



The best LED solution for High Intensity Discharge (HID) HPL lamp replacement

MASTER - LED HID HPL

Philips Master LED HPL lamps offer an easy and short payback LED solution to replace High Intensity Discharge (HID) lamps. The products bring the energy efficiency and long lifetime benefits of LED to HID HPL replacement and provide instant saving and low initial investment. With the right lamp size and light distribution, you can easily retrofit Master LED HPL urban lamps and bypass the existing ballast while enhancing the lighting quality.

Benefits

- Cost saving with short payback time
- Low initial investment
- Enhance lighting quality with easy adoption

Features

- High energy efficiency
- Lifetime 50,000hrs
- IP65 product (IP rated sockets required for outdoor application)
- Surge protection 2KV
- Omnidirectional light around lamp
- Right lamp size and lighting distribution for direct retrofit
- Bypass ballast and save additional energy
- Pleasant white light with CRI 80

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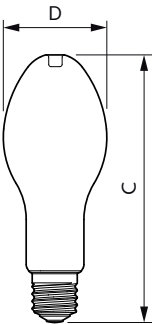
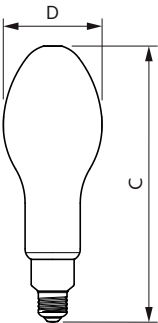
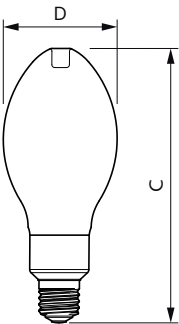
Application

- Parking Garages
- Parks and Plazas
- Road and Street

Warnings and Safety

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

Dimensional drawing



Product	D	C
MAS LED HPL M 2.8Klm 19W 830E27 FR G	71 mm	186 mm
MAS LED HPL M 3Klm 19W 840 E27 FR G	71 mm	186 mm

Product	D	C
MAS LED HPL M 3.8Klm 24W 830 E27 FR G	91 mm	249 mm
MAS LED HPL M 4Klm 24W 840 E27 FR G	91 mm	249 mm
MAS LED HPL M 5.6Klm 33.5W 830 E27 FR G	91 mm	249 mm
MAS LED HPL M 6Klm 33.5W 840 E27 FR G	91 mm	249 mm

Product	D	C
MAS LED HPL M 5.6Klm 33.5W 830 E40 FR G	91 mm	238 mm
MAS LED HPL M 6Klm 33.5W 840 E40 FR G	91 mm	238 mm

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General Information	
Switching Cycle	50,000
Nominal lifetime	50,000 hour(s)
Light Technical	
Beam Angle (Nom)	300 degree(s)
Color rendering index (CRI)	80
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	
Bulb Finish	Frosted
Bulb Shape	Tube, single-ended

General Information

Order Code	Full Product Name	Cap-Base
45197100	MAS LED HPL M 3.8Klm 24W 830 E27 FR G	E27
45199500	MAS LED HPL M 4Klm 24W 840 E27 FR G	E27
45201500	MAS LED HPL M 5.6Klm 33.5W 830 E27 FR G	E27
45203900	MAS LED HPL M 6Klm 33.5W 840 E27 FR G	E27
45205300	MAS LED HPL M 5.6Klm 33.5W 830 E40 FR G	E40
45207700	MAS LED HPL M 6Klm 33.5W 840 E40 FR G	E40
45193300	MAS LED HPL M 2.8Klm 19W 830E27 FR G	E27
45195700	MAS LED HPL M 3Klm 19W 840 E27 FR G	E27

Light Technical

Order Code	Full Product Name	Correlated Color		
		Temperature (Nom)	Color Code	Luminous Flux
45197100	MAS LED HPL M 3.8Klm 24W 830 E27 FR G	3000 K	830	3,850 lm
45199500	MAS LED HPL M 4Klm 24W 840 E27 FR G	4000 K	840	4,000 lm
45201500	MAS LED HPL M 5.6Klm 33.5W 830 E27 FR G	3000 K	830	5,600 lm
45203900	MAS LED HPL M 6Klm 33.5W 840 E27 FR G	4000 K	840	6,000 lm

Order Code	Full Product Name	Correlated Color		
		Temperature (Nom)	Color Code	Luminous Flux
45205300	MAS LED HPL M 5.6Klm 33.5W 830 E40 FR G	3000 K	830	5,600 lm
45207700	MAS LED HPL M 6Klm 33.5W 840 E40 FR G	4000 K	840	6,000 lm
45193300	MAS LED HPL M 2.8Klm 19W 830E27 FR G	3000 K	830	2,850 lm
45195700	MAS LED HPL M 3Klm 19W 840 E27 FR G	4000 K	840	3,100 lm

Operating and Electrical

Order Code	Full Product Name	Power Consumption
45197100	MAS LED HPL M 3.8Klm 24W 830 E27 FR G	24 W
45199500	MAS LED HPL M 4Klm 24W 840 E27 FR G	24 W
45201500	MAS LED HPL M 5.6Klm 33.5W 830 E27 FR G	33.5 W
45203900	MAS LED HPL M 6Klm 33.5W 840 E27 FR G	33.5 W

Order Code	Full Product Name	Power Consumption
45205300	MAS LED HPL M 5.6Klm 33.5W 830 E40 FR G	33.5 W
45207700	MAS LED HPL M 6Klm 33.5W 840 E40 FR G	33.5 W
45193300	MAS LED HPL M 2.8Klm 19W 830E27 FR G	19 W
45195700	MAS LED HPL M 3Klm 19W 840 E27 FR G	19 W

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
45197100	MAS LED HPL M 3.8Klm 24W 830 E27 FR G	55 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
45199500	MAS LED HPL M 4Klm 24W 840 E27 FR G	55 °C

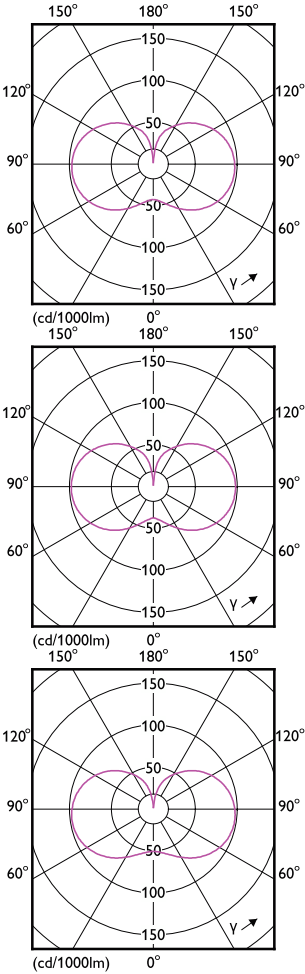
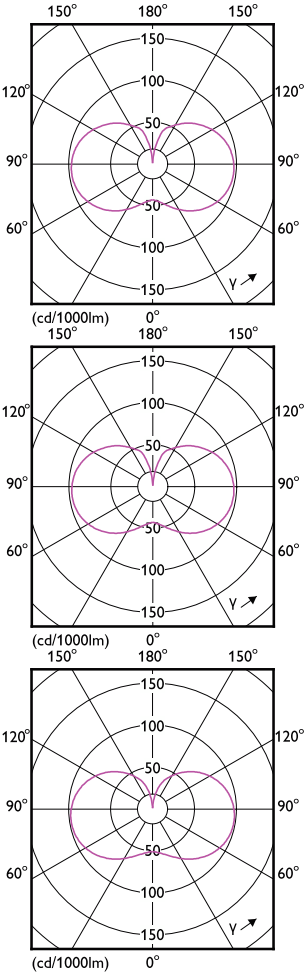
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Order Code	Full Product Name	T-Case Maximum (Nom)
45201500	MAS LED HPL M 5.6Klm 33.5W 830 E27 FR G	65 °C
45203900	MAS LED HPL M 6Klm 33.5W 840 E27 FR G	65 °C
45205300	MAS LED HPL M 5.6Klm 33.5W 830 E40 FR G	65 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
45207700	MAS LED HPL M 6Klm 33.5W 840 E40 FR G	65 °C
45193300	MAS LED HPL M 2.8Klm 19W 830E27 FR G	60 °C
45195700	MAS LED HPL M 3Klm 19W 840 E27 FR G	60 °C

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
45197100	MAS LED HPL M 3.8Klm 24W 830 E27 FR G	24 kWh
45199500	MAS LED HPL M 4Klm 24W 840 E27 FR G	24 kWh
45201500	MAS LED HPL M 5.6Klm 33.5W 830 E27 FR G	34 kWh
45203900	MAS LED HPL M 6Klm 33.5W 840 E27 FR G	34 kWh
45205300	MAS LED HPL M 5.6Klm 33.5W 830 E40 FR G	34 kWh
45207700	MAS LED HPL M 6Klm 33.5W 840 E40 FR G	34 kWh
45193300	MAS LED HPL M 2.8Klm 19W 830E27 FR G	19 kWh
45195700	MAS LED HPL M 3Klm 19W 840 E27 FR G	19 kWh



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