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**: 841 [CCT of 4100K (841)]
- **Beam Angle (Nom)**: 180 °
- **Initial lumen (Nom)**: 1600 lm
- **Color Designation**: Cool White (CW)
- **Correlated Color Temperature (Nom)**: 4000 K
- **Luminous Efficacy (rated) (Nom)**: 160.00 lm/W
- **Color Consistency**: <6
- **Color Rendering Index (Nom)**: 82
- **LLMF At End Of Nominal Lifetime (Nom)**: 70%

#### Operating and Electrical
- **Input Frequency**: 50 to 60 Hz
- **Power (Rated) (Nom)**: 10 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)**: 40 °C

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

#### Mechanical and Housing
- **Bulb Material**: Plastic
- **Product Length**: 48 in
**Approval and Application**

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**Dimensional drawing**

LEDtube 1200mm 12W G13/840

**Photometric data**

LEDtube 1200mm 12W G13 840 1600lm
Photometric data

LEDtube 1200mm 12W G13 840 1600lm

Lifetime

LEDtube HF 1500mm 26W G5 T5

LEDtube 1200mm 14-32W G13