Our TLEDs are available in InstantFit (Type A / Type C) or MainsFit (Ballast bypass / Type B) versions. The InstantFit lamps work on a broad variety of ballasts and LED drivers. Only InstantFit has over 15,000 lamp & ballast combinations delivering even light output, energy savings and a long lifetime. Our MainsFit products feature a double-ended design, simplifying installation while a proprietary safety circuit minimizes a shock risk. Lamp sizes range from 2-foot to 8-foot and U-bend with a variety of lumen outputs.

### Product data

#### General Information
- **Base**: G13 [Medium Bi-Pin Fluorescent]
- **EU RoHS compliant**: Yes
- **Nominal Lifetime (Nom)**: 36000 h
- **Switching Cycle**: 50000X

#### Light Technical
- **Color Code**: 841 [CCT of 4100K (841)]
- **Beam Angle (Nom)**: 240°
- **Initial lumen (Nom)**: 1800 lm
- **Color Designation**: Cool White (CW)
- **Correlated Color Temperature (Nom)**: 4000 K
- **Luminous Efficacy (rated) (Nom)**: 112.00 lm/W
- **Color Consistency**: <6
- **Color Rendering Index (Nom)**: 80
- **LLMF At End Of Nominal Lifetime (Nom)**: 70%

#### Operating and Electrical
- **Input Frequency**: 20K to 120K Hz
- **Power (Rated) (Nom)**: 16 W

#### Lamp Current (Max)
- **Lamp Current (Max)**: 330 mA
- **Lamp Current (Min)**: 110 mA
- **Starting Time (Nom)**: 0.5 s
- **Warm Up Time to 60% Light (Nom)**: 0.5 s
- **UL Type**: Type A - works on ballast
- **Power Factor (Nom)**: 0.9
- **Voltage (Nom)**: 120-277, 347 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)**: 35 °C

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

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Datasheet, 2020, November 18  
data subject to change
### 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 |
| Energy Consumption kWh/1000 h | kWh |

### Product Data

| Order product name | 16T8/LED/48-840/IF18/G 25/1 |

### Dimensional drawing

**TLED 1200mm T8 120-277 16W 1800lm 4000K**

### Photometric data

**LEDtubes 1200mm T8 120-277 16W 1800lm 4000K**
Photometric data

LEDtubes 1200mm T8 120-277 16W 1800lm 4000K

Lifetime

LEDtubes 1200mm T8 120-277 16W 1800lm 4000K

LEDtubes 1200mm T8 120-277 16W 1800lm 4000K
Lifetime

<table>
<thead>
<tr>
<th>Lumen in %</th>
<th>Burning hours</th>
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<tbody>
<tr>
<td>50</td>
<td>0 10000 20000 30000 40000 50000 60000</td>
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<tr>
<td>60</td>
<td></td>
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<tr>
<td>90</td>
<td></td>
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<tr>
<td>100</td>
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</tr>
</tbody>
</table>

LEDtubes 1200mm T8 120-277 16W 1800lm 4000K