



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



2.6-20W GU5.3 MR16



GU10 PAR16

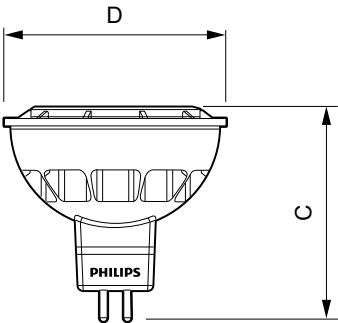
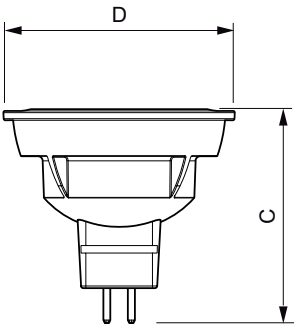
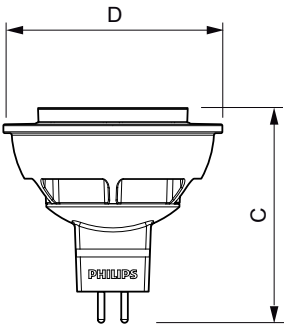


GU5.3 MR16



GU5.3 MR16

Dimensional drawing



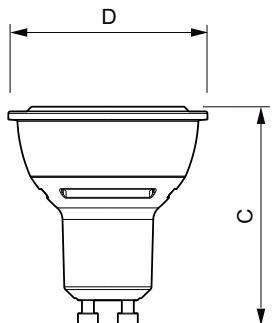
Product	D	C
Essential LED 5.5-50W 2700K MR16 24D	50.2 mm	49 mm
Essential LED 5.5-50W 6500K MR16 24D	50.2 mm	49 mm

Product	D	C
ESS LED MR16 3-35W 36D 830 100-240V	51 mm	49 mm
ESS LED MR16 4.5-50W 36D 830 100-240V	51 mm	49 mm
ESS LED MR16 3-35W 36D 865 100-240V	51 mm	49 mm
ESS LED MR16 4.5-50W 36D 830 100-240V	51 mm	49 mm
ESS LED MR16 4.5-50W 36D 865 100-240V	51 mm	49 mm
ESS LED MR16 3-35W 36D 865 100-240V	51 mm	49 mm
ESS LED MR16 3-35W 36D 830 100-240V	51 mm	49 mm
ESS LED MR16 4.5-50W 36D 865 100-240V	51 mm	49 mm

Product	D	C
Essential LED 2.6-20W 6500K MR16 24D	49.9 mm	47.6 mm
Essential LED 2.6-20W 2700K MR16 24D	49.9 mm	47.6 mm

Essential LED

Dimensional drawing



Product	D	C
LEDspot GU10 4.5-50W 865 36D 110-130V	50 mm	55 mm

Controls and Dimming

Dimmable	No
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Operating and Electrical

Starting Time (Nom)	0.5 s
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General Information

Nominal Lifetime (Nom)	15000 h
Rated Lifetime (Hours)	15000 h
Switching Cycle	50000X

Light Technical

Color Rendering Index (Nom)	80
Lmf At End Of Nominal Lifetime (Nom)	70 %

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
929000232708	Essential LED 2.6-20W 2700K MR16 24D	4 kWh	A
929000232808	Essential LED 2.6-20W 6500K MR16 24D	4 kWh	A
929000279241	LEDspot GU10 4.5-50W 865 36D 110-130V	5 kWh	A+
929001146007	Essential LED 5.5-50W 2700K MR16 24D	-	-
929001147207	Essential LED 5.5-50W 6500K MR16 24D	-	-
929001274208	ESS LED MR16 3-35W 36D 830 100-240V	3 kWh	A++
929001274212	ESS LED MR16 3-35W 36D 830 100-240V	-	-

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
929001274408	ESS LED MR16 4.5-50W 36D 830 100-240V	5 kWh	A++
929001274412	ESS LED MR16 4.5-50W 36D 830 100-240V	-	-
929001274608	ESS LED MR16 3-35W 36D 865 100-240V	3 kWh	A++
929001274612	ESS LED MR16 3-35W 36D 865 100-240V	-	-
929001274808	ESS LED MR16 4.5-50W 36D 865 100-240V	5 kWh	A++
929001274812	ESS LED MR16 4.5-50W 36D 865 100-240V	-	-

Operating and Electrical

Essential LED

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Wattage Equivalent	Power (Rated) (Nom)
929000232708	Essential LED 2.6-20W 2700K MR16 24D	50 to 60 Hz	12 V	20 W	2.6 W
929000232808	Essential LED 2.6-20W 6500K MR16 24D	50 to 60 Hz	12 V	20 W	2.6 W
929000279241	LEDspot GU10 4.5-50W 865 36D 110-130V	50 to 60 Hz	120 V	50 W	4.5 W
929001146007	Essential LED 5.5-50W 2700K MR16 24D	-	12 V	50 W	5.5 W
929001147207	Essential LED 5.5-50W 6500K MR16 24D	-	12 V	50 W	5.5 W
929001274208	ESS LED MR16 3-35W 36D 830 100-240V	50 to 60 Hz	100-240 V	35 W	3 W
929001274212	ESS LED MR16 3-35W 36D 830 100-240V	50 to 60 Hz	100-240 V	35 W	3 W

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Wattage Equivalent	Power (Rated) (Nom)
929001274408	ESS LED MR16 4.5-50W 36D 830 100-240V	50 to 60 Hz	100-240 V	50 W	4.5 W
929001274412	ESS LED MR16 4.5-50W 36D 830 100-240V	50 to 60 Hz	100-240 V	50 W	4.5 W
929001274608	ESS LED MR16 3-35W 36D 865 100-240V	50 to 60 Hz	100-240 V	35 W	3 W
929001274612	ESS LED MR16 3-35W 36D 865 100-240V	50 to 60 Hz	100-240 V	35 W	3 W
929001274808	ESS LED MR16 4.5-50W 36D 865 100-240V	50 to 60 Hz	100-240 V	50 W	4.5 W
929001274812	ESS LED MR16 4.5-50W 36D 865 100-240V	50 to 60 Hz	100-240 V	50 W	4.5 W

General Information

Order Code	Full Product Name	Cap-Base
929000232708	Essential LED 2.6-20W 2700K MR16 24D	GU5.3
929000232808	Essential LED 2.6-20W 6500K MR16 24D	GU5.3
929000279241	LEDspot GU10 4.5-50W 865 36D 110-130V	GU10
929001146007	Essential LED 5.5-50W 2700K MR16 24D	GU5.3
929001147207	Essential LED 5.5-50W 6500K MR16 24D	GU5.3
929001274208	ESS LED MR16 3-35W 36D 830 100-240V	GU5.3
929001274212	ESS LED MR16 3-35W 36D 830 100-240V	GU5.3

Order Code	Full Product Name	Cap-Base
929001274408	ESS LED MR16 4.5-50W 36D 830 100-240V	GU5.3
929001274412	ESS LED MR16 4.5-50W 36D 830 100-240V	GU5.3
929001274608	ESS LED MR16 3-35W 36D 865 100-240V	GU5.3
929001274612	ESS LED MR16 3-35W 36D 865 100-240V	GU5.3
929001274808	ESS LED MR16 4.5-50W 36D 865 100-240V	GU5.3
929001274812	ESS LED MR16 4.5-50W 36D 865 100-240V	GU5.3

Light Technical (1/2)

Order Code	Full Product Name	Beam Angle (Nom)	Color Code	Correlated Color Temperature (Nom)	Light Distribution	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)	Luminous Intensity (Nom)
929000232708	Essential LED 2.6-20W 2700K MR16 24D	24 °	827	2700 K	Medium beam 24°	135 lm	135 lm	460 cd
929000232808	Essential LED 2.6-20W 6500K MR16 24D	24 °	865	6500 K	Medium beam 24°	170 lm	170 lm	750 cd
929000279241	LEDspot GU10 4.5-50W 865 36D 110-130V	36 °	865	6500 K	Medium beam 36°	370 lm	370 lm	925 cd
929001146007	Essential LED 5.5-50W 2700K MR16 24D	24 °	827	2700 K	Medium beam 24°	415 lm	415 lm	1800 cd
929001147207	Essential LED 5.5-50W 6500K MR16 24D	24 °	865	6500 K	Medium beam 24°	460 lm	460 lm	1800 cd
929001274208	ESS LED MR16 3-35W 36D 830 100-240V	36 °	830	3000 K	-	230 lm	230 lm	380 cd
929001274212	ESS LED MR16 3-35W 36D 830 100-240V	36 °	830	3000 K	-	230 lm	230 lm	380 cd
929001274408	ESS LED MR16 4.5-50W 36D 830 100-240V	36 °	830	3000 K	-	400 lm	400 lm	750 cd

Essential LED

Order Code	Full Product Name	Beam Angle (Nom)	Color Code	Correlated Color Temperature (Nom)	Light Distribution	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)	Luminous Intensity (Nom)
929001274412	ESS LED MR16 4.5-50W 36D 830 100-240V	36 °	830	3000 K	-	400 lm	400 lm	750 cd
929001274608	ESS LED MR16 3-35W 36D 865 100-240V	36 °	865	6500 K	-	230 lm	230 lm	380 cd
929001274612	ESS LED MR16 3-35W 36D 865 100-240V	36 °	865	6500 K	-	230 lm	230 lm	380 cd
929001274808	ESS LED MR16 4.5-50W 36D 865 100-240V	36 °	865	6500 K	-	400 lm	400 lm	750 cd
929001274812	ESS LED MR16 4.5-50W 36D 865 100-240V	36 °	865	6500 K	-	400 lm	400 lm	750 cd

Light Technical (2/2)

Order Code	Full Product Name	Rated Beam Angle
929000232708	Essential LED 2.6-20W 2700K MR16 24D	24 °
929000232808	Essential LED 2.6-20W 6500K MR16 24D	24 °
929000279241	LEDspot GU10 4.5-50W 865 36D 110-130V	36 °
929001146007	Essential LED 5.5-50W 2700K MR16 24D	24 °
929001147207	Essential LED 5.5-50W 6500K MR16 24D	24 °
929001274208	ESS LED MR16 3-35W 36D 830 100-240V	36 °
929001274212	ESS LED MR16 3-35W 36D 830 100-240V	36 °

Order Code	Full Product Name	Rated Beam Angle
929001274408	ESS LED MR16 4.5-50W 36D 830 100-240V	36 °
929001274412	ESS LED MR16 4.5-50W 36D 830 100-240V	36 °
929001274608	ESS LED MR16 3-35W 36D 865 100-240V	36 °
929001274612	ESS LED MR16 3-35W 36D 865 100-240V	36 °
929001274808	ESS LED MR16 4.5-50W 36D 865 100-240V	36 °
929001274812	ESS LED MR16 4.5-50W 36D 865 100-240V	36 °

Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
929000232708	Essential LED 2.6-20W 2700K MR16 24D	MR16
929000232808	Essential LED 2.6-20W 6500K MR16 24D	MR16
929000279241	LEDspot GU10 4.5-50W 865 36D 110-130V	PAR16
929001146007	Essential LED 5.5-50W 2700K MR16 24D	MR16
929001147207	Essential LED 5.5-50W 6500K MR16 24D	MR16
929001274208	ESS LED MR16 3-35W 36D 830 100-240V	MR16
929001274212	ESS LED MR16 3-35W 36D 830 100-240V	MR16

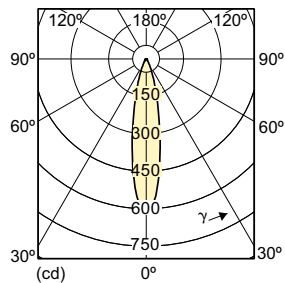
Order Code	Full Product Name	Bulb Shape
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929001274412	ESS LED MR16 4.5-50W 36D 830 100-240V	MR16
929001274608	ESS LED MR16 3-35W 36D 865 100-240V	MR16
929001274612	ESS LED MR16 3-35W 36D 865 100-240V	MR16
929001274808	ESS LED MR16 4.5-50W 36D 865 100-240V	MR16
929001274812	ESS LED MR16 4.5-50W 36D 865 100-240V	MR16

Temperature

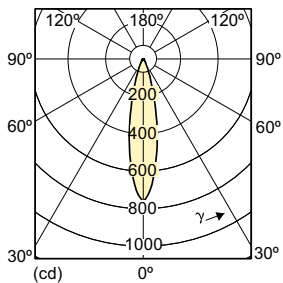
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929000232708	Essential LED 2.6-20W 2700K MR16 24D	-
929000232808	Essential LED 2.6-20W 6500K MR16 24D	-
929000279241	LEDspot GU10 4.5-50W 865 36D 110-130V	86 °C
929001146007	Essential LED 5.5-50W 2700K MR16 24D	95 °C
929001147207	Essential LED 5.5-50W 6500K MR16 24D	95 °C
929001274208	ESS LED MR16 3-35W 36D 830 100-240V	70 °C
929001274212	ESS LED MR16 3-35W 36D 830 100-240V	70 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929001274408	ESS LED MR16 4.5-50W 36D 830 100-240V	90 °C
929001274412	ESS LED MR16 4.5-50W 36D 830 100-240V	90 °C
929001274608	ESS LED MR16 3-35W 36D 865 100-240V	70 °C
929001274612	ESS LED MR16 3-35W 36D 865 100-240V	70 °C
929001274808	ESS LED MR16 4.5-50W 36D 865 100-240V	90 °C
929001274812	ESS LED MR16 4.5-50W 36D 865 100-240V	90 °C

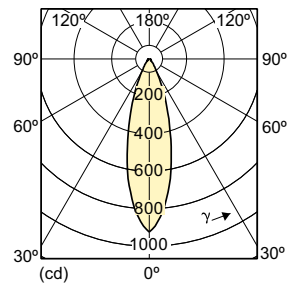
Light Distribution Diagrams



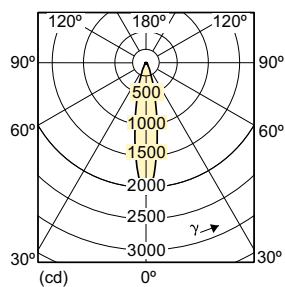
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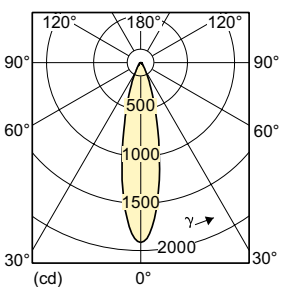
2.6-20W GU5.3 MR16 865 24D 6500K



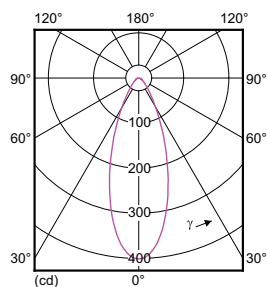
4.5-50 W GU10 PAR16 /865 6500 K 36D



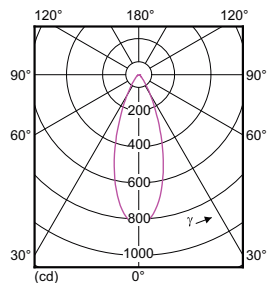
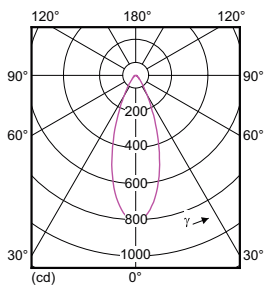
5.5-50 W GU5.3 /827 MR16 24D



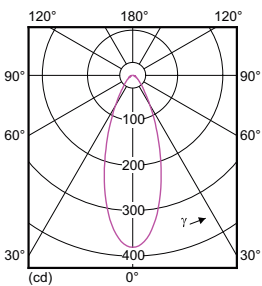
5.5-50 W GU5.3 /865 MR16 24D



4.5-50 W GU10 PAR16 /865 6500 K 36D

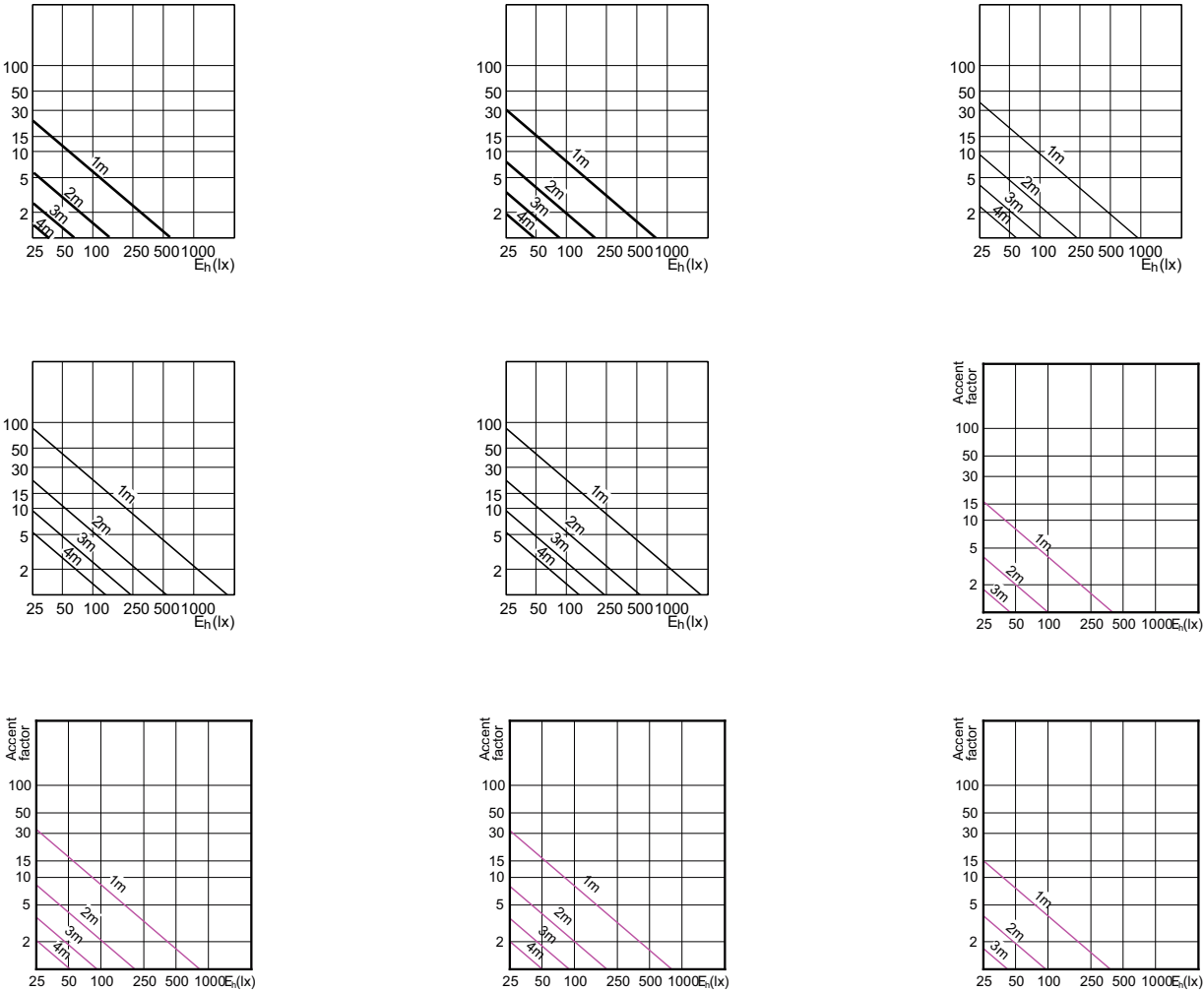


4.5-50 W GU10 PAR16 /865 6500 K 36D

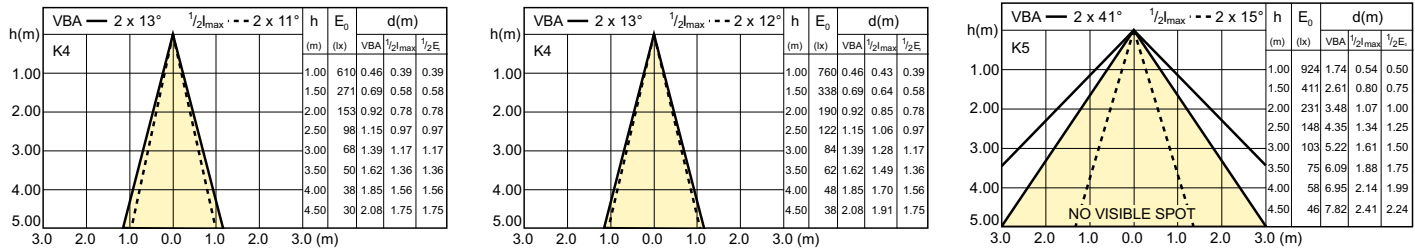


4.5-50 W GU10 PAR16 /865 6500 K 36D

Accent Diagrams



Beam Diagrams



Beam Diagrams

