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		Color rendering index (CRI)	70
Cap–Base	E40	LLMF At End Of Nominal Lifetime (Nom)	70 %
Nominal lifetime	70,000 hour(s)	Photobiological safety according to EN 62471	RG1
Switching Cycle	50,000		
Lighting Technology	LED		
Flux measurement reference	Sphere	**Operating and Electrical**	
		Line Frequency	50 Hz
Light Technical		Input Frequency	50 Hz
Color Code	727 [CCT of 2700K]	Power Consumption	50 W
Luminous Flux	8,100 lm	Lamp Current (Nom)	1,060 mA
Luminous Efficacy (rated) (Nom)	162 lm/W	Starting Time (Nom)	0.5 s
Color Designation	Warm White (WW)	Warm–up time to 60% light	0.5 s
Correlated Color Temperature (Nom)	2700 K	Power Factor (Fraction)	–
Color Consistency	<6	Voltage (Nom)	85–95 V
		Inrush current at mains	–

Max. lamp no. on MCB B type 10A – Mains	–
Max. lamp no. on MCB B type 10A – EM ballast without Compensation Capacitor.	6
Max. lamp no. on MCB B type 10A – EM ballast with Compensation Capacitor.	9
Max. lamp no. on MCB B type 16A – Mains	–
Max. lamp no. on MCB B type 16A – EM ballast without Compensation Capacitor.	10
Max. lamp no. on MCB B type 16A – EM ballast with Compensation Capacitor.	15
Ballast Compatibility	EM

Temperature

Ambient temperature range	–30 to +45 ℃
T–Case Maximum (Nom)	52 ℃

Controls and Dimming

Dimmable	No

Mechanical and Housing

Bulb Finish	Clear
Bulb Material	Glass
Bulb Shape	T70
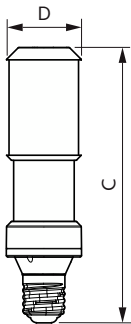
Approval and Application

Energy Efficiency Class	D
Energy Consumption kWh/1000 h	50 kWh
EPREL Registration Number	1077790
EU RoHS compliant	Yes

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
Net Weight (Piece)	0.490 kg
EAN/UPC – Product/Case	8719514448957
Numerator – Packs per outer box	6
EAN/UPC – Case	8719514448964

Dimensional drawing

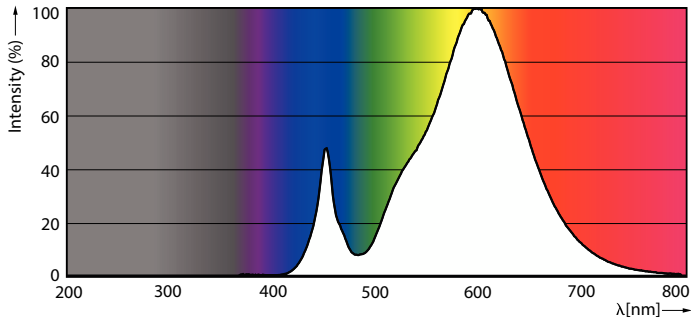| Product	D	C
MAS LED SON–T IF 8.1Klm 50W 727 E40	71 mm	262 mm

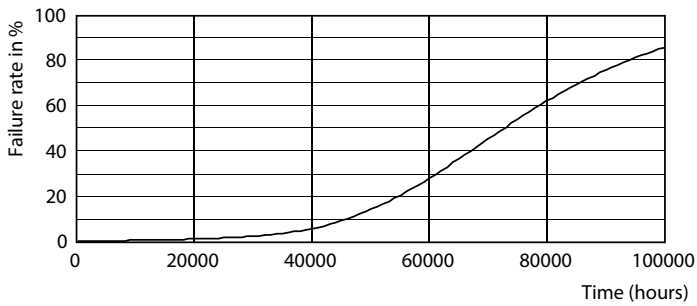# MASTER – LED HID SON–T

Photometric data
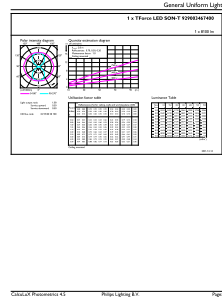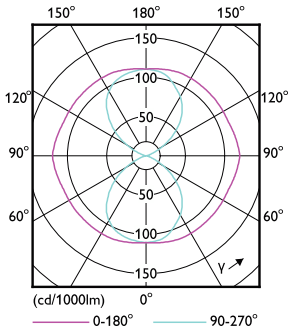
Light Distribution Diagram – MAS LED SON–T IF 8.1Klm 50W 727 E40

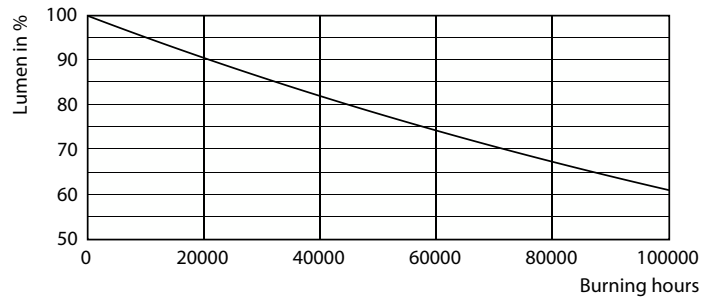General uniform lighting – MAS LED SON–T IF 8.1Klm 50W 727 E40

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

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2024, July 15 – data subject to change