



# The new generation of energy saving tube lighting

# MASTER LEDtube InstantFit HF T8

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. This product is the ideal solution for up lamping in general lighting applications.

#### **Benefits**

- · Reduced operational cost thanks to lower energy consumption
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- Lower maintenance cost thanks to 2-3 times longer lifetime than normal fluorescent tubes
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- Fastest and easiest way to upgrade existing luminaire to LED technology; 100%– safe installation process
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#### **Features**

- $\cdot$  Only 50% energy consumption compared to fluorescent tubes
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- Extra-long life of 50,000 hours
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- Retrofit to existing T8 lamps on HF ballast installations
- · Retrofit to existing T8 lamps on EM ballast installations
- · No mercury
- Full safety features and EM Protector safety device
- · No mercury

# **MASTER LEDtube InstantFit HF T8**

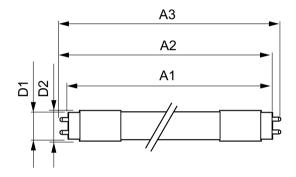
### **Application**

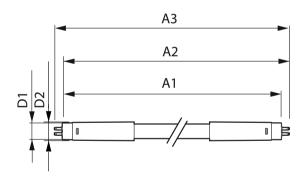
- · Parking lots / covered car parks
- Parking lots / covered car parks
- Warehouses / coldrooms / signage
- · Warehouses / coldrooms / signage
- · Transport and distribution areas
- · Transport and distribution areas

# **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.

### Dimensional drawing





Product	D1	D2	A1	A2	А3
MAS LEDtube HF 1200mm HO	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
14W840 T8					
MAS LEDtube HF 1200mm HO	25.8 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm
14W865 T8					
MAS LEDtube HF 1500mm HO	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
20W840 T8					
MAS LEDtube HF 1500mm HO	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
20W865 T8					
MAS LEDtube HF 1500mm UO	25.8 mm	28 mm	1,498.8 mm	1,505.9 mm	1,513 mm
24W840 T8					

Product	D1	D2	A1	A2	А3
MAS LEDtube HF 600mm HO	25.8 mm	28 mm	588.6 mm	595.7 mm	602.8 mm
8W840 T8					
MAS LEDtube HF 600mm HO	25.8 mm	28 mm	588.6 mm	595.7 mm	602.8 mm
8W865 T8					

# **MASTER LEDtube InstantFit HF T8**

General Information	
Cap-Base	G13 ROT
Switching Cycle	50,000
Nominal lifetime	75,000 hour(s)
Light Technical	
Beam Angle (Nom)	160 degree(s)
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime	70 %
(Nom)	
Operating and Electrical	
Starting Time (Nom)	0.5 s
Temperature	
T-Case Maximum (Nom)	55 °C
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Shape	Т8
Approval and Application	
Ambient temperature range	-20 °C to 45 °C

# Light Technical

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		Correlated Color	Color	
Order Code	Full Product Name	Temperature (Nom)	Code	Luminous Flux
929003553502	MAS LEDtube HF 1200mm HO 14W840	4000 K	840	2,100 lm
	Т8			
929003553602	MAS LEDtube HF 1200mm HO 14W865	6500 K	865	2,100 lm
	Т8			
929003553802	MAS LEDtube HF 1500mm HO 20W840	4000 K	840	3,100 lm
	Т8			
929003553902	MAS LEDtube HF 1500mm HO 20W865	6500 K	865	3,100 lm
	Т8			
929003554402	MAS LEDtube HF 1500mm UO 24W840	4000 K	840	3,700 lm
	Т8			
929001393232	MAS LEDtube HF 600mm HO 8W840	4000 K	840	1,050 lm
	Т8			
929001393332	MAS LEDtube HF 600mm HO 8W865	6500 K	865	1,050 lm
	Т8			

## Operating and Electrical

Operating an	Operating and Electrical				
	Full Product			Power	
Order Code	Name	Input Frequency	Line Frequency	Consumption	
929003553502	MAS LEDtube	20000-75000 Hz	20000-75000 Hz	14 W	
	HF 1200mm				
	HO 14W840 T8				
929003553602	MAS LEDtube	20000-75000 Hz	20000-75000 Hz	14 W	
	HF 1200mm				
	HO 14W865 T8				
929003553802	MAS LEDtube	20000-75000 Hz	20000-75000 Hz	20 W	
	HF 1500mm				
	HO 20W840				
	T8				
929003553902	MAS LEDtube	20000-75000 Hz	20000-75000 Hz	20 W	
	HF 1500mm				
	HO 20W865 T8				

	Full Product			Power
Order Code	Name	Input Frequency	Line Frequency	Consumption
929003554402	MAS LEDtube	20000-75000 Hz	20000-75000 Hz	24 W
	HF 1500mm			
	UO 24W840 T8			
929001393232	MAS LEDtube	20000-120000	20000-120000	8 W
	HF 600mm HO	Hz	Hz	
	8W840 T8			
929001393332	MAS LEDtube	20000-120000	20000-120000	8 W
	HF 600mm HO	Hz	Hz	
	8W865 T8			

### **Controls and Dimming**

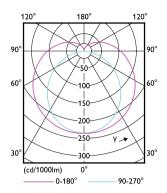
Order Code	Full Product Name	Dimmable
929003553502	MAS LEDtube HF 1200mm HO 14W840	Yes - Check ballast
	Т8	compatibility
929003553602	MAS LEDtube HF 1200mm HO 14W865	Yes - Check ballast
	Т8	compatibility
929003553802	MAS LEDtube HF 1500mm HO 20W840	Yes - Check ballast
	Т8	compatibility
929003553902	MAS LEDtube HF 1500mm HO 20W865	Yes - Check ballast
	Т8	compatibility

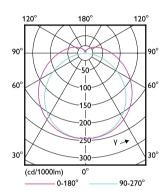
Order Code	Full Product Name	Dimmable
929003554402	MAS LEDtube HF 1500mm UO 24W840	Yes - Check ballast
	Т8	compatibility
929001393232	MAS LEDtube HF 600mm HO 8W840	No
	Т8	
929001393332	MAS LEDtube HF 600mm HO 8W865	No
	Т8	

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

#### Approval and Application

		<b>Energy Consumption</b>
Order Code	Full Product Name	kWh/1000 h
929003553502	MAS LEDtube HF 1200mm HO 14W840 T8	14 kWh
929003553602	MAS LEDtube HF 1200mm HO 14W865 T8	14 kWh
929003553802	MAS LEDtube HF 1500mm HO 20W840 T8	20 kWh
929003553902	MAS LEDtube HF 1500mm HO 20W865 T8	20 kWh
929003554402	MAS LEDtube HF 1500mm UO 24W840 T8	24 kWh
929001393232	MAS LEDtube HF 600mm HO 8W840 T8	8 kWh
929001393332	MAS LEDtube HF 600mm HO 8W865 T8	8 kWh







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