



MASTER - LED HID HPL



MAS LED HPL M 4Klm 24W 840 E27 FR G

MASTER, LED HPL, Oval, Mains only, 24 W, HPL 125W, SON 70W, E27, 4000 K, 4000 lm, CRI 80, 50000 hour(s)

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.

Warnings and Safety

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

Product data

General Information		Color Designation	
Cap-Base	E27	Color Designation	Cool White (CW)
Nominal lifetime	50,000 hour(s)	Correlated Color Temperature (Nom)	4000 K
Switching Cycle	50,000	Luminous Efficacy (rated) (Nom)	166 lm/W
Lighting Technology	LED HPL	Color Consistency	<6
Flux measurement reference	Sphere	Color rendering index (CRI)	80
Warranty period	5 years	LLMF At End Of Nominal Lifetime (Nom)	70 %
		Photobiological safety according to EN 62471	RG0
Light Technical		Operating and Electrical	
Color Code	840 [CCT of 4000K]	Line Frequency	50 to 60 Hz
Beam Angle (Nom)	300 degree(s)	Input Frequency	50 to 60 Hz
Luminous Flux	4,000 lm	Power Consumption	24 W

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Lamp Current (Nom)	110 mA
Starting Time (Nom)	0.5 s
Warm-up time to 60% light	45 s
Power Factor (Fraction)	0.9
Voltage (Nom)	220-240 V
Inrush current at mains	23.2
Max. lamp no. on MCB B type 10A - Mains	8
Max. lamp no. on MCB B type 10A - EM ballast without Compensation Capacitor.	-
Max. lamp no. on MCB B type 10A - EM ballast with Compensation Capacitor.	-
Max. lamp no. on MCB B type 16A - Mains	13
Max. lamp no. on MCB B type 16A - EM ballast without Compensation Capacitor.	-
Max. lamp no. on MCB B type 16A - EM ballast with Compensation Capacitor.	-
Wattage Equivalent (LED HID only)	HPL 125W, SON 70W
Ballast Compatibility	Mains only

Temperature

T-Case Maximum (Nom)	55 °C
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Controls and Dimming

Dimmable	No
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Mechanical and Housing

Bulb Finish	Frosted
Bulb Material	Glass
Bulb Shape	Oval
Net Weight (Piece)	0.190 kg

Approval and Application

Energy Efficiency Class	C
Energy Saving Product	Yes
Energy Consumption kWh/1000 h	24 kWh
EPREL Registration Number	1363718
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	1.6
Ambient temperature range	-30 to +45 °C

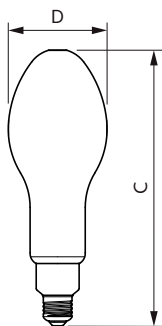
Application Conditions

Wireless Technology	Not applicable
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Product Data

Order product name	MAS LED HPL M 4Klm 24W 840 E27 FR G
Full product name	MAS LED HPL M 4Klm 24W 840 E27 FR G
Full product code	871951445199500
Order code	929003531002
Material Nr. (12NC)	929003531002
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8719514451995
Numerator - Packs per outer box	6
EAN/UPC - Case	8719514452008

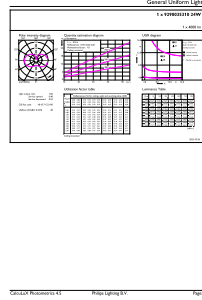
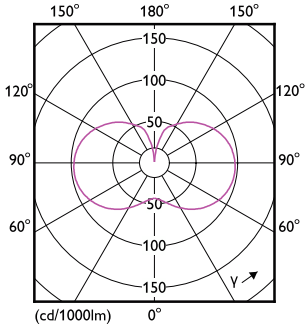
Dimensional drawing



Product	D	C
MAS LED HPL M 4Klm 24W 840 E27 FR G	91 mm	249 mm

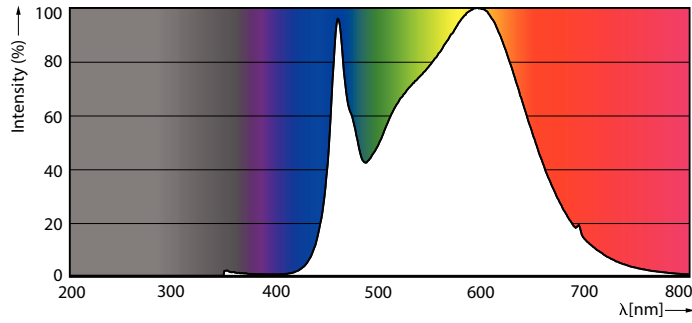
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Photometric data



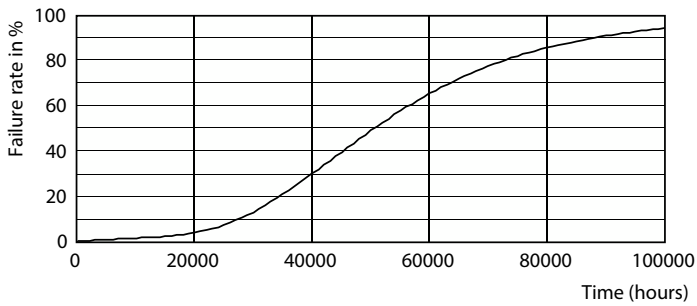
Light Distribution Diagram - MAS LED HPL M 4Klm 24W 840 E27 FR G

General uniform lighting - MAS LED HPL M 4Klm 24W 840 E27 FR G

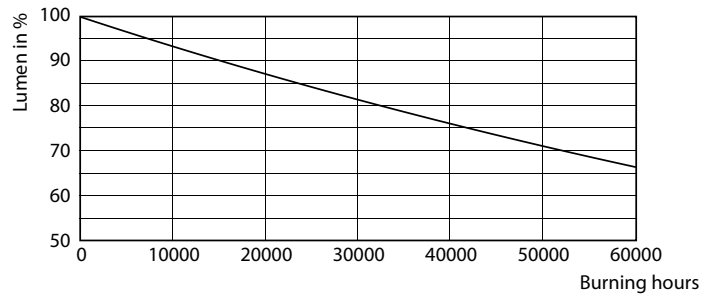


Spectral Power Distribution Colour - MAS LED HPL M 4Klm 24W 840 E27 FR G

Lifetime



Life Expectancy Diagram



Lumen Maintenance Diagram - MAS LED HPL M 4Klm 24W 840 E27 FR G

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