



Product Description

MASTER PL-Electronic Polar

Non-covered energy-saving lamps with extra-long life (15,000 and 20,000 hours) Green Flagship product as best environmental choice in the CFL portfolio Complete range equipped with unique Philips bridged burner technology Especially suitable where higher wattages are important The best choice for the lowest long-term lamp costs

Benefits

- Highest energy efficiency, resulting in one-fifth of the energy consumption of an incandescent lamp for the same light output
- Lowest total cost of ownership
- Highest reliability throughout life, which is especially beneficial where lighting is required for longer periods of time and / or where lamp replacement is difficult
- The unique bridged burner results in an excellent run-up time with very high initial light output and better thermal performance
- Lifetime independent of switching on/off

Features

- Lightweight, superior long-life alternative to incandescent lamps
- The perfect choice for end users who demand the best performance and reliability
- Extremely long lifetime – up to 20,000 hours
- European energy efficiency labeling class A for the complete range
- Very good lumen maintenance throughout the lifetime of the lamp
- Very low mercury content (1.4 mg)

Application

- Designed to replace incandescent lamps in most professional and semi-professional applications
- Mainly indoor (e.g. hotels, restaurants, offices)
- For outdoor applications, three types (15, 20, 23 W) will remain available, also in Amalgam, with the benefit of virtually constant light output (>90%) over the recommended temperature
- Enclosed fixtures required for outdoor applications
- Suitable for emergency lighting with DC supply
- Not suitable for dimming or electronic devices



Related products



15W, E27

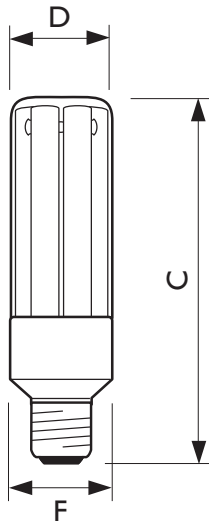


20W, E27



23W, E27

Dimensional drawing



E27

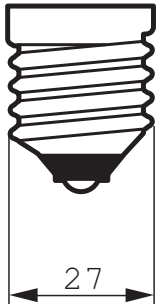
Product	C (Max)	D (Max)	F (Max)
PL E-R Polar 15W/827 E27 230-240V	132.0	50.8	48.0
PL E-R Polar 20W/827 E27 230-240V	143.0	50.8	48.0
PL E-R Polar 23W/827 E27 230-240V	158.0	50.8	48.0

General Characteristics

Order code	Full product name	Cap-Base	Average Lifetime	Life to 50% fail-ures	Rated Life-time (hours)	Rated Life-time (years)
929745197104	MASTER PL-Electronic Polar 15W/827 E27 1CH	E27	20000	20000	20000	20
929746197104	MASTER PL-Electronic Polar 20W/827 E27 1CH	E27	20000	20000	20000	20

Order code	Full product name	Cap-Base	Average Lifetime	Life to 50% fail-ures	Rated Life-time (hours)	Rated Life-time (years)
929747197104	MASTER PL-Electronic Polar 23W/827 E27 1CH	E27	20000	20000	20000	20

Installation diagrams



Light Technical Characteristics (1/2)

Order code	Full product name	Color Code	Color Designation (text)	Luminous flux lamp	Chromaticity Coordinate X	Chromaticity Coordinate Y	Color Rendering Index	Lumen Maintenance 2000h	Lumen Maintenance 5000h	Luminous Intensity	Luminous Efficacy Lamp
929745197104	MASTER PL-Electronic Polar 15W/827 E27 1CH	827	Warm White	875	457	416	82	90	85	-	56
929746197104	MASTER PL-Electronic Polar 20W/827 E27 1CH	827	Warm White	1200	457	416	82	95	90	-	64
929747197104	MASTER PL-Electronic Polar 23W/827 E27 1CH	827	Warm White	1485	457	416	82	95	90	-	63

Light Technical Characteristics (2/2)

Order code	Full product name	Color Temperature	Rated Luminous Flux
929745197104	MASTER PL-Electronic Polar 15W/827 E27 1CH	2700	875
929746197104	MASTER PL-Electronic Polar 20W/827 E27 1CH	2700	1200

Order code	Full product name	Color Temperature	Rated Luminous Flux
929747197104	MASTER PL-Electronic Polar 23W/827 E27 1CH	2700	1485

Electrical Characteristics

Order code	Full product name	Voltage	Line Frequency	Lamp Wattage	Lamp Current	Dimmable	Wattage Equivalent	Rated Wattage	Starting Time	Warm-up Time to 60% Light Outp
929745197104	MASTER PL-Electronic Polar 15W/827 E27 1CH	230-240	50/60	15	0.110	No	75	15	1.0 (max)	30 (nom), 60 (max)
929746197104	MASTER PL-Electronic Polar 20W/827 E27 1CH	230-240	50/60	20	0.140	No	90	20	1.0 (max)	30 (nom), 60 (max)
929747197104	MASTER PL-Electronic Polar 23W/827 E27 1CH	230-240	50/60	23	0.156	No	105	23	1.0 (max)	20 (nom), 60 (max)

Environmental Characteristics

Order code	Full product name	Energy Efficiency Label (EEL)	Mercury (Hg) Content
929745197104	MASTER PL-Electronic Polar 15W/827 E27 1CH	A	1.41
929746197104	MASTER PL-Electronic Polar 20W/827 E27 1CH	A	1.41
929747197104	MASTER PL-Electronic Polar 23W/827 E27 1CH	A	1.41

Measuring Conditions

Order code	Full product name	Switching cycle
929745197104	MASTER PL-Electronic Polar 15W/827 E27 1CH	50000X
929746197104	MASTER PL-Electronic Polar 20W/827 E27 1CH	50000X
929747197104	MASTER PL-Electronic Polar 23W/827 E27 1CH	50000X



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data subject to change