



Essential LED - Affordable LED solution

Essential LED

Essential LED is an affordable LED spot lamp that is suitable for replacing halogen spot lamps. It provides a natural lighting effect as well as instant energy savings – an environmentally friendly solution. The Philips Essential LED family is designed for spot and general lighting applications in the hospitality, retail and home segments.

Benefits

- Reduced operational cost thanks to energy savings of up to 80%
- Lower maintenance cost thanks to more than five times longer lifetime than conventional halogen spot lamps
- Easy retrofit, upgrading the existing luminaire to LED technology

Features

- Lower energy consumption compared to halogen spot lamp
- Retrofit replacement of halogen spot lamps with existing transformers
- No UV/IR or mercury

Application

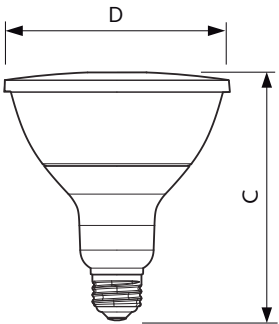
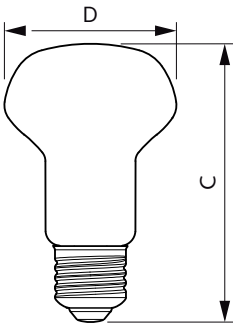
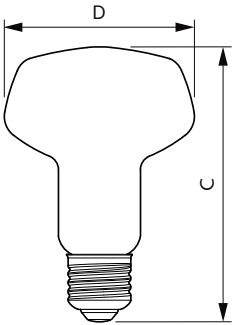
- Hospitality (restaurants, hotels, coffee bars)
- Retail
- Homes

Essential LED

Versions



Dimensional drawing



Product	D	C
ESS LED 9W E27 2700K 230V R80	80 mm	115 mm
ESS LED 9W E27 6500K 230V R80	80 mm	115 mm

Product	D	C
ESS LED 7W E27 2700K 230V R63	63 mm	102 mm
ESS LED 7W E27 6500K 230V R63	63 mm	102 mm

Product	D	C
Essential LED 10-80W PAR38 827 25D	122 mm	134 mm

Essential LED

Approval and Application

Energy Efficiency Label (EEL) A+

Controls and Dimming

Dimmable No

Operating and Electrical

Input Frequency 50 to 60 Hz

Voltage (Nom) 220-240 V

Starting Time (Nom) 0.5 s

General Information

Cap-Base E27

Nominal Lifetime (Nom) 15000 h

Light Technical

Colour Rendering Index (Nom) 80

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
72867300	Essential LED 10-80W PAR38 827 25D	10 kWh
79879900	ESS LED 7W E27 2700K 230V R63	7 kWh
79815700	ESS LED 7W E27 6500K 230V R63	7 kWh
79817100	ESS LED 9W E27 2700K 230V R80	9 kWh
79821800	ESS LED 9W E27 6500K 230V R80	9 kWh

Operating and Electrical

Order Code	Full Product Name	Wattage Equivalent	Power (Rated) (Nom)
72867300	Essential LED 10-80W PAR38 827 25D	80 W	10 W
79879900	ESS LED 7W E27 2700K 230V R63	70 W	7 W

Order Code	Full Product Name	Wattage Equivalent	Power (Rated) (Nom)
79815700	ESS LED 7W E27 6500K 230V R63	70 W	7 W
79817100	ESS LED 9W E27 2700K 230V R80	80 W	9 W
79821800	ESS LED 9W E27 6500K 230V R80	80 W	9 W

General Information

Order Code	Full Product Name	Switching Cycle
72867300	Essential LED 10-80W PAR38 827 25D	-
79879900	ESS LED 7W E27 2700K 230V R63	50000X
79815700	ESS LED 7W E27 6500K 230V R63	50000X

Order Code	Full Product Name	Switching Cycle
79817100	ESS LED 9W E27 2700K 230V R80	50000X
79821800	ESS LED 9W E27 6500K 230V R80	50000X

Light Technical (1/2)

Order Code	Full Product Name	Beam Angle (Nom)	Colour Code	Correlated Colour Temperature (Nom)	Llmf At End Of Nominal Lifetime (Nom)
72867300	Essential LED 10-80W PAR38 827 25D	25 °	827	2700 K	70 %
79879900	ESS LED 7W E27 2700K 230V R63	120 °	827	2700 K	70 %
79815700	ESS LED 7W E27 6500K 230V R63	120 °	865	6500 K	70 %

Order Code	Full Product Name	Beam Angle (Nom)	Colour Code	Correlated Colour Temperature (Nom)	Llmf At End Of Nominal Lifetime (Nom)
79817100	ESS LED 9W E27 2700K 230V R80	120 °	827	2700 K	0.7 %
79821800	ESS LED 9W E27 6500K 230V R80	120 °	865	6500 K	0.7 %

Light Technical (2/2)

Essential LED

Order Code	Full Product Name	Luminous Flux (Nom)	Luminous Intensity (Nom)
72867300	Essential LED 10-80W PAR38 827 25D	900 lm	1800 cd
79879900	ESS LED 7W E27 2700K 230V R63	680 lm	-

Order Code	Full Product Name	Luminous Flux (Nom)	Luminous Intensity (Nom)
79815700	ESS LED 7W E27 6500K 230V R63	720 lm	-
79817100	ESS LED 9W E27 2700K 230V R80	880 lm	-
79821800	ESS LED 9W E27 6500K 230V R80	950 lm	-

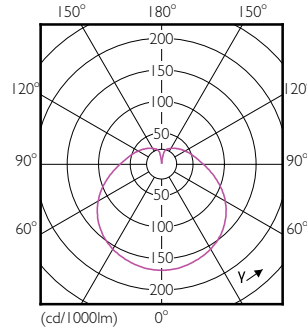
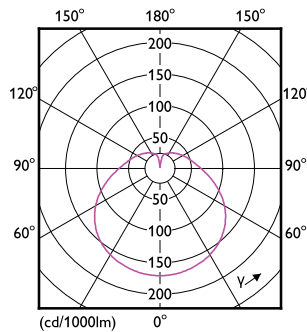
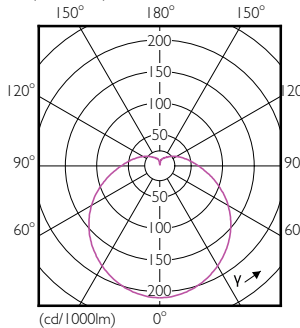
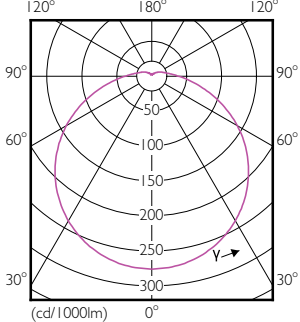
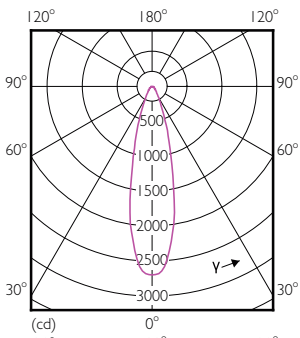
Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
72867300	Essential LED 10-80W PAR38 827 25D	PAR38
79879900	ESS LED 7W E27 2700K 230V R63	R63
79815700	ESS LED 7W E27 6500K 230V R63	R63

Order Code	Full Product Name	Bulb Shape
79817100	ESS LED 9W E27 2700K 230V R80	R80
79821800	ESS LED 9W E27 6500K 230V R80	R80

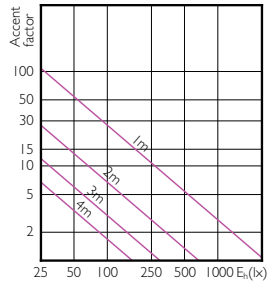
Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
72867300	Essential LED 10-80W PAR38 827 25D	-
79879900	ESS LED 7W E27 2700K 230V R63	68 °C
79815700	ESS LED 7W E27 6500K 230V R63	68 °C
79817100	ESS LED 9W E27 2700K 230V R80	72 °C
79821800	ESS LED 9W E27 6500K 230V R80	72 °C



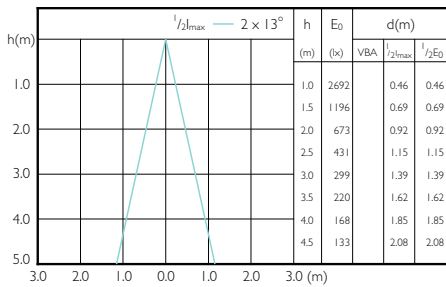
Essential LED

Accent Diagrams



MASTER LEDspot PAR 60W E27 827 25D

Beam Diagrams



MASTER LEDspot PAR 60W E27 827 25D

