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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>G13 [ Medium Bi-Pin Fluorescent]</td>
</tr>
<tr>
<td>EU RoHS compliant</td>
<td>Yes</td>
</tr>
<tr>
<td>Nominal Lifetime (Nom)</td>
<td>70000 h</td>
</tr>
<tr>
<td>Switching Cycle</td>
<td>50000X</td>
</tr>
</tbody>
</table>

#### Light Technical

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Code</td>
<td>830 [ CCT of 3000K]</td>
</tr>
<tr>
<td>Beam Angle (Nom)</td>
<td>180 °</td>
</tr>
<tr>
<td>Initial lumen (Nom)</td>
<td>1150 lm</td>
</tr>
<tr>
<td>Color Designation</td>
<td>White (WH)</td>
</tr>
<tr>
<td>Correlated Color Temperature (Nom)</td>
<td>3000 K</td>
</tr>
<tr>
<td>Luminous Efficacy (rated) (Nom)</td>
<td>157.00 lm/W</td>
</tr>
<tr>
<td>Color Consistency</td>
<td>&lt;6</td>
</tr>
<tr>
<td>Color Rendering Index (Nom)</td>
<td>80</td>
</tr>
<tr>
<td>LLMF At End Of Nominal Lifetime (Nom)</td>
<td>70 %</td>
</tr>
</tbody>
</table>

#### Operating and Electrical

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Frequency</td>
<td>20K to 120K Hz</td>
</tr>
<tr>
<td>Power (Rated) (Nom)</td>
<td>7 W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lamp Current (Max)</td>
<td>240 mA</td>
</tr>
<tr>
<td>Lamp Current (Min)</td>
<td>80 mA</td>
</tr>
<tr>
<td>Starting Time (Nom)</td>
<td>0.5 s</td>
</tr>
<tr>
<td>Warm Up Time to 60% Light (Nom)</td>
<td>0.5 s</td>
</tr>
<tr>
<td>UL Type</td>
<td>Type A - works on ballast Type C - works with dedicated LED driver Type A+C - works with both ballasts and the LED driver</td>
</tr>
<tr>
<td>Power Factor (Nom)</td>
<td>0.9</td>
</tr>
<tr>
<td>Voltage (Nom)</td>
<td>120-277, 347 V</td>
</tr>
</tbody>
</table>

#### Controls and Dimming

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimmable</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Datasheet, 2020, November 18
T8

### Mechanical and Housing

| Product Length | 24 in |

### Approval and Application

| Energy Efficiency Label (EEL) | Not applicable |
| Energy Saving Product | Yes |
| Approval Marks | RoHS compliance UL certificate |
| Energy Consumption kWh/1000 h | kWh |
| Energy Certifications | DLC Standard |

### Product Data

| Order product name | 7T8/MAS/24-830/IF10/P/DIM 10/1 |

### Dimensional drawing

![Dimensional drawing](image)

TLED IF MasterClass 2ft 1000lm 3000K

### Photometric data

![Photometric data](image)

G13 3000K 1100lm

G13 4000K
Photometric data

![Graph showing photometric data with wavelength (nm) on the x-axis and intensity (%) on the y-axis, demonstrating the relationship between wavelength and intensity for different temperatures.]

G13 3000K 1100lm

Lifetime

![Graphs showing lifetime in hours as a function of temperature (°C) for different luminous efficiencies and failure rates in percentage, illustrating the impact of temperature on the lifespan and failure rate of the lamps.]

G13 4000K

Datasheet, 2020, November 18
**Lifetime**

![Graph showing the lumen in percent over burning hours for G13 4000K T8 bulbs.](image)

G13 4000K