



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

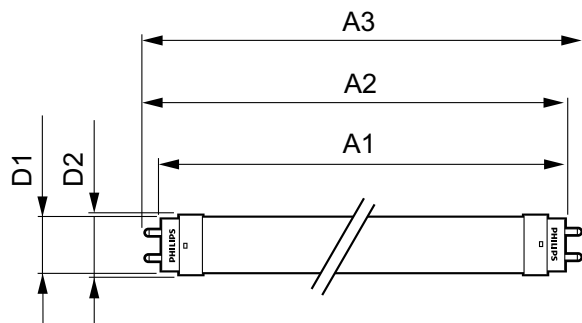
- Operates on both shunted and non-shunted sockets, which means no need to replace sockets
- DLC, NSF and RoHS listed
- Philips proprietary safety features
- 5-year warranty and 50,000-hour life standard

Application

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

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Dimensional drawing



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

Controls and Dimming

Dimmable	No
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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/MAS/48-830/MF17/G 10/1	830	3000 K	1700 lm	1700 lm
532689	12T8/MAS/48-835/MF17/G 10/1	835	3500 K	1700 lm	1700 lm
532697	12T8/MAS/48-840/MF18/G 10/1	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

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