PHILIPS Lighting

MASTER LEDtube InstantFit HF T5

MAS LEDtube HF 600mm HO 10.5W 865 T5

The Philips MASTER LEDtube integrates a LED light source into a traditional fluorescent form factor. Its unique design creates a perfectly uniform visual appearance, which cannot be distinguished from traditional fluorescent. 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 application.

Product data

General Information	
Cap-Base	G5
Nominal lifetime	60,000 hour(s)
Switching Cycle	50,000
Lighting Technology	LED
Flux measurement reference	Sphere
Light Technical	
Color Code	865 [CCT of 6500K]
Beam Angle (Nom)	200 degree(s)
Luminous Flux	1,600 lm
Color Designation	Cool Daylight
Correlated Color Temperature (Nom)	6500 K
Luminous Efficacy (rated) (Nom)	152 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %

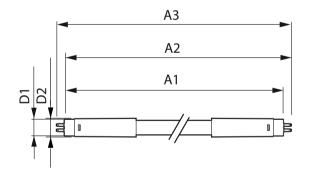
Photobiological safety according to EN 62471	RGO
Operating and Electrical	
Line Frequency	10K to 120K Hz
Input Frequency	10K to 120K Hz
Power Consumption	10.5 W
Lamp Current (Max)	350 mA
Lamp Current (Min)	80 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	30-120 V
Ballast Compatibility	HF
LED alternative to fluorescent lamp power	24 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 Compensation Capacitor.	



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Max. lamp no. on MCB B type 10A - EM ballast	-	Energy Saving Product	Yes	
with Compensation Capacitor.		Approval Marks	RoHS compliance KEMA Keur	
Max. lamp no. on MCB B type 16A - Mains			certificate	
Max. lamp no. on MCB B type 16A - EM ballast		Energy Consumption kWh/1000 h	11 kWh	
without Compensation Capacitor.		EPREL Registration Number	1407659	
Max. lamp no. on MCB B type 16A - EM ballast		CE mark	Yes	
with Compensation Capacitor.				
with compensation capacitor.		EU RoHS compliant	Yes	
		Ambient temperature range	-20 °C to 45 °C	
Temperature				
T-Case Maximum (Nom)	55 °C	Product Data		
		Order product name	MAS LEDtube HF 600mm HO 10.5V	
Controls and Dimming			865 T5	
Dimmable	Yes - Check ballast compatibility	Full product name	MAS LEDtube HF 600mm HO 10.5V	
			865 T5	
Mechanical and Housing		Full product code	872016916311900	
Bulb Finish	Frosted	Order code	929003596402	
Bulb Material	Glass	Material Nr. (12NC)	929003596402	
Product Length	600 mm	Numerator - Quantity Per Pack	1	
Bulb Shape	Т5	EAN/UPC - Product/Case	8720169163119	
Net Weight (Piece)	0.085 kg	Numerator - Packs per outer box	10	
		EAN/UPC - Case	8720169163126	
Approval and Application				
Energy Efficiency Class	D			

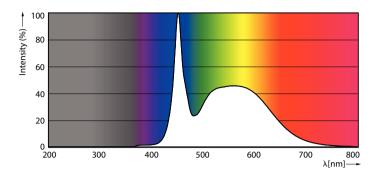
Dimensional drawing



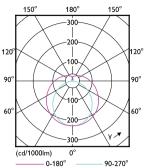
Product	D1	D2	A1	A2	A3
MAS LEDtube HF 600mm HO 10.5W	15.5 mm	16/19 mm	549 mm	556 mm	563 mm
865 T5					

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Photometric data



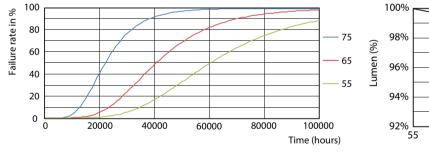
Spectral Power Distribution Colour - MAS LEDtube HF 600mm HO 10.5W 865 T5



Light Distribution Diagram - MAS LEDtube HF 600mm HO 10.5W 865 T5

	General Uniform Light
	1 x TLED 10.5W 6500K 9290035964
	1 c 1988 in
	Construction for the second se
Anna wa An Britania B Olara Malaka Marakati	

General uniform lighting - MAS LEDtube HF 600mm HO 10.5W 865 T5



FailureRate

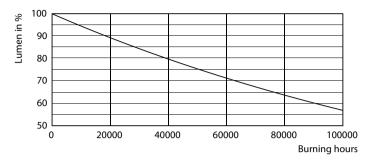
Lifetime

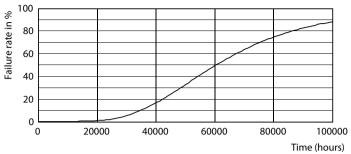
98% 96% 94% 92% 55 60 65 70 75 Tc(°C)

Lumen Maintenance Diagram - MAS LEDtube HF 600mm HO 10.5W 865 T5

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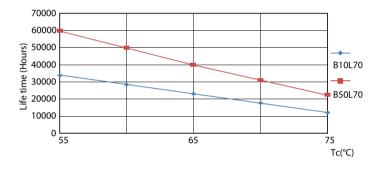
Lifetime





Lumen Maintenance Diagram - MAS LEDtube HF 600mm HO 10.5W 865 T5

Life Expectancy Diagram



LifetimeVsTc



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