Lighting

PHILIPS



MASTER - LED HID SON-T

MAS LED SON-T IF 8.1Klm 50W 727 E40

Philips MASTER - LED HID SON-T lamps are an easy LED solution with a short payback period to replace High-Intensity Discharge (HID) and High-Pressure Sodium (SON) lamps. MASTER – LED HID SON-T solutions bring the energy efficiency and long lifetime benefits of LED to HID replacement, providing instant savings for a low initial investment. With the right lamp size and light distribution, you can easily retrofit MASTER – LED HID SON-T lamps into existing SON and SON-T systems, enhancing the lighting quality with LED without changing the luminaire's ballast (for IF replacements) or reflector.

Warnings and Safety

• Please refer to the installation guide or consult a Philips Lighting representative for the wiring diagram and instructions.

Product data

General Information		
Cap-Base	E40	
Nominal lifetime	70,000 hour(s)	
Switching Cycle	50,000	
Lighting Technology	LED	
Flux measurement reference	Sphere	
Light Technical		
Color Code	727 [CCT of 2700K]	
Luminous Flux	8,100 lm	
Color Designation	Warm White (WW)	
Correlated Color Temperature (Nom)	2700 K	
Luminous Efficacy (rated) (Nom)	162 lm/W	
Color Consistency	<6	

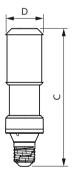
Color rendering index (CRI)	70
LLMF At End Of Nominal Lifetime (Nom)	70 %
Photobiological safety according to EN 62471	RG1
Operating and Electrical	
Line Frequency	50 Hz
Input Frequency	50 Hz
Power Consumption	50 W
Lamp Current (Nom)	1,060 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	-
Voltage (Nom)	85-95 V
Ballast Compatibility	EM

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Inrush current at mains	-
Max. lamp no. on MCB B type 10A - Mains	-
Max. lamp no. on MCB B type 10A – EM ballast	6
without Compensation Capacitor.	
Max. lamp no. on MCB B type 10A – EM ballast	9
with Compensation Capacitor.	
Max. lamp no. on MCB B type 16A - Mains	-
Max. lamp no. on MCB B type 16A – EM ballast	10
without Compensation Capacitor.	
Max. lamp no. on MCB B type 16A – EM ballast	15
with Compensation Capacitor.	
Temperature	
T-Case Maximum (Nom)	52 ℃
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Clear
Bulb Material	Glass
Bulb Shape	T70
Net Weight (Piece)	0.490 kg

Approval and Application		
Energy Efficiency Class	D	
Energy Consumption kWh/1000 h	50 kWh	
EPREL Registration Number	1077790	
CE mark	Yes	
EU RoHS compliant	Yes	
Ambient temperature range	-30 to +45 °C	
Product Data		
Order product name	MAS LED SON-T IF 8.1Klm 50W 727	
	E40	
Full product name	MAS LED SON-T IF 8.1Klm 50W 727	
	E40	
Full product code	871951444895700	
Order code	929003467412	
Material Nr. (12NC)	929003467412	
Numerator - Quantity Per Pack	1	
EAN/UPC - Product/Case	8719514448957	
Numerator - Packs per outer box	6	
EAN/UPC - Case	8719514448964	

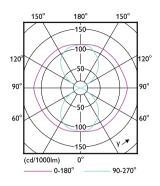
Dimensional drawing

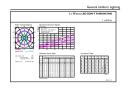


Product	D	с
MAS LED SON-T IF 8.1Klm 50W 727 E40	71 mm	262 mm

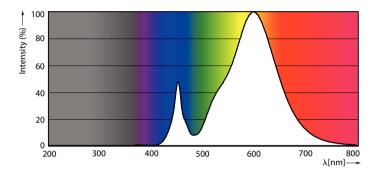
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Photometric data



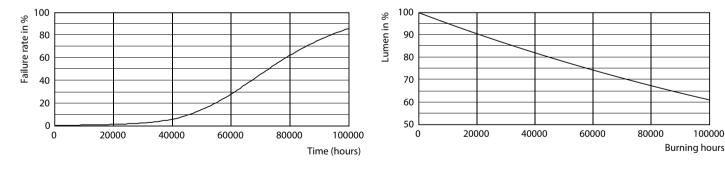


Light Distribution Diagram - MAS LED SON-T IF 8.1Klm 50W 727 E40



Spectral Power Distribution Colour - MAS LED SON-T IF 8.1Klm 50W 727 E40

Lifetime



Life Expectancy Diagram

Lumen Maintenance Diagram - MAS LED SON-T IF 8.1Klm 50W 727 E40

General uniform lighting - MAS LED SON-T IF 8.1Klm 50W 727 E40

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