



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

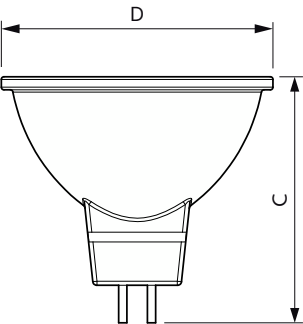
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Versions



LEDspots ESS GMGC MR16 GU5,3

Dimensional drawing



Product	D	C
5W (50W) GU5.3 cap Cool daylight Non-dimmable Spot	50 mm	46 mm
5W (50W) GU5.3 cap Warm white Non-dimmable Spot	50 mm	46 mm
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
LED MR16 4.5-50W 36D 830 SO 120V Dim 1CT	50.5 mm	46.5 mm

General Information	
Cap-Base	GU5.3
Switching Cycle	50,000
Nominal lifetime	15,000 hour(s)
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)
929003607708	ESS LED MR16 6-48W 36D 830 100-240V	-

Order Code	Full Product Name	Rated Lifetime (Hours)
929003607808	ESS LED MR16 6-48W 36D 840 100-240V	-

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Order Code	Full Product Name	Rated Lifetime (Hours)
929003617508	ESS LED MR16 6-48W 36D 827 100-240V	-
929001240108	5W (50W) GU5.3 cap Warm white Non-dimmable Spot	15,000 hour(s)
929001240208	5W (50W) GU5.3 cap Cool daylight Non-dimmable Spot	15,000 hour(s)
929001874008	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	-

Order Code	Full Product Name	Rated Lifetime (Hours)
929001874012	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	-
929001874068	ESS LED MR16 4.5-50W 36D 830 100-240V	-
929001874108	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	-
929001874112	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	-
929001874208	ESS LED MR16 3-35W 36D 830 SO 100-240V	-
929001874412	LED MR16 4.5-50W 36D 830 SO 120V Dim 1CT	-

Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color	Color rendering	Color	Luminous Intensity	
			Temperature (Nom)	index (CRI)	Code	Luminous Flux	(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
929001240108	5W (50W) GU5.3 cap Warm white Non-dimmable Spot	24 degree(s)	2700 K	80	827	400 lm	1,700 cd
929001240208	5W (50W) GU5.3 cap Cool daylight Non-dimmable Spot	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
929001874012	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	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
929001874112	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	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 6-48W 36D 830 100-240V	50 to 60 Hz	-	6 W	48 W
929003607808	ESS LED MR16 6-48W 36D 840 100-240V	50 to 60 Hz	-	6 W	48 W
929003617508	ESS LED MR16 6-48W 36D 827 100-240V	50 to 60 Hz	-	6 W	48 W
929001240108	5W (50W) GU5.3 cap Warm white Non-dimmable Spot	- Hz	- Hz	5 W	50 W
929001240208	5W (50W) GU5.3 cap	- Hz	- Hz	5 W	50 W

Order Code	Full Product Name	Input Frequency	Line Frequency	Power Consumption	Wattage Equivalent
	Cool daylight Non-dimmable Spot				
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
929001874012	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	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

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	Full Product	Input	Line	Power	Wattage
Order Code	Name	Frequency	Frequency	Consumption	Equivalent
929001874108	ESS LED	50 to 60 Hz	50 to 60 Hz	4.5 W	50 W
	MR16				
	4.5-50W 36D				
	865 SO				
929001874112	ESS LED	50 to 60 Hz	50 to 60 Hz	4.5 W	50 W
	MR16				
	4.5-50W 36D				

	Full Product	Input	Line	Power	Wattage
Order Code	Name	Frequency	Frequency	Consumption	Equivalent
929001874208	865 SO				
	100-240V				
	ESS LED	50 to 60 Hz	50 to 60 Hz	3 W	35 W
	MR16 3-35W				
929001874412	36D 830 SO				
	100-240V				
	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	T-Case Maximum (Nom)
929003607708	ESS LED MR16 6-48W 36D 830 100-240V	70 °C
929003607808	ESS LED MR16 6-48W 36D 840 100-240V	70 °C
929003617508	ESS LED MR16 6-48W 36D 827 100-240V	70 °C
929001240108	5W (50W) GU5.3 cap Warm white Non-dimmable Spot	76 °C
929001240208	5W (50W) GU5.3 cap Cool daylight Non-dimmable Spot	76 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929001874008	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	65 °C
929001874012	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	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
929001874112	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	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
929001240108	5W (50W) GU5.3 cap Warm white Non-dimmable Spot	No
929001240208	5W (50W) GU5.3 cap Cool daylight Non-dimmable Spot	No
929001874008	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	No

Order Code	Full Product Name	Dimmable
929001874012	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	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
929001874112	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	No
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
929001240108	5W (50W) GU5.3 cap Warm white Non-dimmable Spot	-
929001240208	5W (50W) GU5.3 cap Cool daylight Non-dimmable Spot	-
929001874008	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	-

Order Code	Full Product Name	Bulb Finish
929001874012	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	-
929001874068	ESS LED MR16 4.5-50W 36D 830 100-240V	-
929001874108	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	-
929001874112	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	-
929001874208	ESS LED MR16 3-35W 36D 830 SO 100-240V	-
929001874412	LED MR16 4.5-50W 36D 830 SO 120V Dim 1CT	-

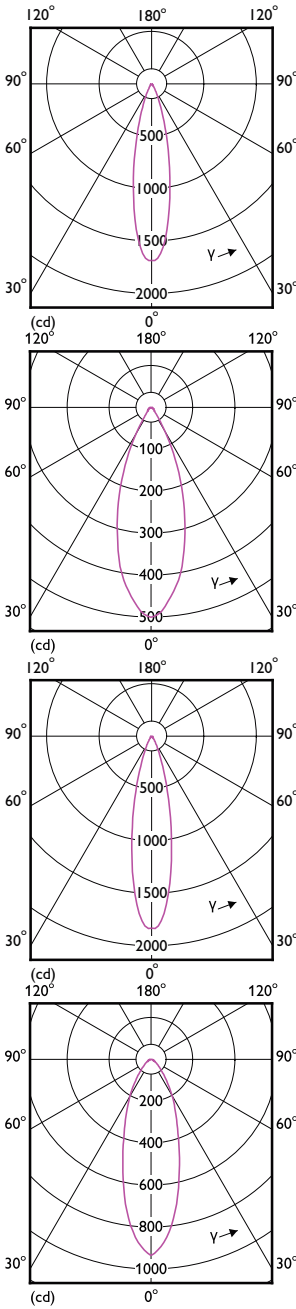
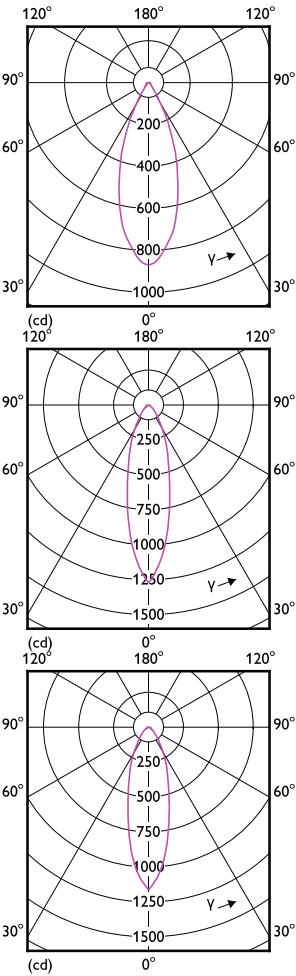
Approval and Application

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
929003607708	ESS LED MR16 6-48W 36D 830 100-240V	-20 to +45 °C	-

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
929003607808	ESS LED MR16 6-48W 36D 840 100-240V	-20 to +45 °C	-

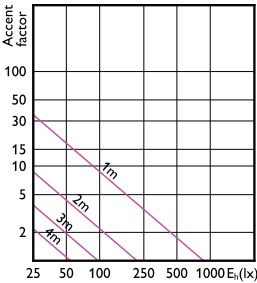
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Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
929003617508	ESS LED MR16 6-48W 36D 827 100-240V	-20 to +45 °C	-
929001240108	5W (50W) GU5.3 cap Warm white Non-dimmable Spot	-	-
929001240208	5W (50W) GU5.3 cap Cool daylight Non-dimmable Spot	-	-
929001874008	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	-	4.5 kWh
929001874012	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	-	-
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
929001874112	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	-	-
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	-	-

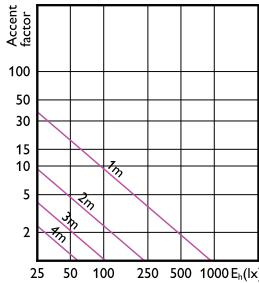


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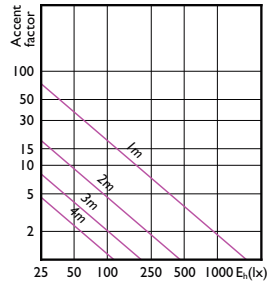
Accent Diagrams



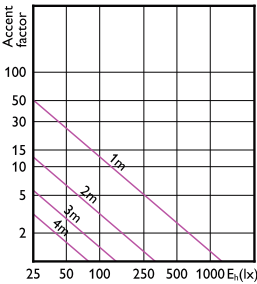
Accent Diagram - ESS LED MR16 4.5-50W 36D
830 SO 100-240V



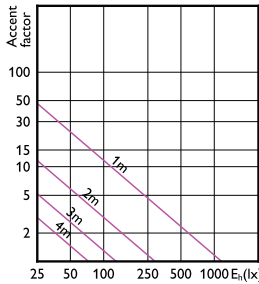
Accent Diagram - ESS LED MR16 6-48W 36D
827 100-240V



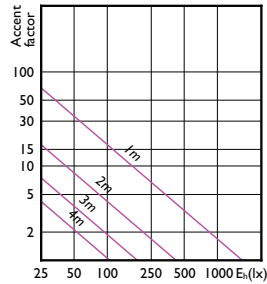
Accent Diagram - Essential LED 5-50W 6500K
MR16 24D



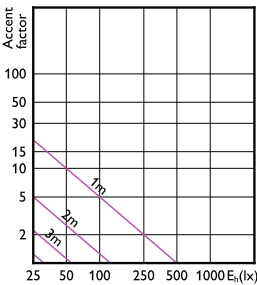
Accent Diagram - ESS LED MR16 6-48W 36D
830 100-240V



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



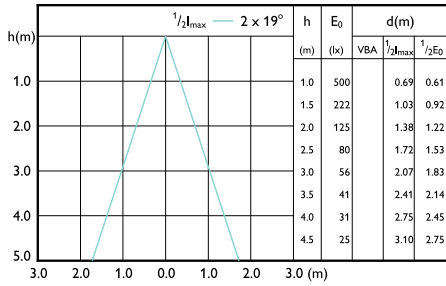
Accent Diagram - Essential LED 5-50W 2700K
MR16 24D



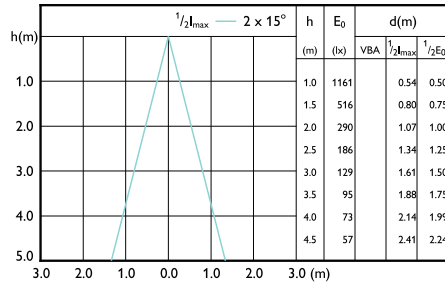
Accent Diagram - ESS LED MR16 3-35W 36D
830 SO 100-240V

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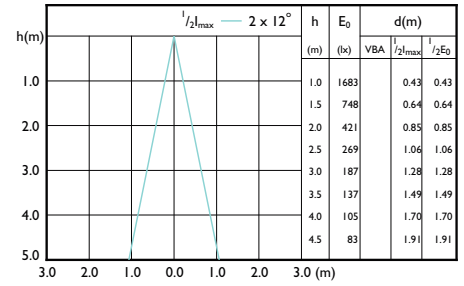
Beam Diagrams



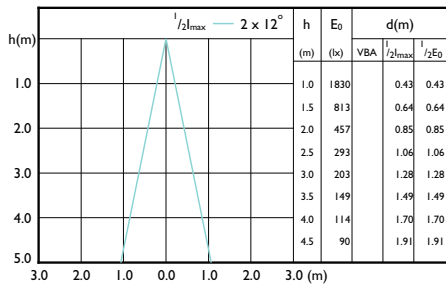
Beam diagram - ESS LED MR16 3-35W 36D 830 SO 100-240V



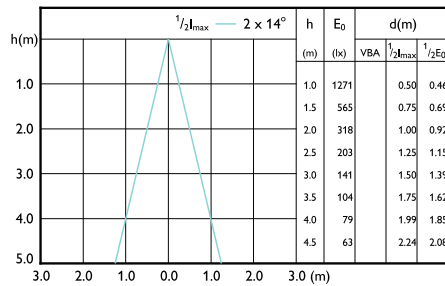
Beam diagram - ESS LED MR16 6-48W 36D 840 100-240V



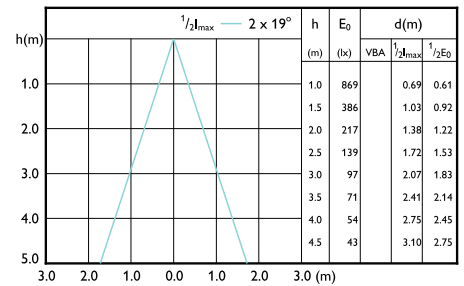
Beam diagram - Essential LED 5-50W 2700K MR16 24D



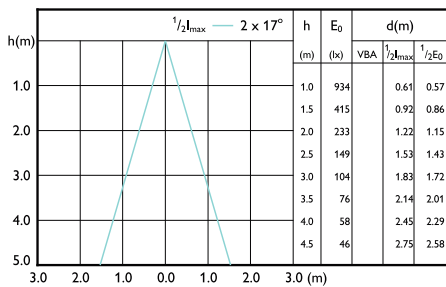
Beam diagram - Essential LED 5-50W 6500K MR16 24D



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

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