



10.5T8/MAS/48-850/MF16/P/DIM 25/1

Say hello to Philips MasterClass MainsFit (UL Type B) T8 lamps, Designed to be the perfect retrofit solution for traditional fluorescent lamps, they set the standard for performance, longevity (50,000 to 70,000 hours rate life) and efficacy (up to >190 lm/W). This ballast bypass lamp comes with everything needed built into the lamp, including surge suppression, proven energy savings, long life (up to 70k hours), and patented safety features. All lamps in the MasterClass MainsFit family are double-ended to simplify installation.

Product data

General Information				
Cap-Base	G13 [Medium Bi-Pin Fluorescent]			
Nominal lifetime	70,000 hour(s)			
Switching Cycle	50,000			
Lighting Technology	LED			
Light Technical				
Color Code	850 [CCT of 5000K]			
Beam Angle (Nom)	180 degree(s)			
Luminous Flux	1,600 lm			
Color Designation	Daylight			
Correlated Color Temperature (Nom)	5000 K			
Luminous Efficacy (rated) (Nom)	152.00 lm/W			
Color Consistency	<5			
Color rendering index (CRI)	80			
LLMF At End Of Nominal Lifetime (Nom) 70 %				

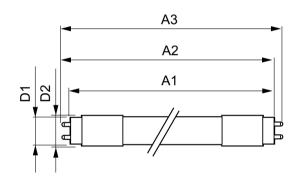
Operating and Electrical				
Line Frequency	50 to 60 Hz			
Input Frequency	50 to 60 Hz			
Power Consumption	10.5 W			
Lamp Current (Max)	90 mA			
Lamp Current (Min)	42 mA			
Wattage Equivalent	32 W			
Starting Time (Nom)	0.5 s			
Warm-up time to 60% light	0.5 s			
Power Factor (Fraction)	0.9			
Voltage (Nom)	120-277 V			
UL Type	UL Type B			
Temperature				
T-Case Maximum (Nom)	158 °F			

Datasheet, 2023, August 16 data subject to change

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	Т8				
Net Weight (Piece)	0.463 lb				
Approval and Application					
Energy Saving Product	Yes				
Approval Marks	RoHS compliance UL certificate DLC				
	compliance				
EU RoHS compliant	Yes				
Ambient temperature range	-4 °F to 113 °F				

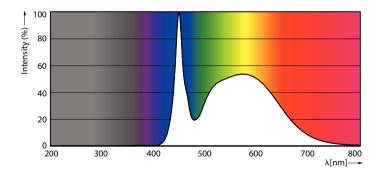
can it be used in closed luminaires				
can it be used in closed luminaires	Yes			
Product Data				
Order product name	10.5T8/MAS/48-850/MF16/P/DIM 25/1			
Full product name	10.5T8/MAS/48-850/MF16/P/DIM 25/1			
Order code	579466			
Material Nr. (12NC)	929003525304			
Numerator - Quantity Per Pack	1			
EAN/UPC - Product/Case	046677579463			
Numerator - Packs per outer box	25			
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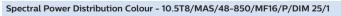
Dimensional drawing

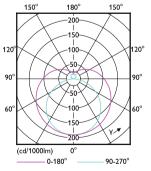


Product	D1	D2	A1	A2	А3
10.5T8/MAS/48-850/	1-1/16 inch	1-1/8 inch	47-3/16 inch	47-1/2 inch	47-3/4 inch
MF16/P/DIM 25/1					

Photometric data

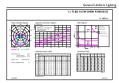






Light Distribution Diagram - 10.5T8/MAS/48-850/MF16/P/DIM 25/1

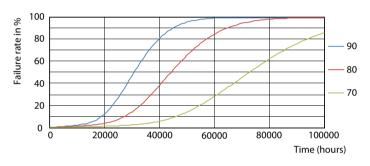
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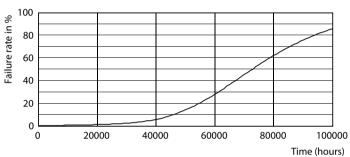


Calculus Photographics 4.5 Philips Lighting Sci. Pages 177

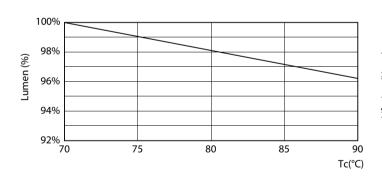
General uniform lighting - 10.5T8/MAS/48-850/MF16/P/DIM 25/1

Lifetime

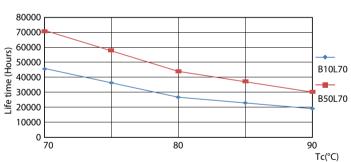




FailureRate



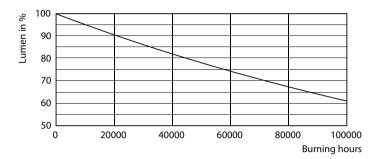
Life Expectancy Diagram



Lumen Maintenance Diagram - 10.5T8/MAS/48-850/MF16/P/DIM 25/1

LifetimeVsTc

Lifetime



Lumen Maintenance Diagram - 10.5T8/MAS/48-850/MF16/P/DIM 25/1



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