PHILIPS

Lighting

MASTER LED tube Mains T5

MAS LEDtube 1200mm HE 16.5W 865 T5 EU

MASTER, LEDtube, T5, Mains, 1200 mm, 16.5 W, 28W TL5 HE, 6500 K, 2500 lm, CRI 80, 60000 h

MASTER, LEDtube, T5, Mains, 1200 mm, 16.5 W, LED alternative to 28W TL5 HE, 6500 K, 2500 lm, CRI 80, 60000 h, 151 lm/W, EEL D, G5, Glass, 1200 mm, RG0, SDCM 6, PF 0.9, IP20, SVM 0.4, PstLM 1

Product data

General Information	
Cap base	G5
Nominal lifetime	60,000 h
Switching Cycle	200,000
Lighting Technology	LEDtube
Flux measurement reference	Sphere
Warranty period	5 years

Light Technical	
Colour Code	865 [CCT of 6500K]
Beam angle (nom.)	200 degree(s)
Luminous Flux	2,500 lm
Colour designation	Cool Daylight
Correlated Colour Temperature (Nom)	6500 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	28W TL5 HE
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.	-

MASTER LED tube Mains T5

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 CE marking KEMA Keur certificate

Energy consumption kWh/1,000 hours	17 kWh
EPREL Registration Number	1476411
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM)	1
Stroboscopic effect	0.4
Ambient temperature range	-20 to +45 °C

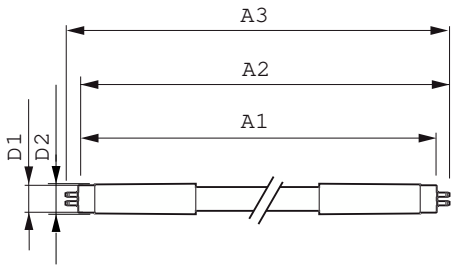
Application Conditions

Wireless Technology	Not applicable

Product Data

Order product name	MAS LEDtube 1200mm HE 16.5W 865 T5 EU
Full product name	MAS LEDtube 1200mm HE 16.5W 865 T5 EU
Full EOC	871951433435900
Order code	929003044602
Material no. (12 NC)	929003044602
Numerator – quantity per pack	1
EAN/UPC — Product/Case	8719514334359
Numerator – packs per outer box	10
EAN/UPC - Case	8719514334366

Dimensional drawing



D1	D2	A1	A2	A3
15.8mm	19mm	1149mm	1156.1mm	11632mm

Product	D1	D2	A1	A2	A3
MAS LEDtube 1200mm HE 16.5W 865 T5 EU	15.8 mm	19 mm	1,149 mm	1,156.1 mm	1,163.2 mm

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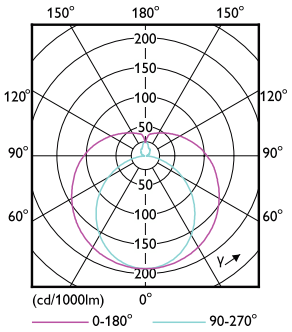
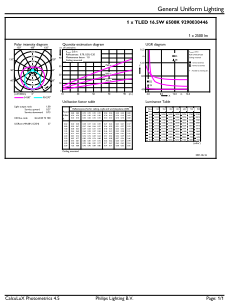
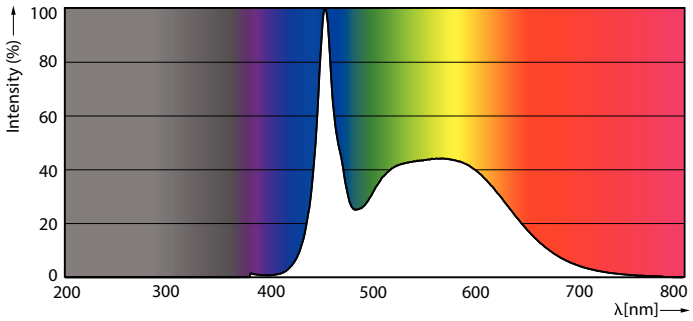
Photometric data



Light Distribution Diagram - MAS LEDtube 1200mm HE 16.5W 865 T5 EU

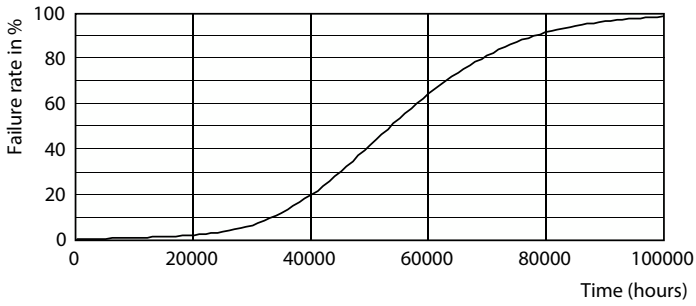


General uniform lighting - MAS LEDtube 1200mm HE 16.5W 865 T5 EU

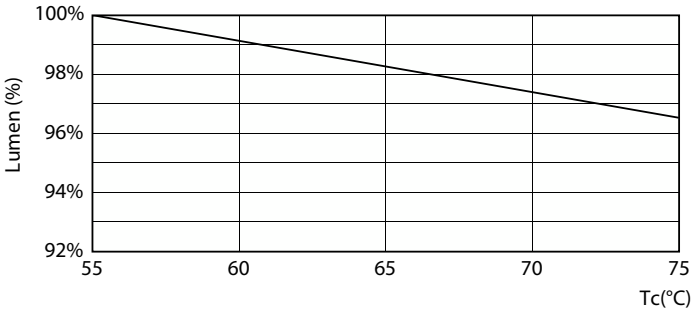


Spectral Power Distribution Colour - MAS LEDtube 1200mm HE 16.5W 865 T5 EU

Lifetime



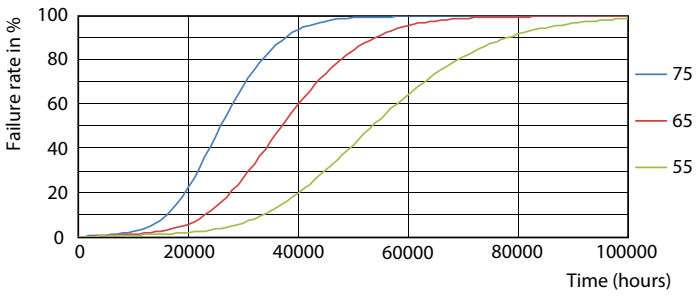
Life Expectancy Diagram

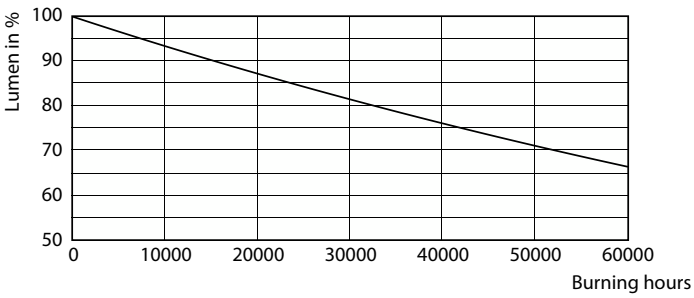


Lumen Maintenance Diagram - MAS LEDtube 1200mm HE 16.5W 865 T5 EU

MASTER LED tube Mains T5

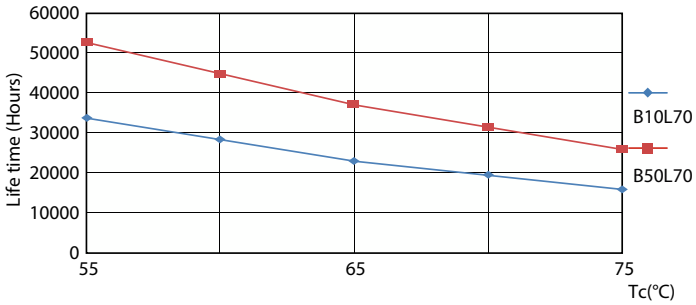
Lifetime





FailureRate

Lumen Maintenance Diagram - MAS LEDtube 1200mm HE 16.5W 865 T5 EU



LifetimeVsTc

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