



# The new generation of energy saving T8 tube lighting

## MASTER LEDtube InstantFit HF 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.

### 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, with a 100%- safe installation process

### Features

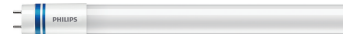
- HF compatibility: no wires to replace, no hassle changing drivers; our InstantFit solution works with High Frequency electronic ballasts, making it easy and safe for all installation methods
- Electronic Pin safety: with Philips products you can safely touch the other end-cap when installing the tube. The integrated driver is also safely isolated from touchable parts. Philips LED tubes adhere to all UL and IEC pin safety requirements
- Rotating end-caps: in many applications the pin fitting needs to be rotating. This can be a problem as LED tubes only provide directional light. Our T8 MASTER LEDtubes have rotating end-caps to allow you to rotate the tube by up to 90 degrees

# MASTER LEDtube InstantFit HF T8

## Application

- The ideal solution for very demanding applications with the highest lumen output requirements while saving on energy bills: office, school, retail & industry, healthcare applications

## Versions



G13

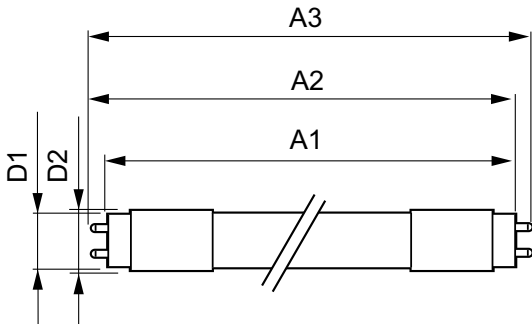
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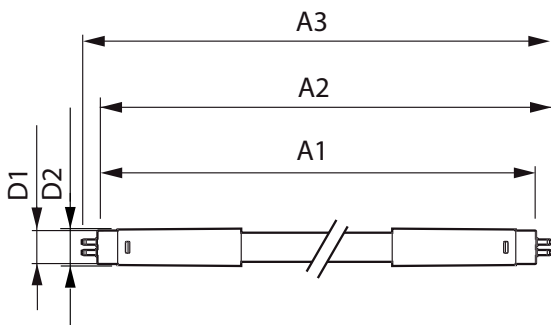
LEDtube G13

# MASTER LEDtube InstantFit HF T8

## Dimensional drawing



Product	D1	D2	A1	A2	A3
MASTER LEDtube HF 1050mm UO 17W840 T8	27.9 mm	28 mm	1047 mm	1052.9 mm	1061.2 mm
MASTER LEDtube HF 1200mm HO 14W830 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
MASTER LEDtube HF 1200mm UO 16W830 T8	25.6 mm	28 mm	1198.1 mm	1205.2 mm	1212.3 mm
MASTER LEDtube HF 1500mm HO 20W830 T8	25.6 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 mm
MASTER LEDtube HF 1500mm UO 24W865 T8	25.6 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 mm
MASTER LEDtube HF 1500mm UO 24W830 T8	25.6 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 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 1200mm UO 16W865 T8	25.6 mm	28 mm	1198.1 mm	1205.2 mm	1212.3 mm
MASTER LEDtube HF 1500mm HO 20W865 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 1500mm HO 20W840 T8	25.6 mm	28 mm	1498.7 mm	1505.8 mm	1512.9 mm
MASTER LEDtube HF 1200mm HO 14W865 T8	25.6 mm	28 mm	1198.1 mm	1205.2 mm	1212.3 mm
MASTER LEDtube HF 1200mm 16.5W833 T8	25.7 mm	28 mm	1198.0 mm	1205.0 mm	1212.0 mm
FOOD					



Product	D1	D2	A1	A2	A3
MASTER LEDtube HF 600mm HO 8W840 T8	25.6 mm	28 mm	588.6 mm	595.7 mm	602.8 mm
MASTER LEDtube HF 600mm HO 8W865 T8	25.6 mm	28 mm	588.6 mm	595.7 mm	602.8 mm
MASTER LEDtube HF 600mm HO 8W830 T8	25.6 mm	28 mm	588.6 mm	595.7 mm	602.8 mm

# MASTER LEDtube InstantFit HF T8

## Operating and Electrical

Starting Time (Nom) 0.5 s

## General Information

Cap-Base G13

Switching Cycle 50000X

## Light Technical

Beam Angle (Nom) 160 °

Llmf At End Of Nominal Lifetime (Nom) 70 %

Rated Beam Angle 160 °

## Temperature

T-Ambient (Min) -20 °C

T-Storage (Max) 65 °C

T-Storage (Min) -40 °C

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
929001226302	MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD	21 kWh	B
929001284102	MASTER LEDtube HF 1200mm HO 14W840 T8	17 kWh	A++
929001284202	MASTER LEDtube HF 1200mm HO 14W865 T8	17 kWh	A++
929001284302	MASTER LEDtube HF 1200mm HO 14W830 T8	17 kWh	A+
929001284402	MASTER LEDtube HF 1500mm HO 20W840 T8	24 kWh	A++
929001284502	MASTER LEDtube HF 1500mm HO 20W865 T8	24 kWh	A++
929001284602	MASTER LEDtube HF 1500mm HO 20W830 T8	24 kWh	A+
929001300002	MASTER LEDtube HF 1200mm UO 16W840 T8	20 kWh	A++
929001300102	MASTER LEDtube HF 1200mm UO 16W865 T8	20 kWh	A++
929001300202	MASTER LEDtube HF 1200mm UO 16W830 T8	20 kWh	A+
929001300302	MASTER LEDtube HF 1500mm UO 24W840 T8	29 kWh	A++
929001300402	MASTER LEDtube HF 1500mm UO 24W865 T8	29 kWh	A++
929001300502	MASTER LEDtube HF 1500mm UO 24W830 T8	29 kWh	A++
929001393102	MASTER LEDtube HF 600mm HO 8W830 T8	10 kWh	A+
929001393202	MASTER LEDtube HF 600mm HO 8W840 T8	10 kWh	A+
929001393302	MASTER LEDtube HF 600mm HO 8W865 T8	10 kWh	A+
929001834302	MASTER LEDtube HF 1050mm UO 17W840 T8	21 kWh	A++

## Controls and Dimming

Order Code	Full Product Name	Dimmable	Order Code	Full Product Name	Dimmable
929001226302	MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD	No	929001300202	MASTER LEDtube HF 1200mm UO 16W830 T8	Yes
929001284102	MASTER LEDtube HF 1200mm HO 14W840 T8	Yes	929001300302	MASTER LEDtube HF 1500mm UO 24W840 T8	Yes
929001284202	MASTER LEDtube HF 1200mm HO 14W865 T8	Yes	929001300402	MASTER LEDtube HF 1500mm UO 24W865 T8	Yes
929001284302	MASTER LEDtube HF 1200mm HO 14W830 T8	Yes	929001300502	MASTER LEDtube HF 1500mm UO 24W830 T8	Yes
929001284402	MASTER LEDtube HF 1500mm HO 20W840 T8	Yes	929001393102	MASTER LEDtube HF 600mm HO 8W830 T8	No
929001284502	MASTER LEDtube HF 1500mm HO 20W865 T8	Yes	929001393202	MASTER LEDtube HF 600mm HO 8W840 T8	No
929001284602	MASTER LEDtube HF 1500mm HO 20W830 T8	Yes	929001393302	MASTER LEDtube HF 600mm HO 8W865 T8	No
929001300002	MASTER LEDtube HF 1200mm UO 16W840 T8	Yes	929001834302	MASTER LEDtube HF 1050mm UO 17W840 T8	No
929001300102	MASTER LEDtube HF 1200mm UO 16W865 T8	Yes			

## Operating and Electrical

## MASTER LEDtube InstantFit HF T8

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)
929001226302	MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD	25000-75000 Hz	50-100 V	16.5 W
929001284102	MASTER LEDtube HF 1200mm HO 14W840 T8	20000-75000 Hz	30-80 V	14 W
929001284202	MASTER LEDtube HF 1200mm HO 14W865 T8	20000-75000 Hz	30-80 V	14 W
929001284302	MASTER LEDtube HF 1200mm HO 14W830 T8	20000-75000 Hz	30-80 V	14 W
929001284402	MASTER LEDtube HF 1500mm HO 20W840 T8	20000-75000 Hz	30-80 V	20 W
929001284502	MASTER LEDtube HF 1500mm HO 20W865 T8	20000-75000 Hz	30-80 V	20 W
929001284602	MASTER LEDtube HF 1500mm HO 20W830 T8	20000-75000 Hz	30-80 V	20 W
929001300002	MASTER LEDtube HF 1200mm UO 16W840 T8	20000-75000 Hz	30-80 V	16 W
929001300102	MASTER LEDtube HF 1200mm UO 16W865 T8	20000-75000 Hz	30-80 V	16 W

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)
929001300202	MASTER LEDtube HF 1200mm UO 16W830 T8	20000-75000 Hz	30-80 V	16 W
929001300302	MASTER LEDtube HF 1500mm UO 24W840 T8	20000-75000 Hz	30-80 V	24 W
929001300402	MASTER LEDtube HF 1500mm UO 24W865 T8	20000-75000 Hz	30-80 V	24 W
929001300502	MASTER LEDtube HF 1500mm UO 24W830 T8	20000-75000 Hz	30-80 V	24 W
929001393102	MASTER LEDtube HF 600mm HO 8W830 T8	20000-80000 Hz	20-50 V	8 W
929001393202	MASTER LEDtube HF 600mm HO 8W840 T8	20000-80000 Hz	20-50 V	8 W
929001393302	MASTER LEDtube HF 600mm HO 8W865 T8	20000-80000 Hz	20-50 V	8 W
929001834302	MASTER LEDtube HF 1050mm UO 17W840 T8	20000-50000 Hz	30-80 V	17 W

### General Information

Order Code	Full Product Name	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
929001226302	MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD	50000 h	50000 h
929001284102	MASTER LEDtube HF 1200mm HO 14W840 T8	60000 h	60000 h
929001284202	MASTER LEDtube HF 1200mm HO 14W865 T8	60000 h	60000 h
929001284302	MASTER LEDtube HF 1200mm HO 14W830 T8	60000 h	60000 h
929001284402	MASTER LEDtube HF 1500mm HO 20W840 T8	60000 h	60000 h
929001284502	MASTER LEDtube HF 1500mm HO 20W865 T8	60000 h	60000 h
929001284602	MASTER LEDtube HF 1500mm HO 20W830 T8	60000 h	60000 h
929001300002	MASTER LEDtube HF 1200mm UO 16W840 T8	60000 h	60000 h
929001300102	MASTER LEDtube HF 1200mm UO 16W865 T8	60000 h	60000 h

Order Code	Full Product Name	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
929001300202	MASTER LEDtube HF 1200mm UO 16W830 T8	60000 h	60000 h
929001300302	MASTER LEDtube HF 1500mm UO 24W840 T8	60000 h	60000 h
929001300402	MASTER LEDtube HF 1500mm UO 24W865 T8	60000 h	60000 h
929001300502	MASTER LEDtube HF 1500mm UO 24W830 T8	60000 h	60000 h
929001393102	MASTER LEDtube HF 600mm HO 8W830 T8	60000 h	60000 h
929001393202	MASTER LEDtube HF 600mm HO 8W840 T8	60000 h	60000 h
929001393302	MASTER LEDtube HF 600mm HO 8W865 T8	60000 h	60000 h
929001834302	MASTER LEDtube HF 1050mm UO 17W840 T8	50000 h	50000 h

### Light Technical (1/2)

## MASTER LEDtube InstantFit HF T8

Order Code	Full Product Name	Color Code	Correlated Color Temperature	Color Rendering Index	Luminous Flux (Nom)
			(Nom)	(Nom)	
929001226302	MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD	833	3300 K	83	960 lm
929001284102	MASTER LEDtube HF 1200mm HO 14W840 T8	840	4000 K	83	2100 lm
929001284202	MASTER LEDtube HF 1200mm HO 14W865 T8	865	6500 K	83	2100 lm
929001284302	MASTER LEDtube HF 1200mm HO 14W830 T8	830	3000 K	83	2000 lm
929001284402	MASTER LEDtube HF 1500mm HO 20W840 T8	840	4000 K	83	3100 lm
929001284502	MASTER LEDtube HF 1500mm HO 20W865 T8	865	6500 K	83	3100 lm
929001284602	MASTER LEDtube HF 1500mm HO 20W830 T8	830	3000 K	83	2900 lm
929001300002	MASTER LEDtube HF 1200mm UO 16W840 T8	840	4000 K	83	2500 lm
929001300102	MASTER LEDtube HF 1200mm UO 16W865 T8	865	6500 K	83	2500 lm

Order Code	Full Product Name	Color Code	Correlated Color Temperature	Color Rendering Index	Luminous Flux (Nom)
			(Nom)	(Nom)	
929001300202	MASTER LEDtube HF 1200mm UO 16W830 T8	830	3000 K	83	2350 lm
929001300302	MASTER LEDtube HF 1500mm UO 24W840 T8	840	4000 K	83	3700 lm
929001300402	MASTER LEDtube HF 1500mm UO 24W865 T8	865	6500 K	83	3700 lm
929001300502	MASTER LEDtube HF 1500mm UO 24W830 T8	830	3000 K	83	3500 lm
929001393102	MASTER LEDtube HF 600mm HO 8W830 T8	830	3000 K	83	1000 lm
929001393202	MASTER LEDtube HF 600mm HO 8W840 T8	840	4000 K	83	1050 lm
929001393302	MASTER LEDtube HF 600mm HO 8W865 T8	865	6500 K	83	1050 lm
929001834302	MASTER LEDtube HF 1050mm UO 17W840 T8	840	4000 K	82	2600 lm

### Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
929001226302	MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD	960 lm
929001284102	MASTER LEDtube HF 1200mm HO 14W840 T8	2100 lm
929001284202	MASTER LEDtube HF 1200mm HO 14W865 T8	2100 lm
929001284302	MASTER LEDtube HF 1200mm HO 14W830 T8	2000 lm
929001284402	MASTER LEDtube HF 1500mm HO 20W840 T8	3100 lm
929001284502	MASTER LEDtube HF 1500mm HO 20W865 T8	3100 lm
929001284602	MASTER LEDtube HF 1500mm HO 20W830 T8	2900 lm
929001300002	MASTER LEDtube HF 1200mm UO 16W840 T8	2500 lm

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)
929001300102	MASTER LEDtube HF 1200mm UO 16W865 T8	2500 lm
929001300202	MASTER LEDtube HF 1200mm UO 16W830 T8	2350 lm
929001300302	MASTER LEDtube HF 1500mm UO 24W840 T8	3700 lm
929001300402	MASTER LEDtube HF 1500mm UO 24W865 T8	3700 lm
929001300502	MASTER LEDtube HF 1500mm UO 24W830 T8	3500 lm
929001393102	MASTER LEDtube HF 600mm HO 8W830 T8	1000 lm
929001393202	MASTER LEDtube HF 600mm HO 8W840 T8	1050 lm
929001393302	MASTER LEDtube HF 600mm HO 8W865 T8	1050 lm
929001834302	MASTER LEDtube HF 1050mm UO 17W840 T8	2600 lm

### Temperature

# MASTER LEDtube InstantFit HF T8

Order Code	Full Product Name	T-Ambient (Max)	T-Case Maximum (Nom)
929001226302	MASTER LEDtube HF 1200mm 16.5W833 T8 FOOD	35 °C	45 °C
929001284102	MASTER LEDtube HF 1200mm HO 14W840 T8	45 °C	55 °C
929001284202	MASTER LEDtube HF 1200mm HO 14W865 T8	45 °C	55 °C
929001284302	MASTER LEDtube HF 1200mm HO 14W830 T8	45 °C	55 °C
929001284402	MASTER LEDtube HF 1500mm HO 20W840 T8	45 °C	55 °C
929001284502	MASTER LEDtube HF 1500mm HO 20W865 T8	45 °C	55 °C
929001284602	MASTER LEDtube HF 1500mm HO 20W830 T8	45 °C	55 °C
929001300002	MASTER LEDtube HF 1200mm UO 16W840 T8	45 °C	55 °C
929001300102	MASTER LEDtube HF 1200mm UO 16W865 T8	45 °C	55 °C
929001300202	MASTER LEDtube HF 1200mm UO 16W830 T8	45 °C	55 °C
929001300302	MASTER LEDtube HF 1500mm UO 24W840 T8	45 °C	55 °C
929001300402	MASTER LEDtube HF 1500mm UO 24W865 T8	45 °C	55 °C
929001300502	MASTER LEDtube HF 1500mm UO 24W830 T8	45 °C	55 °C
929001393102	MASTER LEDtube HF 600mm HO 8W830 T8	45 °C	60 °C
929001393202	MASTER LEDtube HF 600mm HO 8W840 T8	45 °C	60 °C
929001393302	MASTER LEDtube HF 600mm HO 8W865 T8	45 °C	60 °C
929001834302	MASTER LEDtube HF 1050mm UO 17W840 T8	45 °C	55 °C

