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)**: 70000 h
- **Switching Cycle**: 50000X

#### Light Technical
- **Color Code**: 841 [CCT of 4100K (841)]
- **Beam Angle (Nom)**: 180 °
- **Initial lumen (Nom)**: 2100 lm
- **Color Designation**: Cool White (CW)
- **Correlated Color Temperature (Nom)**: 4000 K
- **Luminous Efficacy (rated) (Nom)**: 161.00 lm/W
- **Color Consistency**: <6
- **Color Rendering Index (Nom)**: 82
- **LLMF At End Of Nominal Lifetime (Nom)**: 70 %

#### Operating and Electrical
- **Input Frequency**: 20000-120000 Hz
- **Power (Rated) (Nom)**: 13 W

#### 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)
- **Power Factor (Nom)**: 0.9

#### Voltage (Nom)
- **Voltage (Nom)**: 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)**: 50 °C

#### Controls and Dimming
- **Dimmable**: Yes
### Mechanical and Housing

| Product Length | 48 in |

### Approval and Application

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

### Dimensional drawing

![Dimensional drawing](image)

#### TLED IF MasterClass 4ft 2100lm 4000K

### Photometric data

![Photometric data](image)

#### LEDtube 13W G13 2100lm

### Product Data

| Order product name | 13T8/MAS/48-840/IF21/P/DIM 10/1 |
| EAN/UPC - Product | 046677473945 |
| Order code | 473942 |
| Numerator - Quantity Per Pack | 1 |
| Numerator - Packs per outer box | 10 |
| Material Nr. (12NC) | 929001397834 |
| Net Weight (Piece) | 0.220 kg |
| Model Number | 92900139788 |

### Product Table

<table>
<thead>
<tr>
<th>Product</th>
<th>D1</th>
<th>D2</th>
<th>A1</th>
<th>A2</th>
<th>A3</th>
</tr>
</thead>
<tbody>
<tr>
<td>13T8/MAS/48-840/IF21/P/DIM 10/1</td>
<td>25.7 mm</td>
<td>26.3 mm</td>
<td>1198.1 mm</td>
<td>1205.2 mm</td>
<td>1212.3 mm</td>
</tr>
</tbody>
</table>

*Data subject to change*
Photometric data

![Photometric data graph]

LEDtube 13W G13 2100lm

Lifetime

![Lifetime graph]

LEDtube 13W G13 2100lm

Failure rate in %

![Failure rate graph]

LEDtube 13W G13 2100lm

Lumen in %

![Lumen graph]

LEDtube 13W G13 2100lm

Datasheet, 2020, November 18

Data subject to change
**Lifetime**

![Graph showing the relationship between Lumen (%) and Tc(°C) for LEDtube 13W G13 2100lm.](image)

**LEDtube 13W G13 2100lm**