# **PHILIPS** Lighting

# MASTER LEDtube InstantFit HF T5

# MAS LEDtube HF 600mm HO 10.5W 840 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	840 [CCT of 4000K]
Beam Angle (Nom)	200 degree(s)
Luminous Flux	1,600 lm
Color Designation	Cool White (CW)
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	152 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %

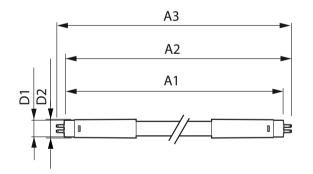
Photobiological safety according to EN 62471	RGO
Operating and Electrical	
Line Frequency	10K to 120K Hz
Input Frequency	10K to 120K Hz
Power Consumption	10.5 W
Lamp Current (Max)	350 mA
Lamp Current (Min)	80 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (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 ba	llast -	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 ba	llast -	Energy Consumption kWh/1000 h	11 kWh
without Compensation Capacitor.		EPREL Registration Number	1407658
Max. lamp no. on MCB B type 16A – EM ba	llast -	CE mark	Yes
with Compensation Capacitor.		EU RoHS compliant	Yes
		Ambient temperature range	-20 ℃ to 45 ℃
Temperature			
T-Case Maximum (Nom)	55 °C	Product Data	
		Order product name	MAS LEDtube HF 600mm HO 10.5V
Controls and Dimming			840 T5
Dimmable	Yes - Check ballast compatibility	Full product name	MAS LEDtube HF 600mm HO 10.5V
			840 T5
Mechanical and Housing		Full product code	872016916309600
Bulb Finish	Frosted	Order code	929003596302
Bulb Material	Glass	Material Nr. (12NC)	929003596302
Product Length	600 mm	Numerator - Quantity Per Pack	1
Bulb Shape	Т5	EAN/UPC - Product/Case	8720169163096
Net Weight (Piece)	0.085 kg	Numerator - Packs per outer box	10
		EAN/UPC - Case	8720169163102
Approval and Application			
Energy Efficiency Class	D	-	

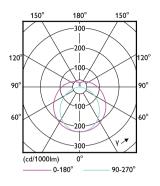
## Dimensional drawing



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
840 T5					

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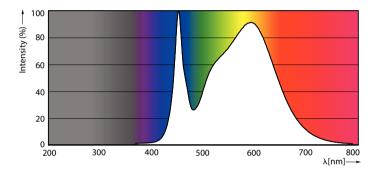
#### Photometric data



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		T a SAUGE
	Values for utility	
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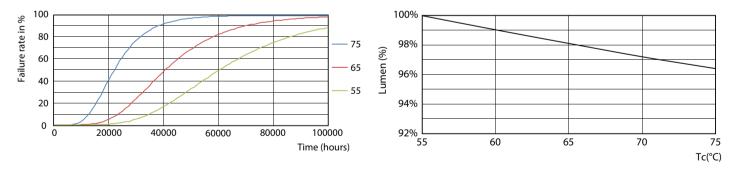
Light Distribution Diagram - MAS LEDtube HF 600mm HO 10.5W 840 T5

General uniform lighting - MAS LEDtube HF 600mm HO 10.5W 840 T5



Spectral Power Distribution Colour - MAS LEDtube HF 600mm HO 10.5W 840 T5

#### Lifetime

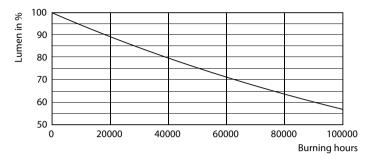


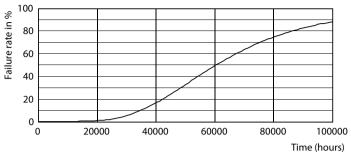
#### FailureRate

Lumen Maintenance Diagram - MAS LEDtube HF 600mm HO 10.5W 840 T5

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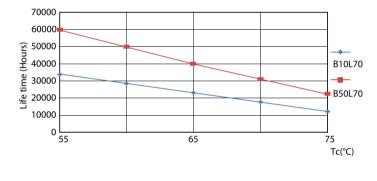
#### Lifetime





Lumen Maintenance Diagram - MAS LEDtube HF 600mm HO 10.5W 840 T5

Life Expectancy Diagram



LifetimeVsTc



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