



Your everyday LEDspot MR16

Essential LEDspot MR16

Essential LEDspots MR16 are compatible with most existing fixtures with a GU5.3 socket and are designed as a retrofit replacement for halogen spots. Essential LEDspots MR16 deliver significant energy savings and minimize initial investment.

Benefits

- Up to 90% energy saving compared with traditional halogen lamps
- Lower maintenance costs
- Low initial investment

Features

- Easy retrofit
- Lifetime up to 15,000 hours
- Non-dimmable
- UV- and IR-free light

Application

- Hotels, restaurants, bars, cafés, shops
- Lobbies, corridors, stairwells, washrooms, reception areas

Essential LEDspot MR16

Versions

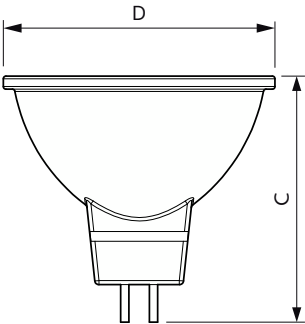


LEDspots ESS GMGC MR16 GU5,3



LEDspot ESS 50W GU5.3 MR16
827 12D ND RCA

Dimensional drawing



Product	D	C
ESS LED MR16 3-35W 36D 830 SO 100-240V	50.5 mm	46.5 mm
ESS LED MR16 4.5-50W 36D 830 100-240V	50.5 mm	46.5 mm
ESS LED MR16 4.5-50W 36D 830 SO 100-240V	50.5 mm	46.5 mm
ESS LED MR16 4.5-50W 36D 830 SO 100-240V	50.5 mm	46.5 mm
ESS LED MR16 4.5-50W 36D 865 SO 100-240V	50.5 mm	46.5 mm
ESS LED MR16 4.5-50W 36D 865 SO 100-240V	50.5 mm	46.5 mm
ESS LED MR16 6-48W 36D 827 100-240V	50 mm	45 mm
ESS LED MR16 6-48W 36D 830 100-240V	50 mm	45 mm
ESS LED MR16 6-48W 36D 840 100-240V	50 mm	45 mm
ESS LEDspot 5W 400lm GU5.3 827 220V	50.5 mm	46.5 mm
ESS LEDspot 5W 400lm GU5.3 840 220V	50.5 mm	46.5 mm
ESS LEDspot 5W 400lm GU5.3 865 220V	50.5 mm	46.5 mm
Essential LED 5-50W 2700K MR16 24D	50 mm	46 mm
Essential LED 5-50W 6500K MR16 24D	50 mm	46 mm
LED MR16 4.5-50W 36D 830 SO 100-240V 1BC	50.5 mm	46.5 mm
LED MR16 4.5-50W 36D 830 SO 100-240V 3BC	50.5 mm	46.5 mm
LED MR16 4.5-50W 36D 830 SO 120V Dim 1CT	50.5 mm	46.5 mm
LED MR16 4.5-50W 36D 830SO100-240V 1PF/6	50.5 mm	46.5 mm
LED MR16 4.5-50W 36D 865 SO 100-240V 1BC	50.5 mm	46.5 mm
LED MR16 4.5-50W 36D 865 SO 100-240V 3BC	50.5 mm	46.5 mm
LED MR16 4.5-50W 36D 865SO100-240V 1PF/6	50.5 mm	46.5 mm
LED MR16 4.5-50W 36D 865SO100-240V 3CT/6	50.5 mm	46.5 mm

Essential LEDspot MR16

General Information	
Cap-Base	GU5.3
Switching Cycle	50,000
Light Technical	
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Starting Time (Nom)	0.5 s
Mechanical and Housing	
Bulb Shape	MR16

General Information

Order Code	Full Product Name	Rated Lifetime (Hours)	Nominal lifetime
929003607708	ESS LED MR16 6-48W 36D 830 100-240V	-	15,000 hour(s)
929003607808	ESS LED MR16 6-48W 36D 840 100-240V	-	15,000 hour(s)
929003617508	ESS LED MR16 6-48W 36D 827 100-240V	-	15,000 hour(s)
929001844587	ESS LEDspot 5W 400lm GU5.3 827 220V	10,000 hour(s)	10,000 hour(s)
929001844687	ESS LEDspot 5W 400lm GU5.3 840 220V	10,000 hour(s)	10,000 hour(s)
929001844787	ESS LEDspot 5W 400lm GU5.3 865 220V	10,000 hour(s)	10,000 hour(s)
929001240108	Essential LED 5-50W 2700K MR16 24D	15,000 hour(s)	15,000 hour(s)
929001240208	Essential LED 5-50W 6500K MR16 24D	15,000 hour(s)	15,000 hour(s)
929001874008	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	-	15,000 hour(s)
929001874011	LED MR16 4.5-50W 36D 830 SO 100-240V 1BC	-	15,000 hour(s)
929001874012	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	-	15,000 hour(s)
Order Code	Full Product Name	Rated Lifetime (Hours)	Nominal lifetime
929001874041	LED MR16 4.5-50W 36D 830 SO 100-240V 3BC	-	15,000 hour(s)
929001874061	LED MR16 4.5-50W 36D 830SO100-240V 1PF/6	-	15,000 hour(s)
929001874068	ESS LED MR16 4.5-50W 36D 830 100-240V	-	15,000 hour(s)
929001874108	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	-	15,000 hour(s)
929001874111	LED MR16 4.5-50W 36D 865 SO 100-240V 1BC	-	15,000 hour(s)
929001874112	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	-	15,000 hour(s)
929001874141	LED MR16 4.5-50W 36D 865 SO 100-240V 3BC	-	15,000 hour(s)
929001874161	LED MR16 4.5-50W 36D 865SO100-240V 1PF/6	-	15,000 hour(s)
929001874163	LED MR16 4.5-50W 36D 865SO100-240V 3CT/6	-	15,000 hour(s)
929001874208	ESS LED MR16 3-35W 36D 830 SO 100-240V	-	15,000 hour(s)
929001874412	LED MR16 4.5-50W 36D 830 SO 120V Dim 1CT	-	15,000 hour(s)

Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color	Color rendering		Luminous Intensity	
			Temperature (Nom)	index (CRI)	Color Code	Luminous Flux (Nom)	(Nom)
929003607708	ESS LED MR16 6-48W 36D 830 100-240V	36 degree(s)	3000 K	83	830	625 lm	1,050 cd
929003607808	ESS LED MR16 6-48W 36D 840 100-240V	36 degree(s)	4000 K	83	840	650 lm	1,100 cd
929003617508	ESS LED MR16 6-48W 36D 827 100-240V	36 degree(s)	2700 K	83	827	600 lm	1,050 cd
929001844587	ESS LEDspot 5W 400lm GU5.3 827 220V	120 degree(s)	2700 K	70	727	400 lm	-
929001844687	ESS LEDspot 5W 400lm GU5.3 840 220V	120 degree(s)	4000 K	70	740	400 lm	-
929001844787	ESS LEDspot 5W 400lm GU5.3 865 220V	120 degree(s)	6500 K	70	765	400 lm	-

Essential LEDspot MR16

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color	Color rendering		Luminous Intensity	
			Temperature (Nom)	index (CRI)	Color Code	Luminous Flux	(Nom)
929001240108	Essential LED 5-50W 2700K MR16 24D	24 degree(s)	2700 K	80	827	400 lm	1,700 cd
929001240208	Essential LED 5-50W 6500K MR16 24D	24 degree(s)	6500 K	80	865	435 lm	1,700 cd
929001874008	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	36 degree(s)	3000 K	80	830	400 lm	700 cd
929001874011	LED MR16 4.5-50W 36D 830 SO 100-240V 1BC	36 degree(s)	3000 K	80	830	400 lm	700 cd
929001874012	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	36 degree(s)	3000 K	80	830	400 lm	700 cd
929001874041	LED MR16 4.5-50W 36D 830 SO 100-240V 3BC	36 degree(s)	3000 K	80	830	400 lm	700 cd
929001874061	LED MR16 4.5-50W 36D 830SO100-240V 1PF/6	36 degree(s)	3000 K	80	830	400 lm	700 cd
929001874068	ESS LED MR16 4.5-50W 36D 830 100-240V	36 degree(s)	3000 K	80	830	400 lm	700 cd
929001874108	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	36 degree(s)	6500 K	80	865	400 lm	700 cd
929001874111	LED MR16 4.5-50W 36D 865 SO 100-240V 1BC	36 degree(s)	6500 K	80	865	400 lm	700 cd
929001874112	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	36 degree(s)	6500 K	80	865	400 lm	700 cd
929001874141	LED MR16 4.5-50W 36D 865 SO 100-240V 3BC	36 degree(s)	6500 K	80	865	400 lm	700 cd
929001874161	LED MR16 4.5-50W 36D 865SO100-240V 1PF/6	36 degree(s)	6500 K	80	865	400 lm	700 cd
929001874163	LED MR16 4.5-50W 36D 865SO100-240V 3CT/6	36 degree(s)	6500 K	80	865	400 lm	700 cd
929001874208	ESS LED MR16 3-35W 36D 830 SO 100-240V	36 degree(s)	3000 K	80	830	230 lm	550 cd
929001874412	LED MR16 4.5-50W 36D 830 SO 120V Dim 1CT	36 degree(s)	3000 K	80	830	400 lm	750 cd

Operating and Electrical

Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption	Wattage Equivalent
929003607708	ESS LED MR16	50 to 60	-	6 W	48 W
	6-48W 36D 830	Hz			
	100-240V				
929003607808	ESS LED MR16	50 to 60	-	6 W	48 W
	6-48W 36D 840	Hz			
	100-240V				
929003617508	ESS LED MR16	50 to 60	-	6 W	48 W
	6-48W 36D 827	Hz			
	100-240V				
929001844587	ESS LEDspot 5W	50 to 60	50 to 60	5 W	35 W
	400lm GU5.3 827	Hz	Hz		
	220V				
929001844687	ESS LEDspot 5W	50 to 60	50 to 60	5 W	35 W
	400lm GU5.3 840	Hz	Hz		
	220V				
929001844787	ESS LEDspot 5W	50 to 60	50 to 60	5 W	35 W
	400lm GU5.3 865	Hz	Hz		
	220V				
929001240108	Essential LED 5-50W 2700K MR16 24D	- Hz	- Hz	5 W	50 W
929001240208	Essential LED 5-50W 6500K MR16 24D	- Hz	- Hz	5 W	50 W
929001874008	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	50 to 60 Hz	50 to 60 Hz	4.5 W	50 W
929001874011	LED MR16 4.5-50W 36D	50 to 60 Hz	50 to 60 Hz	4.5 W	50 W

Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption	Wattage Equivalent
929001874012	830 SO 100-240V 1BC				
	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	50 to 60 Hz	50 to 60 Hz	4.5 W	50 W
929001874041	LED MR16 4.5-50W 36D 830 SO 100-240V 3BC	50 to 60 Hz	50 to 60 Hz	4.5 W	50 W
929001874061	LED MR16 4.5-50W 36D 830SO100-240V 1PF/6	50 to 60 Hz	50 to 60 Hz	4.5 W	50 W
929001874068	ESS LED MR16 4.5-50W 36D 830 100-240V	50 to 60 Hz	50 to 60 Hz	4.5 W	50 W
929001874108	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	50 to 60 Hz	50 to 60 Hz	4.5 W	50 W
929001874111	LED MR16 4.5-50W 36D 865 SO 100-240V 1BC	50 to 60 Hz	50 to 60 Hz	4.5 W	50 W
929001874112	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	50 to 60 Hz	50 to 60 Hz	4.5 W	50 W
929001874141	LED MR16 4.5-50W 36D 865 SO 100-240V 3BC	50 to 60 Hz	50 to 60 Hz	4.5 W	50 W

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Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption	Wattage Equivalent
929001874161	LED MR16	50 to 60	50 to 60	4.5 W	50 W
	4.5-50W 36D	Hz	Hz		
	865SO100-240V				
	1PF/6				
929001874163	LED MR16	50 to 60	50 to 60	4.5 W	50 W
	4.5-50W 36D	Hz	Hz		

Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption	Wattage Equivalent
929001874208	865SO100-240V				
	3CT/6				
	ESS LED MR16	50 to 60	50 to 60	3 W	35 W
	3-35W 36D 830 SO 100-240V	Hz	Hz		
929001874412	LED MR16	60 Hz	60 Hz	4.5 W	50 W
	4.5-50W 36D				
	830 SO 120V Dim 1CT				

Temperature

Order Code	Full Product Name	Ambient temperature range	T-Case Maximum (Nom)
929003607708	ESS LED MR16 6-48W 36D 830 100-240V	-20 to +45 °C	70 °C
929003607808	ESS LED MR16 6-48W 36D 840 100-240V	-20 to +45 °C	70 °C
929003617508	ESS LED MR16 6-48W 36D 827 100-240V	-20 to +45 °C	70 °C
929001844587	ESS LEDspot 5W 400lm GU5.3 827 220V	-	70 °C
929001844687	ESS LEDspot 5W 400lm GU5.3 840 220V	-	70 °C
929001844787	ESS LEDspot 5W 400lm GU5.3 865 220V	-	70 °C
929001240108	Essential LED 5-50W 2700K MR16 24D	-	76 °C
929001240208	Essential LED 5-50W 6500K MR16 24D	-	76 °C
929001874008	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	-	65 °C
929001874011	LED MR16 4.5-50W 36D 830 SO 100-240V 1BC	-	65 °C
929001874012	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	-	65 °C

Order Code	Full Product Name	Ambient temperature range	T-Case Maximum (Nom)
929001874041	LED MR16 4.5-50W 36D 830 SO 100-240V 3BC	-	65 °C
929001874061	LED MR16 4.5-50W 36D 830SO100-240V 1PF/6	-	65 °C
929001874068	ESS LED MR16 4.5-50W 36D 830 100-240V	-	65 °C
929001874108	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	-	65 °C
929001874111	LED MR16 4.5-50W 36D 865 SO 100-240V 1BC	-	65 °C
929001874112	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	-	65 °C
929001874141	LED MR16 4.5-50W 36D 865 SO 100-240V 3BC	-	65 °C
929001874161	LED MR16 4.5-50W 36D 865SO100-240V 1PF/6	-	65 °C
929001874163	LED MR16 4.5-50W 36D 865SO100-240V 3CT/6	-	65 °C
929001874208	ESS LED MR16 3-35W 36D 830 SO 100-240V	-	55 °C
929001874412	LED MR16 4.5-50W 36D 830 SO 120V Dim 1CT	-	65 °C

Controls and Dimming

Order Code	Full Product Name	Dimmable
929003607708	ESS LED MR16 6-48W 36D 830 100-240V	No
929003607808	ESS LED MR16 6-48W 36D 840 100-240V	No
929003617508	ESS LED MR16 6-48W 36D 827 100-240V	No
929001844587	ESS LEDspot 5W 400lm GU5.3 827 220V	No
929001844687	ESS LEDspot 5W 400lm GU5.3 840 220V	No
929001844787	ESS LEDspot 5W 400lm GU5.3 865 220V	No
929001240108	Essential LED 5-50W 2700K MR16 24D	No
929001240208	Essential LED 5-50W 6500K MR16 24D	No
929001874008	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	No

Order Code	Full Product Name	Dimmable
929001874011	LED MR16 4.5-50W 36D 830 SO 100-240V 1BC	No
929001874012	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	No
929001874041	LED MR16 4.5-50W 36D 830 SO 100-240V 3BC	No
929001874061	LED MR16 4.5-50W 36D 830SO100-240V 1PF/6	No
929001874068	ESS LED MR16 4.5-50W 36D 830 100-240V	No
929001874108	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	No
929001874111	LED MR16 4.5-50W 36D 865 SO 100-240V 1BC	No
929001874112	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	No
929001874141	LED MR16 4.5-50W 36D 865 SO 100-240V 3BC	No

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Order Code	Full Product Name	Dimmable
929001874161	LED MR16 4.5-50W 36D 865SO100-240V 1PF/6	No
929001874163	LED MR16 4.5-50W 36D 865SO100-240V 3CT/6	No

Order Code	Full Product Name	Dimmable
929001874208	ESS LED MR16 3-35W 36D 830 SO 100-240V	No
929001874412	LED MR16 4.5-50W 36D 830 SO 120V Dim 1CT	Yes

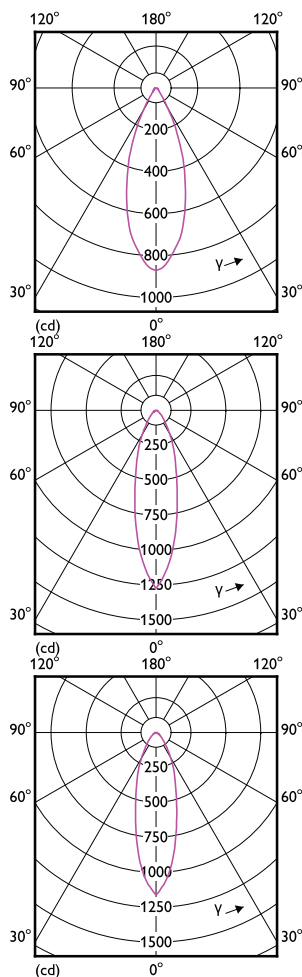
Mechanical and Housing

Order Code	Full Product Name	Bulb Finish
929003607708	ESS LED MR16 6-48W 36D 830 100-240V	Clear
929003607808	ESS LED MR16 6-48W 36D 840 100-240V	Clear
929003617508	ESS LED MR16 6-48W 36D 827 100-240V	Clear
929001844587	ESS LEDspot 5W 400lm GU5.3 827 220V	Clear
929001844687	ESS LEDspot 5W 400lm GU5.3 840 220V	Clear
929001844787	ESS LEDspot 5W 400lm GU5.3 865 220V	Clear
929001240108	Essential LED 5-50W 2700K MR16 24D	-
929001240208	Essential LED 5-50W 6500K MR16 24D	-
929001874008	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	-
929001874011	LED MR16 4.5-50W 36D 830 SO 100-240V 1BC	-
929001874012	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	-

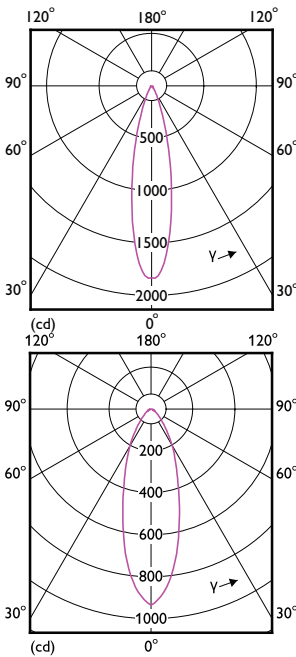
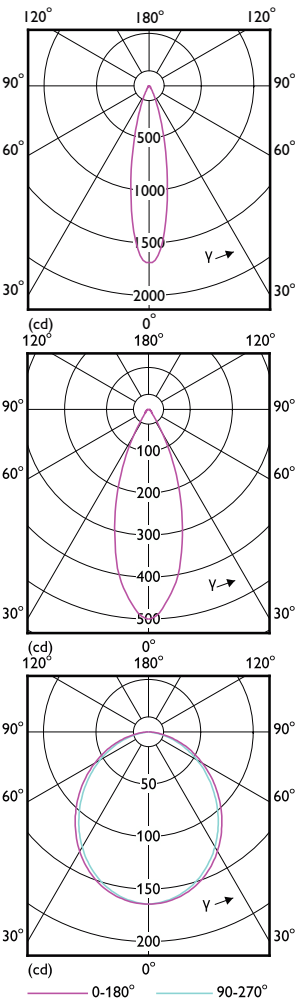
Order Code	Full Product Name	Bulb Finish
929001874041	LED MR16 4.5-50W 36D 830 SO 100-240V 3BC	-
929001874061	LED MR16 4.5-50W 36D 830SO100-240V 1PF/6	-
929001874068	ESS LED MR16 4.5-50W 36D 830 100-240V	-
929001874108	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	-
929001874111	LED MR16 4.5-50W 36D 865 SO 100-240V 1BC	-
929001874112	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	-
929001874141	LED MR16 4.5-50W 36D 865 SO 100-240V 3BC	-
929001874161	LED MR16 4.5-50W 36D 865SO100-240V 1PF/6	-
929001874163	LED MR16 4.5-50W 36D 865SO100-240V 3CT/6	-
929001874208	ESS LED MR16 3-35W 36D 830 SO 100-240V	-
929001874412	LED MR16 4.5-50W 36D 830 SO 120V Dim 1CT	-

Approval and Application

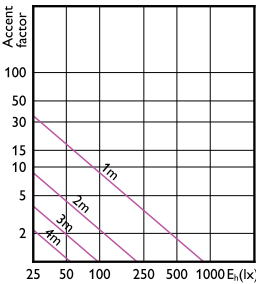
Order Code	Full Product Name	Energy Consumption kWh/1000 h
929003607708	ESS LED MR16 6-48W 36D 830 100-240V	-
929003607808	ESS LED MR16 6-48W 36D 840 100-240V	-
929003617508	ESS LED MR16 6-48W 36D 827 100-240V	-
929001844587	ESS LEDspot 5W 400lm GU5.3 827 220V	5 kWh
929001844687	ESS LEDspot 5W 400lm GU5.3 840 220V	5 kWh
929001844787	ESS LEDspot 5W 400lm GU5.3 865 220V	5 kWh
929001240108	Essential LED 5-50W 2700K MR16 24D	- kWh
929001240208	Essential LED 5-50W 6500K MR16 24D	- kWh
929001874008	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	4.5 kWh
929001874011	LED MR16 4.5-50W 36D 830 SO 100-240V 1BC	- kWh
929001874012	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	- kWh
929001874041	LED MR16 4.5-50W 36D 830 SO 100-240V 3BC	- kWh
929001874061	LED MR16 4.5-50W 36D 830SO100-240V 1PF/6	-
929001874068	ESS LED MR16 4.5-50W 36D 830 100-240V	-
929001874108	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	4.5 kWh
929001874111	LED MR16 4.5-50W 36D 865 SO 100-240V 1BC	- kWh
929001874112	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	- kWh
929001874141	LED MR16 4.5-50W 36D 865 SO 100-240V 3BC	- kWh
929001874161	LED MR16 4.5-50W 36D 865SO100-240V 1PF/6	-
929001874163	LED MR16 4.5-50W 36D 865SO100-240V 3CT/6	-
929001874208	ESS LED MR16 3-35W 36D 830 SO 100-240V	3 kWh
929001874412	LED MR16 4.5-50W 36D 830 SO 120V Dim 1CT	- kWh



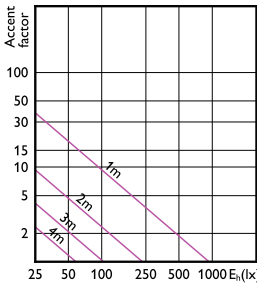
Essential LEDspot MR16



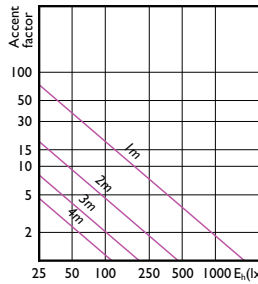
Accent Diagrams



Accent Diagram - ESS LED MR16 4.5-50W 36D
830 SO 100-240V



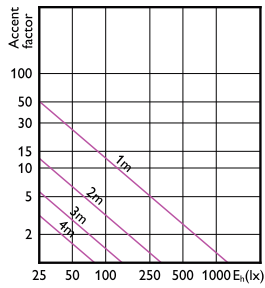
Accent Diagram - ESS LED MR16 6-48W 36D
827 100-240V



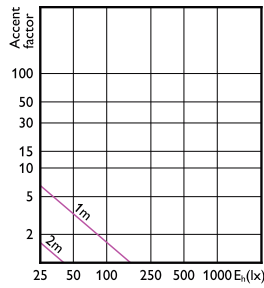
Accent Diagram - Essential LED 5-50W 6500K
MR16 24D

Essential LEDspot MR16

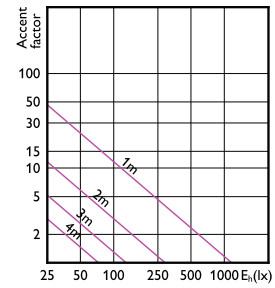
Accent Diagrams



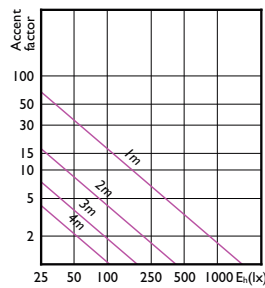
Accent Diagram - ESS LED MR16 6-48W 36D
830 100-240V



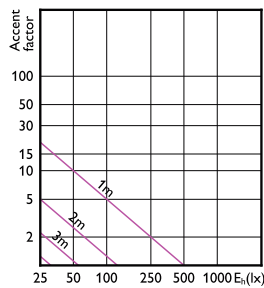
Accent Diagram - ESS LEDspot 5W 400lm
GU5.3 827 220V



Accent Diagram - ESS LED MR16 6-48W 36D
840 100-240V

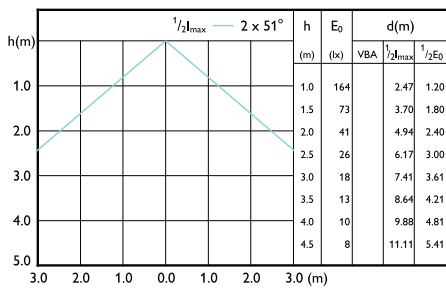


Accent Diagram - Essential LED 5-50W 2700K
MR16 24D

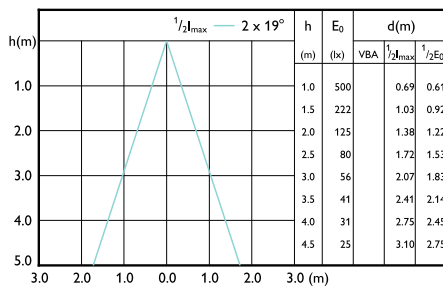


Accent Diagram - ESS LED MR16 3-35W 36D
830 SO 100-240V

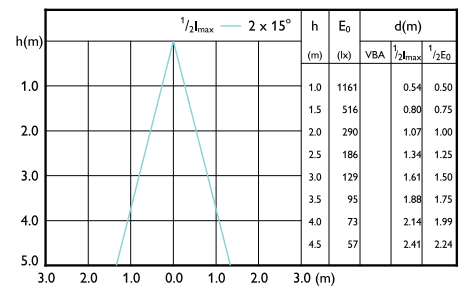
Beam Diagrams



Beam diagram - ESS LEDspot 5W 400lm GU5.3
827 220V



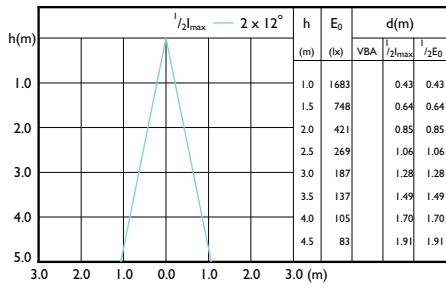
Beam diagram - ESS LED MR16 3-35W 36D 830
SO 100-240V



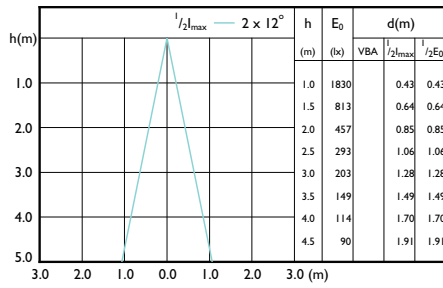
Beam diagram - ESS LED MR16 6-48W 36D 840
100-240V

Essential LEDspot MR16

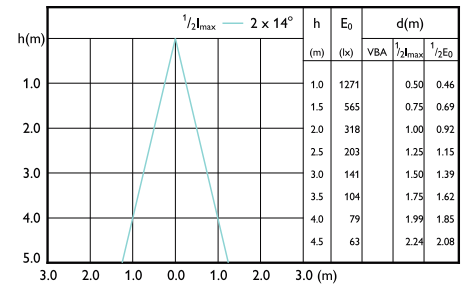
Beam Diagrams



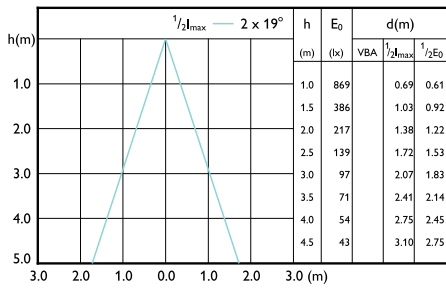
Beam diagram - Essential LED 5-50W 2700K MR16 24D



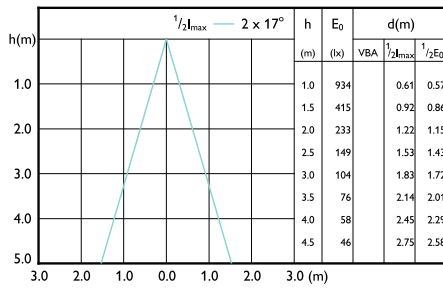
Beam diagram - Essential LED 5-50W 6500K MR16 24D



Beam diagram - ESS LED MR16 6-48W 36D 830 100-240V



Beam diagram - ESS LED MR16 4.5-50W 36D 830 SO 100-240V



Beam diagram - ESS LED MR16 6-48W 36D 827 100-240V

