





MAS LEDtube HF 900mm HO 18.5W 830 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	830 [CCT of 3000K]		
Beam Angle (Nom)	200 degree(s)		
Luminous Flux	2,600 lm		
Color Designation	White (WH)		
Correlated Color Temperature (Nom)	3000 K		
Luminous Efficacy (rated) (Nom)	140 lm/W		
Color Consistency	<6		
Color rendering index (CRI)	80		
LLMF At End Of Nominal Lifetime (Nom)	70 %		

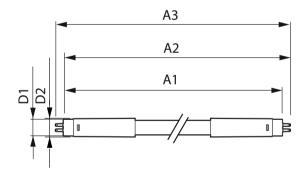
Photobiological safety according to EN 62471	RG0			
Operating and Electrical				
Line Frequency	30K to 100K Hz			
Input Frequency	30K to 100K Hz			
Power Consumption	18.5 W			
Lamp Current (Max)	350 mA			
Lamp Current (Min)	120 mA			
Starting Time (Nom)	0.5 s			
Warm-up time to 60% light	0.5 s			
Power 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.				

Datasheet, 2025, March 17 data subject to change

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)	60 ℃
Controls and Dimming	
Dimmable	Yes - Check ballast compatibility
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Material	Glass
Product Length	900 mm
Bulb Shape	T5
Net Weight (Piece)	0.115 kg
Approval and Application	
Energy Efficiency Class	E

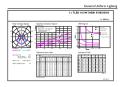
Energy Saving Product	Yes			
Approval Marks	RoHS compliance KEMA Keur			
	certificate			
Energy Consumption kWh/1000 h	19 kWh			
EPREL Registration Number	1407660			
CE mark	Yes			
EU RoHS compliant	Yes			
Ambient temperature range	-20 °C to 45 °C			
Product Data				
Order product name	MAS LEDtube HF 900mm HO 18.5W			
	830 T5			
Full product name	MAS LEDtube HF 900mm HO 18.5W			
	830 T5			
Full product code	872016916313300			
Order code	929003596502			
Material Nr. (12NC)	929003596502			
Numerator - Quantity Per Pack	1			
EAN/UPC - Product/Case	8720169163133			
Numerator - Packs per outer box	10			
EAN/UPC - Case	8720169163140			

Dimensional drawing



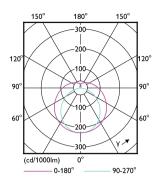
Product	D1	D2	A1	A2	А3
MAS LEDtube HF 900mm HO 18.5W	15.5 mm	16/19 mm	849 mm	856 mm	863 mm
830 T5					

Photometric data

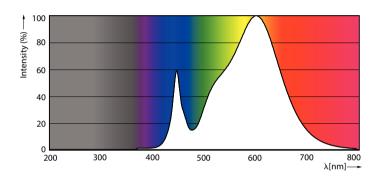


Calculus Photometrics 4.5 Philips Lighting B.V. Pages

General uniform lighting - MAS LEDtube HF 900mm HO 18.5W 830 T5

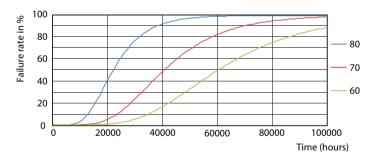


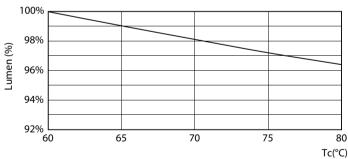
Light Distribution Diagram - MAS LEDtube HF 900mm HO 18.5W 830 T5



Spectral Power Distribution Colour - MAS LEDtube HF 900mm HO 18.5W 830 T5

Lifetime

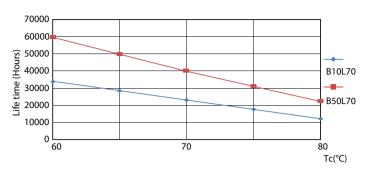


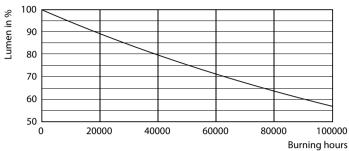


FailureRate

Lumen Maintenance Diagram - MAS LEDtube HF 900mm HO 18.5W 830 T5

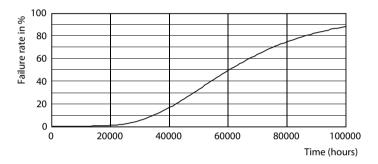
Lifetime





LifetimeVsTc

Lumen Maintenance Diagram - MAS LEDtube HF 900mm HO 18.5W 830 T5



Life Expectancy Diagram



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