



# Essential LEDtube - Affordable LED solution

## Essential LEDtube

Essential LEDtube is an affordable LED tube that is suitable for replacing T8 fluorescent lamps. The product provides a natural lighting effect for use in general lighting applications, as well as instant energy savings – an environmentally friendly solution.

### Benefits

- Reduced electricity costs thanks to significant energy savings
- Longer lifetime minimizes re-lamping for reduced maintenance costs
- A better choice for the environment – no mercury

### Features

- Affordable LED replacement for T8 fluorescent lamps
- Energy consumption less than half that of normal fluorescent lamps
- 25,000 hours lifetime, double that of normal fluorescent lamps
- No mercury; glass-free tube – no breakage concerns

### Application

- Retail, offices
- Industry, warehouses, public places, schools, hospitals, car parks

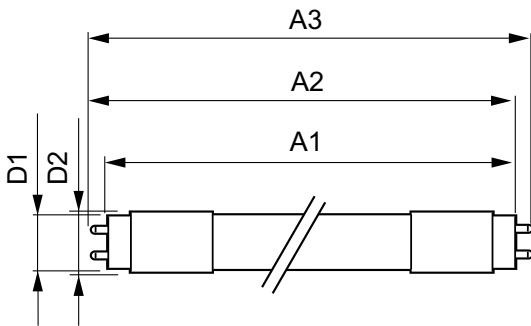
# Essential LEDtube

## Versions



G13

## Dimensional drawing



| Product                        | D1       | D2    | A1      | A2      | A3      |
|--------------------------------|----------|-------|---------|---------|---------|
| 20T12 EM LED/48-3000 IF G 10/1 | 25.68 mm | 28 mm | 1198 mm | 1205 mm | 1212 mm |
| 20T12 EM LED/48-3500 IF G 10/1 | 25.68 mm | 28 mm | 1198 mm | 1205 mm | 1212 mm |

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## Approval and Application

Energy Efficiency Label (EEL) A+

## Controls and Dimming

Dimmable No

## Operating and Electrical

Input Frequency 60 Hz  
 Voltage (Nom) 120-277 V  
 Power (Rated) (Nom) 20 W  
 Starting Time (Nom) 0.5 s

## General Information

Cap-Base G13  
 Nominal Lifetime (Nom) 36000 h  
 Rated Lifetime (Hours) 36000 h  
 Switching Cycle 50000X

## Light Technical

Color Rendering Index (Nom) 82  
 Lmf At End Of Nominal Lifetime (Nom) 70 %  
 Luminous Flux (Nom) 2000 lm  
 Luminous Flux (Rated) (Nom) 2000 lm

## Temperature

T-Ambient (Max) 45 °C  
 T-Ambient (Min) -20 °C  
 T-Case Maximum (Nom) 65 °C  
 T-Storage (Max) 65 °C  
 T-Storage (Min) -40 °C

## Light Technical

| Order Code | Full Product Name              | Color Code | Correlated Color Temperature (Nom) |
|------------|--------------------------------|------------|------------------------------------|
| 469056     | 20T12 EM LED/48-3000 IF G 10/1 | 830        | 3000 K                             |
| 469064     | 20T12 EM LED/48-3500 IF G 10/1 | 835        | 3500 K                             |

