# **PHILIPS** Lighting

# MASTER LEDtube InstantFit HF T5

## MAS LEDtube HF 900mm HO 18.5W 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	2,800 lm
Color Designation	Cool Daylight
Correlated Color Temperature (Nom)	6500 K
Luminous Efficacy (rated) (Nom)	151 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %

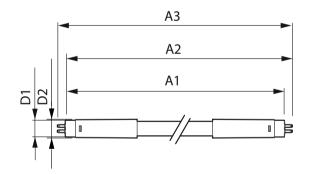
Photobiological safety according to EN 62471	RGO
Operating and Electrical	
Line Frequency	30K to 100K Hz
Input Frequency	30K to 100K Hz
Power Consumption	18.5 W
Lamp Current (Max)	350 mA
Lamp Current (Min)	120 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	60-100 V
Ballast Compatibility	HF
LED alternative to fluorescent lamp power	39 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.	



### **MASTER LEDtube InstantFit HF T5**

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	19 kWh
without Compensation Capacitor.		EPREL Registration Number	1407662
Max. lamp no. on MCB B type 16A – EM ballast	-	CE mark	Yes
with Compensation Capacitor.		EU RoHS compliant	Yes
		Ambient temperature range	-20 ℃ to 45 ℃
Temperature			
T-Case Maximum (Nom)	60 °C	Product Data	
		Order product name	MAS LEDtube HF 900mm HO 18.5V
Controls and Dimming			865 T5
Dimmable	Yes - Check ballast compatibility	Full product name	MAS LEDtube HF 900mm HO 18.5W
			865 T5
Mechanical and Housing		Full product code	872016916317100
Bulb Finish	Frosted	Order code	929003596702
Bulb Material	Glass	Material Nr. (12NC)	929003596702
Product Length	900 mm	Numerator - Quantity Per Pack	1
Bulb Shape	Т5	EAN/UPC - Product/Case	8720169163171
Net Weight (Piece)	0.115 kg	Numerator - Packs per outer box	10
		EAN/UPC - Case	8720169163188
Approval and Application			
Energy Efficiency Class	D		

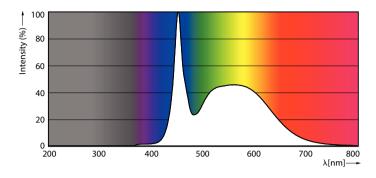
#### Dimensional drawing



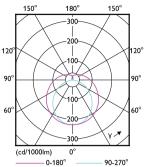
Product	D1	D2	A1	A2	A3
MAS LEDtube HF 900mm HO 18.5W	15.5 mm	16/19 mm	849 mm	856 mm	863 mm
865 T5					

#### MASTER LEDtube InstantFit HF T5

Photometric data



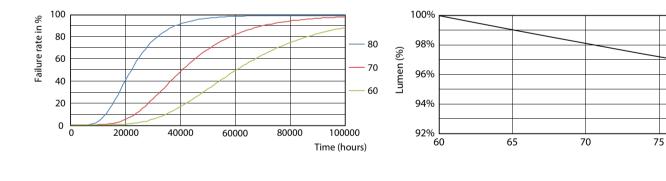
Spectral Power Distribution Colour - MAS LEDtube HF 900mm HO 18.5W 865 T5



Light Distribution Diagram - MAS LEDtube HF 900mm HO 18.5W 865 T5

	General Uniform Light
	1 a TLED IS.SW 6500K 9290035967
	1 x 2000 in
	Characteristics degree Constructions of the second
No. 10 Conception of the Conce	

General uniform lighting - MAS LEDtube HF 900mm HO 18.5W 865 T5



FailureRate

Lifetime

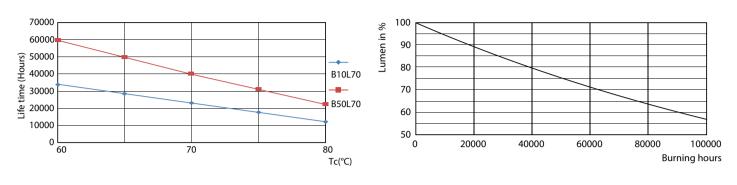
Lumen Maintenance Diagram - MAS LEDtube HF 900mm HO 18.5W 865 T5

80

Tc(°C)

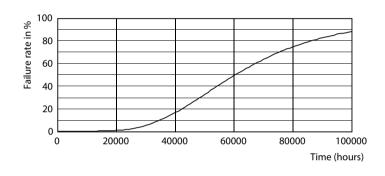
#### MASTER LEDtube InstantFit HF T5

Lifetime



#### LifetimeVsTc

Lumen Maintenance Diagram - MAS LEDtube HF 900mm HO 18.5W 865 T5



Life Expectancy Diagram



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