



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

MASTER - LED HID SON-T

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

Features

- High energy efficiency
- Long lifetime of 50,000 hours
- Right size and light distribution for retrofits
- Direct LED replacement, no need to change the luminaire
- Pleasant white light with CRI70
- Surge protection 6KV

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Application

- Road and Street
- Tunnel
- Parking Garages

Warnings and Safety

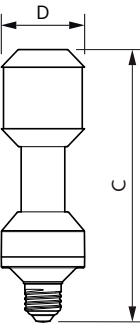
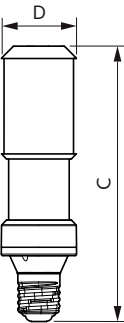
- Please refer to the installation guide or consult a Philips Lighting representative for the wiring diagram and instructions.

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 55W E40 740 MV	71 mm	262 mm

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
TForce LED Road 35W E27 740 MV	61 mm	200 mm

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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
929003467012	MAS LED SON-T IF 3.6Klm 23W 727 E27	E27	70,000 hour(s)
929003467112	MAS LED SON-T IF 4Klm 23W 740 E27	E27	70,000 hour(s)
929002068708	TForce LED Road 55W E40 740 MV	E40	50,000 hour(s)
929003467412	MAS LED SON-T IF 8.1Klm 50W 727 E40	E40	70,000 hour(s)
929003467512	MAS LED SON-T IF 9Klm 50W 740 E40	E40	70,000 hour(s)
929003468418	MAS LED SON-T EM 8.1Klm 50W 727 E40	E40	70,000 hour(s)
929003468518	MAS LED SON-T EM 9Klm 50W 740 E40	E40	70,000 hour(s)
929002068508	TForce LED Road 35W E27 740 MV	E27	50,000 hour(s)
929003467212	MAS LED SON-T IF 5.4Klm 34W 727 E27	E27	70,000 hour(s)
929003467312	MAS LED SON-T IF 6Klm 34W 740 E27	E27	70,000 hour(s)

Order Code	Full Product Name	Cap-Base	Nominal lifetime
929003467818	MAS LED SON-T EM 3.6Klm 23W 727 E27	E27	70,000 hour(s)
929003467918	MAS LED SON-T EM 4Klm 23W 740 E27	E27	70,000 hour(s)
929003468118	MAS LED SON-T EM 5.4Klm 34W 727 E27	E27	70,000 hour(s)
929003468218	MAS LED SON-T EM 6Klm 34W 740 E27	E27	70,000 hour(s)
929003467612	MAS LED SON-T IF 10.8Klm 65W 727 E40	E40	70,000 hour(s)
929003467712	MAS LED SON-T IF 12Klm 65W 740 E40	E40	70,000 hour(s)
929003468718	MAS LED SON-T EM 10.8Klm 65W 727 E40	E40	70,000 hour(s)
929003468818	MAS LED SON-T EM 12Klm 65W 740 E40	E40	70,000 hour(s)

Light Technical

Order Code	Full Product Name	Correlated Color		
		Temperature (Nom)	Color Code	Luminous Flux
929003467012	MAS LED SON-T IF 3.6Klm 23W 727 E27	2700 K	727	3,600 lm
929003467112	MAS LED SON-T IF 4Klm 23W 740 E27	4000 K	740	4,000 lm
929002068708	TForce LED Road 55W E40 740 MV	4000 K	740	9,000 lm
929003467412	MAS LED SON-T IF 8.1Klm 50W 727 E40	2700 K	727	8,100 lm
929003467512	MAS LED SON-T IF 9Klm 50W 740 E40	4000 K	740	9,000 lm
929003468418	MAS LED SON-T EM 8.1Klm 50W 727 E40	2700 K	727	8,100 lm
929003468518	MAS LED SON-T EM 9Klm 50W 740 E40	4000 K	740	9,000 lm

Order Code	Full Product Name	Correlated Color		
		Temperature (Nom)	Color Code	Luminous Flux
929002068508	TForce LED Road 35W E27 740 MV	4000 K	740	6,000 lm
929003467212	MAS LED SON-T IF 5.4Klm 34W 727 E27	2700 K	727	5,400 lm
929003467312	MAS LED SON-T IF 6Klm 34W 740 E27	4000 K	740	6,000 lm
929003467818	MAS LED SON-T EM 3.6Klm 23W 727 E27	2700 K	727	3,600 lm
929003467918	MAS LED SON-T EM 4Klm 23W 740 E27	4000 K	740	4,000 lm
929003468118	MAS LED SON-T EM 5.4Klm 34W 727 E27	2700 K	727	5,400 lm
929003468218	MAS LED SON-T EM 6Klm 34W 740 E27	4000 K	740	6,000 lm

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Order Code	Full Product Name	Correlated Color		
		Temperature (Nom)	Color Code	Luminous Flux
929003467612	MAS LED SON-T IF 10.8Klm 65W 727 E40	2700 K	727	10,800 lm
929003467712	MAS LED SON-T IF 12Klm 65W 740 E40	4000 K	740	12,000 lm

Order Code	Full Product Name	Correlated Color		
		Temperature (Nom)	Color Code	Luminous Flux
929003468718	MAS LED SON-T EM 10.8Klm 65W 727 E40	2700 K	727	10,800 lm
929003468818	MAS LED SON-T EM 12Klm 65W 740 E40	4000 K	740	12,000 lm

Operating and Electrical

Order Code	Full Product Name	Input	Line	Power
		Frequency	Frequency	Consumption
929003467012	MAS LED SON-T IF 3.6Klm 23W 727 E27	50 Hz	50 Hz	23 W
929003467112	MAS LED SON-T IF 4Klm 23W 740 E27	50 Hz	50 Hz	23 W
929002068708	TForce LED Road 55W E40 740 MV	50 to 60 Hz	50 to 60 Hz	55 W
929003467412	MAS LED SON-T IF 8.1Klm 50W 727 E40	50 Hz	50 Hz	50 W
929003467512	MAS LED SON-T IF 9Klm 50W 740 E40	50 Hz	50 Hz	50 W
929003468418	MAS LED SON-T EM 8.1Klm 50W 727 E40	50 to 60 Hz	50 to 60 Hz	50 W
929003468518	MAS LED SON-T EM 9Klm 50W 740 E40	50 to 60 Hz	50 to 60 Hz	50 W
929002068508	TForce LED Road 35W E27 740 MV	50 to 60 Hz	50 to 60 Hz	35 W
929003467212	MAS LED SON-T IF 5.4Klm 34W 727 E27	50 Hz	50 Hz	34 W
929003467312	MAS LED SON-T IF 6Klm 34W 740 E27	50 Hz	50 Hz	34 W

Order Code	Full Product Name	Input	Line	Power
		Frequency	Frequency	Consumption
929003467818	MAS LED SON-T EM 3.6Klm 23W 727 E27	50 to 60 Hz	50 to 60 Hz	23 W
929003467918	MAS LED SON-T EM 4Klm 23W 740 E27	50 to 60 Hz	50 to 60 Hz	23 W
929003468118	MAS LED SON-T EM 5.4Klm 34W 727 E27	50 to 60 Hz	50 to 60 Hz	34 W
929003468218	MAS LED SON-T EM 6Klm 34W 740 E27	50 to 60 Hz	50 to 60 Hz	34 W
929003467612	MAS LED SON-T IF 10.8Klm 65W 727 E40	50 Hz	50 Hz	65 W
929003467712	MAS LED SON-T IF 12Klm 65W 740 E40	50 Hz	50 Hz	65 W
929003468718	MAS LED SON-T EM 10.8Klm 65W 727 E40	50 to 60 Hz	50 to 60 Hz	65 W
929003468818	MAS LED SON-T EM 12Klm 65W 740 E40	50 to 60 Hz	50 to 60 Hz	65 W

Temperature

Order Code	Full Product Name	Ambient temperature range	T-Case Maximum (Nom)
929003467012	MAS LED SON-T IF 3.6Klm 23W 727 E27	-30 to +45 °C	46 °C
929003467112	MAS LED SON-T IF 4Klm 23W 740 E27	-30 to +45 °C	46 °C
929002068708	TForce LED Road 55W E40 740 MV	-	97 °C
929003467412	MAS LED SON-T IF 8.1Klm 50W 727 E40	-30 to +45 °C	52 °C
929003467512	MAS LED SON-T IF 9Klm 50W 740 E40	-30 to +45 °C	52 °C

Order Code	Full Product Name	Ambient temperature range	T-Case Maximum (Nom)
929003468418	MAS LED SON-T EM 8.1Klm 50W 727 E40	-30 to +45 °C	52 °C
929003468518	MAS LED SON-T EM 9Klm 50W 740 E40	-30 to +45 °C	52 °C
929002068508	TForce LED Road 35W E27 740 MV	-	95 °C
929003467212	MAS LED SON-T IF 5.4Klm 34W 727 E27	-30 to +45 °C	59 °C
929003467312	MAS LED SON-T IF 6Klm 34W 740 E27	-30 to +45 °C	59 °C

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Order Code	Full Product Name	T-Case	
		Ambient temperature range	Maximum (Nom)
929003467818	MAS LED SON-T EM 3.6Klm 23W 727 E27	-30 to +45 °C	46 °C
929003467918	MAS LED SON-T EM 4Klm 23W 740 E27	-30 to +45 °C	46 °C
929003468118	MAS LED SON-T EM 5.4Klm 34W 727 E27	-30 to +45 °C	59 °C
929003468218	MAS LED SON-T EM 6Klm 34W 740 E27	-30 to +45 °C	59 °C

Order Code	Full Product Name	T-Case	
		Ambient temperature range	Maximum (Nom)
929003467612	MAS LED SON-T IF 10.8Klm 65W 727 E40	-30 to +45 °C	55 °C
929003467712	MAS LED SON-T IF 12Klm 65W 740 E40	-30 to +45 °C	55 °C
929003468718	MAS LED SON-T EM 10.8Klm 65W 727 E40	-30 to +45 °C	55 °C
929003468818	MAS LED SON-T EM 12Klm 65W 740 E40	-30 to +45 °C	55 °C

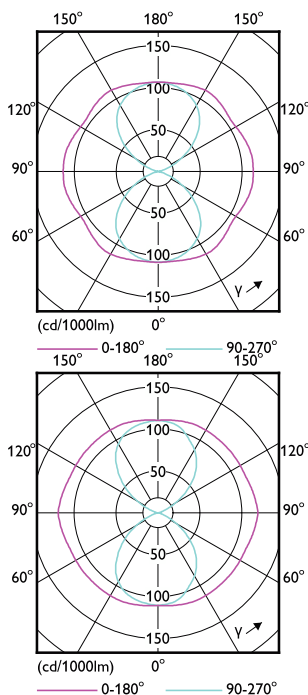
Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
929003467012	MAS LED SON-T IF 3.6Klm 23W 727 E27	T60
929003467112	MAS LED SON-T IF 4Klm 23W 740 E27	T60
929002068708	TForce LED Road 55W E40 740 MV	Others
929003467412	MAS LED SON-T IF 8.1Klm 50W 727 E40	T70
929003467512	MAS LED SON-T IF 9Klm 50W 740 E40	T70
929003468418	MAS LED SON-T EM 8.1Klm 50W 727 E40	T70
929003468518	MAS LED SON-T EM 9Klm 50W 740 E40	T70
929002068508	TForce LED Road 35W E27 740 MV	Others
929003467212	MAS LED SON-T IF 5.4Klm 34W 727 E27	T60

Order Code	Full Product Name	Bulb Shape
929003467312	MAS LED SON-T IF 6Klm 34W 740 E27	T60
929003467818	MAS LED SON-T EM 3.6Klm 23W 727 E27	T60
929003467918	MAS LED SON-T EM 4Klm 23W 740 E27	T60
929003468118	MAS LED SON-T EM 5.4Klm 34W 727 E27	T60
929003468218	MAS LED SON-T EM 6Klm 34W 740 E27	T60
929003467612	MAS LED SON-T IF 10.8Klm 65W 727 E40	T70
929003467712	MAS LED SON-T IF 12Klm 65W 740 E40	T70
929003468718	MAS LED SON-T EM 10.8Klm 65W 727 E40	T70
929003468818	MAS LED SON-T EM 12Klm 65W 740 E40	T70

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
929003467012	MAS LED SON-T IF 3.6Klm 23W 727 E27	23 kWh
929003467112	MAS LED SON-T IF 4Klm 23W 740 E27	23 kWh
929002068708	TForce LED Road 55W E40 740 MV	55 kWh
929003467412	MAS LED SON-T IF 8.1Klm 50W 727 E40	50 kWh
929003467512	MAS LED SON-T IF 9Klm 50W 740 E40	50 kWh
929003468418	MAS LED SON-T EM 8.1Klm 50W 727 E40	50 kWh
929003468518	MAS LED SON-T EM 9Klm 50W 740 E40	50 kWh
929002068508	TForce LED Road 35W E27 740 MV	35 kWh
929003467212	MAS LED SON-T IF 5.4Klm 34W 727 E27	34 kWh
929003467312	MAS LED SON-T IF 6Klm 34W 740 E27	34 kWh
929003467818	MAS LED SON-T EM 3.6Klm 23W 727 E27	23 kWh
929003467918	MAS LED SON-T EM 4Klm 23W 740 E27	23 kWh
929003468118	MAS LED SON-T EM 5.4Klm 34W 727 E27	34 kWh
929003468218	MAS LED SON-T EM 6Klm 34W 740 E27	34 kWh
929003467612	MAS LED SON-T IF 10.8Klm 65W 727 E40	65 kWh
929003467712	MAS LED SON-T IF 12Klm 65W 740 E40	65 kWh
929003468718	MAS LED SON-T EM 10.8Klm 65W 727 E40	65 kWh
929003468818	MAS LED SON-T EM 12Klm 65W 740 E40	65 kWh



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