

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

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

TrueForce LED Public (Road – SON)

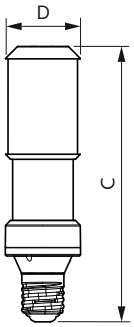
Application

- Road and Street
- Tunnel
- Car parks

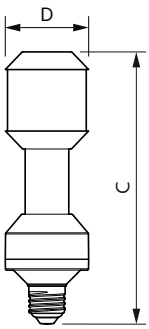
Warnings and Safety

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

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



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

TrueForce LED Public (Road – SON)

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
Temperature	
Ambient temperature range	-30 to +45 °C
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Lamp Finish	Clear

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
44921300	MAS LED SON-T EM 10.8Klm 65W 727 E40	E40
44923700	MAS LED SON-T EM 12Klm 65W 740 E40	E40

Light Technical

Order Code	Full Product Name	Correlated Colour Temperature	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	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
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

Operating and Electrical

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

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
44921300	MAS LED SON-T EM 10.8Klm 65W 727 E40	65 W
44923700	MAS LED SON-T EM 12Klm 65W 740 E40	65 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

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
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

Mechanical and Housing

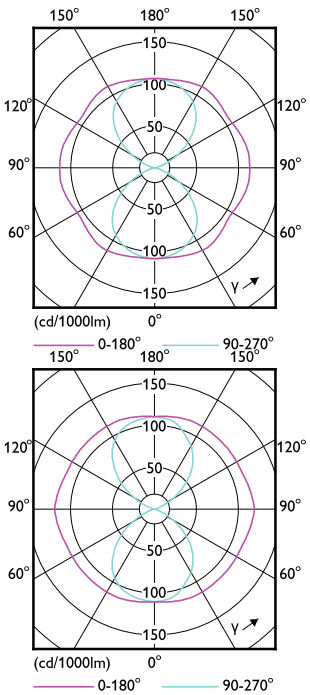
TrueForce LED Public (Road – SON)

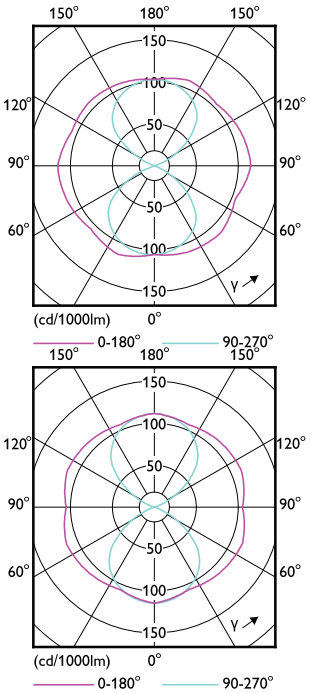
Order Code	Full Product Name	Bulb shape
44915200	MAS LED SON-T EM 8.1Klm 50W 727 E40	T70
44917600	MAS LED SON-T EM 9Klm 50W 740 E40	T70
44903900	MAS LED SON-T EM 3.6Klm 23W 727 E27	T60
44905300	MAS LED SON-T EM 4Klm 23W 740 E27	T60

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
44921300	MAS LED SON-T EM 10.8Klm 65W 727 E40	T70
44923700	MAS LED SON-T EM 12Klm 65W 740 E40	T70

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
44921300	MAS LED SON-T EM 10.8Klm 65W 727 E40	65 kWh
44923700	MAS LED SON-T EM 12Klm 65W 740 E40	65 kWh





© 2023 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. All trademarks are owned by Signify Holding or their respective owners.