



TrueForce LED Public (Road – SON)



MAS LED SON-T EM 9Klm 50W 740 E40

MASTER, LED SON-T, Tubular, EM/Mains, 50 W, SON-T 100W, E40, 4000 K, 9000 lm, CRI 70, 70000 h

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.

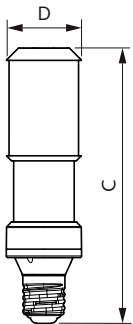
Product data

General Information			
Cap base	E40	Luminous Flux	9,000 lm
Nominal lifetime	70,000 h	Colour designation	Cool White (CW)
Switching Cycle	50,000	Correlated Colour Temperature (Nom)	4000 K
Lighting Technology	LED SON-T	Luminous efficacy (rated) (nom.)	180 lm/W
Flux measurement reference	Sphere	Colour consistency	<6
Warranty period	8 years	Colour rendering index (CRI)	70
		LLMF at end of nominal lifetime (nom.)	70 %
		Photobiological safety according to EN 62471	RG1
Light Technical			
Colour Code	740 [CCT of 4000K]		

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Operating and Electrical	
Line Frequency	50 to 60 Hz
Input frequency	50 to 60 Hz
Power Consumption	50 W
Lamp current (max.)	465 mA
Lamp current (min.)	245 mA
Starting time (nom.)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (nom.)	120-240 V
Inrush current at mains	7.4
Max. lamp no. on MCB B type 10A – Mains	26
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	26
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	5
Max. lamp no. on MCB B type 16A – Mains	41
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	41
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	9
Wattage Equivalent (LED HID only)	SON-T 100W
Ballast Compatibility	EM/Mains
Temperature	
T-Case maximum (nom.)	52 °C
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Lamp Finish	Clear

Dimensional drawing



Bulb material	Glass
Bulb shape	Tubular
Net Weight (Piece)	0.505 kg
Approval and Application	
Energy Efficiency Class	C
Energy-saving product	Yes
Energy consumption kWh/1,000 hours	50 kWh
EPREL Registration Number	1077802
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM)	1
Stroboscopic effect	2.5
Ambient temperature range	-30 to +45 °C

Application Conditions

Wireless Technology	Not applicable
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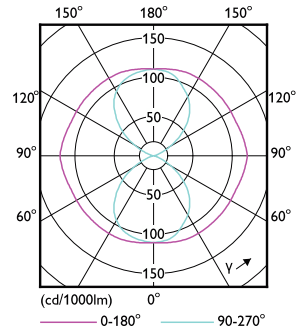
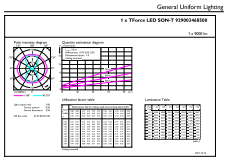
Product Data

Order product name	MAS LED SON-T EM 9Klm 50W 740 E40
Full product name	MAS LED SON-T EM 9Klm 50W 740 E40
Full EOC	871951444917600
Order code	929003468518
Material no. (12 NC)	929003468518
Numerator – quantity per pack	1
EAN/UPC – Product/Case	8719514449176
Numerator – packs per outer box	6
EAN/UPC – Case	8719514449183

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

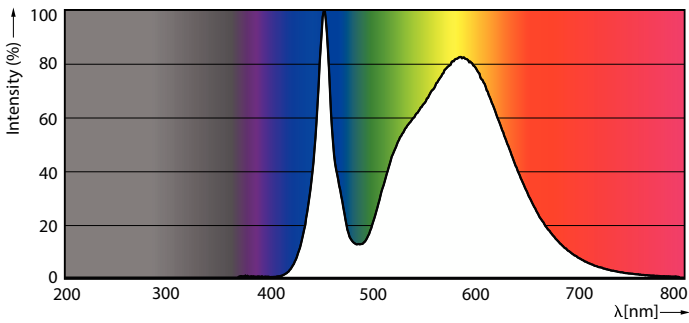
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Photometric data



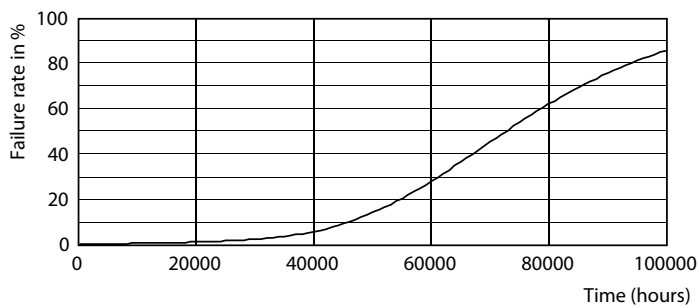
General uniform lighting - MAS LED SON-T EM 9Klm 50W 740 E40

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

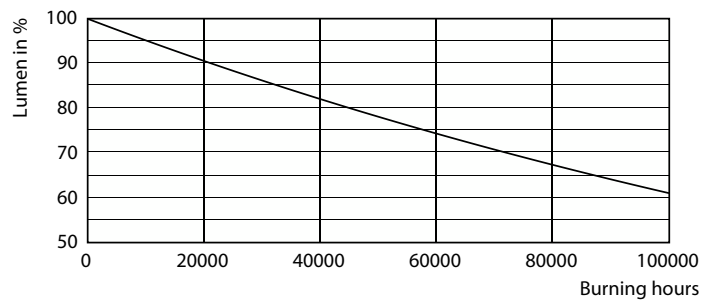


Spectral Power Distribution Colour - MAS LED SON-T EM 9Klm 50W 740 E40

Lifetime



Life Expectancy Diagram



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

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