



# 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

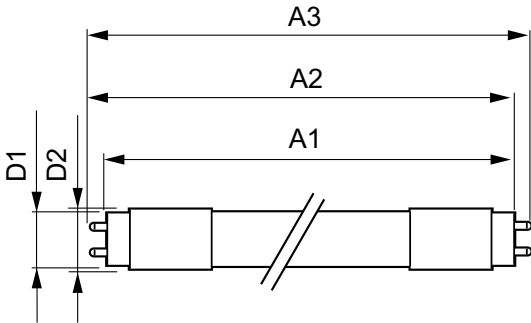
- Outdoor car parks and covered car parks, warehouses
- Retail, offices
- Public areas

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## Versions



## Dimensional drawing



Product	D1	D2	A1	A2	A3
ESSENTIAL LEDtube	25.6	27.8	1199.4	1205.3	1213.6 mm
1200mm 18W 865 T8C W	mm	mm	mm	mm	
G					
ESSENTIAL LEDtube	25.6	27.8	589.8 mm	595.7 mm	604.0
600mm 9W 865 T8 C W G	mm	mm			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
Nominal Lifetime (Nom)	30000 h
Rated Lifetime (Hours)	30000 h
Switching Cycle	50000X
Light Technical	
Beam Angle (Nom)	240 °
Colour Code	865
Correlated Colour Temperature (Nom)	6500 K
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
52819800	ESSENTIAL LEDtube 1200mm 18W 865 T8C W G	18 kWh
52789400	ESSENTIAL LEDtube 600mm 9W 865 T8 C W G	9 kWh

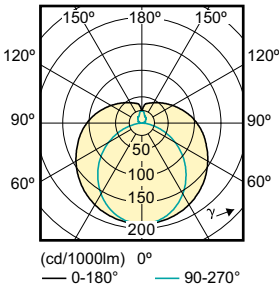
Operating and Electrical

Order Code	Full Product Name	Power (Rated) (Nom)
52819800	ESSENTIAL LEDtube 1200mm 18W 865 T8C W G	18 W

Order Code	Full Product Name	Power (Rated) (Nom)
52789400	ESSENTIAL LEDtube 600mm 9W 865 T8 C W G	9 W

Light Technical

Order Code	Full Product Name	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
52819800	ESSENTIAL LEDtube 1200mm 18W 865 T8C W G	1850 lm	1850 lm
52789400	ESSENTIAL LEDtube 600mm 9W 865 T8 C W G	900 lm	900 lm



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