



# The new generation of energy-saving T5 tube lighting

## MASTER LEDtube InstantFit HF T5

Philips MASTER LEDtube InstantFit T5 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. The Philips MASTER LEDtube InstantFit T5 is the ideal solution for customers who have higher light output 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

- Retrofit replacement of existing T5 lamps on HF ballast installations
- 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

### Application

- The ideal solution for demanding applications with a need for extra energy savings: office, school, retail

# MASTER LEDtube InstantFit HF T5

## Versions



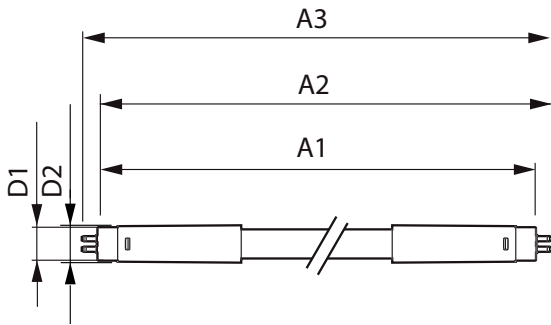
G5

G5

G5 Tube, double-ended Frosted

# MASTER LEDtube InstantFit HF T5

## Dimensional drawing



Product	D1	D2	A1	A2	A3
Master LEDtube HF 1500mm HO 26W 865 T5 OE	15.5 mm	19 mm	1449 mm	1456 mm	1463 mm
Master LEDtube HF 1500mm HO 26W 830 T5 OE	15.5 mm	19 mm	1449 mm	1456 mm	1463 mm
Master LEDtube HF 1200mm HO 26W 830 T5 OE	15.5 mm	19 mm	1149 mm	1156 mm	1163 mm
Master LEDtube HF 1500mm HO 26W 840 T5 OE	15.5 mm	19 mm	1449 mm	1456 mm	1463 mm
Master LEDtube HF 1200mm HO 26W 840 T5 OE	15.5 mm	19 mm	1149 mm	1156 mm	1163 mm
Master LEDtube HF 1200mm HO 26W 865 T5 OE	15.5 mm	19 mm	1149 mm	1156 mm	1163 mm
Master LEDtube HF 1500mm UO 36W 840 T5	15.2 mm	21 mm	1447.8 mm	1454.9 mm	1462 mm
Master LEDtube HF 1500mm UO 36W 830 T5	15.2 mm	21 mm	1447.8 mm	1454.9 mm	1462 mm
Master LEDtube HF 1500mm UO 36W 865 T5	15.2 mm	21 mm	1447.8 mm	1454.9 mm	1462 mm
Master LEDtube HF 600mm HE 8W 840 T5	15.5 mm	18.8 mm	549 mm	556.1 mm	563.2 mm
Master LEDtube HF 1500mm HE 20W 840 T5	15.5 mm	18.8 mm	1449 mm	1456.1 mm	1463.2 mm
Master LEDtube HF 1200mm HE 16.5W 865 T5	15.5 mm	18.8 mm	1149 mm	1156.1 mm	1163.2 mm
Master LEDtube HF 600mm HE 8W 865 T5	15.5 mm	18.8 mm	549 mm	556.1 mm	563.2 mm
Master LEDtube HF 1200mm HE 16.5W 840 T5	15.5 mm	18.8 mm	1149 mm	1156.1 mm	1163.2 mm
Master LEDtube HF 600mm HE 8W 830 T5	15.5 mm	18.8 mm	549 mm	556.1 mm	563.2 mm
Master LEDtube HF 1500mm HE 20W 865 T5	15.5 mm	18.8 mm	1449 mm	1456.1 mm	1463.2 mm
Master LEDtube HF 1200mm HE 16.5W 830 T5	15.5 mm	18.8 mm	1149 mm	1156.1 mm	1163.2 mm
Master LEDtube HF 1500mm HE 20W 830 T5	15.5 mm	18.8 mm	1449 mm	1456.1 mm	1463.2 mm

# MASTER LEDtube InstantFit HF T5

## Operating and Electrical

Starting Time (Nom)	0.5 s
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## General Information

Cap-Base	G5
Switching Cycle	50000X

## Light Technical

Llmf At End Of Nominal Lifetime (Nom)	70 %
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## Mechanical and Housing

Bulb Shape	Tube, double-ended
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## Temperature

T-Ambient (Max)	45 °C
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)
929001346102	Master LEDtube HF 1500mm UO 36W 830 T5	42 kWh	A++
929001346202	Master LEDtube HF 1500mm UO 36W 840 T5	42 kWh	A++
929001346302	Master LEDtube HF 1500mm UO 36W 865 T5	42 kWh	A++
929001390702	Master LEDtube HF 600mm HE 8W 830 T5	10 kWh	A+
929001390802	Master LEDtube HF 600mm HE 8W 840 T5	10 kWh	A+
929001390902	Master LEDtube HF 600mm HE 8W 865 T5	10 kWh	A+
929001391002	Master LEDtube HF 1200mm HE 16.5W 830 T5	20 kWh	A+
929001391102	Master LEDtube HF 1200mm HE 16.5W 840 T5	20 kWh	A++
929001391202	Master LEDtube HF 1200mm HE 16.5W 865 T5	20 kWh	A++
929001391302	Master LEDtube HF 1500mm HE 20W 830 T5	24 kWh	A+
929001391402	Master LEDtube HF 1500mm HE 20W 840 T5	24 kWh	A++
929001391502	Master LEDtube HF 1500mm HE 20W 865 T5	24 kWh	A++
929002352002	Master LEDtube HF 1200mm HO 26W 830 T5 OE	31 kWh	A+
929002352102	Master LEDtube HF 1200mm HO 26W 840 T5 OE	31 kWh	A++
929002352202	Master LEDtube HF 1200mm HO 26W 865 T5 OE	31 kWh	A++
929002352302	Master LEDtube HF 1500mm HO 26W 830 T5 OE	31 kWh	A+
929002352402	Master LEDtube HF 1500mm HO 26W 840 T5 OE	31 kWh	A++
929002352502	Master LEDtube HF 1500mm HO 26W 865 T5 OE	31 kWh	A++

## Controls and Dimming

Order Code	Full Product Name	Dimmable
929001346102	Master LEDtube HF 1500mm UO 36W 830 T5	No
929001346202	Master LEDtube HF 1500mm UO 36W 840 T5	No
929001346302	Master LEDtube HF 1500mm UO 36W 865 T5	No
929001390702	Master LEDtube HF 600mm HE 8W 830 T5	No
929001390802	Master LEDtube HF 600mm HE 8W 840 T5	No
929001390902	Master LEDtube HF 600mm HE 8W 865 T5	No
929001391002	Master LEDtube HF 1200mm HE 16.5W 830 T5	No
929001391102	Master LEDtube HF 1200mm HE 16.5W 840 T5	No
929001391202	Master LEDtube HF 1200mm HE 16.5W 865 T5	No
929001391302	Master LEDtube HF 1500mm HE 20W 830 T5	No
929001391402	Master LEDtube HF 1500mm HE 20W 840 T5	No
929001391502	Master LEDtube HF 1500mm HE 20W 865 T5	No

Order Code	Full Product Name	Dimmable
929002352002	Master LEDtube HF 1200mm HO 26W 830 T5 OE	Yes - Check ballast compatibility
929002352102	Master LEDtube HF 1200mm HO 26W 840 T5 OE	Yes - Check ballast compatibility
929002352202	Master LEDtube HF 1200mm HO 26W 865 T5 OE	Yes - Check ballast compatibility
929002352302	Master LEDtube HF 1500mm HO 26W 830 T5 OE	Yes - Check ballast compatibility
929002352402	Master LEDtube HF 1500mm HO 26W 840 T5 OE	Yes - Check ballast compatibility
929002352502	Master LEDtube HF 1500mm HO 26W 865 T5 OE	Yes - Check ballast compatibility

## Operating and Electrical

## MASTER LEDtube InstantFit HF T5

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)
929001346102	Master LEDtube HF 1500mm UO 36W 830 T5	40000-75000 Hz	65-75 V	36 W
929001346202	Master LEDtube HF 1500mm UO 36W 840 T5	40000-75000 Hz	65-75 V	36 W
929001346302	Master LEDtube HF 1500mm UO 36W 865 T5	40000-75000 Hz	65-75 V	36 W
929001390702	Master LEDtube HF 600mm HE 8W 830 T5	35000-70000 Hz	40-60 V	8 W
929001390802	Master LEDtube HF 600mm HE 8W 840 T5	35000-70000 Hz	40-60 V	8 W
929001390902	Master LEDtube HF 600mm HE 8W 865 T5	35000-70000 Hz	40-60 V	8 W
929001391002	Master LEDtube HF 1200mm HE 16.5W 830 T5	35000-70000 Hz	90-130 V	16.5 W
929001391102	Master LEDtube HF 1200mm HE 16.5W 840 T5	35000-70000 Hz	90-130 V	16.5 W
929001391202	Master LEDtube HF 1200mm HE 16.5W 865 T5	35000-70000 Hz	90-130 V	16.5 W
929001391302	Master LEDtube HF 1500mm HE 20W 830 T5	35000-70000 Hz	120-160 V	20 W

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)
929001391402	Master LEDtube HF 1500mm HE 20W 840 T5	35000-70000 Hz	120-160 V	20 W
929001391502	Master LEDtube HF 1500mm HE 20W 865 T5	35000-70000 Hz	120-160 V	20 W
929002352002	Master LEDtube HF 1200mm HO 26W 830 T5 OE	30K to 60K Hz	20-90 V	26 W
929002352102	Master LEDtube HF 1200mm HO 26W 840 T5 OE	30K to 60K Hz	20-90 V	26 W
929002352202	Master LEDtube HF 1200mm HO 26W 865 T5 OE	30K to 60K Hz	20-90 V	26 W
929002352302	Master LEDtube HF 1500mm HO 26W 830 T5 OE	20K to 140K Hz	60-120 V	26 W
929002352402	Master LEDtube HF 1500mm HO 26W 840 T5 OE	20K to 140K Hz	60-120 V	26 W
929002352502	Master LEDtube HF 1500mm HO 26W 865 T5 OE	20K to 140K Hz	60-120 V	26 W

### General Information

Order Code	Full Product Name	Nominal Lifetime (Nom)
929001346102	Master LEDtube HF 1500mm UO 36W 830 T5	60000 h
929001346202	Master LEDtube HF 1500mm UO 36W 840 T5	60000 h
929001346302	Master LEDtube HF 1500mm UO 36W 865 T5	60000 h
929001390702	Master LEDtube HF 600mm HE 8W 830 T5	50000 h
929001390802	Master LEDtube HF 600mm HE 8W 840 T5	50000 h
929001390902	Master LEDtube HF 600mm HE 8W 865 T5	50000 h
929001391002	Master LEDtube HF 1200mm HE 16.5W 830 T5	50000 h
929001391102	Master LEDtube HF 1200mm HE 16.5W 840 T5	50000 h
929001391202	Master LEDtube HF 1200mm HE 16.5W 865 T5	50000 h

Order Code	Full Product Name	Nominal Lifetime (Nom)
929001391302	Master LEDtube HF 1500mm HE 20W 830 T5	50000 h
929001391402	Master LEDtube HF 1500mm HE 20W 840 T5	50000 h
929001391502	Master LEDtube HF 1500mm HE 20W 865 T5	50000 h
929002352002	Master LEDtube HF 1200mm HO 26W 830 T5 OE	60000 h
929002352102	Master LEDtube HF 1200mm HO 26W 840 T5 OE	60000 h
929002352202	Master LEDtube HF 1200mm HO 26W 865 T5 OE	60000 h
929002352302	Master LEDtube HF 1500mm HO 26W 830 T5 OE	60000 h
929002352402	Master LEDtube HF 1500mm HO 26W 840 T5 OE	60000 h
929002352502	Master LEDtube HF 1500mm HO 26W 865 T5 OE	60000 h

### Light Technical (1/2)

Order Code	Full Product Name	Beam		Correlated Color	
		Angle (Nom)	Color Code	Temperature (Nom)	Rendering Index (Nom)
929001346102	Master LEDtube HF 1500mm UO 36W 830 T5	160 °	830	3000 K	80

Order Code	Full Product Name	Beam		Correlated Color	
		Angle (Nom)	Color Code	Temperature (Nom)	Rendering Index (Nom)
929001346202	Master LEDtube HF 1500mm UO 36W 840 T5	160 °	840	4000 K	80

## MASTER LEDtube InstantFit HF T5

Order Code	Full Product Name	Beam	Correlated		Color
		Angle (Nom)	Color Code	Temperature (Nom)	Rendering Index (Nom)
929001346302	Master LEDtube HF 1500mm UO 36W 865 T5	160 °	865	6500 K	80
929001390702	Master LEDtube HF 600mm HE 8W 830 T5	200 °	830	3000 K	83
929001390802	Master LEDtube HF 600mm HE 8W 840 T5	200 °	840	4000 K	83
929001390902	Master LEDtube HF 600mm HE 8W 865 T5	200 °	865	6500 K	83
929001391002	Master LEDtube HF 1200mm HE 16.5W 830 T5	200 °	830	3000 K	83
929001391102	Master LEDtube HF 1200mm HE 16.5W 840 T5	200 °	840	4000 K	83
929001391202	Master LEDtube HF 1200mm HE 16.5W 865 T5	200 °	865	6500 K	83
929001391302	Master LEDtube HF 1500mm HE 20W 830 T5	200 °	830	3000 K	83

Order Code	Full Product Name	Beam	Correlated		Color
		Angle (Nom)	Color Code	Temperature (Nom)	Rendering Index (Nom)
929001391402	Master LEDtube HF 1500mm HE 20W 840 T5	200 °	840	4000 K	83
929001391502	Master LEDtube HF 1500mm HE 20W 865 T5	200 °	865	6500 K	83
929002352002	Master LEDtube HF 1200mm HO 26W 830 T5 OE	200 °	830	3000 K	80
929002352102	Master LEDtube HF 1200mm HO 26W 840 T5 OE	200 °	840	4000 K	80
929002352202	Master LEDtube HF 1200mm HO 26W 865 T5 OE	200 °	865	6500 K	80
929002352302	Master LEDtube HF 1500mm HO 26W 830 T5 OE	200 °	830	3000 K	80
929002352402	Master LEDtube HF 1500mm HO 26W 840 T5 OE	200 °	840	4000 K	80
929002352502	Master LEDtube HF 1500mm HO 26W 865 T5 OE	200 °	865	6500 K	80

### Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux (Nom)
929001346102	Master LEDtube HF 1500mm UO 36W 830 T5	5200 lm
929001346202	Master LEDtube HF 1500mm UO 36W 840 T5	5600 lm
929001346302	Master LEDtube HF 1500mm UO 36W 865 T5	5600 lm
929001390702	Master LEDtube HF 600mm HE 8W 830 T5	1000 lm
929001390802	Master LEDtube HF 600mm HE 8W 840 T5	1050 lm
929001390902	Master LEDtube HF 600mm HE 8W 865 T5	1050 lm
929001391002	Master LEDtube HF 1200mm HE 16.5W 830 T5	2300 lm
929001391102	Master LEDtube HF 1200mm HE 16.5W 840 T5	2500 lm
929001391202	Master LEDtube HF 1200mm HE 16.5W 865 T5	2500 lm

Order Code	Full Product Name	Luminous Flux (Nom)
929001391302	Master LEDtube HF 1500mm HE 20W 830 T5	2800 lm
929001391402	Master LEDtube HF 1500mm HE 20W 840 T5	3000 lm
929001391502	Master LEDtube HF 1500mm HE 20W 865 T5	3000 lm
929002352002	Master LEDtube HF 1200mm HO 26W 830 T5 OE	3700 lm
929002352102	Master LEDtube HF 1200mm HO 26W 840 T5 OE	3900 lm
929002352202	Master LEDtube HF 1200mm HO 26W 865 T5 OE	3900 lm
929002352302	Master LEDtube HF 1500mm HO 26W 830 T5 OE	3700 lm
929002352402	Master LEDtube HF 1500mm HO 26W 840 T5 OE	3900 lm
929002352502	Master LEDtube HF 1500mm HO 26W 865 T5 OE	3900 lm

### Mechanical and Housing

Order Code	Full Product Name	Bulb Finish
929001346102	Master LEDtube HF 1500mm UO 36W 830 T5	Frosted
929001346202	Master LEDtube HF 1500mm UO 36W 840 T5	Frosted
929001346302	Master LEDtube HF 1500mm UO 36W 865 T5	Frosted
929001390702	Master LEDtube HF 600mm HE 8W 830 T5	-
929001390802	Master LEDtube HF 600mm HE 8W 840 T5	-
929001390902	Master LEDtube HF 600mm HE 8W 865 T5	-

Order Code	Full Product Name	Bulb Finish
929001391002	Master LEDtube HF 1200mm HE 16.5W 830 T5	-
929001391102	Master LEDtube HF 1200mm HE 16.5W 840 T5	-
929001391202	Master LEDtube HF 1200mm HE 16.5W 865 T5	-
929001391302	Master LEDtube HF 1500mm HE 20W 830 T5	-
929001391402	Master LEDtube HF 1500mm HE 20W 840 T5	-
929001391502	Master LEDtube HF 1500mm HE 20W 865 T5	-

# MASTER LEDtube InstantFit HF T5

Order Code	Full Product Name	Bulb Finish
929002352002	Master LEDtube HF 1200mm HO 26W 830 T5 OE	Frosted
929002352102	Master LEDtube HF 1200mm HO 26W 840 T5 OE	Frosted
929002352202	Master LEDtube HF 1200mm HO 26W 865 T5 OE	Frosted

Order Code	Full Product Name	Bulb Finish
929002352302	Master LEDtube HF 1500mm HO 26W 830 T5 OE	Frosted
929002352402	Master LEDtube HF 1500mm HO 26W 840 T5 OE	Frosted
929002352502	Master LEDtube HF 1500mm HO 26W 865 T5 OE	Frosted

## Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929001346102	Master LEDtube HF 1500mm UO 36W 830 T5	75 °C
929001346202	Master LEDtube HF 1500mm UO 36W 840 T5	75 °C
929001346302	Master LEDtube HF 1500mm UO 36W 865 T5	75 °C
929001390702	Master LEDtube HF 600mm HE 8W 830 T5	65 °C
929001390802	Master LEDtube HF 600mm HE 8W 840 T5	65 °C
929001390902	Master LEDtube HF 600mm HE 8W 865 T5	65 °C
929001391002	Master LEDtube HF 1200mm HE 16.5W 830 T5	65 °C
929001391102	Master LEDtube HF 1200mm HE 16.5W 840 T5	65 °C
929001391202	Master LEDtube HF 1200mm HE 16.5W 865 T5	65 °C
929001391302	Master LEDtube HF 1500mm HE 20W 830 T5	65 °C
929001391402	Master LEDtube HF 1500mm HE 20W 840 T5	65 °C
929001391502	Master LEDtube HF 1500mm HE 20W 865 T5	65 °C
929002352002	Master LEDtube HF 1200mm HO 26W 830 T5 OE	55 °C
929002352102	Master LEDtube HF 1200mm HO 26W 840 T5 OE	55 °C
929002352202	Master LEDtube HF 1200mm HO 26W 865 T5 OE	55 °C
929002352302	Master LEDtube HF 1500mm HO 26W 830 T5 OE	50 °C
929002352402	Master LEDtube HF 1500mm HO 26W 840 T5 OE	50 °C
929002352502	Master LEDtube HF 1500mm HO 26W 865 T5 OE	50 °C

