



MasterClass MainsFit (UL Type-B) T8

14.5T8/MAS/48-850/MF21/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		LLMF At End Of Nominal Lifetime (Nom) 70 %	
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		Operating and Electrical	
Color Code	850 [CCT of 5000K]	Line Frequency	50 to 60 Hz
Beam Angle (Nom)	180 degree(s)	Input Frequency	50 to 60 Hz
Luminous Flux	2,100 lm	Power Consumption	14.5 W
Color Designation	Daylight	Lamp Current (Max)	125 mA
Correlated Color Temperature (Nom)	5000 K	Lamp Current (Min)	58 mA
Luminous Efficacy (rated) (Nom)	144.00 lm/W	Wattage Equivalent	32 W
Color Consistency	<5	Starting Time (Nom)	0.5 s
Color rendering index (CRI)	80	Warm-up time to 60% light	0.5 s
		Power Factor (Fraction)	0.9
		Voltage (Nom)	120-277 V
		UL Type	UL Type B
		Temperature	
		Ambient temperature range	-4 °F to 113 °F

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T-Case Maximum (Nom)	158 °F
Controls and Dimming	
Dimmable	Only with specific dimmers
Mechanical and Housing	
Bulb Finish	Frosted
Bulb Material	Plastic
Product Length	47-1/4 inch
Bulb Shape	T8
Approval and Application	
Energy Saving Product	Yes
Approval Marks	RoHS compliance UL certificate DLC compliance

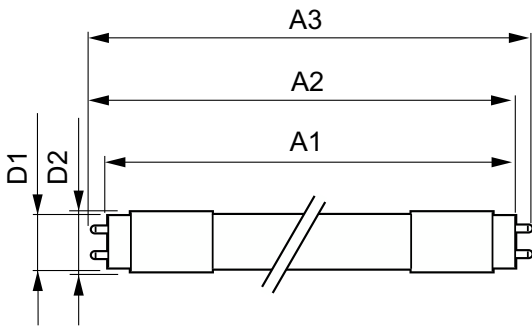
Application Conditions

can it be used in closed luminaires Yes

Product Data

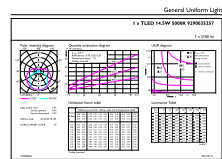
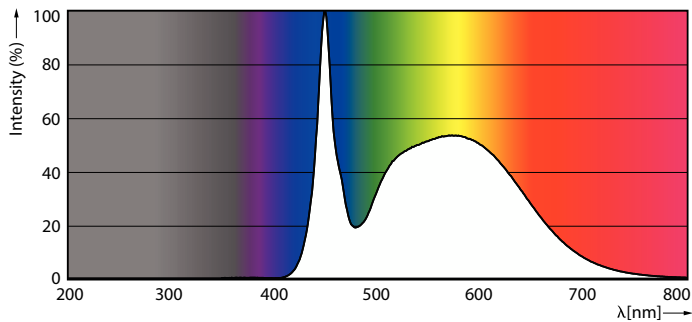
Order product name	14.5T8/MAS/48-850/MF21/P/DIM 25/1
Full product name	14.5T8/MAS/48-850/MF21/P/DIM 25/1
Order code	579508
Material Nr. (12NC)	929003525704
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	046677579500
Numerator - Packs per outer box	25
EAN/UPC - Case	50046677579505

Dimensional drawing



Product	D1	D2	A1	A2	A3
14.5T8/MAS/48-850/MF21/P/DIM 25/1	1-1/16 inch	1-1/8 inch	47-3/16 inch	47-1/2 inch	47-3/4 inch

Photometric data

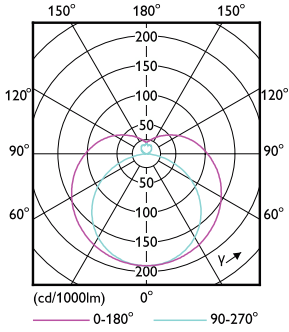


Spectral Power Distribution Colour - 14.5T8/MAS/48-850/MF21/P/DIM 25/1

General uniform lighting - 14.5T8/MAS/48-850/MF21/P/DIM 25/1

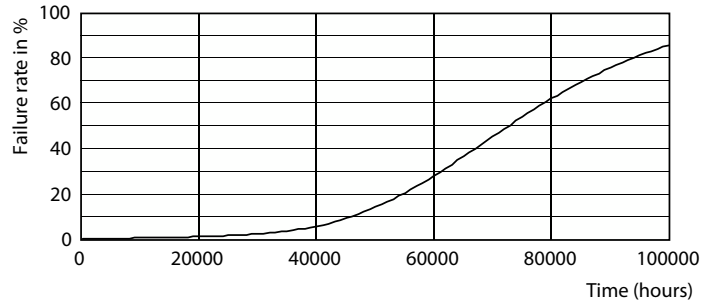
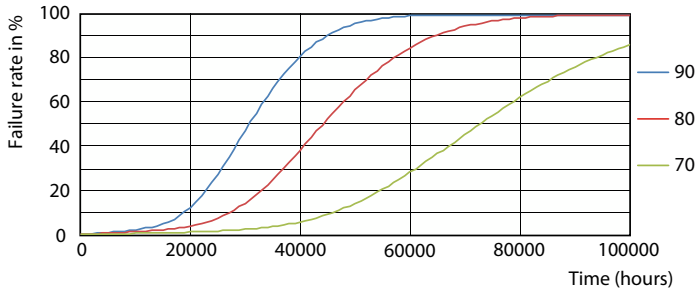
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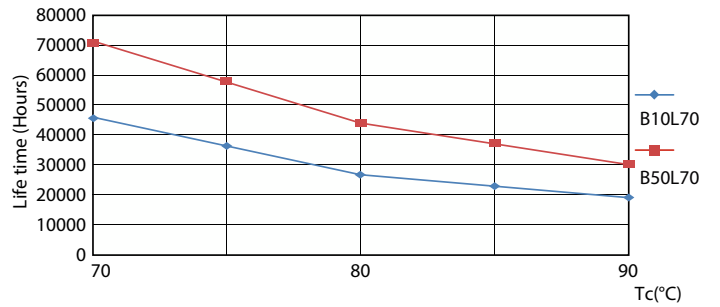
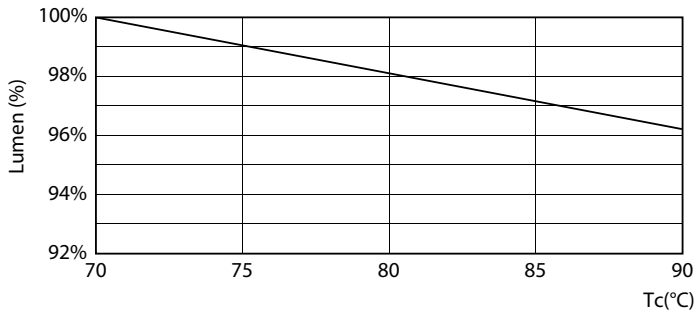
Light Distribution Diagram - 14.5T8/MAS/48-850/MF21/P/DIM 25/1

Lifetime



Life Expectancy Diagram - 14.5T8/MAS/48-850/MF21/P/DIM 25/1

Life Expectancy Diagram - 14.5T8/MAS/48-850/MF21/P/DIM 25/1

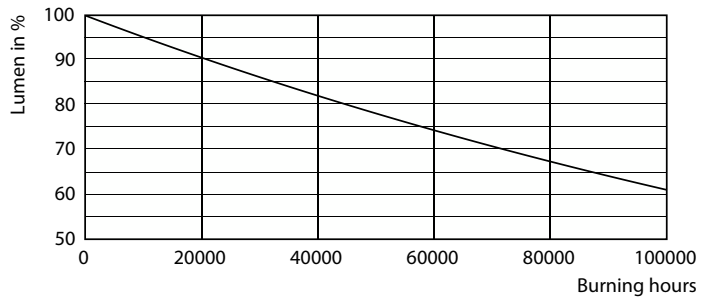


Lumen Maintenance Diagram - 14.5T8/MAS/48-850/MF21/P/DIM 25/1

Life Expectancy Diagram - 14.5T8/MAS/48-850/MF21/P/DIM 25/1

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