



# The new generation of energy saving tube lighting

## MASTER LEDtube InstantFit HF

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 lighting in general lighting applications.

### Benefits

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

### Features

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

### Application

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

### Warnings and Safety

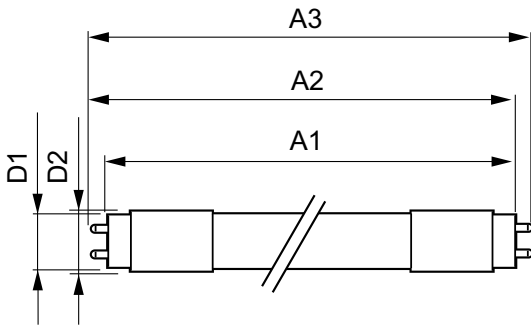
- NOTES: The overall energy efficiency and light distribution of any installation that uses these lamps are determined by the design of the installation.

# MASTER LEDtube InstantFit HF

## Versions



## Dimensional drawing



Product	D1	D2	A1	A2	A3
MASTER LEDtube HF 1500mm HO 20W840 T8	25.6 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 mm
MASTER LEDtube HF 1200mm UO 16W840 T8	25.6 mm	28 mm	1198.1 mm	1205.2 mm	1212.3 mm
MASTER LEDtube HF 1200mm HO 14W840 T8	25.6 mm	28 mm	1198.1 mm	1205.2 mm	1212.3 mm
MASTER LEDtube HF 1500mm UO 24W840 T8	25.6 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 mm

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## Approval and Application

Energy Efficiency Label (EEL) A++

## Controls and Dimming

Dimmable No

## Operating and Electrical

Input Frequency 20000-75000 Hz

Voltage (Nom) 30-80 V

Starting Time (Nom) 0.5 s

## General Information

Cap-Base G13 ROT  
(Rotating)

Nominal Lifetime (Nom) 60000 h

Switching Cycle 50,000X

## Light Technical

Beam Angle (Nom) 160 °

Colour Code 840

Correlated Colour Temperature (Nom) 4000 K

Colour Rendering Index (Nom) 83

Llmf At End Of Nominal Lifetime (Nom) 70 %

## Mechanical and Housing

Bulb Shape Tube, double-ended

## Temperature

T-Ambient (Max) 45 °C

T-Ambient (Min) -20 °C

T-Case Maximum (Nom) 55 °C

T-Storage (Max) 65 °C

T-Storage (Min) -40 °C

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
68748200	MASTER LEDtube HF 1200mm HO 14W840 T8	17 kWh
68754300	MASTER LEDtube HF 1500mm HO 20W840 T8	24 kWh
68796300	MASTER LEDtube HF 1200mm UO 16W840 T8	20 kWh
68802100	MASTER LEDtube HF 1500mm UO 24W840 T8	29 kWh

## Operating and Electrical

Order Code	Full Product Name	Power (Rated) (Nom)
68748200	MASTER LEDtube HF 1200mm HO 14W840 T8	14 W
68754300	MASTER LEDtube HF 1500mm HO 20W840 T8	20 W

Order Code	Full Product Name	Power (Rated) (Nom)
68796300	MASTER LEDtube HF 1200mm UO 16W840 T8	16 W
68802100	MASTER LEDtube HF 1500mm UO 24W840 T8	24 W

## Light Technical

Order Code	Full Product Name	Luminous Flux (Nom)
68748200	MASTER LEDtube HF 1200mm HO 14W840 T8	2100 lm
68754300	MASTER LEDtube HF 1500mm HO 20W840 T8	3100 lm
68796300	MASTER LEDtube HF 1200mm UO 16W840 T8	2500 lm
68802100	MASTER LEDtube HF 1500mm UO 24W840 T8	3700 lm

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