



The best LED replacement for HID and SON road lamps with MASTER – LED HID SON-T

TrueForce LED Public (Road – SON)

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.

Benefits

- Cost-saving lamps with short payback time
- Low initial investment
- Easy way to enhance lighting quality

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Features

- High Energy efficient lamps
- Long lifetime – 70,000 hrs
- Surge protection 6KV
- Pleasant white light with CRI 70
- Direct lamp replacement solution without changing the fixture or gear for IF solution
- Right size and light distribution for retrofit
- IP40 product (IP rated sockets required for outdoor application)

Application

- Road and Street
- Tunnel
- Car parks

Warnings and Safety

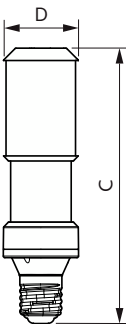
- Please refer to the installation guide or consult a Philips Lighting representative for the wiring diagram and instructions.

Versions



LEDTrueForce E40 68W

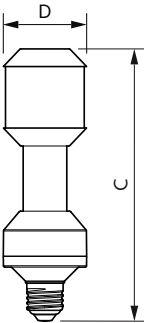
Dimensional drawing



Product	D	C
MAS LED SON-T EM 12Klm 65W 740 E40	71 mm	262 mm
MAS LED SON-T EM 8.1Klm 50W 727 E40	71 mm	262 mm
MAS LED SON-T EM 9Klm 50W 740 E40	71 mm	262 mm

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Dimensional drawing



Product	D	C
MAS LED SON-T EM 3.6Klm 23W 727 E27	61 mm	200 mm
MAS LED SON-T EM 4Klm 23W 740 E27	61 mm	200 mm
MAS LED SON-T EM 5.4Klm 34W 727 E27	61 mm	200 mm
MAS LED SON-T EM 6Klm 34W 740 E27	61 mm	200 mm

General Information	
Switching Cycle	50,000
Nominal lifetime	70,000 h
Light Technical	
Colour rendering index (CRI)	70
LLMF at end of nominal lifetime (nom.)	70 %
Operating and Electrical	
Input frequency	50 to 60 Hz
Line Frequency	50 to 60 Hz
Starting time (nom.)	0.5 s
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Lamp Finish	Clear
Approval and Application	
Ambient temperature range	-30 to +45 °C

General Information

Order Code	Full Product Name	Cap base
44915200	MAS LED SON-T EM 8.1Klm 50W 727 E40	E40
44917600	MAS LED SON-T EM 9Klm 50W 740 E40	E40
44903900	MAS LED SON-T EM 3.6Klm 23W 727 E27	E27
44905300	MAS LED SON-T EM 4Klm 23W 740 E27	E27
44909100	MAS LED SON-T EM 5.4Klm 34W 727 E27	E27
44911400	MAS LED SON-T EM 6Klm 34W 740 E27	E27
44923700	MAS LED SON-T EM 12Klm 65W 740 E40	E40

Light Technical

Order Code	Full Product Name	Correlated Colour		
		Temperature (Nom)	Colour Code	Luminous Flux
44915200	MAS LED SON-T EM 8.1Klm 50W 727 E40	2700 K	727	8,100 lm
44917600	MAS LED SON-T EM 9Klm 50W 740 E40	4000 K	740	9,000 lm
44903900	MAS LED SON-T EM 3.6Klm 23W 727 E27	2700 K	727	3,600 lm
44905300	MAS LED SON-T EM 4Klm 23W 740 E27	4000 K	740	4,000 lm

Order Code	Full Product Name	Correlated Colour		
		Temperature (Nom)	Colour Code	Luminous Flux
44909100	MAS LED SON-T EM 5.4Klm 34W 727 E27	2700 K	727	5,400 lm
44911400	MAS LED SON-T EM 6Klm 34W 740 E27	4000 K	740	6,000 lm
44923700	MAS LED SON-T EM 12Klm 65W 740 E40	4000 K	740	12,000 lm

Operating and Electrical

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Order Code	Full Product Name	Power Consumption
44915200	MAS LED SON-T EM 8.1Klm 50W 727 E40	50 W
44917600	MAS LED SON-T EM 9Klm 50W 740 E40	50 W
44903900	MAS LED SON-T EM 3.6Klm 23W 727 E27	23 W
44905300	MAS LED SON-T EM 4Klm 23W 740 E27	23 W

Temperature

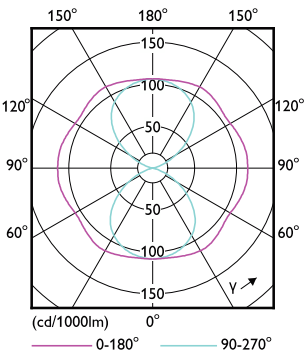
Order Code	Full Product Name	T-Case maximum (nom.)
44915200	MAS LED SON-T EM 8.1Klm 50W 727 E40	52 °C
44917600	MAS LED SON-T EM 9Klm 50W 740 E40	52 °C
44903900	MAS LED SON-T EM 3.6Klm 23W 727 E27	46 °C
44905300	MAS LED SON-T EM 4Klm 23W 740 E27	46 °C

Mechanical and Housing

Order Code	Full Product Name	Bulb shape
44915200	MAS LED SON-T EM 8.1Klm 50W 727 E40	T70
44917600	MAS LED SON-T EM 9Klm 50W 740 E40	T70
44903900	MAS LED SON-T EM 3.6Klm 23W 727 E27	T60
44905300	MAS LED SON-T EM 4Klm 23W 740 E27	T60

Approval and Application

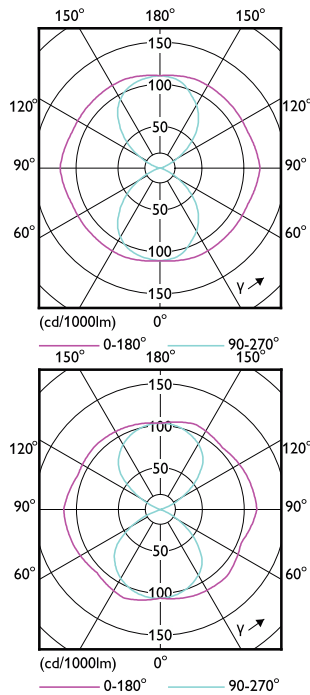
Order Code	Full Product Name	Energy consumption kWh/ 1,000 hours
44915200	MAS LED SON-T EM 8.1Klm 50W 727 E40	50 kWh
44917600	MAS LED SON-T EM 9Klm 50W 740 E40	50 kWh
44903900	MAS LED SON-T EM 3.6Klm 23W 727 E27	23 kWh
44905300	MAS LED SON-T EM 4Klm 23W 740 E27	23 kWh
44909100	MAS LED SON-T EM 5.4Klm 34W 727 E27	34 kWh
44911400	MAS LED SON-T EM 6Klm 34W 740 E27	34 kWh
44923700	MAS LED SON-T EM 12Klm 65W 740 E40	65 kWh



Order Code	Full Product Name	Power Consumption
44909100	MAS LED SON-T EM 5.4Klm 34W 727 E27	34 W
44911400	MAS LED SON-T EM 6Klm 34W 740 E27	34 W
44923700	MAS LED SON-T EM 12Klm 65W 740 E40	65 W

Order Code	Full Product Name	T-Case maximum (nom.)
44909100	MAS LED SON-T EM 5.4Klm 34W 727 E27	59 °C
44911400	MAS LED SON-T EM 6Klm 34W 740 E27	59 °C
44923700	MAS LED SON-T EM 12Klm 65W 740 E40	55 °C

Order Code	Full Product Name	Bulb shape
44909100	MAS LED SON-T EM 5.4Klm 34W 727 E27	T60
44911400	MAS LED SON-T EM 6Klm 34W 740 E27	T60
44923700	MAS LED SON-T EM 12Klm 65W 740 E40	T70



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