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

#### Light Technical
- **Color Code**: 830 [CCT of 3000K]
- **Beam Angle (Nom)**: 240°
- **Initial lumen (Nom)**: 1700 lm
- **Color Designation**: White (WH)
- **Correlated Color Temperature (Nom)**: 3000 K
- **Luminous Efficacy (rated) (Nom)**: 141.00 lm/W
- **Color Consistency**: <6
- **Color Rendering Index (Nom)**: 80
- **LLMF At End Of Nominal Lifetime (Nom)**: 70 %

#### Operating and Electrical
- **Input Frequency**: 50 to 60 Hz
- **Power (Rated) (Nom)**: 12 W
- **Lamp Current (Max)**: 120 mA
- **Lamp Current (Min)**: 40 mA
- **Starting Time (Nom)**: 0.5 s
- **Warm Up Time to 60% Light (Nom)**: 0.5 s
- **UL Type**: Type B - bypass the ballast
- **Power Factor (Nom)**: 0.9
- **Voltage (Nom)**: 120-277 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)**: 70 °C

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

| Product Length       | 48 in |

**Approval and Application**

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

**Product Data**

| Order product name | 12T8/MAS/48-830/MF17/G 10/1 |

**Dimensional drawing**

```plaintext
A3
```

**Photometric data**

**Performance TypeB 1800lm 12W**

**T8**

[Datasheet, 2020, June 18]  
Data subject to change
**Lifetime**

![Graph showing the relationship between burning hours and Lumen in % for LEDtube PRO 12W G13 830 24D ND.](image-url)

LEDtube PRO 12W G13 830 24D ND