



MASTER - LED HID HPL



MAS LED HPL M 3.8Klm 24W 830 E27 FR G

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		LLMF At End Of Nominal Lifetime (Nom)	
Cap-Base	E27		70 %
Nominal lifetime	50,000 hour(s)	Photobiological safety according to EN 62471	RG0
Switching Cycle	50,000		
Lighting Technology	LED	Operating and Electrical	
Flux measurement reference	Sphere	Line Frequency	50 to 60 Hz
		Input Frequency	50 to 60 Hz
		Power Consumption	24 W
		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
		Ballast Compatibility	Mains
		Inrush current at mains	23.2
		Max. lamp no. on MCB B type 10A - Mains	8
Light Technical			
Color Code	830 [CCT of 3000K]		
Beam Angle (Nom)	300 degree(s)		
Luminous Flux	3,850 lm		
Color Designation	White (WH)		
Correlated Color Temperature (Nom)	3000 K		
Luminous Efficacy (rated) (Nom)	160 lm/W		
Color Consistency	<6		
Color rendering index (CRI)	80		

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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.	-

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	Tube, single-ended
Net Weight (Piece)	0.190 kg

Approval and Application

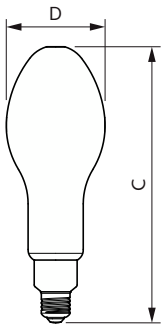
Energy Efficiency Class	C
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Energy Consumption kWh/1000 h	24 kWh
EPREL Registration Number	1363717
CE mark	Yes
EU RoHS compliant	Yes
Flickering value (PstLM) - Flickering value as per EN 61000-3-3	1
Stroboscopic effect visibility measure (SVM)	1.6
Ambient temperature range	-30 to +45 °C

Product Data

Order product name	MAS LED HPL M 3.8Klm 24W 830 E27 FR G
Full product name	MAS LED HPL M 3.8Klm 24W 830 E27 FR G
Full product code	871951445197100
Order code	929003530902
Material Nr. (12NC)	929003530902
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8719514451971
Numerator - Packs per outer box	6
EAN/UPC - Case	8719514451988

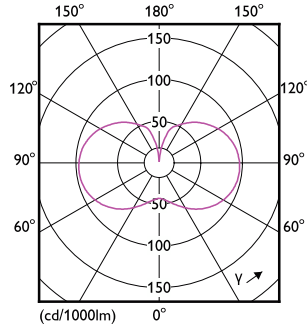
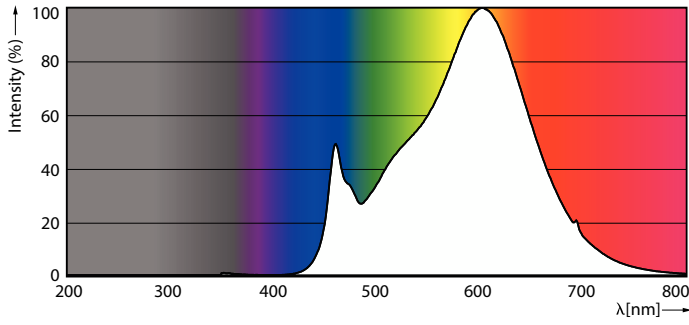
Dimensional drawing



Product	D	C
MAS LED HPL M 3.8Klm 24W 830 E27 FR G	91 mm	249 mm

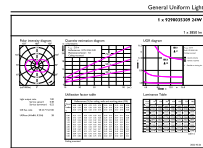
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Photometric data



Spectral Power Distribution Colour - MAS LED HPL M 3.8Klm 24W 830 E27 FR G

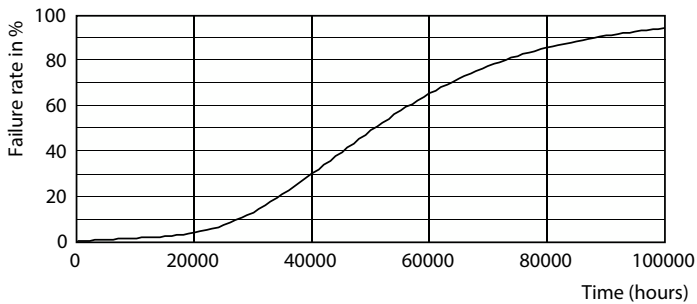
Light Distribution Diagram - MAS LED HPL M 3.8Klm 24W 830 E27 FR G



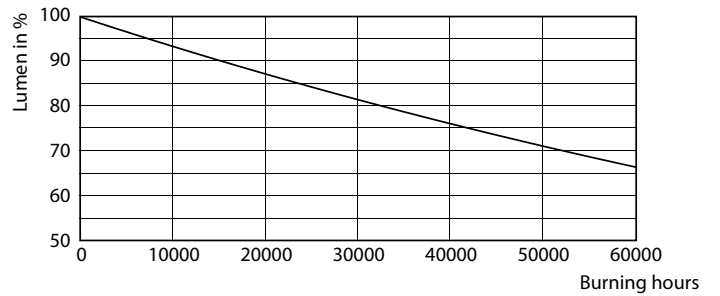
General Uniform Lighting
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General uniform lighting - MAS LED HPL M 3.8Klm 24W 830 E27 FR G

Lifetime



Life Expectancy Diagram



Lumen Maintenance Diagram - MAS LED HPL M 3.8Klm 24W 830 E27 FR G

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