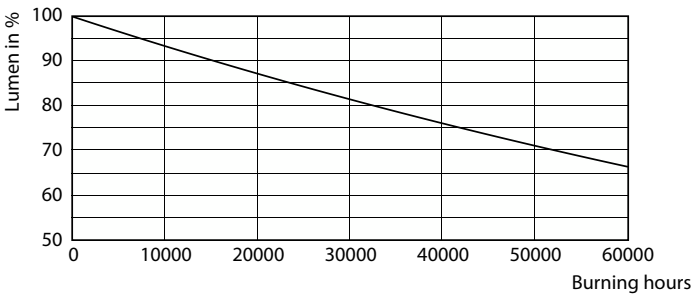


Lumen Maintenance Diagram - MAS LEDtube 1200mm HE 16.5W 840 T5 EU

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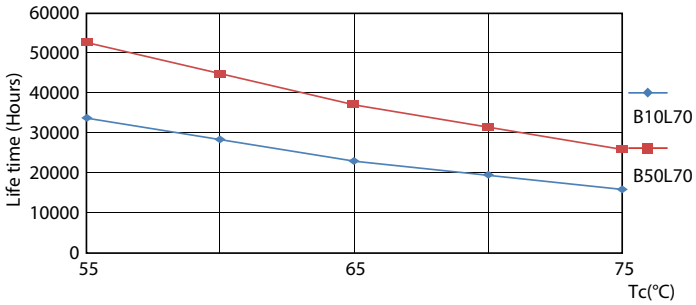
Lifetime





FailureRate

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



LifetimeVsTc

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