PHILIPS

Lighting

MASTER LED tube Mains T5

MASTER LEDtube 600mm HE 7W 865 T5 EU

MASTER, LEDtube, T5, Mains, 600 mm, 7 W, 14W TL5 HE, 6500 K, 1050 lm, CRI 80, 60000 hour(s)

MASTER, LEDtube, T5, Mains, 600 mm, 7 W, LED alternative to 14W TL5 HE, 6500 K, 1050 lm, CRI 80, 60000 hour(s), 150 lm/W, EEL D, G5, Beam angle 200 degree(s), Glass, 600 mm, RG0, SDCM 6, PF 0.9, IP20, SVM 0.4, PstLM 1

Product data

General Information	
Cap-Base	G5
Nominal lifetime	60,000 hour(s)
Switching Cycle	200,000
Lighting Technology	LEDtube
Flux measurement reference	Sphere
Warranty period	5 years

Light Technical	
Color Code	865 [CCT of 6500K]
Beam Angle (Nom)	200 degree(s)
Luminous Flux	1,050 lm
Color Designation	Cool Daylight
Correlated Color Temperature (Nom)	6500 K
Luminous Efficacy (rated) (Nom)	150 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

Operating and Electrical	
Input Frequency	50 to 60 Hz
Power Consumption	7 W
Lamp Current (Nom)	32 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	14W TL5 HE
Inrush current at mains	4.5
Max. lamp no. on MCB B type 10A - Mains	160
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	254

MASTER LED tube Mains T5

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)	50 °C

Controls and Dimming

Dimmable	No

Mechanical and Housing

Bulb Finish	Frosted
Bulb Material	Glass
Product Length	600 mm
Bulb Shape	T5
Net Weight (Piece)	0.070 kg

Approval and Application

Energy Efficiency Class	D
Energy Saving Product	Yes
Approval Marks	RoHS compliance KEMA Keur certificate
Energy Consumption kWh/1000 h	7 kWh
EPREL Registration Number	1840375

CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	0.4
Ambient temperature range	-20 to +45 °C

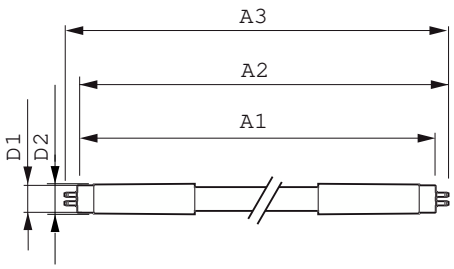
Application Conditions

can it be used in closed luminaires	Yes
Wireless Technology	Not applicable

Product Data

Order product name	MAS LEDtube 600mm HE 7W 865 T5 EU
Full product name	MASTER LEDtube 600mm HE 7W 865 T5 EU
Full product code	872016930684400
Order code	30684400
Material Nr. (12NC)	929003795602
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8720169306844
Numerator - Packs per outer box	10
EAN/UPC - Case	8720169306851

Dimensional drawing

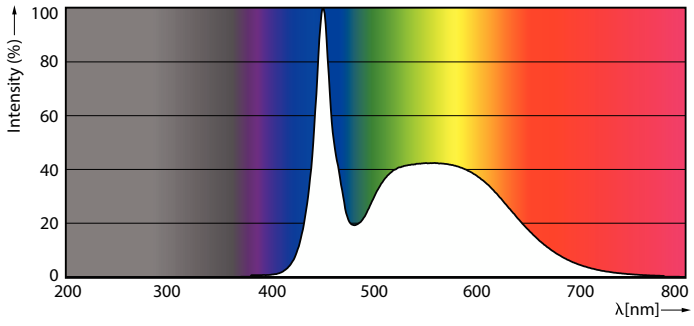


D1	D2	A1	A2	A3
15.7mm	19mm	549mm	556.1mm	563.2mm

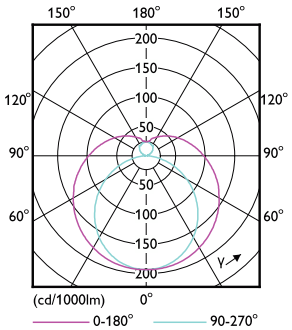
Product	D1	D2	A1	A2	A3
MAS LEDtube 600mm HE 7W 865 T5 EU	15.7 mm	19 mm	549 mm	556.1 mm	563.2 mm

MASTER LED tube Mains T5

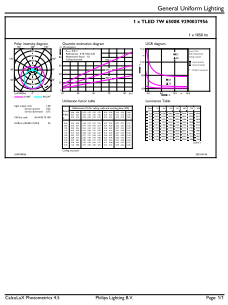
Photometric data



Spectral Power Distribution Colour - MAS LEDtube 600mm HE 7W 865 T5 EU

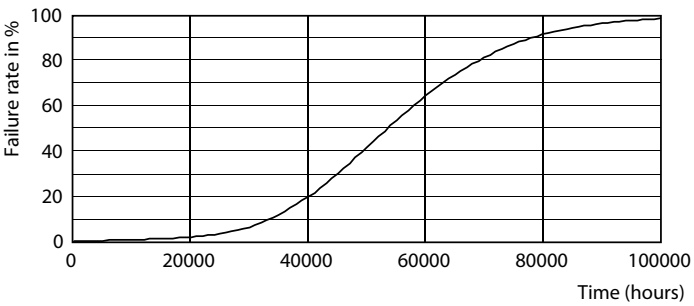


Light Distribution Diagram - MAS LEDtube 600mm HE 7W 865 T5 EU

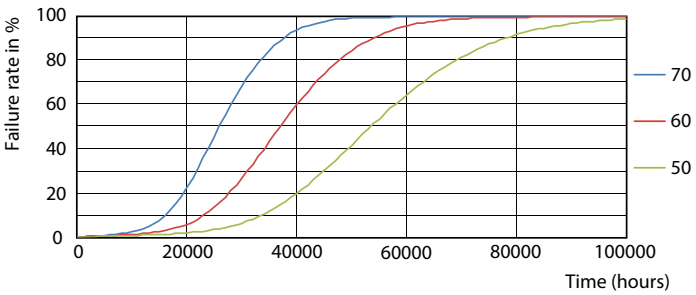


General uniform lighting - MAS LEDtube 600mm HE 7W 865 T5 EU

Lifetime



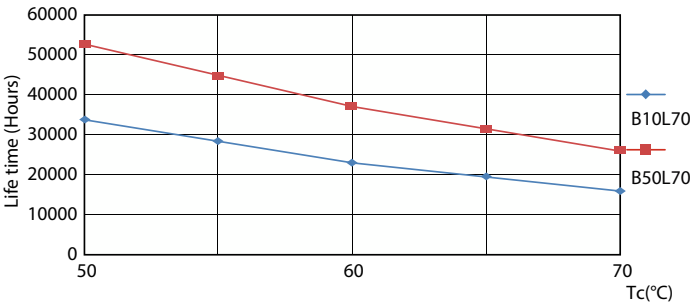
Life Expectancy Diagram



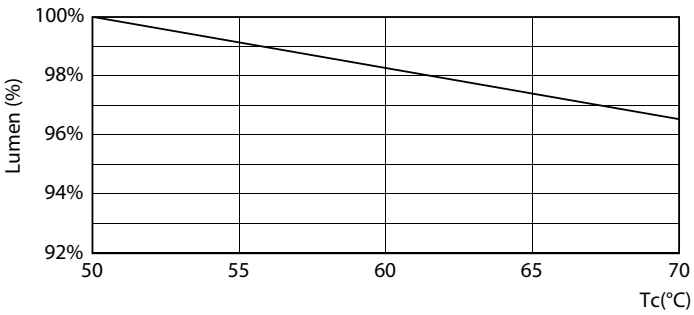
FailureRate

MASTER LED tube Mains T5

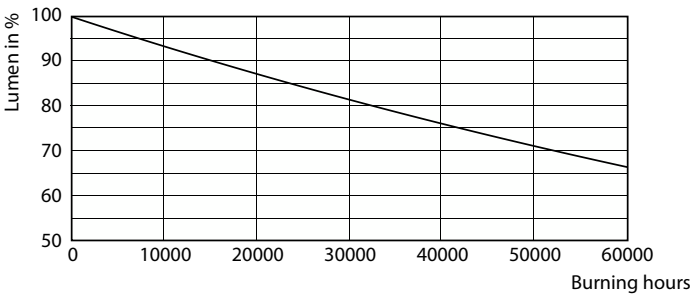
Lifetime



LifetimeVsTc



Lumen Maintenance Diagram - MAS LEDtube 600mm HE 7W 865 T5 EU



Lumen Maintenance Diagram - MAS LEDtube 600mm HE 7W 865 T5 EU

© 2026 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.