



The new generation of energy-saving and affordable T8 mains tube lighting

Essential LED tubes T8 Mains

The Essential LEDtube is an affordable LED solution suitable for an easy replacement of T8 fluorescent lamps. Thanks to a unique design, Philips Essential LED tube T8 Mains can be directly installed in luminaires operating on mains power connections. 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 T8 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
- Instant on, no flicker or buzz

Application

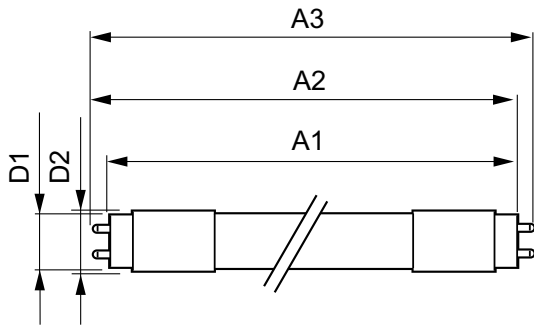
- Outdoor car parks and covered car parks, warehouses
- Retail, offices
- Public areas

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Versions



Dimensional drawing



Product	D1	D2	A1	A2	A3
ESSENTIAL LEDtube 1200mm 18W 865 T8C W	25.6 mm	27.8 mm	1199.4 mm	1205.3 mm	1213.6 mm
G					
ESSENTIAL LEDtube 600mm 9W 840 T8 C W G	25.6 mm	27.8 mm	589.8 mm	595.7 mm	604.0 mm
ESSENTIAL LEDtube 600mm 9W 865 T8 C W G	25.6 mm	27.8 mm	589.8 mm	595.7 mm	604.0 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

Voltage (Nom) 100-240 V

Starting Time (Nom) 0.5 s

General Information

Cap-Base G13

Switching Cycle 50000X

Light Technical

Beam Angle (Nom) 240 °

Colour Rendering Index (Nom) 82

Llmf At End Of Nominal Lifetime (Nom) 70 %

Temperature

T-Ambient (Max) 45 °C

T-Ambient (Min) -20 °C

T-Case Maximum (Nom) 70 °C

T-Storage (Max) 65 °C

T-Storage (Min) -40 °C

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
929001194511	ESSENTIAL LEDtube 1200mm 18W 865 T8C W G	18 kWh
929001194611	ESSENTIAL LEDtube 600mm 9W 840 T8 C W G	9 kWh
929001194711	ESSENTIAL LEDtube 600mm 9W 865 T8 C W G	9 kWh

Operating and Electrical

Order Code	Full Product Name	Power (Rated) (Nom)
929001194511	ESSENTIAL LEDtube 1200mm 18W 865 T8C W G	18 W
929001194611	ESSENTIAL LEDtube 600mm 9W 840 T8 C W G	9 W

Order Code	Full Product Name	Power (Rated) (Nom)
929001194711	ESSENTIAL LEDtube 600mm 9W 865 T8 C W G	9 W

General Information

Order Code	Full Product Name	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
929001194511	ESSENTIAL LEDtube 1200mm 18W 865 T8C W G	30000 h	30000 h
929001194611	ESSENTIAL LEDtube 600mm 9W 840 T8 C W G	25000 h	25000 h

Order Code	Full Product Name	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
929001194711	ESSENTIAL LEDtube 600mm 9W 865 T8 C W G	30000 h	30000 h

Light Technical (1/2)

Order Code	Full Product Name	Colour Code	Correlated Colour Temperature (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
929001194511	ESSENTIAL LEDtube 1200mm 18W 865 T8C W G	865	6500 K	1850 lm	1850 lm

Order Code	Full Product Name	Colour Code	Correlated Colour Temperature (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
929001194611	ESSENTIAL LEDtube 600mm 9W 840 T8 C W G	840	4000 K	900 lm	900 lm

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Order Code	Full Product Name	Colour Code	Correlated	Luminous	
			Colour Temperature (Nom)	Flux (Nom)	Flux (Rated)
929001194711	ESSENTIAL LEDtube 600mm 9W 865 T8 C W G	865	6500 K	900 lm	900 lm

Light Technical (2/2)

Order Code	Full Product Name	Rated Beam Angle
929001194511	ESSENTIAL LEDtube 1200mm 18W 865 T8C W G	-
929001194611	ESSENTIAL LEDtube 600mm 9W 840 T8 C W G	240 °
929001194711	ESSENTIAL LEDtube 600mm 9W 865 T8 C W G	-

