Introducing Philips MainsFit (UL Type B) MasterClass T8 LED tubes with industry leading reliability, shatter-prevention and lifetime. The UL Type B LED tubes are designed with easy installation and long-term maintenance simplicity in mind. Upgrade your lighting to MasterClass and realize 70,000 hour LED lifetime backed by a 7-year, full replacement limited warranty (see www.philips.com/mainsfit for more info).

**Product data**

**General Information**
- **Base**: G13 (Medium Bi-Pin fluorescent)
- **EU RoHS compliant**: Yes
- **Nominal Lifetime (Nom)**: 70,000 h
- **Switching Cycle**: 50000X
- **Technical Type**: 14.5-32W

**Light Technical**
- **Color Code**: 841 (CCT of 4100K (841))
- **Beam Angle (Nom)**: 180°
- **Initial lumen (Nom)**: 2100 lm
- **Luminous Flux (Rated) (Nom)**: 2100 lm
- **Color Designation**: Cool White (CW)
- **Correlated Color Temperature (Nom)**: 4000 K
- **Luminous Efficacy (rated) (Nom)**: 144.00 lm/W
- **Color Consistency**: <6
- **Color Rendering Index (Nom)**: 80
- **LLMF At End Of Nominal Lifetime (Nom)**: 70%

**Operating and Electrical**
- **Input Frequency**: 50 to 60 Hz
- **Power (Rated) (Nom)**: 14.5 W
- **Lamp Current (Max)**: 125 mA
- **Lamp Current (Min)**: 54 mA
- **Starting Time (Nom)**: 0.5 s
- **Warm Up Time to 60% Light (Nom)**: 0.10 s
- **UL Type**: Type B - bypass the ballast
- **Power Factor (Nom)**: 0.9
- **Voltage (Nom)**: 120-277 V

**Temperature**
- **T-Ambient (Max)**: 45 °C
- **T-Ambient (Min)**: -20 °C
- **T-Storage (Max)**: 65 °C
- **T-Storage (Min)**: -40 °C
- **T-Case Maximum (Nom)**: 70 °C

**Controls and Dimming**
- **Dimmable**: No

Datasheet, 2020, October 22
### Mechanical and Housing

- **Product Length**: 48 in

### Approval and Application

- **Energy Efficiency Label (EEL)**: Not applicable
- **Energy Saving Product**: Yes
- **Approbation Marks**: RoHS compliance, UL certificate, DLC compliance
- **Energy Consumption kWh/1000 h**: - kWh

### Product Data

- **Order product name**: 14.5T8/MAS/48-840/MF21/P 10/1
- **EAN/UPC - Product**: 046677557409
- **Order code**: 557405
- **Numerator - Quantity Per Pack**: 1
- **Numerator - Packs per outer box**: 10
- **Material Nr. (12NC)**: 929002325604
- **Net Weight (Piece)**: 0.120 kg
- **Model Number**: 9290023256

### Dimensional drawing

**Product**

<table>
<thead>
<tr>
<th>D1</th>
<th>D2</th>
<th>A1</th>
<th>A2</th>
<th>A3</th>
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<tbody>
<tr>
<td>14.5T8/MAS/48-840/MF21/P</td>
<td>25.7 mm</td>
<td>28 mm</td>
<td>1198 mm</td>
<td>1205 mm</td>
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<tr>
<td>10/1</td>
<td>800</td>
<td>700</td>
<td>600</td>
<td>500</td>
</tr>
</tbody>
</table>

**TLED T8 120-277V 14.5-32W 2100lm 4000K**

### Photometric data

- **LEDtube_14.5W_G13_840-GUL**
- **LEDtube_G13_840-POC**
Photometric data

![Photometric data diagram](LEDtube_G13_1-LDD)

**Lifetime**

![Lifetime graph](LEDtube_70K_1_LumenVsTc-LMP)

![Lifetime graph](LEDtube_70K-LifetimeVsTc-LED)

![Failure rate graph](LEDtube_70K_FailureRate-LED)
Lifetime

![Lifetime Graph]

LEDtube_70K-LMP