

# MasterClass LEDtube Mains T8

## 12T8/MAS/48-850/MF18/G 10/1

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.

### Product data

General Information	
Base	G13 [ Medium Bi-Pin Fluorescent]
Nominal Lifetime (Nom)	50000 h
Switching Cycle	50000X
B50L70	50000 h

Light Technical	
Color Code	850 [ CCT of 5000K]
Beam Angle (Nom)	240 °
Initial lumen (Nom)	1800 lm
Luminous Flux (Rated) (Nom)	1800 lm
Rated Beam Angle	240 °
Correlated Color Temperature (Nom)	5000 K
Color Consistency	<5
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
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	1200 mm

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## Approval and Application

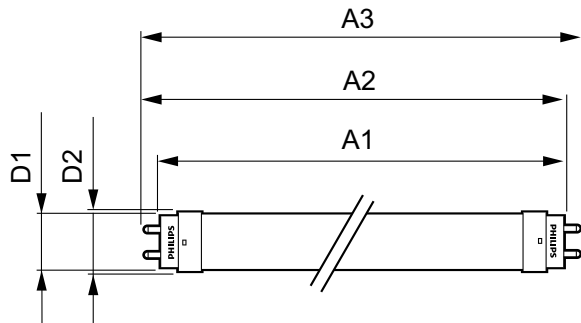
Energy Saving Product	Yes
Approbation Marks	RoHS compliance UL certificate DLC compliance

## Product Data

Order product name	12T8/MAS/48-850/MF18/G 10/1
EAN/UPC - Product	046677532703

Order code	532705
Numerator - Quantity Per Pack	1
Numerator - Packs per outer box	10
Material Nr. (12NC)	929001877134
Net Weight (Piece)	0.215 kg
Model Number	9290018771A

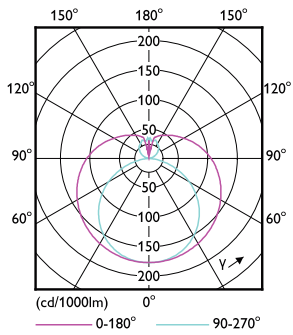
## Dimensional drawing



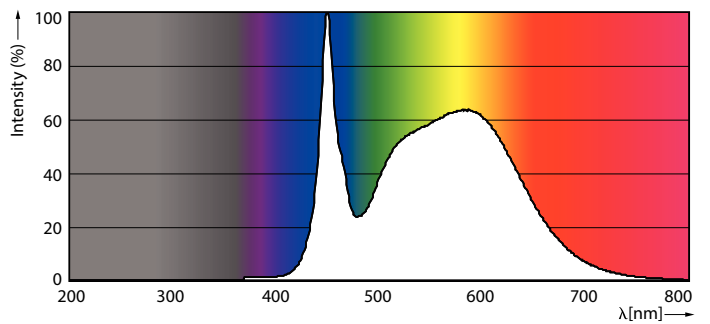
Performance TypeB 1800lm 12W

Product	D1	D2	A1	A2	A3
12T8/MAS/48-850/MF18/G 10/1	25.7 mm	28 mm	1198 mm	1205 mm	1212 mm

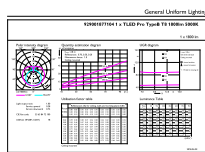
## Photometric data



LEDtube PRO 12W G13 830 24D ND



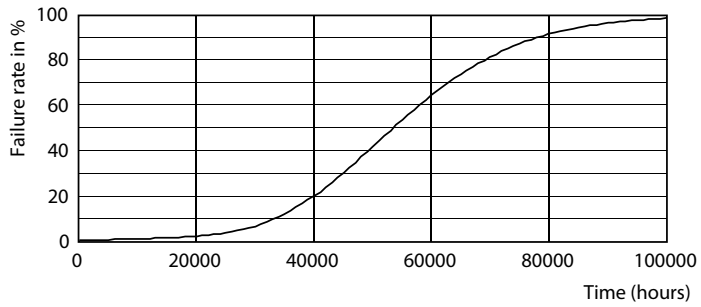
LEDtube PRO 12W G13 850 24D ND



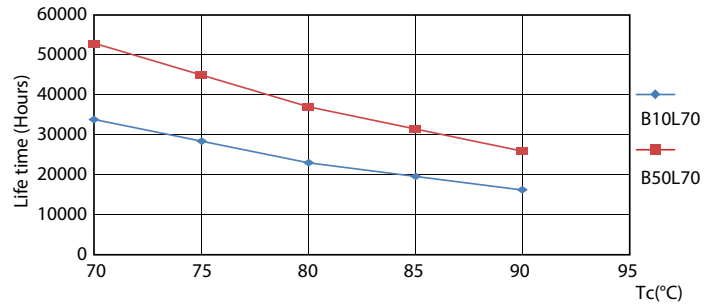
LEDtube PRO 12W G13 850 24D ND

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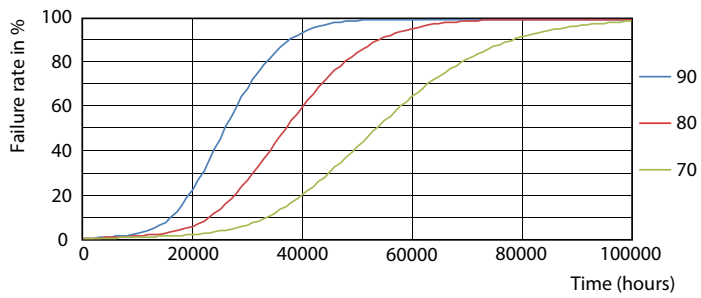
## Lifetime



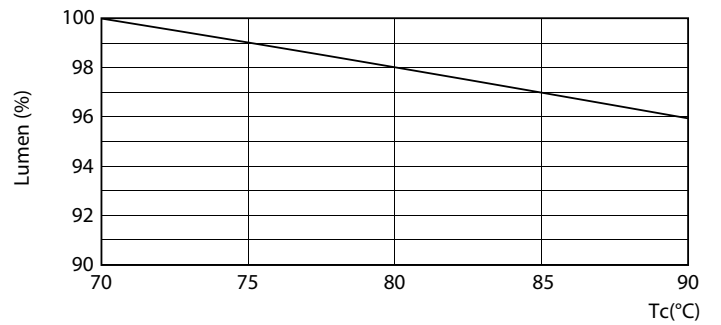
LEDtube PRO 12W G13 830 24D ND



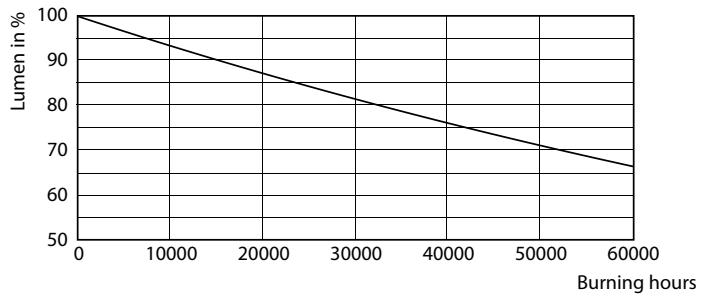
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