PHILIPS

# Lighting

**PHILIPS** 

# MASTER LEDtube InstantFit HF T8

# MAS LEDtube HF 1200mm HO 14W840 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.

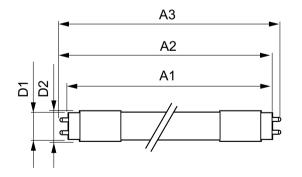
#### **Product data**

eneral Information		Color rendering index (CRI)	80		
ap-Base	G13 ROT	LLMF At End Of Nominal Lifetime (Nom)	70 %		
Nominal lifetime	75,000 hour(s)	Photobiological safety according to EN 62471	RG0		
Switching Cycle	50,000				
Lighting Technology	LED	Operating and Electrical			
Flux measurement reference	surement reference Sphere Line Frequency		20000-75000 Hz		
		Input Frequency	20000-75000 Hz		
Light Technical		Power Consumption	14 W		
Color Code	840 [CCT of 4000K]	Lamp Current (Max)	750 mA		
Beam Angle (Nom)	160 degree(s)	Lamp Current (Min)	300 mA		
Luminous Flux	2,100 lm	Starting Time (Nom)	0.5 s		
Color Designation	Cool White (CW)	Warm-up time to 60% light	0.5 s		
Correlated Color Temperature (Nom)	4000 K	Power Factor (Fraction)	0.9		
Luminous Efficacy (rated) (Nom)	150 lm/W	Voltage (Nom)	30-80 V		
Color Consistency	<6	Ballast Compatibility	HF		

## MASTER LEDtube InstantFit HF T8

LED alternative to fluorescent lamp power	36 W	Energy Saving Product	Yes	
Inrush current at mains	-	Approval Marks	RoHS compliance CE marking KEMA	
Max. lamp no. on MCB B type 10A - Mains	-		Keur certificate ENEC certificate	
Max. lamp no. on MCB B type 10A – EM ballast	-	Energy Consumption kWh/1000 h 14 kWh		
without Compensation Capacitor.		EPREL Registration Number	1165509	
Max. lamp no. on MCB B type 10A - EM ballast	-	CE mark	Yes	
with Compensation Capacitor.		EU RoHS compliant	Yes	
Max. lamp no. on MCB B type 16A - Mains	-	Flickering value (PstLM) - Flickering value as per	0.5	
Max. lamp no. on MCB B type 16A – EM ballast	-	EN 61000-3-3		
without Compensation Capacitor.		Stroboscopic effect visibility measure (SVM) 0.2		
Max. lamp no. on MCB B type 16A – EM ballast	_	Ambient temperature range	-20 °C to 45 °C	
with Compensation Capacitor.				
		Product Data		
Temperature		Order product name	MAS LEDtube HF 1200mm HO	
T-Case Maximum (Nom)	55 °C		14W840 T8	
		Full product name	MAS LEDtube HF 1200mm HO	
Controls and Dimming			14W840 T8	
Dimmable	Yes - Check ballast compatibility	Full product code	871951446684500	
		Order code	929003553502	
Mechanical and Housing		Material Nr. (12NC)	929003553502	
Bulb Finish	Frosted	Numerator - Quantity Per Pack	1	
Bulb Material	Plastic	EAN/UPC - Product/Case	8719514466845	
Product Length	1,200 mm	Numerator - Packs per outer box	20	
Bulb Shape	Т8	EAN/UPC - Case	8719514466852	
Net Weight (Piece)	0.230 kg			
Approval and Application				
Energy Efficiency Class				

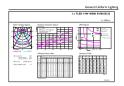
#### Dimensional drawing

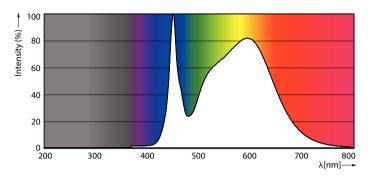


Product	D1	D2	A1	A2	A3
MAS LEDtube HF 1200mm HO	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
14W840 T8					

### MASTER LEDtube InstantFit HF T8

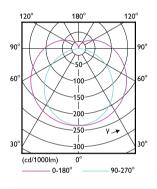
#### Photometric data





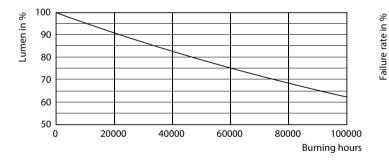
General uniform lighting - MAS LEDtube HF 1200mm HO 14W840 T8

Spectral Power Distribution Colour - MAS LEDtube HF 1200mm HO 14W840 T8



Light Distribution Diagram - MAS LEDtube HF 1200mm HO 14W840 T8

#### Lifetime



Lumen Maintenance Diagram - MAS LEDtube HF 1200mm HO 14W840 T8

20 0 20000 40000 60000 80000 100000 Time (hours)

LEDtube-75K-5575-FailureRate-LED

100

80

60

40

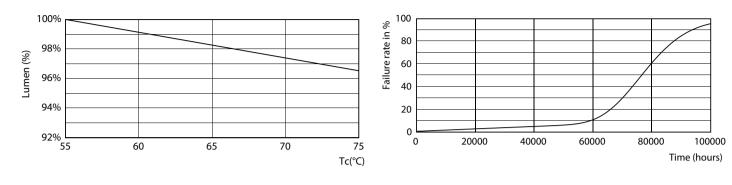
75

65

55

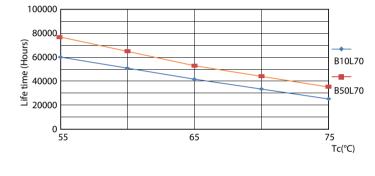
#### **MASTER LEDtube InstantFit HF T8**

Lifetime



Lumen Maintenance Diagram - MAS LEDtube HF 1200mm HO 14W840 T8

Life Expectancy Diagram



LifetimeVsTc



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