



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 fluorescents. The Philips MASTER LEDtube InstantFit T5 is the ideal solution for customers who have higher light output requirements and want to maximise value over the lifetime. The 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
- The fastest and easiest way to upgrade existing luminaires to LED technology, with a 100% safe installation process

Features

- A retrofit replacement for 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

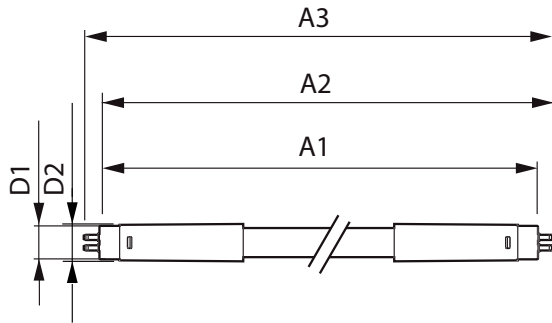
- The ideal solution for demanding applications with a need for extra energy savings: office, school, retail

MASTER LEDtube InstantFit HF T5

Versions



Dimensional drawing



Product	D1	D2	A1	A2	A3
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 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 1200mm HE 16.5W 840 T5	15.5 mm	18.8 mm	1149 mm	1156.1 mm	1163.2 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 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 InstantFit HF T5

Operating and Electrical	
Starting Time (Nom)	0.5 s
General Information	
Cap-Base	G5
Switching Cycle	50,000X
Light Technical	
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-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)
70599500	Master LEDtube HF 1500mm UO 36W 830 T5	42 kWh	A++
70603900	Master LEDtube HF 1500mm UO 36W 840 T5	42 kWh	A++
70605300	Master LEDtube HF 1500mm UO 36W 865 T5	42 kWh	A++
74329400	Master LEDtube HF 1200mm HE 16.5W 830 T5	20 kWh	A+
74331700	Master LEDtube HF 1200mm HE 16.5W 840 T5	20 kWh	A++
74333100	Master LEDtube HF 1200mm HE 16.5W 865 T5	20 kWh	A++
74335500	Master LEDtube HF 1500mm HE 20W 830 T5	24 kWh	A+
74337900	Master LEDtube HF 1500mm HE 20W 840 T5	24 kWh	A++
74339300	Master LEDtube HF 1500mm HE 20W 865 T5	24 kWh	A++
74953800	Master LEDtube HF 1200mm HO 26W 840 T5 OE	31 kWh	A++
74959000	Master LEDtube HF 1500mm HO 26W 840 T5 OE	31 kWh	A++

Controls and Dimming

Order Code	Full Product Name	Dimmable
70599500	Master LEDtube HF 1500mm UO 36W 830 T5	No
70603900	Master LEDtube HF 1500mm UO 36W 840 T5	No
70605300	Master LEDtube HF 1500mm UO 36W 865 T5	No
74329400	Master LEDtube HF 1200mm HE 16.5W 830 T5	No
74331700	Master LEDtube HF 1200mm HE 16.5W 840 T5	No
74333100	Master LEDtube HF 1200mm HE 16.5W 865 T5	No
74335500	Master LEDtube HF 1500mm HE 20W 830 T5	No

Order Code	Full Product Name	Dimmable
74337900	Master LEDtube HF 1500mm HE 20W 840 T5	No
74339300	Master LEDtube HF 1500mm HE 20W 865 T5	No
74953800	Master LEDtube HF 1200mm HO 26W 840 T5 OE	Yes – Check ballast compatibility
74959000	Master LEDtube HF 1500mm HO 26W 840 T5 OE	Yes – Check ballast compatibility

Operating and Electrical

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated)
70599500	Master LEDtube HF 1500mm UO 36W 830 T5	40000-75000 Hz	65-75 V	36 W
70603900	Master LEDtube HF 1500mm UO 36W 840 T5	40000-75000 Hz	65-75 V	36 W
70605300	Master LEDtube HF 1500mm UO 36W 865 T5	40000-75000 Hz	65-75 V	36 W
74329400	Master LEDtube HF 1200mm HE 16.5W 830 T5	35000-70000 Hz	90-130 V	16.5 W
74331700	Master LEDtube HF 1200mm HE 16.5W 840 T5	35000-70000 Hz	90-130 V	16.5 W
74333100	Master LEDtube HF 1200mm HE 16.5W 865 T5	35000-70000 Hz	90-130 V	16.5 W

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Power (Rated)
74335500	Master LEDtube HF 1500mm HE 20W 830 T5	35000-70000 Hz	120-160 V	20 W
74337900	Master LEDtube HF 1500mm HE 20W 840 T5	35000-70000 Hz	120-160 V	20 W
74339300	Master LEDtube HF 1500mm HE 20W 865 T5	35000-70000 Hz	120-160 V	20 W
74953800	Master LEDtube HF 1200mm HO 26W 840 T5 OE	30 K to 60 K Hz	20-90 V	26 W
74959000	Master LEDtube HF 1500mm HO 26W 840 T5 OE	20 K to 140 K Hz	60-120 V	26 W

General Information

MASTER LEDtube InstantFit HF T5

Order Code	Full Product Name	Nominal Lifetime (Nom)
70599500	Master LEDtube HF 1500mm UO 36W 830 T5	60000 h
70603900	Master LEDtube HF 1500mm UO 36W 840 T5	60000 h
70605300	Master LEDtube HF 1500mm UO 36W 865 T5	60000 h
74329400	Master LEDtube HF 1200mm HE 16.5W 830 T5	50000 h
74331700	Master LEDtube HF 1200mm HE 16.5W 840 T5	50000 h
74333100	Master LEDtube HF 1200mm HE 16.5W 865 T5	50000 h

Order Code	Full Product Name	Nominal Lifetime (Nom)
74335500	Master LEDtube HF 1500mm HE 20W 830 T5	50000 h
74337900	Master LEDtube HF 1500mm HE 20W 840 T5	50000 h
74339300	Master LEDtube HF 1500mm HE 20W 865 T5	50000 h
74953800	Master LEDtube HF 1200mm HO 26W 840 T5 OE	60000 h
74959000	Master LEDtube HF 1500mm HO 26W 840 T5 OE	60000 h

Light Technical (1/2)

Order Code	Full Product Name	Beam	Correlated		Colour Rendering Index (Nom)
		Angle (Nom)	Colour Code	Colour Temperature (Nom)	
70599500	Master LEDtube HF 1500mm UO 36W 830 T5	160 °	830	3000 K	80
70603900	Master LEDtube HF 1500mm UO 36W 840 T5	160 °	841	4000 K	80
70605300	Master LEDtube HF 1500mm UO 36W 865 T5	160 °	865	6500 K	80
74329400	Master LEDtube HF 1200mm HE 16.5W 830 T5	200 °	830	3000 K	83
74331700	Master LEDtube HF 1200mm HE 16.5W 840 T5	200 °	841	4000 K	83
74333100	Master LEDtube HF 1200mm HE 16.5W 865 T5	200 °	865	6500 K	83

Order Code	Full Product Name	Beam	Correlated		Colour Rendering Index (Nom)
		Angle (Nom)	Colour Code	Colour Temperature (Nom)	
74335500	Master LEDtube HF 1500mm HE 20W 830 T5	200 °	830	3000 K	83
74337900	Master LEDtube HF 1500mm HE 20W 840 T5	200 °	841	4000 K	83
74339300	Master LEDtube HF 1500mm HE 20W 865 T5	200 °	865	6500 K	83
74953800	Master LEDtube HF 1200mm HO 26W 840 T5 OE	200 °	841	4000 K	80
74959000	Master LEDtube HF 1500mm HO 26W 840 T5 OE	200 °	841	4000 K	80

Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux (Nom)
70599500	Master LEDtube HF 1500mm UO 36W 830 T5	5200 lm
70603900	Master LEDtube HF 1500mm UO 36W 840 T5	5600 lm
70605300	Master LEDtube HF 1500mm UO 36W 865 T5	5600 lm
74329400	Master LEDtube HF 1200mm HE 16.5W 830 T5	2300 lm
74331700	Master LEDtube HF 1200mm HE 16.5W 840 T5	2500 lm
74333100	Master LEDtube HF 1200mm HE 16.5W 865 T5	2500 lm

Order Code	Full Product Name	Luminous Flux (Nom)
74335500	Master LEDtube HF 1500mm HE 20W 830 T5	2800 lm
74337900	Master LEDtube HF 1500mm HE 20W 840 T5	3000 lm
74339300	Master LEDtube HF 1500mm HE 20W 865 T5	3000 lm
74953800	Master LEDtube HF 1200mm HO 26W 840 T5 OE	3900 lm
74959000	Master LEDtube HF 1500mm HO 26W 840 T5 OE	3900 lm

Mechanical and Housing

Order Code	Full Product Name	Bulb Finish
70599500	Master LEDtube HF 1500mm UO 36W 830 T5	Frosted
70603900	Master LEDtube HF 1500mm UO 36W 840 T5	Frosted
70605300	Master LEDtube HF 1500mm UO 36W 865 T5	Frosted
74329400	Master LEDtube HF 1200mm HE 16.5W 830 T5	-
74331700	Master LEDtube HF 1200mm HE 16.5W 840 T5	-
74333100	Master LEDtube HF 1200mm HE 16.5W 865 T5	-

Order Code	Full Product Name	Bulb Finish
74335500	Master LEDtube HF 1500mm HE 20W 830 T5	-
74337900	Master LEDtube HF 1500mm HE 20W 840 T5	-
74339300	Master LEDtube HF 1500mm HE 20W 865 T5	-
74953800	Master LEDtube HF 1200mm HO 26W 840 T5 OE	Frosted
74959000	Master LEDtube HF 1500mm HO 26W 840 T5 OE	Frosted

MASTER LEDtube InstantFit HF T5

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
70599500	Master LEDtube HF 1500mm UO 36W 830 T5	75 °C
70603900	Master LEDtube HF 1500mm UO 36W 840 T5	75 °C
70605300	Master LEDtube HF 1500mm UO 36W 865 T5	75 °C
74329400	Master LEDtube HF 1200mm HE 16.5W 830 T5	65 °C
74331700	Master LEDtube HF 1200mm HE 16.5W 840 T5	65 °C
74333100	Master LEDtube HF 1200mm HE 16.5W 865 T5	65 °C
74335500	Master LEDtube HF 1500mm HE 20W 830 T5	65 °C
74337900	Master LEDtube HF 1500mm HE 20W 840 T5	65 °C
74339300	Master LEDtube HF 1500mm HE 20W 865 T5	65 °C
74953800	Master LEDtube HF 1200mm HO 26W 840 T5 OE	55 °C
74959000	Master LEDtube HF 1500mm HO 26W 840 T5 OE	50 °C

