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**: 835 [CCT of 3500K]
- **Beam Angle (Nom)**: 180 °
- **Initial lumen (Nom)**: 1350 lm
- **Color Designation**: White (WH)
- **Correlated Color Temperature (Nom)**: 3500 K
- **Luminous Efficacy (rated) (Nom)**: 152.00 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)**: 8.5 W

#### 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)**: 50 °C

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

#### Mechanical and Housing
- **Bulb Material**: Plastic
- **Product Length**: 36 in

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Datasheet, 2021, April 15  
data subject to change
T8

### Approval and Application

<table>
<thead>
<tr>
<th>Energy Efficiency Label (EEL)</th>
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<tr>
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<td>RoHS compliance UL certificate DLC compliance</td>
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<td>Energy Consumption kWh/1000 h</td>
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<td>Energy Certifications</td>
<td>DLC Standard</td>
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### Product Data

| Order product name | 8.5T8/MAS/36–835/IF13/P/DIM 10/1 |

#### Dimensional drawing

![Dimensional drawing](image)

TLED IF MasterClass 3ft 1300lm 3500K

#### Photometric data

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<th>Wavelength (nm)</th>
<th>Intensity (%)</th>
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G13 3500K 1300lm

G13 3500K 1300lm

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Datasheet, 2021, April 15

Data subject to change
Photometric data

Lifetime

T8
Lifetime

![Graph showing lifetime in Lumen in % over burning hours]

G13 4000K

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