



The new generation of energy-saving and affordable T5 mains tube lighting

Essential LED tubes T5 Mains

The Essential LEDtube T5 is an affordable LED solution suitable for replacing T5 fluorescent lamps. Thanks to a unique design, Philips Essential LED tube T5 Mains can be directly installed in luminaires operating on mains power connection. The product provides a natural lighting effect for use in general lighting applications, as well as instant energy savings – an environmentally friendly solution.

Benefits

- Up to 50% energy saving compared with conventional fluorescent systems
- Easy installation: retrofit replacement of existing T5 lamps improving the quality of light
- Lower maintenance costs

Features

- Retrofit solution with a long lifetime of 25,000 hrs
- Excellent quality of light with CRI >80
- High power factor >0,9
- Instant on, no flicker or buzz

Application

- Office, Shop, Education, Retail
- Industrial facilities and warehouses

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Versions



Dimensional drawing

A3

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 1200mm 13W840 G5 I	15.8 mm	21.0 mm	1148.0 mm	1155.0 mm	1162.0 mm
MASTER LEDtube 600mm 7.5W840 G5 I	15.8 mm	21.0 mm	548.0 mm	555.0 mm	562.0 mm
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Approval and Application	
Energy Efficiency Label (EEL)	A+
Controls and Dimming	
Dimmable	No
Operating and Electrical	
Input Frequency	50 to 60 Hz
Starting Time (Nom)	0.5 s
General Information	
Cap-Base	G5
Nominal Lifetime (Nom)	40000 h
Switching Cycle	50,000X
Light Technical	
Beam Angle (Nom)	160 °
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-Storage (Max)	65 °C
T-Storage (Min)	-40 °C

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
10873200	MASTER LEDtube 1200mm 13W840 G5 I	15 kWh
10875600	MASTER LEDtube 1200mm 13W865 G5 I	15 kWh
10974600	MASTER LEDtube 600mm 7.5W840 G5 I	9 kWh
10976000	MASTER LEDtube 600mm 7.5W865 G5 I	9 kWh

Operating and Electrical

Order Code	Full Product Name	Voltage (Nom)	Power (Rated) (Nom)
10873200	MASTER LEDtube 1200mm 13W840 G5 I	33 V	13 W
10875600	MASTER LEDtube 1200mm 13W865 G5 I	33 V	13 W

Order Code	Full Product Name	Voltage (Nom)	Power (Rated) (Nom)
10974600	MASTER LEDtube 600mm 7.5W840 G5 I	19 V	7.5 W
10976000	MASTER LEDtube 600mm 7.5W865 G5 I	19 V	7.5 W

Light Technical

Order Code	Full Product Name	Colour Code	Correlated Colour Temperature (Nom)	Luminous Flux (Nom)
10873200	MASTER LEDtube 1200mm 13W840 G5 I	841	4000 K	1600 lm
10875600	MASTER LEDtube 1200mm 13W865 G5 I	865	6500 K	1600 lm

Order Code	Full Product Name	Colour Code	Correlated Colour Temperature (Nom)	Luminous Flux (Nom)
10974600	MASTER LEDtube 600mm 7.5W840 G5 I	841	4000 K	800 lm
10976000	MASTER LEDtube 600mm 7.5W865 G5 I	865	6500 K	800 lm

Temperature

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Order Code	Full Product Name	T-Case Maximum (Nom)
10873200	MASTER LEDtube 1200mm 13W840 G5 I	50 °C
10875600	MASTER LEDtube 1200mm 13W865 G5 I	50 °C
10974600	MASTER LEDtube 600mm 7.5W840 G5 I	60 °C
10976000	MASTER LEDtube 600mm 7.5W865 G5 I	60 °C

