



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

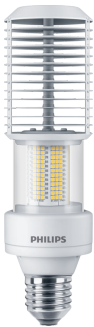
Warnings and Safety

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

Versions

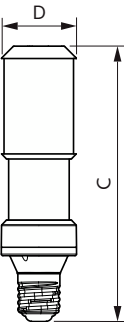


Trueforce LED E27



LEDTForce Road GM T70 E39

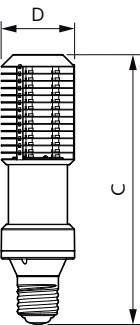
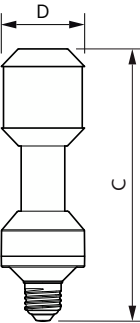
Dimensional drawing



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
TForce LED Road 55W E40 740 MV	71 mm	262 mm

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Dimensional drawing



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

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

Product	D	C
Tforce LED Road 65W E39 750 JP	71 mm	262 mm

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)

Order Code	Full Product Name	Cap-Base	Nominal lifetime
929002221708	TForce LED Road 35W E27 730 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)
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)
929002007702	TForce LED Road 120-68W E40 740	E40	50,000 hour(s)

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Order Code	Full Product Name	Cap-Base	Nominal lifetime
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)

Order Code	Full Product Name	Cap-Base	Nominal lifetime
929003468818	MAS LED SON-T EM 12Klm 65W 740 E40	E40	70,000 hour(s)
929003692008	Tforce LED Road 65W E39 750 JP	E39	50,000 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
929002068508	TForce LED Road 35W E27 740 MV	4000 K	740	6,000 lm
929002221708	TForce LED Road 35W E27 730 MV	3000 K	730	5,500 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

Order Code	Full Product Name	Correlated Color		
		Temperature (Nom)	Color Code	Luminous Flux
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
929002007702	TForce LED Road 120-68W E40 740	4000 K	740	12,000 lm
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
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
929003692008	Tforce LED Road 65W E39 750 JP	5000 K	750	12,000 lm

Operating and Electrical

Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption	Starting Time
					(Nom)
929003467012	MAS LED SON-T IF 3.6Klm 23W 727 E27	50 Hz	50 Hz	23 W	0.5 s
929003467112	MAS LED SON-T IF 4Klm 23W 740 E27	50 Hz	50 Hz	23 W	0.5 s
929002068708	TForce LED Road 55W E40 740 MV	50 to 60 Hz	50 to 60 Hz	55 W	0.5 s

Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption	Starting Time
					(Nom)
929003467412	MAS LED SON-T IF 8.1Klm 50W 727 E40	50 Hz	50 Hz	50 W	0.5 s
929003467512	MAS LED SON-T IF 9Klm 50W 740 E40	50 Hz	50 Hz	50 W	0.5 s
929003468418	MAS LED SON-T EM 8.1Klm 50W 727 E40	50 to 60 Hz	50 to 60 Hz	50 W	0.5 s

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Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption	Starting Time (Nom)
929003468518	MAS LED SON-T EM 9Klm 50W 740 E40	50 to 60 Hz	50 to 60 Hz	50 W	0.5 s
929002068508	TForce LED Road 35W E27 740 MV	50 to 60 Hz	50 to 60 Hz	35 W	0.5 s
929002221708	TForce LED Road 35W E27 730 MV	50 to 60 Hz	50 to 60 Hz	35 W	0.5 s
929003467212	MAS LED SON-T IF 5.4Klm 34W 727 E27	50 Hz	50 Hz	34 W	0.5 s
929003467312	MAS LED SON-T IF 6Klm 34W 740 E27	50 Hz	50 Hz	34 W	0.5 s
929003467818	MAS LED SON-T EM 3.6Klm 23W 727 E27	50 to 60 Hz	50 to 60 Hz	23 W	0.5 s
929003467918	MAS LED SON-T EM 4Klm 23W 740 E27	50 to 60 Hz	50 to 60 Hz	23 W	0.5 s
929003468118	MAS LED SON-T EM	50 to 60 Hz	50 to 60 Hz	34 W	0.5 s

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929003467012	MAS LED SON-T IF 3.6Klm 23W 727 E27	46 °C
929003467112	MAS LED SON-T IF 4Klm 23W 740 E27	46 °C
929002068708	TForce LED Road 55W E40 740 MV	97 °C
929003467412	MAS LED SON-T IF 8.1Klm 50W 727 E40	52 °C
929003467512	MAS LED SON-T IF 9Klm 50W 740 E40	52 °C
929003468418	MAS LED SON-T EM 8.1Klm 50W 727 E40	52 °C
929003468518	MAS LED SON-T EM 9Klm 50W 740 E40	52 °C
929002068508	TForce LED Road 35W E27 740 MV	95 °C
929002221708	TForce LED Road 35W E27 730 MV	95 °C
929003467212	MAS LED SON-T IF 5.4Klm 34W 727 E27	59 °C
929003467312	MAS LED SON-T IF 6Klm 34W 740 E27	59 °C

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
929003467012	MAS LED SON-T IF 3.6Klm 23W 727 E27	T60

Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption	Starting Time (Nom)
929003468218	MAS LED SON-T EM 6Klm 34W 740 E27	50 to 60 Hz	50 to 60 Hz	34 W	0.5 s
929002007702	TForce LED Road 120-68W E40 740	50 Hz	50 Hz	68 W	0.5 s
929003467612	MAS LED SON-T IF 10.8Klm 65W 727 E40	50 Hz	50 Hz	65 W	0.5 s
929003467712	MAS LED SON-T IF 12Klm 65W 740 E40	50 Hz	50 Hz	65 W	0.5 s
929003468718	MAS LED SON-T EM 10.8Klm 65W 727 E40	50 to 60 Hz	50 to 60 Hz	65 W	0.5 s
929003468818	MAS LED SON-T EM 12Klm 65W 740 E40	50 to 60 Hz	50 to 60 Hz	65 W	0.5 s
929003692008	Tforce LED Road 65W E39 750 JP	50 to 60 Hz	-	65 W	3 s

Order Code	Full Product Name	T-Case Maximum (Nom)
929003467818	MAS LED SON-T EM 3.6Klm 23W 727 E27	46 °C
929003467918	MAS LED SON-T EM 4Klm 23W 740 E27	46 °C
929003468118	MAS LED SON-T EM 5.4Klm 34W 727 E27	59 °C
929003468218	MAS LED SON-T EM 6Klm 34W 740 E27	59 °C
929002007702	TForce LED Road 120-68W E40 740	103 °C
929003467612	MAS LED SON-T IF 10.8Klm 65W 727 E40	55 °C
929003467712	MAS LED SON-T IF 12Klm 65W 740 E40	55 °C
929003468718	MAS LED SON-T EM 10.8Klm 65W 727 E40	55 °C
929003468818	MAS LED SON-T EM 12Klm 65W 740 E40	55 °C
929003692008	Tforce LED Road 65W E39 750 JP	58 °C

Order Code	Full Product Name	Bulb Shape
929003467112	MAS LED SON-T IF 4Klm 23W 740 E27	T60

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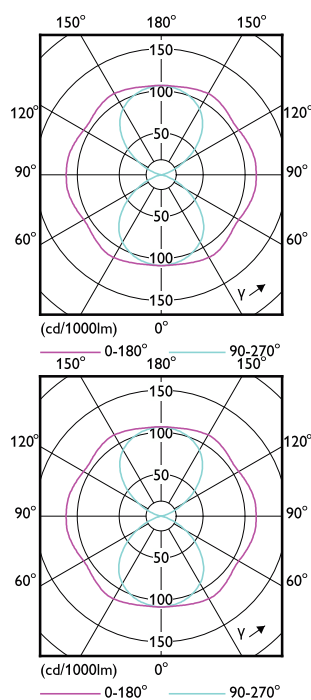
Order Code	Full Product Name	Bulb Shape
929002068708	TForce LED Road 55W E40 740 MV	Others
929003467412	MAS LED SON-T IF 8.1Klm 50W 727 E40	T70
929003467512	MAS LED SON-T IF 9Klm 50W 740 E40	T70
929003468418	MAS LED SON-T EM 8.1Klm 50W 727 E40	T70
929003468518	MAS LED SON-T EM 9Klm 50W 740 E40	T70
929002068508	TForce LED Road 35W E27 740 MV	Others
929002221708	TForce LED Road 35W E27 730 MV	Others
929003467212	MAS LED SON-T IF 5.4Klm 34W 727 E27	T60
929003467312	MAS LED SON-T IF 6Klm 34W 740 E27	T60
929003467818	MAS LED SON-T EM 3.6Klm 23W 727 E27	T60

Order Code	Full Product Name	Bulb Shape
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
929002007702	TForce LED Road 120-68W E40 740	Others
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
929003692008	Tforce LED Road 65W E39 750 JP	T70

Approval and Application

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
929003467012	MAS LED SON-T IF 3.6Klm 23W 727 E27	-30 to +45 °C	23 kWh
929003467112	MAS LED SON-T IF 4Klm 23W 740 E27	-30 to +45 °C	23 kWh
929002068708	TForce LED Road 55W E40 740 MV	-	55 kWh
929003467412	MAS LED SON-T IF 8.1Klm 50W 727 E40	-30 to +45 °C	50 kWh
929003467512	MAS LED SON-T IF 9Klm 50W 740 E40	-30 to +45 °C	50 kWh
929003468418	MAS LED SON-T EM 8.1Klm 50W 727 E40	-30 to +45 °C	50 kWh
929003468518	MAS LED SON-T EM 9Klm 50W 740 E40	-30 to +45 °C	50 kWh
929002068508	TForce LED Road 35W E27 740 MV	-	35 kWh
929002221708	TForce LED Road 35W E27 730 MV	-	35 kWh
929003467212	MAS LED SON-T IF 5.4Klm 34W 727 E27	-30 to +45 °C	34 kWh
929003467312	MAS LED SON-T IF 6Klm 34W 740 E27	-30 to +45 °C	34 kWh
929003467818	MAS LED SON-T EM 3.6Klm 23W 727 E27	-30 to +45 °C	23 kWh
929003467918	MAS LED SON-T EM 4Klm 23W 740 E27	-30 to +45 °C	23 kWh
929003468118	MAS LED SON-T EM 5.4Klm 34W 727 E27	-30 to +45 °C	34 kWh
929003468218	MAS LED SON-T EM 6Klm 34W 740 E27	-30 to +45 °C	34 kWh
929002007702	TForce LED Road 120-68W E40 740	-	68 kWh
929003467612	MAS LED SON-T IF 10.8Klm 65W 727 E40	-30 to +45 °C	65 kWh
929003467712	MAS LED SON-T IF 12Klm 65W 740 E40	-30 to +45 °C	65 kWh

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
929003468718	MAS LED SON-T EM 10.8Klm 65W 727 E40	-30 to +45 °C	65 kWh
929003468818	MAS LED SON-T EM 12Klm 65W 740 E40	-30 to +45 °C	65 kWh
929003692008	Tforce LED Road 65W E39 750 JP	-40 to +45 °C	-



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