



# Green Flagship product as best environmental choice in the energy saving lamps portfolio

## MASTER PL-Electronic Polar

Energy-saving covered lamps for outdoor professional applications – the perfect choice for end-users who demand the best performance and reliability. The product family offers different wattages to suit different applications.

### Benefits

- The perfect choice for extreme temperature resistant with best performance & reliability
- Save your money with long life-time and high energy efficiency
- Lifetime independent of switching on-off

### Features

- Lightweight, superior long-life and energy saving alternative to incandescent lamps
- Very Suitable for frequent switching
- Very good lumen maintenance throughout the lifetime of the lamp
- Fast Run-up
- Suitable for emergency lighting with DC supply

# MASTER PL-Electronic Polar

## Application

- Designed to replace incandescent lamps in most professional and semi-professional applications
- Enclosed fixtures required for outdoor applications
- Not suitable for use with dimmers or electronic gear

## Versions

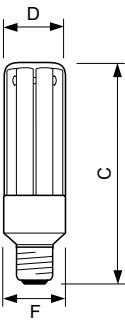


20W, E27



23W, E27

## Dimensional drawing



Product	D (max)	C (max)	F (max)
MASTER PL-E Polar 23W/827 E27 1CH/6	50.8 mm	158.0 mm	48.0 mm
MASTER PL-E Polar 20W/827 E27 1CH/6	50.8 mm	143.0 mm	48.0 mm

## MASTER PL-Electronic Polar

### Approval and Application

Energy Efficiency Label (EEL)	A
Mercury (Hg) Content (Max)	1.5 mg

### Controls and Dimming

Dimmable	No
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### Operating and Electrical

Input Frequency	50 or 60 Hz
Voltage (Nom)	220-240 V
Starting Time (Nom)	1.0 s
Warm Up Time To 60% Light (Max)	60 s
Warm Up Time To 60% Light (Min)	10 s

### General Information

Cap-Base	E27
Nominal Lifetime (Nom)	15000 h
Rated Lifetime (Hours)	15000 h
Switching Cycle	50000X

### Light Technical

Chromaticity Coordinate X (Nom)	457
Chromaticity Coordinate Y (Nom)	416
Color Code	827
Color Designation	Warm White (WW)
Correlated Color Temperature (Nom)	2700 K
Color Rendering Index (Nom)	82
Llmf At End Of Nominal Lifetime (Nom)	65 %
Lumen Maintenance 2000 h (Nom)	95 %
Lumen Maintenance 5000 h (Nom)	90 %

### Mechanical and Housing

Bulb Shape	Stick
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### Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/	Mercury (Hg)
		1000 h	Content (Nom)
929746197104	MASTER PL-E Polar 20W/827 E27 1CH/6	20 kWh	-
929747197104	MASTER PL-E Polar 23W/827 E27 1CH/6	23 kWh	1.41 mg

### Operating and Electrical

Order Code	Full Product Name	Lamp	Wattage	Power
		Current (Nom)	Equivalent	(Rated) (Nom)
929746197104	MASTER PL-E Polar 20W/827 E27 1CH/6	140 mA	90 W	20.0 W



## MASTER PL-Electronic Polar

Order Code	Full Product Name	Lamp	Wattage Equivalent	Power
		Current (Nom)		(Rated) (Nom)
929747197104	MASTER PL-E Polar 23W/827 E27 1CH/6	156 mA	105 W	23.0 W

### Light Technical

Order Code	Full Product Name	Luminous	Luminous Flux (Nom)	Luminous Flux
		Efficacy (rated) (Nom)		(Rated) (Nom)
929746197104	MASTER PL-E Polar 20W/827 E27 1CH/6	64 lm/W	1220 lm	1220 lm

Order Code	Full Product Name	Luminous	Luminous Flux (Nom)	Luminous Flux
		Efficacy (rated) (Nom)		(Rated) (Nom)
929747197104	MASTER PL-E Polar 23W/827 E27 1CH/6	63 lm/W	1485 lm	1485 lm

