# Lighting

**PHILIPS** 



# MASTER - LED HID SON-T

# MAS LED SON-T EM 12Klm 65W 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
Cap-Base	E40	LLMF At End Of
Nominal lifetime	70,000 hour(s)	Photobiological
Switching Cycle	50,000	
Lighting Technology	LED	Operating and
Flux measurement reference	Sphere	Line Frequency
		Input Frequency
Light Technical		Power Consump
Color Code	740 [CCT of 4000K]	Lamp Current (N
Luminous Flux	12,000 lm	Lamp Current (N
Color Designation	Cool White (CW)	Starting Time (N
Correlated Color Temperature (Nom)	4000 K	Warm-up time t
Luminous Efficacy (rated) (Nom)	184 lm/W	Power Factor (F
Color Consistency	<6	Voltage (Nom)

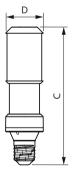
Color rendering index (CRI)	70
LLMF At End Of Nominal Lifetime (Nom)	70 %
Photobiological safety according to EN 62471	RG1
Operating and Electrical	
Line Frequency	50 to 60 Hz
Input Frequency	50 to 60 Hz
Power Consumption	65 W
Lamp Current (Max)	615 mA
Lamp Current (Min)	325 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	0.5 s
Power Factor (Fraction)	0.9
Voltage (Nom)	120-240 V



## **MASTER - LED HID SON-T**

Ballast Compatibility	EM/Mains	Approval and Application	
Inrush current at mains	7.6	Energy Efficiency Class	C
Max. lamp no. on MCB B type 10A - Mains	20	Energy Consumption kWh/1000 h	65 kWh
Max. lamp no. on MCB B type 10A – EM ballast	20	EPREL Registration Number	1077808
without Compensation Capacitor.		CE mark	Yes
Max. lamp no. on MCB B type 10A – EM ballast	4	EU RoHS compliant	Yes
with Compensation Capacitor.		Flickering value (PstLM) - Flickering value as per	1
Max. lamp no. on MCB B type 16A - Mains	32	EN 61000-3-3	
Max. lamp no. on MCB B type 16A – EM ballast	32	Stroboscopic effect visibility measure (SVM)	2.5
without Compensation Capacitor.		Ambient temperature range	-30 to +45 °C
Max. lamp no. on MCB B type 16A – EM ballast	7		
with Compensation Capacitor.		Product Data	
		Order product name	MAS LED SON-T EM 12Klm 65W
Temperature			740 E40
T-Case Maximum (Nom)	55 ℃	Full product name	MAS LED SON-T EM 12Klm 65V
			740 E40
Controls and Dimming		Full product code	871951444923700
Dimmable	No	Order code	929003468818
		Material Nr. (12NC)	929003468818
Mechanical and Housing		Numerator - Quantity Per Pack	1
Bulb Finish	Clear	EAN/UPC - Product/Case	8719514449237
Bulb Material	Glass	Numerator - Packs per outer box	6
Bulb Shape	T70	EAN/UPC - Case	8719514449244
Net Weight (Piece)	0.650 kg		

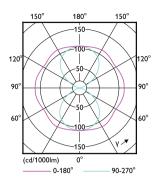
#### Dimensional drawing



Product	D	с
MAS LED SON-T EM 12Klm 65W 740 E40	71 mm	262 mm

# **MASTER - LED HID SON-T**

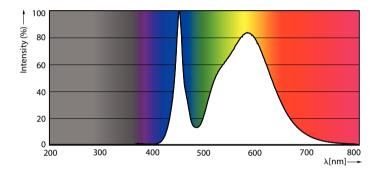
#### Photometric data



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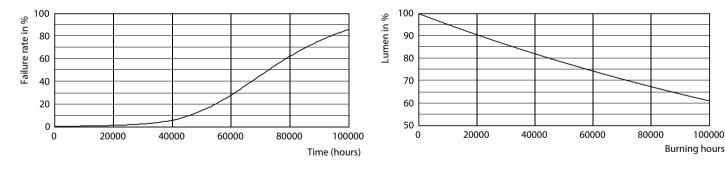
Light Distribution Diagram - MAS LED SON-T EM 12Klm 65W 740 E40

General uniform lighting - MAS LED SON-T EM 12Klm 65W 740 E40



Spectral Power Distribution Colour - MAS LED SON-T EM 12Klm 65W 740 E40

#### Lifetime



Life Expectancy Diagram

Lumen Maintenance Diagram - MAS LED SON-T EM 12Klm 65W 740 E40

Datasheet, 2025, February 21

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