



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

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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
- Parking Garages

Warnings and Safety

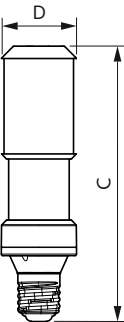
- Please refer to the installation guide or consult a Philips Lighting representative for the wiring diagram and instructions.

Versions



Trueforce LED E27

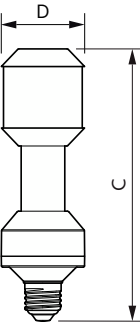
Dimensional drawing



Product	D	C
MAS LED SON-T EM 10.8Klm 65W 727 E40	71 mm	262 mm
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
MAS LED SON-T IF 10.8Klm 65W 727 E40	71 mm	262 mm
MAS LED SON-T IF 12Klm 65W 740 E40	71 mm	262 mm
MAS LED SON-T IF 8.1Klm 50W 727 E40	71 mm	262 mm
MAS LED SON-T IF 9Klm 50W 740 E40	71 mm	262 mm
TForce LED Road 120-68W E40 740	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
MAS LED SON-T IF 3.6Klm 23W 727 E27	61 mm	200 mm
MAS LED SON-T IF 4Klm 23W 740 E27	61 mm	200 mm
MAS LED SON-T IF 5.4Klm 34W 727 E27	61 mm	200 mm
MAS LED SON-T IF 6Klm 34W 740 E27	61 mm	200 mm

General Information	
Switching Cycle	50,000
Light Technical	
Color rendering index (CRI)	70
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Starting Time (Nom)	0.5 s
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Finish	Clear

General Information

Order Code	Full Product Name	Cap-Base	Nominal lifetime
44887200	MAS LED SON-T IF 3.6Klm 23W 727 E27	E27	70,000 hour(s)
44889600	MAS LED SON-T IF 4Klm 23W 740 E27	E27	70,000 hour(s)
44895700	MAS LED SON-T IF 8.1Klm 50W 727 E40	E40	70,000 hour(s)
44897100	MAS LED SON-T IF 9Klm 50W 740 E40	E40	70,000 hour(s)
44915200	MAS LED SON-T EM 8.1Klm 50W 727 E40	E40	70,000 hour(s)
44917600	MAS LED SON-T EM 9Klm 50W 740 E40	E40	70,000 hour(s)
44891900	MAS LED SON-T IF 5.4Klm 34W 727 E27	E27	70,000 hour(s)
44893300	MAS LED SON-T IF 6Klm 34W 740 E27	E27	70,000 hour(s)
44903900	MAS LED SON-T EM 3.6Klm 23W 727 E27	E27	70,000 hour(s)

Order Code	Full Product Name	Cap-Base	Nominal lifetime
44905300	MAS LED SON-T EM 4Klm 23W 740 E27	E27	70,000 hour(s)
44909100	MAS LED SON-T EM 5.4Klm 34W 727 E27	E27	70,000 hour(s)
44911400	MAS LED SON-T EM 6Klm 34W 740 E27	E27	70,000 hour(s)
63910500	TrueForce LED Road 120-68W E40 740	E40	50,000 hour(s)
44899500	MAS LED SON-T IF 10.8Klm 65W 727 E40	E40	70,000 hour(s)
44901500	MAS LED SON-T IF 12Klm 65W 740 E40	E40	70,000 hour(s)
44921300	MAS LED SON-T EM 10.8Klm 65W 727 E40	E40	70,000 hour(s)
44923700	MAS LED SON-T EM 12Klm 65W 740 E40	E40	70,000 hour(s)

Light Technical

		Correlated Color		
		Temperature	Color	Luminous
Order Code	Full Product Name	(Nom)	Code	Flux
44887200	MAS LED SON-T IF 3.6Klm 23W 727 E27	2700 K	727	3,600 lm

		Correlated Color		
		Temperature	Color	Luminous
Order Code	Full Product Name	(Nom)	Code	Flux
44889600	MAS LED SON-T IF 4Klm 23W 740 E27	4000 K	740	4,000 lm

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Order Code	Full Product Name	Correlated Color		
		Temperature (Nom)	Color Code	Luminous Flux
44895700	MAS LED SON-T IF 8.1Klm 50W 727 E40	2700 K	727	8,100 lm
44897100	MAS LED SON-T IF 9Klm 50W 740 E40	4000 K	740	9,000 lm
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
44891900	MAS LED SON-T IF 5.4Klm 34W 727 E27	2700 K	727	5,400 lm
44893300	MAS LED SON-T IF 6Klm 34W 740 E27	4000 K	740	6,000 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

Operating and Electrical

Order Code	Full Product Name	Input	Line	Power
		Frequency	Frequency	Consumption
44887200	MAS LED SON-T IF 3.6Klm 23W 727 E27	50 Hz	50 Hz	23 W
44889600	MAS LED SON-T IF 4Klm 23W 740 E27	50 Hz	50 Hz	23 W
44895700	MAS LED SON-T IF 8.1Klm 50W 727 E40	50 Hz	50 Hz	50 W
44897100	MAS LED SON-T IF 9Klm 50W 740 E40	50 Hz	50 Hz	50 W
44915200	MAS LED SON-T EM 8.1Klm 50W 727 E40	50 to 60 Hz	50 to 60 Hz	50 W
44917600	MAS LED SON-T EM 9Klm 50W 740 E40	50 to 60 Hz	50 to 60 Hz	50 W
44891900	MAS LED SON-T IF 5.4Klm 34W 727 E27	50 Hz	50 Hz	34 W
44893300	MAS LED SON-T IF 6Klm 34W 740 E27	50 Hz	50 Hz	34 W
44903900	MAS LED SON-T EM 3.6Klm 23W 727 E27	50 to 60 Hz	50 to 60 Hz	23 W

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
44887200	MAS LED SON-T IF 3.6Klm 23W 727 E27	46 °C
44889600	MAS LED SON-T IF 4Klm 23W 740 E27	46 °C
44895700	MAS LED SON-T IF 8.1Klm 50W 727 E40	52 °C
44897100	MAS LED SON-T IF 9Klm 50W 740 E40	52 °C
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

Order Code	Full Product Name	Correlated Color		
		Temperature (Nom)	Color 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
63910500	TrueForce LED Road 120-68W E40 740	4000 K	740	12,000 lm
44899500	MAS LED SON-T IF 10.8Klm 65W 727 E40	2700 K	727	10,800 lm
44901500	MAS LED SON-T IF 12Klm 65W 740 E40	4000 K	740	12,000 lm
44921300	MAS LED SON-T EM 10.8Klm 65W 727 E40	2700 K	727	10,800 lm
44923700	MAS LED SON-T EM 12Klm 65W 740 E40	4000 K	740	12,000 lm

Order Code	Full Product Name	Input	Line	Power
		Frequency	Frequency	Consumption
44905300	MAS LED SON-T EM 4Klm 23W 740 E27	50 to 60 Hz	50 to 60 Hz	23 W
44909100	MAS LED SON-T EM 5.4Klm 34W 727 E27	50 to 60 Hz	50 to 60 Hz	34 W
44911400	MAS LED SON-T EM 6Klm 34W 740 E27	50 to 60 Hz	50 to 60 Hz	34 W
63910500	TrueForce LED Road 120-68W E40 740	50 Hz	50 Hz	68 W
44899500	MAS LED SON-T IF 10.8Klm 65W 727 E40	50 Hz	50 Hz	65 W
44901500	MAS LED SON-T IF 12Klm 65W 740 E40	50 Hz	50 Hz	65 W
44921300	MAS LED SON-T EM 10.8Klm 65W 727 E40	50 to 60 Hz	50 to 60 Hz	65 W
44923700	MAS LED SON-T EM 12Klm 65W 740 E40	50 to 60 Hz	50 to 60 Hz	65 W

Order Code	Full Product Name	T-Case Maximum (Nom)
44891900	MAS LED SON-T IF 5.4Klm 34W 727 E27	59 °C
44893300	MAS LED SON-T IF 6Klm 34W 740 E27	59 °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
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

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Order Code	Full Product Name	T-Case Maximum (Nom)
63910500	TrueForce LED Road 120-68W E40 740	103 °C
44899500	MAS LED SON-T IF 10.8Klm 65W 727 E40	55 °C
44901500	MAS LED SON-T IF 12Klm 65W 740 E40	55 °C

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
44887200	MAS LED SON-T IF 3.6Klm 23W 727 E27	T60
44889600	MAS LED SON-T IF 4Klm 23W 740 E27	T60
44895700	MAS LED SON-T IF 8.1Klm 50W 727 E40	T70
44897100	MAS LED SON-T IF 9Klm 50W 740 E40	T70
44915200	MAS LED SON-T EM 8.1Klm 50W 727 E40	T70
44917600	MAS LED SON-T EM 9Klm 50W 740 E40	T70
44891900	MAS LED SON-T IF 5.4Klm 34W 727 E27	T60
44893300	MAS LED SON-T IF 6Klm 34W 740 E27	T60
44903900	MAS LED SON-T EM 3.6Klm 23W 727 E27	T60

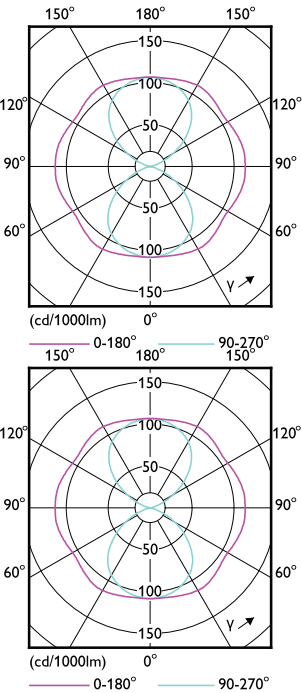
Approval and Application

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
44887200	MAS LED SON-T IF 3.6Klm 23W 727 E27	-30 to +45 °C	23 kWh
44889600	MAS LED SON-T IF 4Klm 23W 740 E27	-30 to +45 °C	23 kWh
44895700	MAS LED SON-T IF 8.1Klm 50W 727 E40	-30 to +45 °C	50 kWh
44897100	MAS LED SON-T IF 9Klm 50W 740 E40	-30 to +45 °C	50 kWh
44915200	MAS LED SON-T EM 8.1Klm 50W 727 E40	-30 to +45 °C	50 kWh
44917600	MAS LED SON-T EM 9Klm 50W 740 E40	-30 to +45 °C	50 kWh
44891900	MAS LED SON-T IF 5.4Klm 34W 727 E27	-30 to +45 °C	34 kWh
44893300	MAS LED SON-T IF 6Klm 34W 740 E27	-30 to +45 °C	34 kWh
44903900	MAS LED SON-T EM 3.6Klm 23W 727 E27	-30 to +45 °C	23 kWh
44905300	MAS LED SON-T EM 4Klm 23W 740 E27	-30 to +45 °C	23 kWh
44909100	MAS LED SON-T EM 5.4Klm 34W 727 E27	-30 to +45 °C	34 kWh
44911400	MAS LED SON-T EM 6Klm 34W 740 E27	-30 to +45 °C	34 kWh
63910500	TrueForce LED Road 120-68W E40 740	-	68 kWh
44899500	MAS LED SON-T IF 10.8Klm 65W 727 E40	-30 to +45 °C	65 kWh

Order Code	Full Product Name	T-Case Maximum (Nom)
44921300	MAS LED SON-T EM 10.8Klm 65W 727 E40	55 °C
44923700	MAS LED SON-T EM 12Klm 65W 740 E40	55 °C

Order Code	Full Product Name	Bulb Shape
44905300	MAS LED SON-T EM 4Klm 23W 740 E27	T60
44909100	MAS LED SON-T EM 5.4Klm 34W 727 E27	T60
44911400	MAS LED SON-T EM 6Klm 34W 740 E27	T60
63910500	TrueForce LED Road 120-68W E40 740	Others
44899500	MAS LED SON-T IF 10.8Klm 65W 727 E40	T70
44901500	MAS LED SON-T IF 12Klm 65W 740 E40	T70
44921300	MAS LED SON-T EM 10.8Klm 65W 727 E40	T70
44923700	MAS LED SON-T EM 12Klm 65W 740 E40	T70

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
44901500	MAS LED SON-T IF 12Klm 65W 740 E40	-30 to +45 °C	65 kWh
44921300	MAS LED SON-T EM 10.8Klm 65W 727 E40	-30 to +45 °C	65 kWh
44923700	MAS LED SON-T EM 12Klm 65W 740 E40	-30 to +45 °C	65 kWh



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