PHILIPS

Lighting

# T12

## 20T12 EM LED/48-4000 IFG 10/1

Philips UniversalFit TLEDs offer unique ballast compatibility working with both electronic (instant-start) and magnetic ballasts while meeting the revised UL1993 standards. The UniversalFit TLEDs are engineered to deliver excellent lighting effects and substantial energy savings while providing unmatched user & installer safety.

### Product data

| General Information | |
|---|---|
| **Cap-Base** | G13 [Medium Bi-Pin Fluorescent] |
| **Nominal lifetime** | 36,000 hour(s) |
| **Switching Cycle** | 50,000 |
| **Lighting Technology** | LED |
| **EU RoHS compliant** | Yes |

| Light Technical | |
|---|---|
| **Color Code** | 840 [CCT of 4000K] |
| **Beam Angle (Nom)** | 240 degree(s) |
| **Luminous Flux** | 2,100 lm |
| **Color Designation** | Cool White (CW) |
| **Correlated Color Temperature (Nom)** | 4000 K |
| **Luminous Efficacy (rated) (Nom)** | 105.00 lm/W |
| **Color Consistency** | <6 |
| **Color rendering index (CRI)** | 82 |
| **LLMF At End Of Nominal Lifetime (Nom)** | 70 % |

| Operating and Electrical | |
|---|---|
| **Line Frequency** | 60 Hz |
| **Input Frequency** | 60 Hz |
| **Power Consumption** | 20 W |
| **Lamp Current (Max)** | 220 mA |
| **Lamp Current (Min)** | 90 mA |
| **Starting Time (Nom)** | 0.5 s |
| **Warm-up time to 60% light** | 0.5 s |
| **Power Factor (Fraction)** | 0.5 |
| **Voltage (Nom)** | 120-277 V |

| Temperature | |
|---|---|
| **Ambient temperature range** | -20 °C to 35 °C |
| **T-Case Maximum (Nom)** | 65 °C |

| Controls and Dimming | |
|---|---|
| **Dimmable** | No |

| Mechanical and Housing | |
|---|---|
| **Product Length** | 1,200 mm |
| **Bulb Shape** | Tube, double-ended |

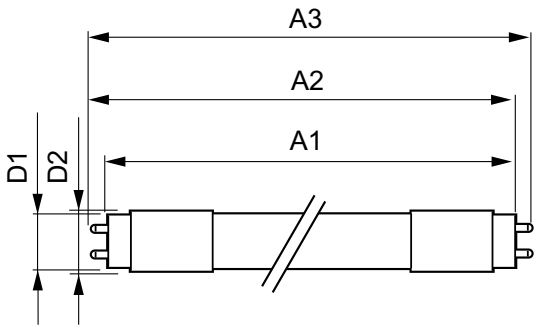
| Approval and Application | |
|---|---|
| **Energy Saving Product** | Yes |
| **Approval Marks** | RoHS compliance UL certificate |
| **Energy Consumption kWh/1000 h** | 20 kWh |

# T12

| Product Data | |
|---|---|
| Order product name | 20T12 EM LED/48-4000 IF G 10/1 |
| Full product name | 20T12 EM LED/48-4000 IFG 10/1 |
| Order code | 463117 |
| Material Nr. (12NC) | 929001226504 |
| Numerator - Quantity Per Pack | 1 |

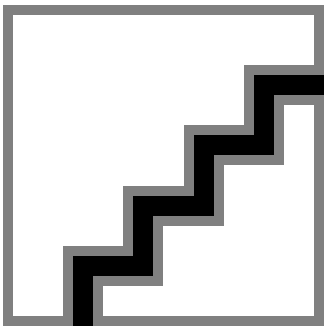
| | |
|---|---|
| EAN/UPC - Product/Case | 046677463113 |
| Numerator - Packs per outer box | 10 |
| EAN/UPC - Case | 50046677463118 |

## Dimensional drawing

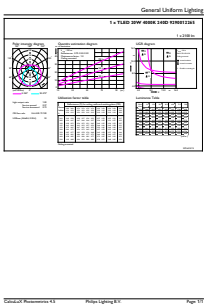



| Product | D1 | D2 | A1 | A2 | A3 |
|---|---|---|---|---|---|
| 20T12 EM LED/48-4000 IF G 10/1 | 26 mm | 28 mm | 1,198 mm | 1,205 mm | 1,212 mm |

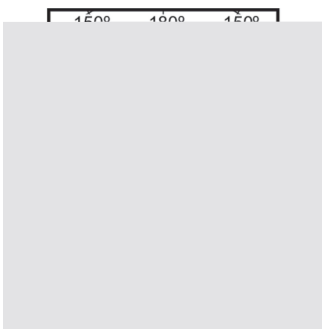
## Photometric data



Spectral Power Distribution Colour - 20T12 EM LED/48-4000 IF G 10/1



General uniform lighting - 20T12 EM LED/48-4000 IF G 10/1



Light Distribution Diagram - 20T12 EM LED/48-4000 IF G 10/1

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www.lighting.philips.com
2023, May 15 - data subject to change