PHILIPS

# Lighting

**PHILIPS** 

# MASTER LEDtube InstantFit HF T8

# MAS LEDtube HF 1200mm UO 16W865 T8

Philips MASTER LEDtube InstantFit T8 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. Philips MASTER LEDtube InstantFit T8 is the ideal solution for customers who have higher light requirements and want to maximize value over lifetime. Full energy savings & longer lifetime result in attractive payback times and TCO benefits.

#### Warnings and Safety

• NOTES: The overall energy efficiency and light distribution of any installation that uses these lamps are determined by the design of the installation.

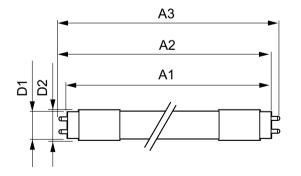
#### **Product data**

General Information		Color rendering index (CRI)	80
Cap-Base	G13 ROT	LLMF At End Of Nominal Lifetime (Nom)	70 %
Nominal lifetime	75,000 hour(s)	Photobiological safety according to EN 62471	RGO
Switching Cycle	50,000		
Lighting Technology	LED	Operating and Electrical	
Flux measurement reference	Sphere	Line Frequency	20000-75000 Hz
		Input Frequency	20000-75000 Hz
Light Technical		Power Consumption	16 W
Color Code	865 [CCT of 6500K]	Lamp Current (Max)	750 mA
Beam Angle (Nom)	160 degree(s)	Lamp Current (Min)	300 mA
Luminous Flux	2,500 lm	Starting Time (Nom)	0.5 s
Color Designation	Cool Daylight	Warm-up time to 60% light	0.5 s
Correlated Color Temperature (Nom)	6500 K	Power Factor (Fraction)	0.9
Luminous Efficacy (rated) (Nom)	156 lm/W	Voltage (Nom)	30-80 V
Color Consistency	<6	Ballast Compatibility	HF

# MASTER LEDtube InstantFit HF T8

D alternative to fluorescent lamp power 36 W		Energy Saving Product	Yes	
nrush current at mains -		Approval Marks	RoHS compliance CE marking	
Max. lamp no. on MCB B type 10A - Mains	-		KEMA Keur certificate ENEC	
Max. lamp no. on MCB B type 10A – EM balla	st -		certificate	
without Compensation Capacitor.		Energy Consumption kWh/1000 h	16 kWh	
Max. lamp no. on MCB B type 10A – EM balla	st -	EPREL Registration Number 1165507		
with Compensation Capacitor.		CE mark	Yes	
Max. lamp no. on MCB B type 16A - Mains	-	EU RoHS compliant	Yes	
Max. lamp no. on MCB B type 16A – EM balla	st -	Flickering value (PstLM) - Flickering value as per 0.5		
without Compensation Capacitor.		EN 61000-3-3		
Max. lamp no. on MCB B type 16A – EM ballast -		Stroboscopic effect visibility measure (SVM)	0.2	
with Compensation Capacitor.		Ambient temperature range	-20 °C to 45 °C	
Temperature		Product Data		
T-Case Maximum (Nom)	55 °C	Order product name	MAS LEDtube HF 1200mm UC	
			16W865 T8	
Controls and Dimming		Full product name	MAS LEDtube HF 1200mm UC	
Dimmable	Yes - Check ballast compatibility		16W865 T8	
		Full product code	871951446698200	
Mechanical and Housing		Order code	929003554202	
Bulb Finish	Frosted	Material Nr. (12NC)	929003554202	
Bulb Material	Plastic	Numerator - Quantity Per Pack	1	
Product Length	1,200 mm	EAN/UPC - Product/Case	8719514466982	
Bulb Shape	Т8	Numerator - Packs per outer box	20	
		EAN/UPC - Case	8719514466999	

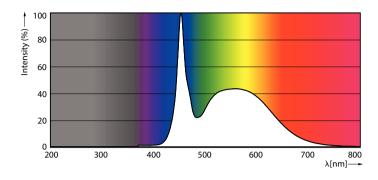
#### Dimensional drawing



Product	D1	D2	A1	A2	A3
MAS LEDtube HF 1200mm UO	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
16W865 T8					

## MASTER LEDtube InstantFit HF T8

Photometric data

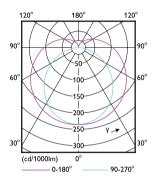


Spectral Power Distribution Colour - MAS LEDtube HF 1200mm UO 16W865

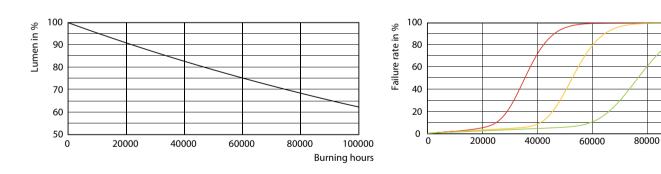
	General Uniform Light
	1 x 2000 in
	Open law of law View   Image: A part of law Image: A part of law   Image: A part of law Image: A part of law   Image: A part of law Image: A part of law   Image: A part of law Image: A part of law   Image: A part of law Image: A part of law   Image: A part of law Image: A part of law   Image: A part of law Image: A part of law   Image: A part of law Image: A part of law   Image: A part of law Image: A part of law   Image: A part of law Image: A part of law   Image: A part of law Image: A part of law
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General uniform lighting - MAS LEDtube HF 1200mm UO 16W865 T8



Light Distribution Diagram - MAS LEDtube HF 1200mm UO 16W865 T8



Lifetime

т8

Lumen Maintenance Diagram - MAS LEDtube HF 1200mm UO 16W865 T8

LEDtube-75K-5575-FailureRate-LED

75

65

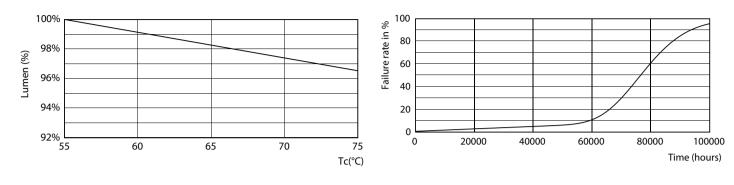
55

100000

Time (hours)

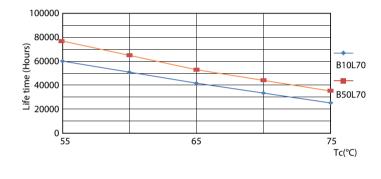
### **MASTER LEDtube InstantFit HF T8**

Lifetime



#### Lumen Maintenance Diagram - MAS LEDtube HF 1200mm UO 16W865 T8

Life Expectancy Diagram



LifetimeVsTc



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