PHILIPS Lighting

MASTER LEDtube InstantFit HF T5

MAS LEDtube HF 900mm HE 11.5W 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	1,700 lm
Color Designation	Cool Daylight
Correlated Color Temperature (Nom)	6500 K
Luminous Efficacy (rated) (Nom)	147 lm/W
Color Consistency	<6
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime (Nom)	70 %

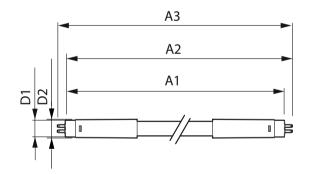
Photobiological safety according to EN 62471	RGO
Operating and Electrical	
Line Frequency	30K to 100K Hz
Input Frequency	30K to 100K Hz
Power Consumption	11.5 W
Lamp Current (Max)	420 mA
Lamp Current (Min)	130 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	60-100 V
Ballast Compatibility	HF
LED alternative to fluorescent lamp power	21 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	12 kWh	
without Compensation Capacitor.		EPREL Registration Number	1407665	
Max. lamp no. on MCB B type 16A – EM ballast	-	CE mark	Yes	
with Compensation Capacitor.		EU RoHS compliant	Yes	
		Ambient temperature range	-20 °C to 45 °C	
Temperature				
T-Case Maximum (Nom)	55 ℃	Product Data		
		Order product name	MAS LEDtube HF 900mm HE 11.5W	
Controls and Dimming			865 T5	
Dimmable	Yes - Check ballast compatibility	Full product name	MAS LEDtube HF 900mm HE 11.5W	
			865 T5	
Mechanical and Housing		Full product code	872016916323200	
Bulb Finish	Frosted	Order code	929003597002	
Bulb Material	Glass	Material Nr. (12NC)	929003597002	
Product Length	900 mm	Numerator - Quantity Per Pack	1	
Bulb Shape	Т5	EAN/UPC - Product/Case	8720169163232	
Net Weight (Piece)	0.115 kg	Numerator - Packs per outer box	10	
		EAN/UPC - Case	8720169163249	
Approval and Application				
Energy Efficiency Class	D	-		

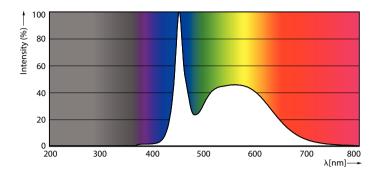
Dimensional drawing



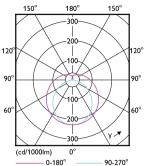
Product	D1	D2	A1	A2	A3
MAS LEDtube HF 900mm HE 11.5W	15.5 mm	16/19 mm	849 mm	856 mm	863 mm
865 T5					

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Photometric data



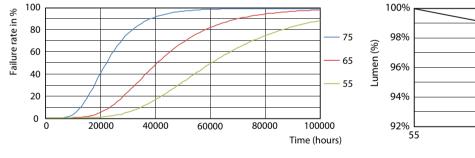
Spectral Power Distribution Colour - MAS LEDtube HF 900mm HE 11.5W 865 T5



Light Distribution Diagram - MAS LEDtube HF 900mm HE 11.5W 865 T5

	General Uniform Light
	1 x TLED 11.5W 6508K 9290835970
	1 x 578 in
	Construction days Construction
Anna wa An Britania B Grant B	

General uniform lighting - MAS LEDtube HF 900mm HE 11.5W 865 T5



FailureRate

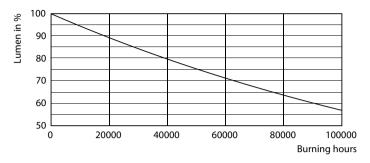
Lifetime

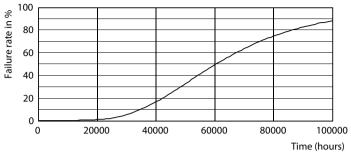
98% 96% 94% 92% 55 60 65 70 75 Tc(°C)

Lumen Maintenance Diagram - MAS LEDtube HF 900mm HE 11.5W 865 T5

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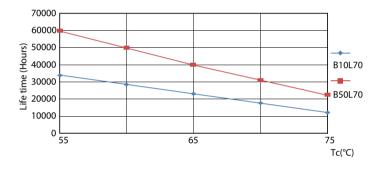
Lifetime





Lumen Maintenance Diagram - MAS LEDtube HF 900mm HE 11.5W 865 T5

Life Expectancy Diagram



LifetimeVsTc



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