



# 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

## MASTER LEDtube InstantFit HF T5

### Application

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

### Versions



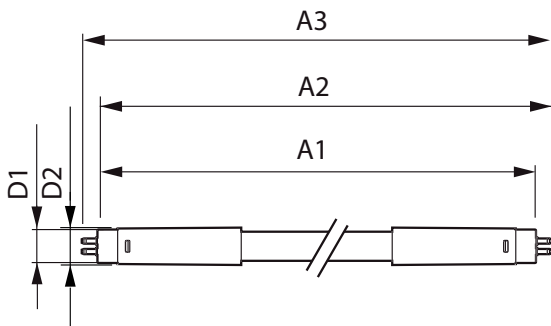
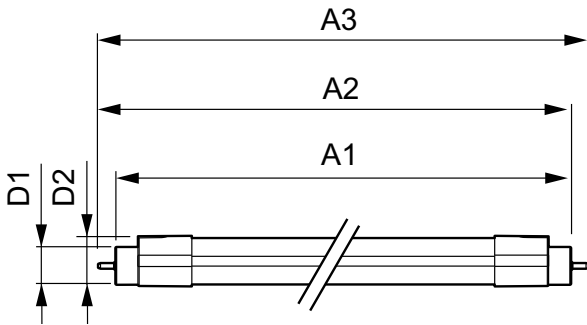
LEDtube G5

LEDtube G5

G5

# MASTER LEDtube InstantFit HF T5

## Dimensional drawing



Product	D1	D2	A1	A2	A3
MASTER LEDtube 600mm 7.5W865 G5 I	15.8 mm	21.0 mm	548.0 mm	555.0 mm	562.0 mm
MASTER LEDtube 600mm 7.5W840 G5 I	15.8 mm	21.0 mm	548.0 mm	555.0 mm	562.0 mm
MASTER LEDtube 1200mm 13W865 G5 I	15.8 mm	21.0 mm	1148.0 mm	1155.0 mm	1162.0 mm
MASTER LEDtube 1200mm 13W840 G5 I	15.8 mm	21.0 mm	1148.0 mm	1155.0 mm	1162.0 mm

Product	D1	D2	A1	A2	A3
MAS LEDtube HF 1500mm HE 20W 830 T5	15.5 mm	18.8 mm	1449 mm	1456.1 mm	1463.2 mm
MAS LEDtube HF 1500mm HO 26W 830 T5	15.2 mm	21 mm	1447.8 mm	1454.9 mm	1462 mm
MAS LEDtube HF 1500mm HO 26W 840 T5	15.2 mm	21 mm	1447.8 mm	1454.9 mm	1462 mm
MAS LEDtube HF 1500mm HO 26W 865 T5	15.2 mm	21 mm	1447.8 mm	1454.9 mm	1462 mm
MAS LEDtube HF 1200mm HO 26W 830 T5	15.2 mm	21 mm	1147.8 mm	1154.9 mm	1162 mm
MAS LEDtube HF 1200mm HO 26W 840 T5	15.2 mm	21 mm	1147.8 mm	1154.9 mm	1162 mm
MAS LEDtube HF 1200mm HO 26W 865 T5	15.2 mm	21 mm	1147.8 mm	1154.9 mm	1162 mm
MAS LEDtube HF 1500mm UO 36W 840 T5	15.2 mm	21 mm	1447.8 mm	1454.9 mm	1462 mm
MAS LEDtube HF 1500mm UO 36W 830 T5	15.2 mm	21 mm	1447.8 mm	1454.9 mm	1462 mm
MAS LEDtube HF 1500mm UO 36W 865 T5	15.2 mm	21 mm	1447.8 mm	1454.9 mm	1462 mm
MAS LEDtube HF 600mm HE 8W 840 T5	15.5 mm	18.8 mm	549 mm	556.1 mm	563.2 mm
MAS LEDtube HF 1500mm HE 20W 840 T5	15.5 mm	18.8 mm	1449 mm	1456.1 mm	1463.2 mm
MAS LEDtube HF 1200mm HE 16.5W 865 T5	15.5 mm	18.8 mm	1149 mm	1156.1 mm	1163.2 mm
MAS LEDtube HF 600mm HE 8W 865 T5	15.5 mm	18.8 mm	549 mm	556.1 mm	563.2 mm
MAS LEDtube HF 1200mm HE 16.5W 840 T5	15.5 mm	18.8 mm	1149 mm	1156.1 mm	1163.2 mm
MAS LEDtube HF 600mm HE 8W 830 T5	15.5 mm	18.8 mm	549 mm	556.1 mm	563.2 mm
MAS LEDtube HF 1500mm HE 20W 865 T5	15.5 mm	18.8 mm	1449 mm	1456.1 mm	1463.2 mm
MAS LEDtube HF 1200mm HE 16.5W 830 T5	15.5 mm	18.8 mm	1149 mm	1156.1 mm	1163.2 mm

# MASTER LEDtube InstantFit HF T5

## Controls and Dimming

Dimmable No

## Operating and Electrical

Starting Time (Nom) 0.5 s

## General Information

Cap-Base G5

Switching Cycle 50000X

## Light Technical

Color Rendering Index (Nom) 83

Llmf At End Of Nominal Lifetime (Nom) 70 %

## 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)
929001131110	MASTER LEDtube 1200mm 13W840 G5 I	15 kWh	A+
929001131210	MASTER LEDtube 1200mm 13W865 G5 I	15 kWh	A+
929001154910	MASTER LEDtube 600mm 7.5W840 G5 I	9 kWh	A+
929001155010	MASTER LEDtube 600mm 7.5W865 G5 I	9 kWh	A+
929001296102	MAS LEDtube HF 1500mm HO 26W 830 T5	31 kWh	A+
929001296202	MAS LEDtube HF 1500mm HO 26W 840 T5	31 kWh	A++
929001296302	MAS LEDtube HF 1500mm HO 26W 865 T5	31 kWh	A++
929001338302	MAS LEDtube HF 1200mm HO 26W 830 T5	31 kWh	A+
929001338402	MAS LEDtube HF 1200mm HO 26W 840 T5	31 kWh	A++
929001338502	MAS LEDtube HF 1200mm HO 26W 865 T5	31 kWh	A++
929001346102	MAS LEDtube HF 1500mm UO 36W 830 T5	42 kWh	A++
929001346202	MAS LEDtube HF 1500mm UO 36W 840 T5	42 kWh	A++
929001346302	MAS LEDtube HF 1500mm UO 36W 865 T5	42 kWh	A++
929001390702	MAS LEDtube HF 600mm HE 8W 830 T5	10 kWh	A+
929001390802	MAS LEDtube HF 600mm HE 8W 840 T5	10 kWh	A+
929001390902	MAS LEDtube HF 600mm HE 8W 865 T5	10 kWh	A+
929001391002	MAS LEDtube HF 1200mm HE 16.5W 830 T5	20 kWh	A+
929001391102	MAS LEDtube HF 1200mm HE 16.5W 840 T5	20 kWh	A++
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	20 kWh	A++
929001391302	MAS LEDtube HF 1500mm HE 20W 830 T5	24 kWh	A+
929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	24 kWh	A++
929001391502	MAS LEDtube HF 1500mm HE 20W 865 T5	24 kWh	A++

## Operating and Electrical

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)
929001131110	MASTER LEDtube 1200mm 13W840 G5 I	50 to 60 Hz	33 V	13 W
929001131210	MASTER LEDtube 1200mm 13W865 G5 I	50 to 60 Hz	33 V	13 W
929001154910	MASTER LEDtube 600mm 7.5W840 G5 I	50 to 60 Hz	19 V	7.5 W
929001155010	MASTER LEDtube 600mm 7.5W865 G5 I	50 to 60 Hz	19 V	7.5 W
929001296102	MAS LEDtube HF 1500mm HO 26W 830 T5	39000-60000 Hz	100-135 V	26 W
929001296202	MAS LEDtube HF 1500mm HO 26W 840 T5	39000-60000 Hz	100-135 V	26 W
929001296302	MAS LEDtube HF 1500mm HO 26W 865 T5	39000-60000 Hz	100-135 V	26 W
929001338302	MAS LEDtube HF 1200mm HO 26W 830 T5	35000-80000 Hz	50-60 V	26 W
929001338402	MAS LEDtube HF 1200mm HO 26W 840 T5	35000-80000 Hz	50-60 V	26 W
929001338502	MAS LEDtube HF 1200mm HO 26W 865 T5	35000-80000 Hz	50-60 V	26 W
929001346102	MAS LEDtube HF 1500mm UO 36W 830 T5	40000-75000 Hz	65-75 V	36 W

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)
929001346202	MAS LEDtube HF 1500mm UO 36W 840 T5	40000-75000 Hz	65-75 V	36 W
929001346302	MAS LEDtube HF 1500mm UO 36W 865 T5	40000-75000 Hz	65-75 V	36 W
929001390702	MAS LEDtube HF 600mm HE 8W 830 T5	35000-70000 Hz	40-60 V	8 W
929001390802	MAS LEDtube HF 600mm HE 8W 840 T5	35000-70000 Hz	40-60 V	8 W
929001390902	MAS LEDtube HF 600mm HE 8W 865 T5	35000-70000 Hz	40-60 V	8 W
929001391002	MAS LEDtube HF 1200mm HE 16.5W 830 T5	35000-70000 Hz	90-130 V	16.5 W
929001391102	MAS LEDtube HF 1200mm HE 16.5W 840 T5	35000-70000 Hz	90-130 V	16.5 W
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	35000-70000 Hz	90-130 V	16.5 W
929001391302	MAS LEDtube HF 1500mm HE 20W 830 T5	35000-70000 Hz	120-160 V	20 W
929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	35000-70000 Hz	120-160 V	20 W

# MASTER LEDtube InstantFit HF T5

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated) (Nom)
929001391502	MAS LEDtube HF 1500mm HE 20W 865 T5	35000-70000 Hz	120-160 V	20 W

## General Information

Order Code	Full Product Name	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
929001131110	MASTER LEDtube 1200mm 13W840 G5 I	40000 h	40000 h
929001131210	MASTER LEDtube 1200mm 13W865 G5 I	40000 h	40000 h
929001154910	MASTER LEDtube 600mm 7.5W840 G5 I	40000 h	40000 h
929001155010	MASTER LEDtube 600mm 7.5W865 G5 I	40000 h	40000 h
929001296102	MAS LEDtube HF 1500mm HO 26W 830 T5	50000 h	50000 h
929001296202	MAS LEDtube HF 1500mm HO 26W 840 T5	50000 h	50000 h
929001296302	MAS LEDtube HF 1500mm HO 26W 865 T5	50000 h	50000 h
929001338302	MAS LEDtube HF 1200mm HO 26W 830 T5	50000 h	50000 h
929001338402	MAS LEDtube HF 1200mm HO 26W 840 T5	50000 h	50000 h
929001338502	MAS LEDtube HF 1200mm HO 26W 865 T5	50000 h	50000 h
929001346102	MAS LEDtube HF 1500mm UO 36W 830 T5	50000 h	50000 h

Order Code	Full Product Name	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
929001346202	MAS LEDtube HF 1500mm UO 36W 840 T5	50000 h	50000 h
929001346302	MAS LEDtube HF 1500mm UO 36W 865 T5	50000 h	50000 h
929001390702	MAS LEDtube HF 600mm HE 8W 830 T5	50000 h	50000 h
929001390802	MAS LEDtube HF 600mm HE 8W 840 T5	50000 h	50000 h
929001390902	MAS LEDtube HF 600mm HE 8W 865 T5	50000 h	50000 h
929001391002	MAS LEDtube HF 1200mm HE 16.5W 830 T5	50000 h	50000 h
929001391102	MAS LEDtube HF 1200mm HE 16.5W 840 T5	50000 h	50000 h
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	50000 h	50000 h
929001391302	MAS LEDtube HF 1500mm HE 20W 830 T5	50000 h	50000 h
929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	50000 h	50000 h
929001391502	MAS LEDtube HF 1500mm HE 20W 865 T5	50000 h	50000 h

## Light Technical (1/2)

Order Code	Full Product Name	Beam		Correlated Color	
		Angle (Nom)	Color Code	Temperature (Nom)	Luminous Flux (Nom)
929001131110	MASTER LEDtube 1200mm 13W840 G5 I	160 °	840	4000 K	1600 lm
929001131210	MASTER LEDtube 1200mm 13W865 G5 I	160 °	865	6500 K	1600 lm
929001154910	MASTER LEDtube 600mm 7.5W840 G5 I	160 °	840	4000 K	800 lm
929001155010	MASTER LEDtube 600mm 7.5W865 G5 I	160 °	865	6500 K	800 lm
929001296102	MAS LEDtube HF 1500mm HO 26W 830 T5	-	830	3000 K	3700 lm
929001296202	MAS LEDtube HF 1500mm HO 26W 840 T5	-	840	4000 K	3900 lm

Order Code	Full Product Name	Beam		Correlated Color	
		Angle (Nom)	Color Code	Temperature (Nom)	Luminous Flux (Nom)
929001296302	MAS LEDtube HF 1500mm HO 26W 865 T5	-	865	6500 K	3900 lm
929001338302	MAS LEDtube HF 1200mm HO 26W 830 T5	-	830	3000 K	3700 lm
929001338402	MAS LEDtube HF 1200mm HO 26W 840 T5	-	840	4000 K	3900 lm
929001338502	MAS LEDtube HF 1200mm HO 26W 865 T5	-	865	6500 K	3900 lm
929001346102	MAS LEDtube HF 1500mm UO 36W 830 T5	-	830	3000 K	5200 lm

## MASTER LEDtube InstantFit HF T5

Order Code	Full Product Name	Beam		Correlated Color	
		Angle (Nom)	Color Code	Temperature (Nom)	Luminous Flux (Nom)
929001346202	MAS LEDtube HF 1500mm UO 36W 840 T5	-	840	4000 K	5600 lm
929001346302	MAS LEDtube HF 1500mm UO 36W 865 T5	-	865	6500 K	5600 lm
929001390702	MAS LEDtube HF 600mm HE 8W 830 T5	-	830	3000 K	1000 lm
929001390802	MAS LEDtube HF 600mm HE 8W 840 T5	-	840	4000 K	1050 lm
929001390902	MAS LEDtube HF 600mm HE 8W 865 T5	-	865	6500 K	1050 lm
929001391002	MAS LEDtube HF 1200mm HE 16.5W 830 T5	-	830	3000 K	2300 lm

Order Code	Full Product Name	Beam		Correlated Color	
		Angle (Nom)	Color Code	Temperature (Nom)	Luminous Flux (Nom)
929001391102	MAS LEDtube HF 1200mm HE 16.5W 840 T5	-	840	4000 K	2500 lm
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	-	865	6500 K	2500 lm
929001391302	MAS LEDtube HF 1500mm HE 20W 830 T5	-	830	3000 K	2800 lm
929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	-	840	4000 K	3000 lm
929001391502	MAS LEDtube HF 1500mm HE 20W 865 T5	-	865	6500 K	3000 lm

### Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)	Rated
			Beam Angle
929001131110	MASTER LEDtube 1200mm 13W840 G5 I	1600 lm	160 °
929001131210	MASTER LEDtube 1200mm 13W865 G5 I	1600 lm	160 °
929001154910	MASTER LEDtube 600mm 7.5W840 G5 I	800 lm	160 °
929001155010	MASTER LEDtube 600mm 7.5W865 G5 I	800 lm	160 °
929001296102	MAS LEDtube HF 1500mm HO 26W 830 T5	3700 lm	-
929001296202	MAS LEDtube HF 1500mm HO 26W 840 T5	3900 lm	-
929001296302	MAS LEDtube HF 1500mm HO 26W 865 T5	3900 lm	-
929001338302	MAS LEDtube HF 1200mm HO 26W 830 T5	3700 lm	-
929001338402	MAS LEDtube HF 1200mm HO 26W 840 T5	3900 lm	-
929001338502	MAS LEDtube HF 1200mm HO 26W 865 T5	3900 lm	-
929001346102	MAS LEDtube HF 1500mm UO 36W 830 T5	5200 lm	-

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)	Rated
			Beam Angle
929001346202	MAS LEDtube HF 1500mm UO 36W 840 T5	5600 lm	-
929001346302	MAS LEDtube HF 1500mm UO 36W 865 T5	5600 lm	-
929001390702	MAS LEDtube HF 600mm HE 8W 830 T5	1000 lm	-
929001390802	MAS LEDtube HF 600mm HE 8W 840 T5	1050 lm	-
929001390902	MAS LEDtube HF 600mm HE 8W 865 T5	1050 lm	-
929001391002	MAS LEDtube HF 1200mm HE 16.5W 830 T5	2300 lm	-
929001391102	MAS LEDtube HF 1200mm HE 16.5W 840 T5	2500 lm	-
929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	2500 lm	-
929001391302	MAS LEDtube HF 1500mm HE 20W 830 T5	2800 lm	-
929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	3000 lm	-
929001391502	MAS LEDtube HF 1500mm HE 20W 865 T5	3000 lm	-

### Temperature

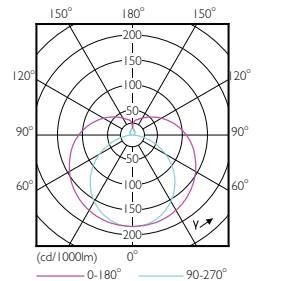
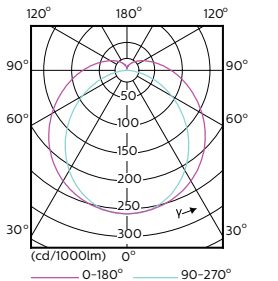
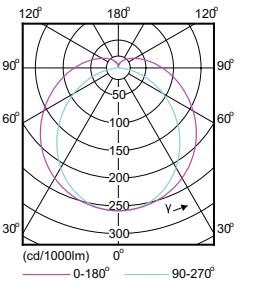
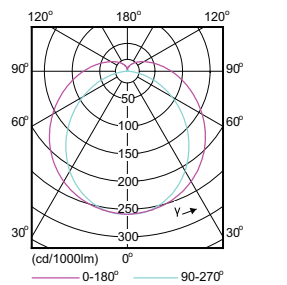
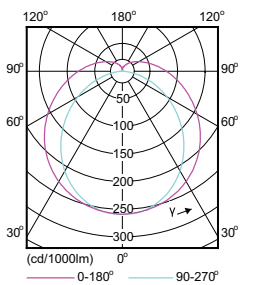
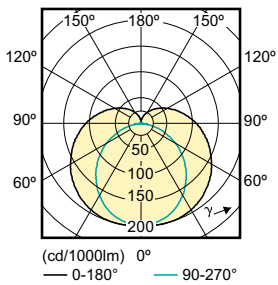
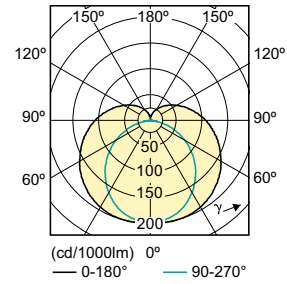
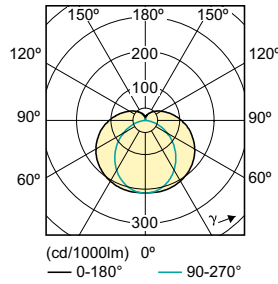
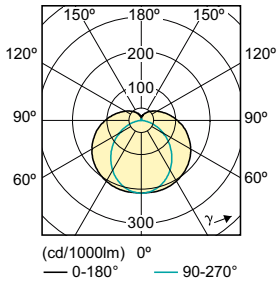
Order Code	Full Product Name	T-Case Maximum (Nom)
929001131110	MASTER LEDtube 1200mm 13W840 G5 I	50 °C
929001131210	MASTER LEDtube 1200mm 13W865 G5 I	50 °C
929001154910	MASTER LEDtube 600mm 7.5W840 G5 I	60 °C
929001155010	MASTER LEDtube 600mm 7.5W865 G5 I	60 °C
929001296102	MAS LEDtube HF 1500mm HO 26W 830 T5	45 °C
929001296202	MAS LEDtube HF 1500mm HO 26W 840 T5	45 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929001296302	MAS LEDtube HF 1500mm HO 26W 865 T5	45 °C
929001338302	MAS LEDtube HF 1200mm HO 26W 830 T5	-
929001338402	MAS LEDtube HF 1200mm HO 26W 840 T5	-
929001338502	MAS LEDtube HF 1200mm HO 26W 865 T5	-
929001346102	MAS LEDtube HF 1500mm UO 36W 830 T5	-
929001346202	MAS LEDtube HF 1500mm UO 36W 840 T5	-

# MASTER LEDtube InstantFit HF T5

Order Code	Full Product Name	T-Case Maximum (Nom)	Order Code	Full Product Name	T-Case Maximum (Nom)
929001346302	MAS LEDtube HF 1500mm UO 36W 865 T5	-	929001391102	MAS LEDtube HF 1200mm HE 16.5W 840 T5	65 °C
929001390702	MAS LEDtube HF 600mm HE 8W 830 T5	65 °C	929001391202	MAS LEDtube HF 1200mm HE 16.5W 865 T5	65 °C
929001390802	MAS LEDtube HF 600mm HE 8W 840 T5	65 °C	929001391302	MAS LEDtube HF 1500mm HE 20W 830 T5	65 °C
929001390902	MAS LEDtube HF 600mm HE 8W 865 T5	65 °C	929001391402	MAS LEDtube HF 1500mm HE 20W 840 T5	65 °C
929001391002	MAS LEDtube HF 1200mm HE 16.5W 830 T5	65 °C	929001391502	MAS LEDtube HF 1500mm HE 20W 865 T5	65 °C

## Light Distribution Diagrams



**LEDtube 600mm 8W G5 830 1000lm**

