



# MasterClass MainsFit (UL Type-B) T8

14.5T8/MAS/48-830/MF20/P/DIM 25/1

The MasterClass MainsFit (UL Type B) T8 lamps are designed to be the perfect retrofit solution to move from traditional fluorescent lamps to energy saving LEDs. This ballast bypass lamp has everything needed built into the lamp with proven energy savings, long life (70k hours), surge suppression and industry leading safety features. All lamps in the MasterClass MainsFit family are double-ended to help simplify the installation. In addition, all lamps meet the Philips standards for light quality so that end users will be in a comfortable environment regardless of the MasterClass MainsFit lamp type.

## Product data

General Information	
Cap-Base	G13 [Medium Bi-Pin Fluorescent]
Nominal lifetime	70,000 hour(s)
Switching Cycle	50,000
Lighting Technology	LED
EU RoHS compliant	Yes

Light Technical	
Color Code	830 [CCT of 3000K]
Beam Angle (Nom)	180 degree(s)
Luminous Flux	2,000 lumen
Color Designation	White (WH)
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	137.00 lm/W
Color Consistency	6SCDM
Color rendering index (CRI)	80

LLMF At End Of Nominal Lifetime (Nom) 70 %	
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Operating and Electrical	
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Power Consumption	14.5 W
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	120-277 V

Temperature	
Ambient temperature range	-20 °C to 45 °C
T-Case Maximum (Nom)	70 °C

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## Controls and Dimming

**Dimmable** Only with specific dimmers

## Mechanical and Housing

**Bulb Finish** Frosted  
**Bulb Material** Plastic  
**Product Length** 1,200 mm  
**Bulb Shape** Tube, double-ended

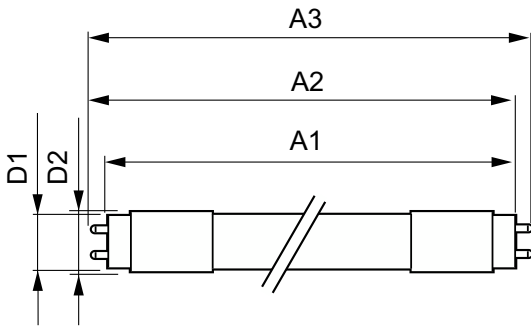
## Approval and Application

**Energy Saving Product** Yes  
**Approval Marks** RoHS compliance UL certificate DLC compliance

## Product Data

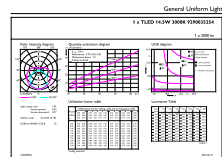
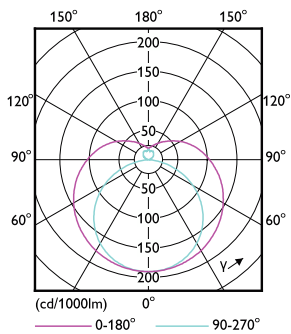
**Order product name** 14.5T8/MAS/48-830/MF20/P/DIM 25/1  
**Order code** 929003525404  
**Numerator - Quantity Per Pack** 1  
**Numerator - Packs per outer box** 25  
**Material Nr. (12NC)** 929003525404  
**Full product name** 14.5T8/MAS/48-830/MF20/P/DIM 25/1  
**EAN/UPC - Case** 50046677579475  
**EAN/UPC - Product/Case** 046677579470

## Dimensional drawing



Product	D1	D2	A1	A2	A3
14.5T8/MAS/48-830/MF20/P/DIM 25/1	25.7 mm	28 mm	1,198.2 mm	1,205.3 mm	1,212.4 mm

## Photometric data

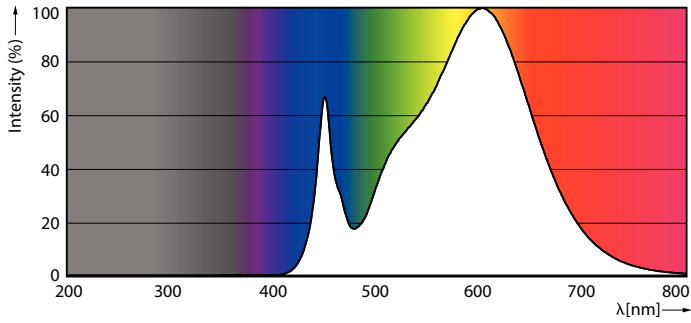


Light Distribution Diagram - 14.5T8/MAS/48-830/MF20/P/DIM 25/1

General uniform lighting - 14.5T8/MAS/48-830/MF20/P/DIM 25/1

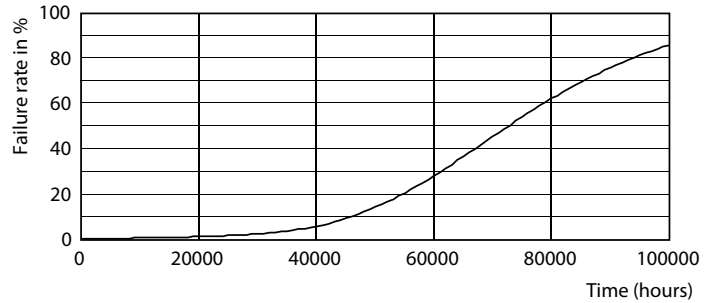
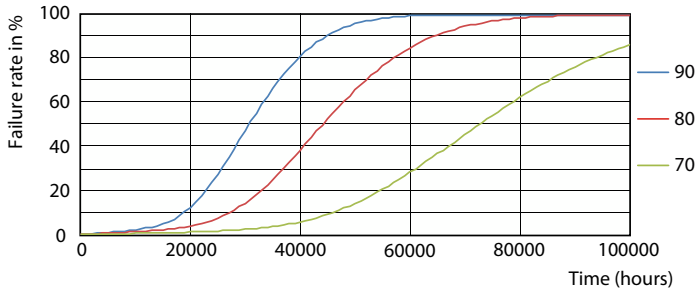
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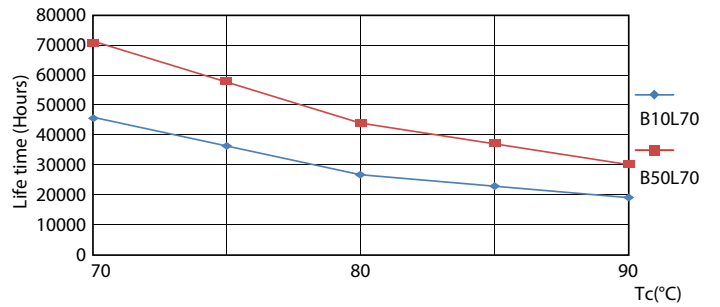
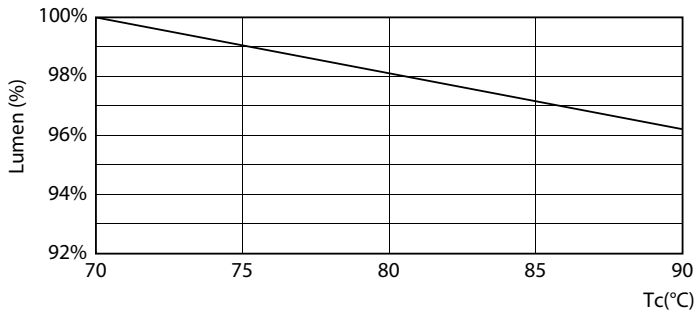
Spectral Power Distribution Colour

## Lifetime



Life Expectancy Diagram - 14.5T8/MAS/48-830/MF20/P/DIM 25/1

Life Expectancy Diagram - 14.5T8/MAS/48-830/MF20/P/DIM 25/1



Lumen Maintenance Diagram - 14.5T8/MAS/48-830/MF20/P/DIM 25/1

Life Expectancy Diagram - 14.5T8/MAS/48-830/MF20/P/DIM 25/1

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## Lifetime



Lumen Maintenance Diagram - 14.5T8/MAS/48-830/MF20/P/DIM 25/1

