



MASTER - LED HID SON-T



MAS LED SON-T EM 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		Color rendering index (CRI)	
Cap-Base	E40		70
Nominal lifetime	70,000 hour(s)	LLMF At End Of Nominal Lifetime (Nom)	70 %
Switching Cycle	50,000	Photobiological safety according to EN 62471	RG1
Lighting Technology	LED	Operating and Electrical	
Flux measurement reference	Sphere	Line Frequency	50 to 60 Hz
Light Technical		Input Frequency	50 to 60 Hz
Color Code	727 [CCT of 2700K]	Power Consumption	50 W
Luminous Flux	8,100 lm	Lamp Current (Max)	465 mA
Color Designation	Warm White (WW)	Lamp Current (Min)	245 mA
Correlated Color Temperature (Nom)	2700 K	Starting Time (Nom)	0.5 s
Luminous Efficacy (rated) (Nom)	162 lm/W	Warm-up time to 60% light	0.5 s
Color Consistency	<6	Power Factor (Fraction)	0.9
		Voltage (Nom)	120-240 V

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Ballast Compatibility	EM/Mains
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

Temperature

T-Case Maximum (Nom)	52 °C
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Controls and Dimming

Dimmable	No
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Mechanical and Housing

Bulb Finish	Clear
Bulb Material	Glass
Bulb Shape	T70
Net Weight (Piece)	0.505 kg

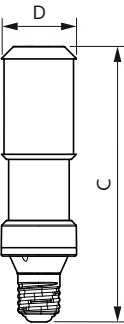
Approval and Application

Energy Efficiency Class	C
Energy Consumption kWh/1000 h	50 kWh
EPREL Registration Number	1077793
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM) – Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	2.5
Ambient temperature range	-30 to +45 °C

Product Data

Order product name	MAS LED SON-T EM 8.1Klm 50W 727 E40
Full product name	MAS LED SON-T EM 8.1Klm 50W 727 E40
Full product code	871951444915200
Order code	929003468418
Material Nr. (12NC)	929003468418
Numerator – Quantity Per Pack	1
EAN/UPC – Product/Case	8719514449152
Numerator – Packs per outer box	6
EAN/UPC – Case	8719514449169

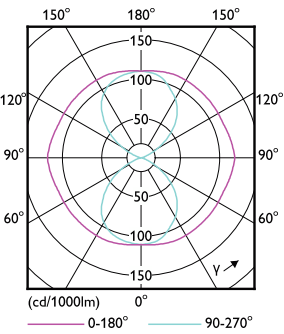
Dimensional drawing



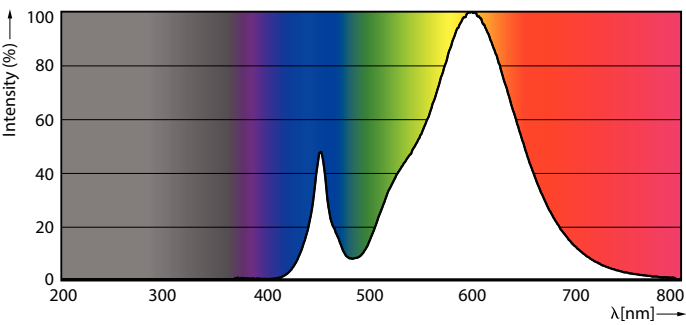
Product	D	C
MAS LED SON-T EM 8.1Klm 50W 727 E40	71 mm	262 mm

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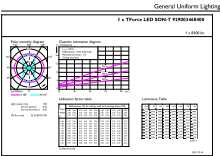
Photometric data



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



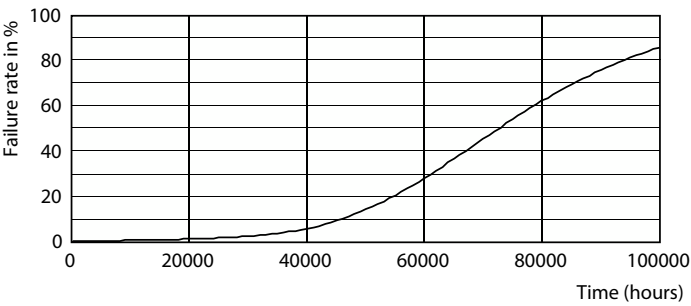
Spectral Power Distribution Colour - MAS LED SON-T EM 8.1Klm 50W 727 E40



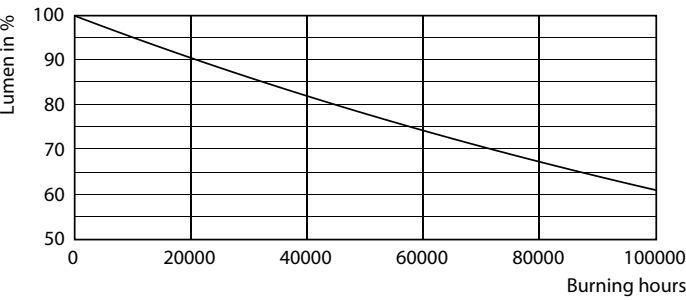
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General uniform lighting - MAS LED SON-T EM 8.1Klm 50W 727 E40

Lifetime



Life Expectancy Diagram



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

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