Lighting

PHILIPS



MASTER - LED HID SON-T

MAS LED SON-T IF 9Klm 50W 740 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		Color rendering index (
Cap-Base	E40	LLMF At End Of Nomin
Nominal lifetime	70,000 hour(s)	Photobiological safety
Switching Cycle	50,000	
Lighting Technology	LED	Operating and Elect
Flux measurement reference	Sphere	Line Frequency
		Input Frequency
Light Technical		Power Consumption
Color Code	740 [CCT of 4000K]	Lamp Current (Nom)
Luminous Flux	9,000 lm	Starting Time (Nom)
Color Designation	Cool White (CW)	Warm-up time to 60%
Correlated Color Temperature (Nom)	4000 K	Power Factor (Fraction
Luminous Efficacy (rated) (Nom)	180 lm/W	Voltage (Nom)
Color Consistency	<6	Ballast Compatibility

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

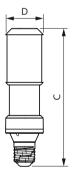


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Inrush current at mains	-
Max. lamp no. on MCB B type 10A - Mains	-
Max. lamp no. on MCB B type 10A – EM ballast	6
without Compensation Capacitor.	
Max. lamp no. on MCB B type 10A – EM ballast	9
with Compensation Capacitor.	
Max. lamp no. on MCB B 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 °C
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	С	
Energy Consumption kWh/1000 h	50 kWh	
EPREL Registration Number	1077806	
CE mark	Yes	
EU RoHS compliant	Yes	
Ambient temperature range	-30 to +45 °C	
Product Data		
Order product name	MAS LED SON-T IF 9Klm 50W 740	
	E40	
Full product name	MAS LED SON-T IF 9Klm 50W 740	
	E40	
Full product code	871951444897100	
Order code	929003467512	
Material Nr. (12NC)	929003467512	
Numerator - Quantity Per Pack	1	
EAN/UPC - Product/Case	8719514448971	
Numerator - Packs per outer box	6	
EAN/UPC - Case	0710514440000	
EAN/OPC - Case	8719514448988	

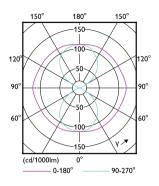
Dimensional drawing

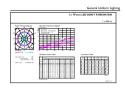


Product	D	с
MAS LED SON-T IF 9Klm 50W 740 E40	71 mm	262 mm

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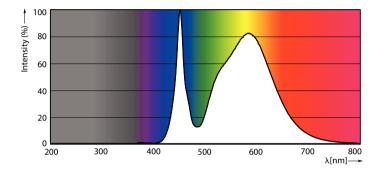
Photometric data





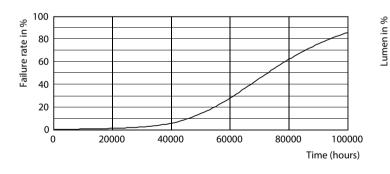
Light Distribution Diagram - MAS LED SON-T IF 9Klm 50W 740 E40

General uniform lighting - MAS LED SON-T IF 9Klm 50W 740 E40



Spectral Power Distribution Colour - MAS LED SON-T IF 9Klm 50W 740 E40

Lifetime



Life Expectancy Diagram

Lumen Maintenance Diagram - MAS LED SON-T IF 9Klm 50W 740 E40

40000

60000

80000

100000

Burning hours

100

90

80 70

60 50

0

20000

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