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

<table>
<thead>
<tr>
<th>General Information</th>
<th></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>

<table>
<thead>
<tr>
<th>Light Technical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Color Code</td>
<td>841 [ CCT of 4100K (841)]</td>
</tr>
<tr>
<td>Beam Angle (Nom)</td>
<td>180 °</td>
</tr>
<tr>
<td>Initial lumen (Nom)</td>
<td>1400 lm</td>
</tr>
<tr>
<td>Color Designation</td>
<td>Cool White (CW)</td>
</tr>
<tr>
<td>Correlated Color Temperature (Nom)</td>
<td>4000 K</td>
</tr>
<tr>
<td>Luminous Efficacy (rated) (Nom)</td>
<td>164.00 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>

<table>
<thead>
<tr>
<th>Operating and Electrical</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Frequency</td>
<td>20K to 120K Hz</td>
</tr>
<tr>
<td>Power (Rated) (Nom)</td>
<td>8.5 W</td>
</tr>
</tbody>
</table>

| Starting Time (Nom)       | 0.5 s          |
| Warm Up Time to 60% Light (Nom) | 0.5 s       |
| UL Type                   | Type A - works on ballast Type C - works with dedicated LED driver Type A+C - works with both ballasts and the LED driver |
| Power Factor (Nom)        | 0.9            |
| Voltage (Nom)             | 120-277, 347 V |

<table>
<thead>
<tr>
<th>Temperature</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>T-Ambient (Max)</td>
<td>45 °C</td>
</tr>
<tr>
<td>T-Ambient (Min)</td>
<td>-20 °C</td>
</tr>
<tr>
<td>T-Storage (Max)</td>
<td>65 °C</td>
</tr>
<tr>
<td>T-Storage (Min)</td>
<td>-40 °C</td>
</tr>
<tr>
<td>T-Case Maximum (Nom)</td>
<td>50 °C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Controls and Dimming</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimmable</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Datasheet, 2020, July 16**

**data subject to change**
### Mechanical and Housing

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Length</td>
<td>900 mm</td>
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</table>

### Approval and Application

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Efficiency Label (EEL)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Energy Saving Product</td>
<td>Yes</td>
</tr>
<tr>
<td>Approval Marks</td>
<td>RoHS compliance, UL certificate, DLC compliance</td>
</tr>
<tr>
<td>Energy Consumption kWh/1000 h</td>
<td>- kWh</td>
</tr>
<tr>
<td>Energy Certifications</td>
<td>DLC Standard</td>
</tr>
</tbody>
</table>

### Product Data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Order product name</td>
<td>8.5T8/MAS/36-840/IF14/P/DIM 10/1</td>
</tr>
<tr>
<td>EAN/UPC - Product</td>
<td>046677539870</td>
</tr>
<tr>
<td>Order code</td>
<td>539874</td>
</tr>
<tr>
<td>Numerator - Quantity Per Pack</td>
<td>1</td>
</tr>
<tr>
<td>Numerator - Packs per outer box</td>
<td>10</td>
</tr>
<tr>
<td>Material Nr. (12NC)</td>
<td>929001967604</td>
</tr>
<tr>
<td>Net Weight (Piece)</td>
<td>0.160 kg</td>
</tr>
<tr>
<td>Model Number</td>
<td>9290019676</td>
</tr>
</tbody>
</table>

### Dimensional drawing

![Dimensional drawing](image)

**TLED IF MasterClass 3ft 1400lm 4000K**

### Photometric data

![Photometric data](image)

**G13 4000K 1400lm**

**G13 4000K 1400lm**

Datasheet, 2020, July 16  
Data subject to change
Photometric data

G13 4000K

Lifetime

Lumen (%)

G13 4000K  

Failure rate in %

G13 4000K  

Lumen (%)

Time (hours)

G13 4000K  

Failure rate in %

G13 4000K  

Datasheet, 2020, July 16

Data subject to change