



MASTER LEDtube InstantFit HF T5



Master LEDtube HF 600mm HE 7W 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		Photobiological safety according to EN 62471	
Cap base	G5		RG0
Nominal lifetime	60,000 h	Operating and Electrical	
Switching Cycle	50,000	Input frequency	30 K to 100 K Hz
Lighting Technology	LED	Power Consumption	7 W
Flux measurement reference	Sphere	Lamp current (max.)	350 mA
Light Technical		Lamp current (min.)	150 mA
Colour Code	840 [CCT of 4000K]	Starting time (nom.)	0.5 s
Beam angle (nom.)	200 degree(s)	Warm-up time to 60% light	0.5 s
Luminous Flux	1,050 lm	Power Factor (Fraction)	0.92
Colour designation	Cool White (CW)	Voltage (nom.)	40-70 V
Correlated Colour Temperature (Nom)	4000 K	Ballast Compatibility	HF
Luminous efficacy (rated) (nom.)	150 lm/W	LED alternative to fluorescent lamp power	14 W
Colour consistency	<6	Inrush current at mains	-
Colour rendering index (CRI)	80	Max. lamp no. on MCB B type 10A — Mains	-
LLMF at end of nominal lifetime (nom.)	70 %	Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	-

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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.	-

Temperature

T-Case maximum (nom.)	50 °C
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Controls and Dimming

Dimmable	Yes – Check ballast compatibility
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Mechanical and Housing

Lamp Finish	Frosted
Bulb material	Glass
Product length	600 mm
Bulb shape	T5
Net Weight (Piece)	0.085 kg

Approval and Application

Energy Efficiency Class	D
Energy-saving product	Yes
Approval marks	RoHS compliance KEMA Keur certificate

Energy consumption kWh/1,000 hours	7 kWh
EPREL Registration Number	1936619
CE mark	Yes
EU RoHS compliant	Yes
Ambient temperature range	-20 to +45 °C

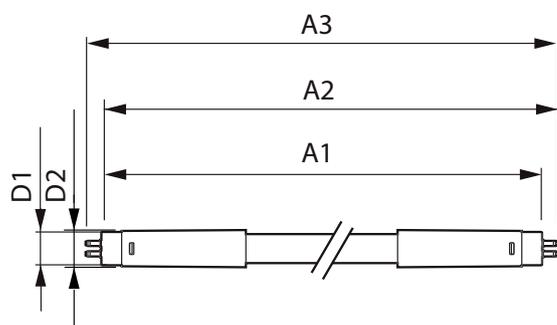
Application Conditions

Can it be used in closed luminaires	Yes
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Product Data

Order product name	MAS LEDtube HF 600mm HE 7W 840 T5
Full product name	Master LEDtube HF 600mm HE 7W 840 T5
Full EOC	872016930968500
Order code	30968500
Material no. (12 NC)	929003795202
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8720169309685
Numerator – packs per outer box	10
EAN/UPC – Case	8720169309692

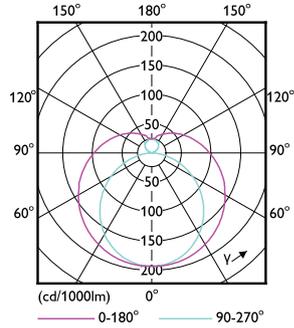
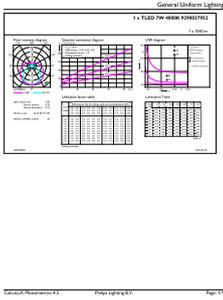
Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube HF 600mm HE 7W 840 T5	15.7 mm	19 mm	549 mm	556 mm	563 mm

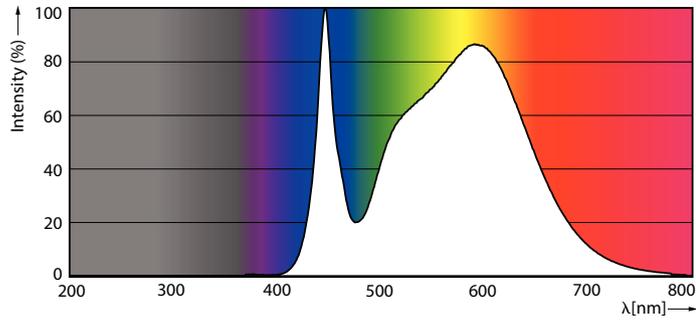
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Photometric data



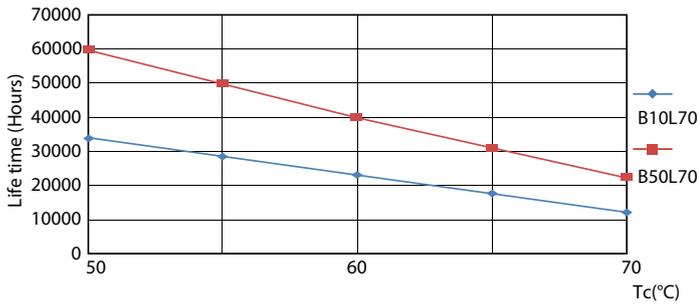
General uniform lighting - MAS LEDtube HF 600mm HE 7W 840 T5

Light Distribution Diagram - MAS LEDtube HF 600mm HE 7W 840 T5

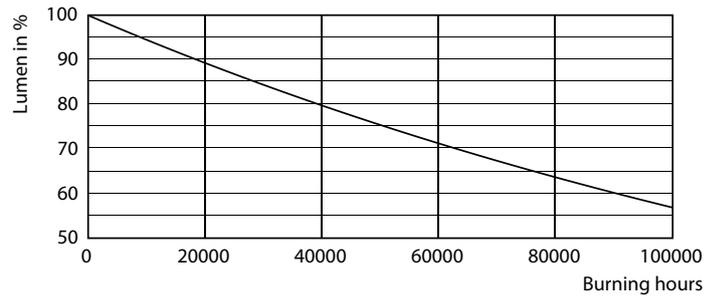


Spectral Power Distribution Colour - MAS LEDtube HF 600mm HE 7W 840 T5

Lifetime



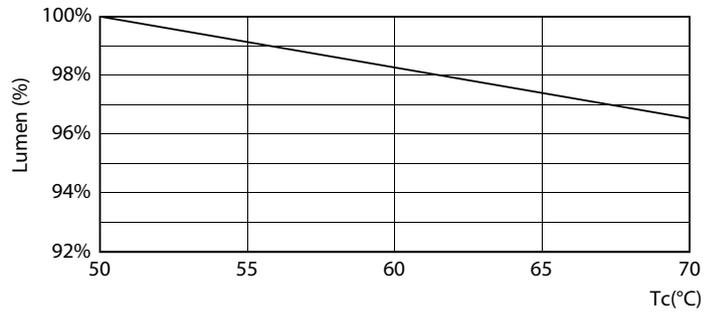
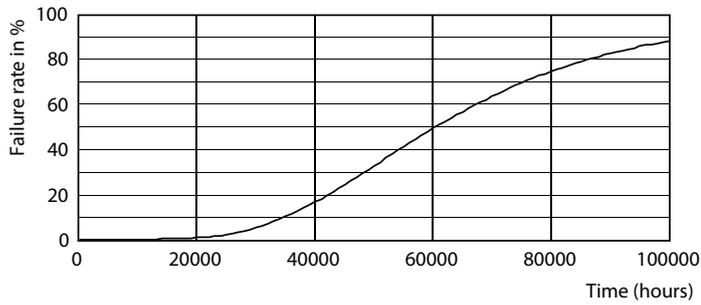
LEDtube 60K 5070 LifetimeVsTc-LED



Lumen Maintenance Diagram - MAS LEDtube HF 600mm HE 7W 840 T5

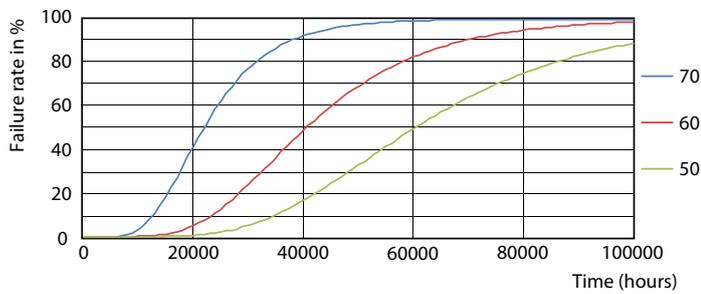
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Lifetime



Life Expectancy Diagram

Lumen Maintenance Diagram - MAS LEDtube HF 600mm HE 7W 840 T5



LEDtube 60K 5070 FailureRate-LED

