



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



LEDspot GU10 PAR16



E27 PAR38



LEDspot E14 R50

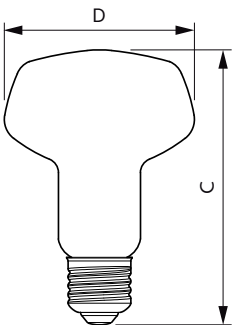
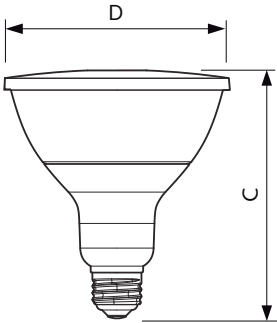


LEDspot E27 R63



LEDspot E27 R80

Dimensional drawing

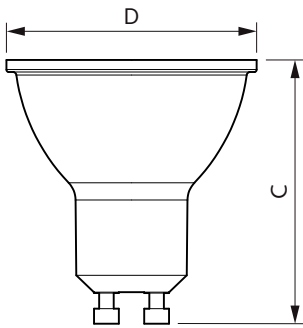
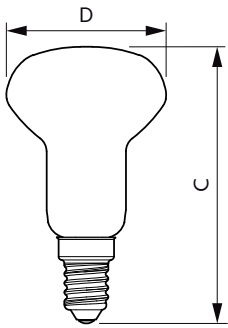
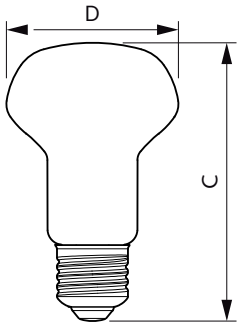


Product	D	C
Essential LED 10-80W PAR38 827 25D	122 mm	134 mm

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
LED Spot 10W E27 4000K 230V R80 RCA	80 mm	115 mm
LED Spot 10W E27 6500K 230V R80 RCA	80 mm	115 mm
LED Spot 10W E27 2700K 230V R80 RCA	80 mm	115 mm

Essential LED

Dimensional drawing



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
LED Spot 7W E27 2700K 230V R63 RCA	63 mm	102 mm
LED Spot 7W E27 6500K 230V R63 RCA	63 mm	102 mm
LED Spot 7W E27 4000K 230V R63 RCA	63 mm	102 mm

Product	D	C
ESS LED 4W E14 2700K 230V R50	50 mm	86 mm
LED Spot 4W E14 2700K 230V R50 RCA	50 mm	86 mm
LED Spot 4W E14 4000K 230V R50 RCA	50 mm	86 mm
LED Spot 4W E14 6500K 230V R50 RCA	50 mm	86 mm
ESS LED 4W E14 6500K 230V R50	50 mm	86 mm

Product	D	C
ESS LEDspots 50W GU10 CW 36D ND TR	50 mm	54 mm
ESS LEDspots 50W GU10 WW 36D ND TR	50 mm	54 mm

Controls and Dimming

Dimmable No

Operating and Electrical

Voltage (Nom) 220-240 V

Starting Time (Nom) 0.5 s

General Information

Nominal Lifetime (Nom) 15000 h

Light Technical

Color Rendering Index (Nom) 80

Approval and Application

Essential LED

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
929001247087	ESS LEDspots 50W GU10 CW 36D ND TR	5 kWh	A+
929001250487	ESS LEDspots 50W GU10 WW 36D ND TR	5 kWh	A+
929001322708	Essential LED 10-80W PAR38 827 25D	10 kWh	A+
929001857308	ESS LED 4W E14 2700K 230V R50	4 kWh	A+
929001857387	LED Spot 4W E14 2700K 230V R50 RCA	4 kWh	A+
929001857487	LED Spot 4W E14 4000K 230V R50 RCA	4 kWh	A++
929001857508	ESS LED 4W E14 6500K 230V R50	4 kWh	A++
929001857587	LED Spot 4W E14 6500K 230V R50 RCA	4 kWh	A++
929001857608	ESS LED 7W E27 2700K 230V R63	7 kWh	A+

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
929001857687	LED Spot 7W E27 2700K 230V R63 RCA	7 kWh	A+
929001857787	LED Spot 7W E27 4000K 230V R63 RCA	7 kWh	A+
929001857808	ESS LED 7W E27 6500K 230V R63	7 kWh	A+
929001857887	LED Spot 7W E27 6500K 230V R63 RCA	7 kWh	A+
929001857908	ESS LED 9W E27 2700K 230V R80	9 kWh	A+
929001857987	LED Spot 10W E27 2700K 230V R80 RCA	10 kWh	A+
929001858087	LED Spot 10W E27 4000K 230V R80 RCA	10 kWh	A+
929001858108	ESS LED 9W E27 6500K 230V R80	9 kWh	A+
929001858187	LED Spot 10W E27 6500K 230V R80 RCA	10 kWh	A+

Operating and Electrical

Order Code	Full Product Name	Input Frequency	Wattage Equivalent	Power (Rated) (Nom)
929001247087	ESS LEDspots 50W GU10 CW 36D ND TR	50 Hz	50 W	4.7 W
929001250487	ESS LEDspots 50W GU10 WW 36D ND TR	50 Hz	50 W	4.7 W
929001322708	Essential LED 10-80W PAR38 827 25D	50 to 60 Hz	80 W	10 W
929001857308	ESS LED 4W E14 2700K 230V R50	50 to 60 Hz	50 W	4 W
929001857387	LED Spot 4W E14 2700K 230V R50 RCA	50 to 60 Hz	50 W	4 W
929001857487	LED Spot 4W E14 4000K 230V R50 RCA	50 to 60 Hz	50 W	4 W
929001857508	ESS LED 4W E14 6500K 230V R50	50 to 60 Hz	50 W	4 W
929001857587	LED Spot 4W E14 6500K 230V R50 RCA	50 to 60 Hz	50 W	4 W
929001857608	ESS LED 7W E27 2700K 230V R63	50 to 60 Hz	70 W	7 W

Order Code	Full Product Name	Input Frequency	Wattage Equivalent	Power (Rated) (Nom)
929001857687	LED Spot 7W E27 2700K 230V R63 RCA	50 to 60 Hz	70 W	7 W
929001857787	LED Spot 7W E27 4000K 230V R63 RCA	50 to 60 Hz	70 W	7 W
929001857808	ESS LED 7W E27 6500K 230V R63	50 to 60 Hz	70 W	7 W
929001857887	LED Spot 7W E27 6500K 230V R63 RCA	50 to 60 Hz	70 W	7 W
929001857908	ESS LED 9W E27 2700K 230V R80	50 to 60 Hz	80 W	9 W
929001857987	LED Spot 10W E27 2700K 230V R80 RCA	50 to 60 Hz	80 W	10 W
929001858087	LED Spot 10W E27 4000K 230V R80 RCA	50 to 60 Hz	80 W	10 W
929001858108	ESS LED 9W E27 6500K 230V R80	50 to 60 Hz	80 W	9 W
929001858187	LED Spot 10W E27 6500K 230V R80 RCA	50 to 60 Hz	80 W	10 W

General Information

Order Code	Full Product Name	Cap-Base	Switching Cycle
929001247087	ESS LEDspots 50W GU10 CW 36D ND TR	GU10	15000X
929001250487	ESS LEDspots 50W GU10 WW 36D ND TR	GU10	15000X
929001322708	Essential LED 10-80W PAR38 827 25D	E27	25000X

Order Code	Full Product Name	Cap-Base	Switching Cycle
929001857308	ESS LED 4W E14 2700K 230V R50	E14	50000X
929001857387	LED Spot 4W E14 2700K 230V R50 RCA	E14	50000X
929001857487	LED Spot 4W E14 4000K 230V R50 RCA	E14	50000X

Essential LED

Order Code	Full Product Name	Cap-Base	Switching Cycle
929001857508	ESS LED 4W E14 6500K 230V R50	E14	50000X
929001857587	LED Spot 4W E14 6500K 230V R50 RCA	E14	50000X
929001857608	ESS LED 7W E27 2700K 230V R63	E27	50000X
929001857687	LED Spot 7W E27 2700K 230V R63 RCA	E27	50000X
929001857787	LED Spot 7W E27 4000K 230V R63 RCA	E27	50000X
929001857808	ESS LED 7W E27 6500K 230V R63	E27	50000X

Order Code	Full Product Name	Cap-Base	Switching Cycle
929001857887	LED Spot 7W E27 6500K 230V R63 RCA	E27	50000X
929001857908	ESS LED 9W E27 2700K 230V R80	E27	50000X
929001857987	LED Spot 10W E27 2700K 230V R80 RCA	E27	50000X
929001858087	LED Spot 10W E27 4000K 230V R80 RCA	E27	50000X
929001858108	ESS LED 9W E27 6500K 230V R80	E27	50000X
929001858187	LED Spot 10W E27 6500K 230V R80 RCA	E27	50000X

Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Color Code	Correlated Color Temperature (Nom)	Llmf At End Of		
					Nominal Lifetime (Nom)	Luminous Flux (Nom)	Luminous Intensity (Nom)
929001247087	ESS LEDspots 50W GU10 CW 36D ND TR	36 °	840	4000 K	70 %	420 lm	1000 cd
929001250487	ESS LEDspots 50W GU10 WW 36D ND TR	36 °	827	2700 K	70 %	380 lm	900 cd
929001322708	Essential LED 10-80W PAR38 827 25D	25 °	827	2700 K	70 %	900 lm	1800 cd
929001857308	ESS LED 4W E14 2700K 230V R50	120 °	827	2700 K	70 %	350 lm	-
929001857387	LED Spot 4W E14 2700K 230V R50 RCA	120 °	827	2700 K	70 %	350 lm	-
929001857487	LED Spot 4W E14 4000K 230V R50 RCA	120 °	840	4000 K	70 %	400 lm	-
929001857508	ESS LED 4W E14 6500K 230V R50	120 °	865	6500 K	70 %	400 lm	-
929001857587	LED Spot 4W E14 6500K 230V R50 RCA	120 °	865	6500 K	70 %	400 lm	-
929001857608	ESS LED 7W E27 2700K 230V R63	120 °	827	2700 K	70 %	680 lm	-
929001857687	LED Spot 7W E27 2700K 230V R63 RCA	120 °	827	2700 K	70 %	680 lm	-
929001857787	LED Spot 7W E27 4000K 230V R63 RCA	120 °	840	4000 K	70 %	720 lm	-
929001857808	ESS LED 7W E27 6500K 230V R63	120 °	865	6500 K	70 %	720 lm	-
929001857887	LED Spot 7W E27 6500K 230V R63 RCA	120 °	865	6500 K	70 %	720 lm	-
929001857908	ESS LED 9W E27 2700K 230V R80	120 °	827	2700 K	0.7 %	880 lm	-
929001857987	LED Spot 10W E27 2700K 230V R80 RCA	120 °	827	2700 K	70 %	880 lm	-
929001858087	LED Spot 10W E27 4000K 230V R80 RCA	120 °	840	4000 K	70 %	950 lm	-
929001858108	ESS LED 9W E27 6500K 230V R80	120 °	865	6500 K	0.7 %	950 lm	-
929001858187	LED Spot 10W E27 6500K 230V R80 RCA	120 °	865	6500 K	70 %	950 lm	-

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
929001247087	ESS LEDspots 50W GU10 CW 36D ND TR	PAR16
929001250487	ESS LEDspots 50W GU10 WW 36D ND TR	PAR16
929001322708	Essential LED 10-80W PAR38 827 25D	PAR38
929001857308	ESS LED 4W E14 2700K 230V R50	R50
929001857387	LED Spot 4W E14 2700K 230V R50 RCA	R50
929001857487	LED Spot 4W E14 4000K 230V R50 RCA	R50
929001857508	ESS LED 4W E14 6500K 230V R50	R50
929001857587	LED Spot 4W E14 6500K 230V R50 RCA	R50
929001857608	ESS LED 7W E27 2700K 230V R63	R63

Order Code	Full Product Name	Bulb Shape
929001857687	LED Spot 7W E27 2700K 230V R63 RCA	R63
929001857787	LED Spot 7W E27 4000K 230V R63 RCA	R63
929001857808	ESS LED 7W E27 6500K 230V R63	R63
929001857887	LED Spot 7W E27 6500K 230V R63 RCA	R63
929001857908	ESS LED 9W E27 2700K 230V R80	R80
929001857987	LED Spot 10W E27 2700K 230V R80 RCA	R80
929001858087	LED Spot 10W E27 4000K 230V R80 RCA	R80
929001858108	ESS LED 9W E27 6500K 230V R80	R80
929001858187	LED Spot 10W E27 6500K 230V R80 RCA	R80

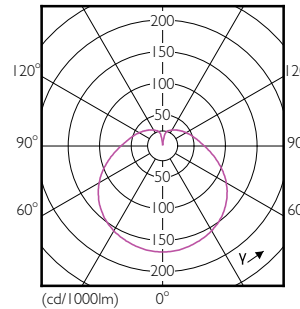
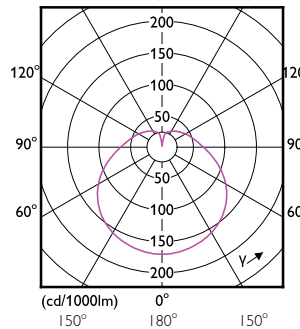
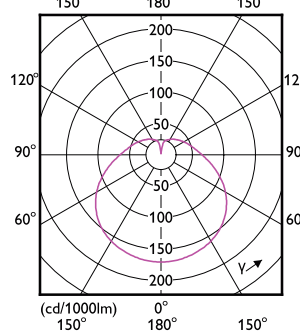
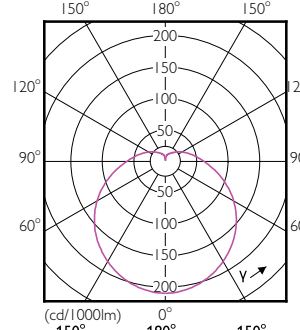
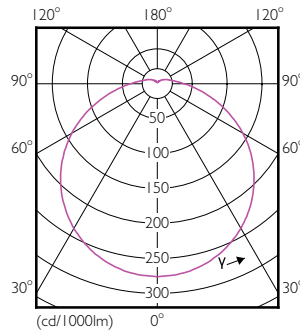
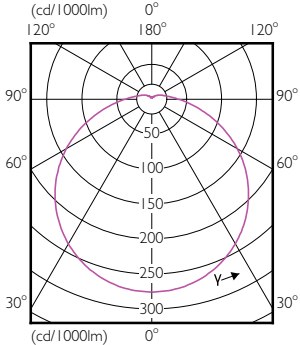
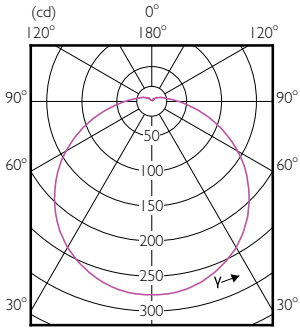
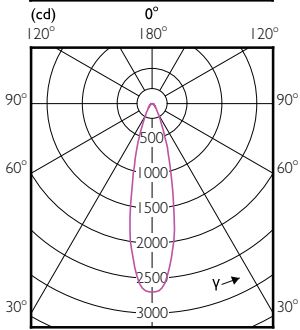
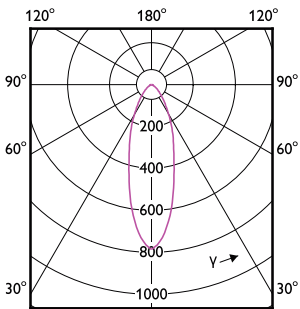
Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929001247087	ESS LEDspots 50W GU10 CW 36D ND TR	80 °C
929001250487	ESS LEDspots 50W GU10 WW 36D ND TR	80 °C
929001322708	Essential LED 10-80W PAR38 827 25D	-
929001857308	ESS LED 4W E14 2700K 230V R50	65 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929001857387	LED Spot 4W E14 2700K 230V R50 RCA	65 °C
929001857487	LED Spot 4W E14 4000K 230V R50 RCA	65 °C
929001857508	ESS LED 4W E14 6500K 230V R50	65 °C
929001857587	LED Spot 4W E14 6500K 230V R50 RCA	65 °C

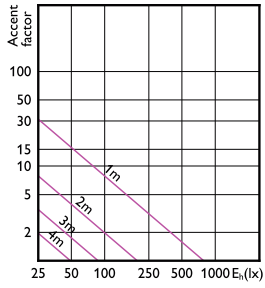
Essential LED

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929001857687	LED Spot 7W E27 2700K 230V R63 RCA	68 °C
929001857787	LED Spot 7W E27 4000K 230V R63 RCA	68 °C
929001857808	ESS LED 7W E27 6500K 230V R63	68 °C
929001857887	LED Spot 7W E27 6500K 230V R63 RCA	68 °C
929001857908	ESS LED 9W E27 2700K 230V R80	72 °C
929001857987	LED Spot 10W E27 2700K 230V R80 RCA	72 °C
929001858087	LED Spot 10W E27 4000K 230V R80 RCA	72 °C
929001858108	ESS LED 9W E27 6500K 230V R80	72 °C
929001858187	LED Spot 10W E27 6500K 230V R80 RCA	72 °C

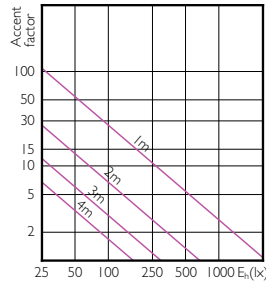


Essential LED

Accent Diagrams

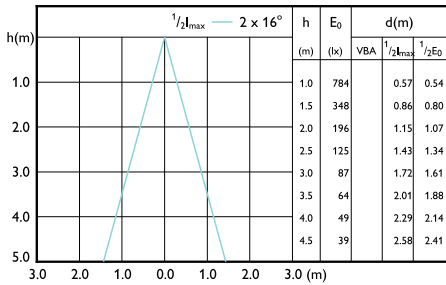


LEDspot ESS 50W GU10 PAR16 840 36D ND

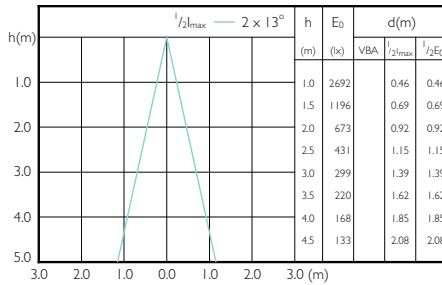


MASTER LEDspot PAR 60W E27 827 25D

Beam Diagrams



LEDspot ESS 50W GU10 PAR16 840 36D ND



MASTER LEDspot PAR 60W E27 827 25D

