



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

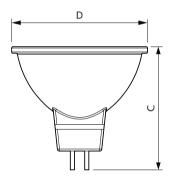
- Hotels, restaurants, bars, cafés, shops
- · Lobbies, corridors, stairwells, washrooms, reception areas

Versions



LEDspot Essential 50W GU5.3 MR16 827 24D ND

Dimensional drawing



General Information	
Cap-Base	GU5.3
Switching Cycle	50,000
Nominal lifetime	15,000 hour(s)
Light Technical	
Color rendering index (CRI)	80
LLMF At End Of Nominal Lifetime	70 %
(Nom)	
Operating and Electrical	
Starting Time (Nom)	0.5 s
Controls and Dimming	
Dimmable	No
Mechanical and Housing	
Bulb Shape	MR16

Light Technical (1/2)

Product	D	с
ESS LED MR16 3-35W 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
Essential LED 5-50W 2700K MR16 24D	50 mm	46 mm
Essential LED 5-50W 6500K MR16 24D	50 mm	46 mm

General Information

Order Code	Full Product Name	Rated Lifetime (Hours)
929001240108	Essential LED 5-50W 2700K MR16 24D	15,000 hour(s)
929001240208	Essential LED 5-50W 6500K MR16 24D	15,000 hour(s)
929001874008	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	-
929001874108	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	-
929001874208	ESS LED MR16 3-35W 36D 830 SO 100-240V	-

			Correlated		
		Beam	Color		
	Full Product	Angle	Temperature	Color	Luminous
Order Code	Name	(Nom)	(Nom)	Code	Flux
929001240108	Essential LED	24	2700 K	827	400 lm
	5-50W 2700K	degree(s)			
	MR16 24D				
929001240208	Essential LED	24	6500 K	865	435 lm
	5-50W 6500K	degree(s)			
	MR16 24D				
929001874008	ESS LED MR16	36	3000 K	830	400 lm
	4.5-50W 36D 830	degree(s)			
	SO 100-240V				

			Correlated		
		Beam	Color		
	Full Product	Angle	Temperature	Color	Luminous
Order Code	Name	(Nom)	(Nom)	Code	Flux
929001874108	ESS LED MR16	36	6500 K	865	400 lm
	4.5-50W 36D 865	degree(s)			
	SO 100-240V				
929001874208	ESS LED MR16	36	3000 K	830	230 lm
	3-35W 36D 830	degree(s)			
	SO 100-240V				

Light Technical (2/2)

		Luminous Intensity
Order Code	Full Product Name	(Nom)
929001240108	Essential LED 5-50W 2700K MR16 24D	1,700 cd
929001240208	Essential LED 5-50W 6500K MR16 24D	1,700 cd
929001874008	ESS LED MR16 4.5-50W 36D 830 SO 100-240V	700 cd

		Luminous Intensity
Order Code	Full Product Name	(Nom)
929001874108	ESS LED MR16 4.5-50W 36D 865 SO 100-240V	700 cd
929001874208	ESS LED MR16 3-35W 36D 830 SO 100-240V	550 cd

Operating and Electrical

	Full Product	Input	Line	Power	Wattage		Full Product	Input	Line	Power	Wattage
Order Code	Name	Frequency	Frequency	Consumption	Equivalent	Order Code	Name	Frequency	Frequency	Consumption	Equivalent
929001240108	Essential LED	– Hz	- Hz	5 W	50 W		830 SO				
	5-50W						100-240V				
	2700K MR16					929001874108	ESS LED	50 to 60 Hz	50 to 60 Hz	4.5 W	50 W
	24D						MR16				
929001240208	Essential LED	– Hz	- Hz	5 W	50 W		4.5-50W 36D				
	5-50W						865 SO				
	6500K MR16						100-240V				
	24D					929001874208	ESS LED	50 to 60 Hz	50 to 60 Hz	3 W	35 W
929001874008	ESS LED	50 to 60 Hz	50 to 60 Hz	4.5 W	50 W		MR16 3-35W				
	MR16						36D 830 SO				
	4.5-50W 36D						100-240V				

Temperature

		T-Case Maximum
Order Code	Full Product Name	(Nom)
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	65 °C
	100-240V	

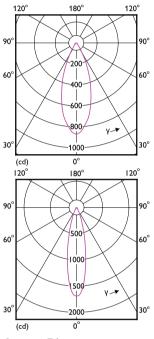
		T-Case Maximum
Order Code	Full Product Name	(Nom)
929001874108	ESS LED MR16 4.5-50W 36D 865 SO	65 °C
	100-240V	
929001874208	ESS LED MR16 3-35W 36D 830 SO 100-240V	55 °C

Approval and Application

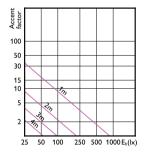
		Energy Consumption
Order Code	Full Product Name	kWh/1000 h
929001240108	Essential LED 5-50W 2700K MR16 24D	– kWh

		Energy Consumption
Order Code	Full Product Name	kWh/1000 h
929001240208	Essential LED 5-50W 6500K MR16 24D	- kWh

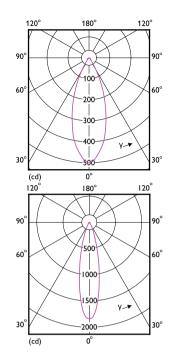
		Energy Consumption
Order Code	Full Product Name	kWh/1000 h
929001874008	ESS LED MR16 4.5-50W 36D 830 SO	4.5 kWh
	100-240V	
929001874108	ESS LED MR16 4.5-50W 36D 865 SO	4.5 kWh
	100-240V	
929001874208	ESS LED MR16 3-35W 36D 830 SO	3 kWh
	100-240V	

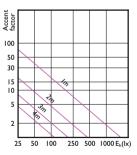


Accent Diagrams

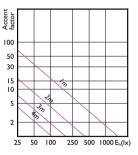


Accent Diagram - ESS LED MR16 4.5-50W 36D 865 SO 100-240V



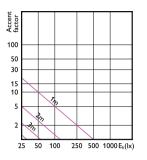


Accent Diagram - Essential LED 5-50W 6500K MR16 24D



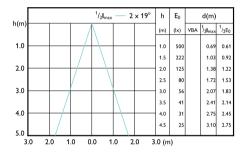
Accent Diagram - Essential LED 5-50W 2700K MR16 24D

Accent Diagrams

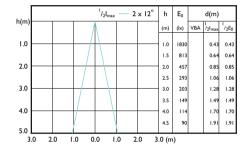


Accent Diagram - ESS LED MR16 3-35W 36D 830 SO 100-240V

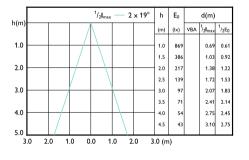
Beam Diagrams



h ()	¹ / ₂ I _{max} - 2 x 12°					h	E ₀	d(m)			
h(m)							(m)	(lx)	VBA	l /2I _{max}	/ ₂ E0
1.0							1.0	1683		0.43	0.43
							1.5	748		0.64	0.64
2.0				\vdash			2.0	421		0.85	0.85
							2.5	269		1.06	1.06
3.0				\vdash			3.0	187		1.28	1.28
							3.5	137		1.49	1.49
4.0			/				4.0	105		1.70	1.70
5.0							4.5	83		1.91	1.91
3	.0 2	.0 1	.0 0	.0 1	.0 2	0 3	.0 (m)			



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



Beam diagram - ESS LED MR16 4.5-50W 36D 865 SO 100-240V

Beam diagram - Essential LED 5-50W 2700K MR16 24D Beam diagram - Essential LED 5-50W 6500K MR16 24D



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