



Simple installation, no hidden costs and maximum maintenance savings

MasterClass LEDtube Mains T8

Philips MasterClass MainsFit (UL Type-B) T8 LED lamps use a double-ended design which significantly simplifies installation, saving installation time and costs. This ballast bypass product replaces either T8 or T12 lamps in fixtures containing shunted or non-shunted G13 (medium bi-pin) lamp holders for over 40% energy savings.

Benefits

- Reliable performance - color and lumen maintenance
- Double-ended design installs in about half the time as single-ended type-B solutions
- Reduces lighting complexity by eliminating the ballast

Features

- Operates on both shunted and non-shunted sockets, which means no need to replace sockets
- DLC, NSF and RoHS listed
- Philips proprietary safety features
- 5-year warranty and 50,000-hour life standard

Application

- Office and Retail
- Industrial and warehouses
- Parking lots and covered car parks

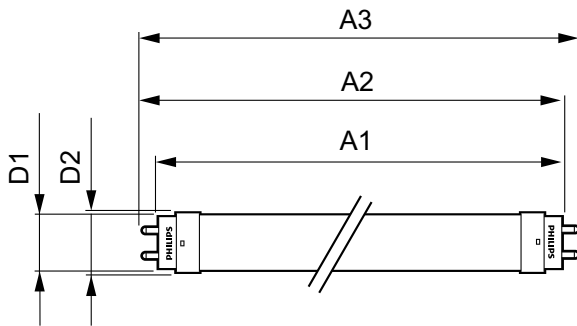
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Versions



LEDtube G13

Dimensional drawing



Product	D1	D2	A1	A2	A3
12T8/PER/48-830/BB17/G 10/1 FB	25.7 mm	28 mm	1198 mm	1205 mm	1212 mm
12T8/PER/48-850/BB18/G 10/1 FB	25.7 mm	28 mm	1198 mm	1205 mm	1212 mm
12T8/MAS/48-830/MF17/G 10/1	25.7 mm	28 mm	1198 mm	1205 mm	1212 mm
12T8/MAS/48-835/MF17/G 10/1	25.7 mm	28 mm	1198 mm	1205 mm	1212 mm
12T8/MAS/48-840/MF18/G 10/1	25.7 mm	28 mm	1198 mm	1205 mm	1212 mm
12T8/MAS/48-850/MF18/G 10/1	25.7 mm	28 mm	1198 mm	1205 mm	1212 mm

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Controls and Dimming

Dimmable No

Operating and Electrical

Input Frequency 50 to 60 Hz

Voltage (Nom) 120-277 V

Power (Rated) (Nom) 12 W

Starting Time (Nom) 0.5 s

General Information

Cap-Base G13

Nominal Lifetime (Nom) 50000 h

Rated Lifetime (Hours) 50000 h

Switching Cycle 50000X

Light Technical

Beam Angle (Nom) 240 °

Color Rendering Index (Nom) 80

Llmf At End Of Nominal Lifetime (Nom) 70 %

Rated Beam Angle 240 °

Temperature

T-Ambient (Max) 45 °C

T-Ambient (Min) -20 °C

T-Case Maximum (Nom) 70 °C

T-Storage (Max) 65 °C

T-Storage (Min) -40 °C

Light Technical

Order Code	Full Product Name	Color Code	Correlated Color Temperature (Nom)	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
532671	12T8/PER/48-830/ BB17/G 10/1 FB	830	3000 K	1700 lm	1700 lm
532671	12T8/MAS/48-830/ MF17/G 10/1	830	3000 K	1700 lm	1700 lm
532689		835	3500 K	1700 lm	1700 lm
532697		841	4000 K	1800 lm	1800 lm
532705	12T8/PER/48-850/ BB18/G 10/1 FB	850	5000 K	1800 lm	1800 lm
532705	12T8/MAS/48-850/ MF18/G 10/1	850	5000 K	1800 lm	1800 lm

