PHILIPS Lighting



MASTER LEDspot LV - The ideal solution for spot lighting

MASTER VALUE LEDspot LV

Delivering a warm, halogen-like accent beam, MASTER LEDspot LV is an ideal retrofit solution for spot and general lighting applications in the hospitality industry. It is particularly suited to public areas such as receptions, lobbies, corridors, stairwells and washrooms, where the light is on all the time. The robustly designed MASTER LEDspot offers a choice of beam angles for a clearly defined beam spread. There is no UV or IR in the beam, making it suitable for illuminating heat-sensitive objects (food, organic materials, paintings, etc.). The patented intelligent driver enables broad compatibility with existing electromagnetic and electronic halogen transformers. The dimmable versions drive further efficiencies, while helping to create the desired atmosphere.

Benefits

- \cdot Up to 80% energy saving compared with halogen lamp
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- \cdot Broad compatibility with transformers
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- \cdot Retrofittable with low-voltage MR16 halogen lamps with GU5.3 socket
- \cdot Suitable to retrofit with low-voltage halogen lamps covering GU5.3 and GU4 base types

Features

- dimmable (the 7-35W and 10-50W versions)
- Dimmable (6.5-35W versions)
- patented intelligent driver
- Innovative AirFlux technology for passive cooling, depending upon model
- air movement mechanism (active fan cooling) with very low sound levels
- \cdot Warm and cool white light
- lifetime of 25,000 to 45,000 hours
- Lifetime:
- · CRI90 (MR11 only)
- 40,000 hours MASTER LED
- 25,000 hours MASTER LED VALUE
- TransforMax technology to ensure compatibility with existing transformers (depending upon model)

Application

- Ideal for accent lighting in hotels, hospitals, shops and museums (e.g. floors, elevators, displays)
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Warnings and Safety

- Operating temperature range is between -20° C and 45° C ambient
- Operating temperature range is between -20° C and 45° C ambient
- Only to apply in dry or damp locations and most of open fixtures with lamp-holders that offer sufficient space (10 mm free air space)
- Only to apply in dry or damp locations and most of open fixtures with lamp-holders that offer sufficient space (10 mm free air space)
- Not intended for use with emergency light fixtures or exit lights
- Not intended for use with emergency light fixtures or exit lights

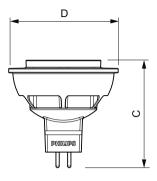
Versions

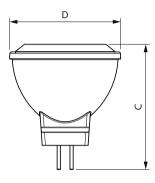


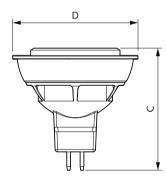


LEDspots MAS SLR 2 MR11 GU4

Dimensional drawing







General Information	
Switching Cycle	50,000
Light Technical	
LLMF At End Of Nominal Lifetime	70 %
(Nom)	
Operating and Electrical	
Input Frequency	– Hz
Starting Time (Nom)	0.5 s
Controls and Dimming	
Dimmable	No

General Information

Product	D	С
MASTER LED 5.5-50W 2700K MR16 36D	50.2 mm	49 mm
MASTER LED 5.5-50W 4000K MR16 36D	50.2 mm	49 mm

Product	D	с
MAS LEDspotLV 3.5-20W 827 MR11 24D	35.1 mm	39.5 mm

Product	D	с
MASTER LED 3.9-35W 2700K MR16 24D	50.5 mm	50 mm
MASTER LED 3.9-35W 2700K MR16 36D	50.5 mm	50 mm
MASTER LED 3.9-35W 3000K MR16 24D	50.5 mm	50 mm
MASTER LED 3.9-35W 3000K MR16 36D	50.5 mm	50 mm
MASTER LED 4.9-50W 2700K MR16 24D	50.5 mm	50 mm
MASTER LED 4.9-50W 2700K MR16 36D	50.5 mm	50 mm
MASTER LED 4.9-50W 3000K MR16 24D	50.5 mm	50 mm
MASTER LED 4.9-50W 3000K MR16 36D	50.5 mm	50 mm
MASTER LED 4.9-50W 4000K MR16 24D	50.5 mm	50 mm
MASTER LED 4.9-50W 4000K MR16 36D	50.5 mm	50 mm

Product family leaflet, 2	2023, August 2
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Order Code	Full Product Name	Cap-Base	Nominal lifetime	Order Code	Full Product Name	Cap-Base	Nominal lifetime
929001146108	MASTER LED 5.5-50W 2700K MR16 36D	GU5.3	25,000 hour(s)	929003610608	MASTER LED 4.9-50W 2700K MR16 24D	GU5.3	25,000 hour(s)
929001146908	MASTER LED 5.5-50W 4000K MR16 36D	GU5.3	25,000 hour(s)	929003610708	MASTER LED 4.9-50W 3000K MR16 24D	GU5.3	25,000 hour(s)
929003087002	MAS LEDspotLV 3.5-20W 827 MR11 24D	GU4	40,000 hour(s)	929003610808	MASTER LED 4.9-50W 4000K MR16 24D	GU5.3	25,000 hour(s)
929003610208	MASTER LED 3.9-35W 2700K MR16 24D	GU5.3	25,000 hour(s)	929003610908	MASTER LED 4.9-50W 2700K MR16 36D	GU5.3	25,000 hour(s)
929003610308	MASTER LED 3.9-35W 3000K MR16 24D	GU5.3	25,000 hour(s)	929003611008	MASTER LED 4.9-50W 3000K MR16 36D	GU5.3	25,000 hour(s)
929003610408	MASTER LED 3.9-35W 2700K MR16 36D	GU5.3	25,000 hour(s)	929003611108	MASTER LED 4.9-50W 4000K MR16 36D	GU5.3	25,000 hour(s)
929003610508	MASTER LED 3.9-35W 3000K MR16 36D	GU5.3	25,000 hour(s)				

Light Technical

		Correlated Color	Color rendering			Luminous Intensity
Full Product Name	Beam Angle (Nom)	Temperature (Nom)	index (CRI)	Color Code	Luminous Flux	(Nom)
MASTER LED 5.5-50W 2700K MR16 36D	36 degree(s)	2700 K	80	827	415 lm	1,000 cd
MASTER LED 5.5-50W 4000K MR16 36D	36 degree(s)	4000 K	80	840	450 lm	1,000 cd
MAS LEDspotLV 3.5-20W 827 MR11 24D	24 degree(s)	2700 K	80	827	200 lm	1,000 cd
MASTER LED 3.9-35W 2700K MR16 24D	24 degree(s)	2700 K	90	927	270 lm	1,000 cd
MASTER LED 3.9-35W 3000K MR16 24D	24 degree(s)	3000 K	90	930	280 lm	1,000 cd
MASTER LED 3.9-35W 2700K MR16 36D	36 degree(s)	2700 K	90	927	270 lm	600 cd
MASTER LED 3.9-35W 3000K MR16 36D	36 degree(s)	3000 K	90	930	280 lm	600 cd
MASTER LED 4.9-50W 2700K MR16 24D	24 degree(s)	2700 K	90	927	415 lm	1,600 cd
MASTER LED 4.9-50W 3000K MR16 24D	24 degree(s)	3000 K	90	930	425 lm	1,700 cd
MASTER LED 4.9-50W 4000K MR16 24D	24 degree(s)	4000 K	90	940	430 lm	1,700 cd
MASTER LED 4.9-50W 2700K MR16 36D	36 degree(s)	2700 K	90	927	415 lm	900 cd
MASTER LED 4.9-50W 3000K MR16 36D	36 degree(s)	3000 K	90	930	425 lm	950 cd
MASTER LED 4.9-50W 4000K MR16 36D	36 degree(s)	4000 K	90	940	430 lm	950 cd
	MASTER LED 5.5-50W 2700K MR16 36D MASTER LED 5.5-50W 4000K MR16 36D MAS LEDspotLV 3.5-20W 827 MR11 24D MASTER LED 3.9-35W 2700K MR16 24D MASTER LED 3.9-35W 3000K MR16 36D MASTER LED 3.9-35W 3000K MR16 36D MASTER LED 4.9-50W 2700K MR16 24D MASTER LED 4.9-50W 4000K MR16 34D MASTER LED 4.9-50W 2700K MR16 36D MASTER LED 4.9-50W 2700K MR16 36D	MASTER LED 5.5-50W 2700K MR16 36D 36 degree(s) MASTER LED 5.5-50W 4000K MR16 36D 36 degree(s) MAS LEDspotLV 3.5-20W 827 MR11 24D 24 degree(s) MASTER LED 3.9-35W 2700K MR16 24D 24 degree(s) MASTER LED 3.9-35W 2700K MR16 24D 24 degree(s) MASTER LED 3.9-35W 2700K MR16 36D 36 degree(s) MASTER LED 3.9-35W 2700K MR16 34D 24 degree(s) MASTER LED 4.9-50W 2700K MR16 24D 24 degree(s) MASTER LED 4.9-50W 4000K MR16 24D 24 degree(s) MASTER LED 4.9-50W 4000K MR16 24D 24 degree(s) MASTER LED 4.9-50W 2700K MR16 24D 24 degree(s)	Full Product Name Beam Angle (No) Temperature (Nom) MASTER LED 5.5-50W 2700K MR1630D 36 degree(s) 2700 K MASTER LED 5.5-50W 4000K MR1630D 36 degree(s) 4000 K MASTER LED 5.5-50W 4000K MR164DD 24 degree(s) 2700 K MASTER LED 3.9-35W 2700K MR1624D 24 degree(s) 2700 K MASTER LED 3.9-35W 2700K MR1624D 24 degree(s) 3000 K MASTER LED 3.9-35W 3000K MR1624D 24 degree(s) 3000 K MASTER LED 3.9-35W 3000K MR1624D 24 degree(s) 3000 K MASTER LED 4.9-50W 2700K MR1624D 24 degree(s) 3000 K MASTER LED 4.9-50W 2700K MR1624D 24 degree(s) 3000 K MASTER LED 4.9-50W 4000K MR1624D 24 degree(s) 3000 K MASTER LED 4.9-50W 4000K MR1624D 24 degree(s) 3000 K MASTER LED 4.9-50W 4000K MR1624D 24 degree(s) 3000 K MASTER LED 4.9-50W 4000K MR1624D 24 degree(s) 3000 K MASTER LED 4.9-50W 4000K MR1624D 24 degree(s) 3000 K MASTER LED 4.9-50W 4000K MR1624D 24 degree(s) 3000 K MASTER LED 4.9-50W 4000K MR1634D 26 deg	Full Product Name Beam Angle (Nom) Temperature (Nom) index (CRI) MASTER LED 5.5-50W 2700K MR1636D 36 degree(s) 2700 K 80 MASTER LED 5.5-50W 4000K MR1636D 36 degree(s) 4000 K 80 MASTER LED 5.5-50W 4000K MR1636D 36 degree(s) 2700 K 80 MAS LEDspotLV 3.5-20W 827 MR1124D 24 degree(s) 2700 K 90 MASTER LED 3.9-35W 2700K MR1624D 24 degree(s) 3000 K 90 MASTER LED 3.9-35W 3000K MR1624D 24 degree(s) 3000 K 90 MASTER LED 3.9-35W 3000K MR1636D 36 degree(s) 3000 K 90 MASTER LED 3.9-35W 3000K MR1624D 24 degree(s) 3000 K 90 MASTER LED 4.9-50W 2700K MR1624D 24 degree(s) 3000 K 90 MASTER LED 4.9-50W 3000K MR1624D 24 degree(s) 3000 K 90 MASTER LED 4.9-50W 3000K MR1624D 24 degree(s) 3000 K 90 MASTER LED 4.9-50W 4000K MR1624D 24 degree(s) 3000 K 90 MASTER LED 4.9-50W 3000K MR1636D 36 degree(s) 3000 K 90 MASTER LED	Full Product Name Beam Angle (Nom) Temperature (Nom) index (CRI) Color Code MASTER LED 5.5-50W 2700K MR16360 36 degree(s) 2700 K 80 827 MASTER LED 5.5-50W 4000K MR16360 36 degree(s) 4000 K 80 840 MASTER LED 5.5-20W 827 MR11240 24 degree(s) 2700 K 80 827 MASTER LED 3.9-35W 2700K MR16240 24 degree(s) 2700 K 90 927 MASTER LED 3.9-35W 3000K MR16240 24 degree(s) 3000 K 90 930 MASTER LED 3.9-35W 3000K MR16240 36 degree(s) 2700 K 90 927 MASTER LED 3.9-35W 3000K MR16360 36 degree(s) 3000 K 90 927 MASTER LED 4.9-50W 2700K MR16340 24 degree(s) 3000 K 90 927 MASTER LED 4.9-50W 3000K MR16240 24 degree(s) 3000 K 90 927 MASTER LED 4.9-50W 3000K MR16240 24 degree(s) 3000 K 90 930 MASTER LED 4.9-50W 4000K MR16240 24 degree(s) 3000 K 90 927 MASTER LED 4.9-50W 4000K MR16363	Full Product NameBeam Angle (Nom)Temperature (Nom)index (CRI)Color ColeLuminous FlagMASTER LED 5.5-50W 270K MR1636036 degree(s)270 K80827415 lmMASTER LED 5.5-50W 4000K MR1636036 degree(s)4000 K80840450 lmMAS LED SpotLV 3.5-20W 827 MR1124024 degree(s)2700 K80827200 lmMASTER LED 3.9-35W 2700K MR1624024 degree(s)2700 K90927270 lmMASTER LED 3.9-35W 3000K MR1636036 degree(s)3000 K90927270 lmMASTER LED 3.9-35W 3000K MR1636036 degree(s)3000 K90927280 lmMASTER LED 3.9-35W 3000K MR1636036 degree(s)3000 K90927415 lmMASTER LED 4.9-50W 2700K MR1624024 degree(s)3000 K90927415 lmMASTER LED 4.9-50W 3000K MR1624024 degree(s)3000 K90927415 lmMASTER LED 4.9-50W 4000K MR1624024 degree(s)3000 K90927415 lmMASTER LED 4.9-50W 4000K MR1624024 degree(s)3000 K90927415 lmMASTER LED 4.9-50W 4000K MR1636136 degree(s)2700 K90927415 lmMASTER LED 4.9-50W 2000K MR1636336 degree(s)3000 K90927415 lmMASTER LED 4.9-50W 4000K MR1636136 degree(s)3000 K90927415 lmMASTER LED 4.9-50W 2000K MR1636336 degree(s)3000 K90927415 lmMASTER LED 4.9-50W 4000

Operating and Electrical

		Line	Power	Wattage				Line	Line Power
duct	t Name	Frequency	Consumption	Equivalent		Order Code	Order Code Full Product Name	Order Code Full Product Name Frequency	Order Code Full Product Name Frequency Consumption
R LEI	D	– Hz	5.5 W	50 W		929003610608	929003610608 MASTER LED	929003610608 MASTER LED -	929003610608 MASTER LED - 4.9 W
/ 270	00K						4.9-50W 2700K	4.9-50W 2700K	4.9-50W 2700K
5D							MR16 24D		
R LEI		- Hz	5.5 W	50 W		929003610708			
	000K						4.9-50W 3000K		
5D			2514	20.11			MR16 24D		
	otLV 7 MR11	- Hz	3.5 W	20 W		929003610808	929003610808 MASTER LED 4.9-50W 4000K		
02							4.9-50W 4000K MR16 24D		
R LEI	D	_	3.9 W	35 W		929003610908	929003610908 MASTER LED		
	00K						4.9-50W 2700K		
1D							MR16 36D	MR16 36D	MR16 36D
R LEI	.D	-	3.9 W	35 W		929003611008	929003611008 MASTER LED	929003611008 MASTER LED -	929003611008 MASTER LED - 4.9 W
/ 30	00K						4.9-50W 3000K	4.9-50W 3000K	4.9-50W 3000K
1D							MR16 36D	MR16 36D	MR16 36D
R LEI	.D	-	3.9 W	35 W		929003611108	929003611108 MASTER LED	929003611108 MASTER LED -	929003611108 MASTER LED - 4.9 W
	00K						4.9-50W 4000K		
5D							MR16 36D	MR16 36D	MR16 36D
R LEI		-	3.9 W	35 W					
	00K								
5D									

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929001146108	MASTER LED 5.5-50W 2700K MR16 36D	95 °C
929001146908	MASTER LED 5.5-50W 4000K MR16 36D	95 °C
929003087002	MAS LEDspotLV 3.5-20W 827 MR11 24D	85 °C
929003610208	MASTER LED 3.9-35W 2700K MR16 24D	68 °C
929003610308	MASTER LED 3.9-35W 3000K MR16 24D	68 °C
929003610408	MASTER LED 3.9-35W 2700K MR16 36D	68 °C
929003610508	MASTER LED 3.9-35W 3000K MR16 36D	68 °C

Order Code	Full Product Name	T-Case Maximum (Nom)
929003610608	MASTER LED 4.9-50W 2700K MR16 24D	72 °C
929003610708	MASTER LED 4.9-50W 3000K MR16 24D	72 °C
929003610808	MASTER LED 4.9-50W 4000K MR16 24D	72 °C
929003610908	MASTER LED 4.9-50W 2700K MR16 36D	72 °C
929003611008	MASTER LED 4.9-50W 3000K MR16 36D	72 °C
929003611108	MASTER LED 4.9-50W 4000K MR16 36D	72 °C

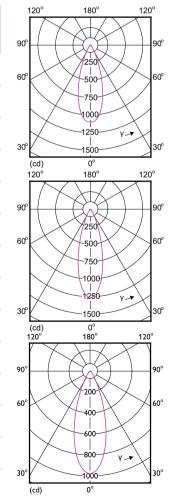
Mechanical and Housing

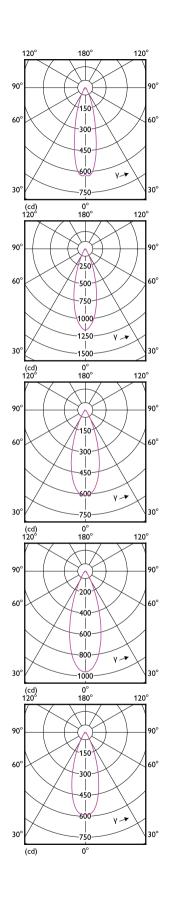
Order Code	Full Product Name	Bulb Finish	Bulb Shape
929001146108	MASTER LED 5.5-50W 2700K MR16 36D	-	MR16
929001146908	MASTER LED 5.5-50W 4000K MR16 36D	-	MR16
929003087002	MAS LEDspotLV 3.5-20W 827 MR11 24D	-	MR11
929003610208	MASTER LED 3.9-35W 2700K MR16 24D	Clear	MR16
929003610308	MASTER LED 3.9-35W 3000K MR16 24D	Clear	MR16
929003610408	MASTER LED 3.9-35W 2700K MR16 36D	Clear	MR16
929003610508	MASTER LED 3.9-35W 3000K MR16 36D	Clear	MR16

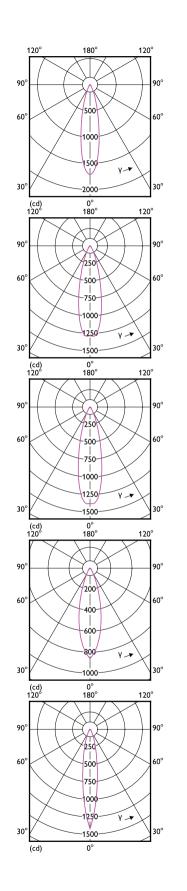
Order Code	Full Product Name	Bulb Finish	Bulb Shape
929003610608	MASTER LED 4.9-50W 2700K MR16 24D	Clear	MR16
929003610708	MASTER LED 4.9-50W 3000K MR16 24D	Clear	MR16
929003610808	MASTER LED 4.9-50W 4000K MR16 24D	Clear	MR16
929003610908	MASTER LED 4.9-50W 2700K MR16 36D	Clear	MR16
929003611008	MASTER LED 4.9-50W 3000K MR16 36D	Clear	MR16
929003611108	MASTER LED 4.9-50W 4000K MR16 36D	Clear	MR16

Approval and Application

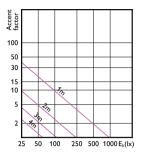
			Energy
		Ambient temperature	Consumption
Order Code	Full Product Name	range	kWh/1000 h
929001146108	MASTER LED 5.5-50W	-	-
	2700K MR16 36D		
929001146908	MASTER LED 5.5-50W	-	-
	4000K MR16 36D		
929003087002	MAS LEDspotLV 3.5-20W	-	4 kWh
	827 MR11 24D		
929003610208	MASTER LED 3.9-35W	-20 to +45 °C	-
	2700K MR16 24D		
929003610308	MASTER LED 3.9-35W	-20 to +45 °C	-
	3000K MR16 24D		
929003610408	MASTER LED 3.9-35W	-20 to +45 °C	-
	2700K MR16 36D		
929003610508	MASTER LED 3.9-35W	-20 to +45 °C	-
	3000K MR16 36D		
929003610608	MASTER LED 4.9-50W	-20 to +45 °C	-
	2700K MR16 24D		
929003610708	MASTER LED 4.9-50W	20 to +45 °C	-
	3000K MR16 24D		
929003610808	MASTER LED 4.9-50W	-20 to +45 °C	-
	4000K MR16 24D		
929003610908	MASTER LED 4.9-50W	-20 to +45 °C	-
	2700K MR16 36D		
929003611008	MASTER LED 4.9-50W	-20 to +45 °C	-
	3000K MR16 36D		
929003611108	MASTER LED 4.9-50W	-20 to +45 °C	-
	4000K MR16 36D		







Accent Diagrams

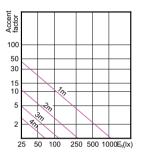


Accent factor 100 50 30 15 10 ふ 5 250 500 1000 E_h(lx) 25 50 100

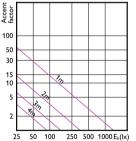
MR16 24D

25 50 100

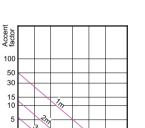
Accent Diagram - MASTER LED 4.9-50W 2700K MR16 36D

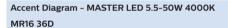


Accent Diagram - MASTER LED 5.5-50W 2700K MR16 36D



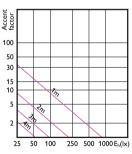
Accent Diagram - MASTER LED 3.9-35W 3000K MR16 24D



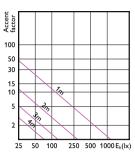


250 500 1000E_b(Ix)

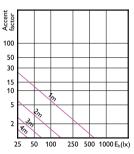
Accent Diagram - MASTER LED 4.9-50W 2700K



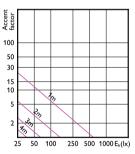
Accent Diagram - MASTER LED 3.9-35W 3000K MR16 36D



Accent Diagram - MASTER LED 4.9-50W 3000K MR16 36D

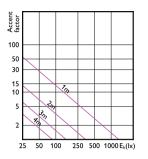


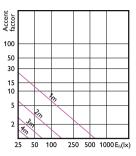
Accent Diagram - MASTER LED 3.9-35W 2700K MR16 24D



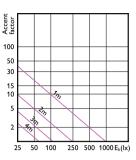
Accent Diagram - MASTER LED 3.9-35W 2700K MR16 36D

Accent Diagrams



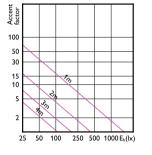


Accent Diagram - MAS LEDspotLV 3.5-20W 827 MR11 24D



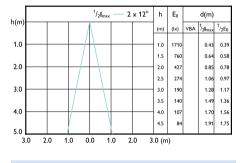
Accent Diagram - MASTER LED 4.9-50W 4000K MR16 36D



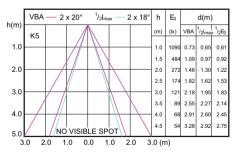


Accent Diagram - MASTER LED 4.9-50W 3000K MR16 24D

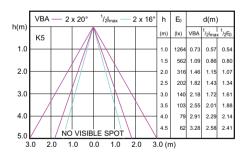
Beam Diagrams



Beam diagram - MASTER LED 4.9-50W 3000K MR16 24D

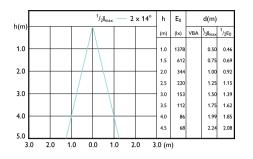


Beam diagram - MASTER LED 5.5-50W 2700K MR16 36D

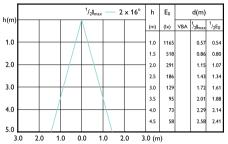


Beam diagram - MASTER LED 5.5-50W 4000K MR16 36D

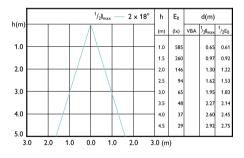
Beam Diagrams



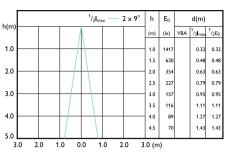
Beam diagram - MASTER LED 4.9-50W 4000K MR16 24D



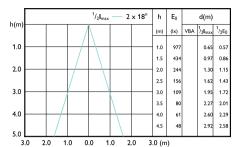
Beam diagram - MASTER LED 4.9-50W 3000K MR16 36D



Beam diagram - MASTER LED 3.9-35W 2700K MR16 36D



MR16 24D



Beam diagram - MASTER LED 3.9-35W 3000K

Beam diagram - MASTER LED 4.9-50W 4000K MR16 36D

> h E_0

(m)

1.0

1.5 426

2.0 240

2.5 153

3.0 107

3.5 78

4.0 60

4.5

3.0 (m)

(lx) VBA

959

d(m)

2Imax

0.65 0.5

0.97

1.30 1.15

1.62 1.43

1.95

2.27 2.01

2.60 2.29

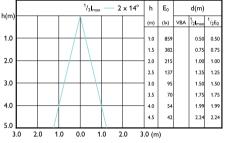
2.92

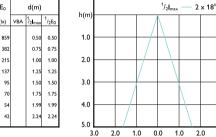
/2E0

0.8

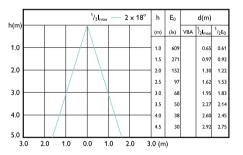
1.7

2.58



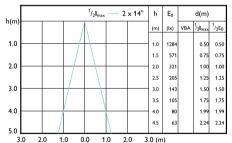


Beam diagram - MASTER LED 3.9-35W 3000K MR16 36D

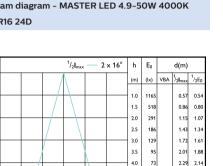


Beam diagram - MASTER LED 3.9-35W 2700K MR16 24D

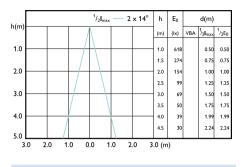
Beam diagram - MASTER LED 4.9-50W 2700K MR16 36D



Beam diagram - MASTER LED 4.9-50W 2700K MR16 24D



Beam Diagrams



Beam diagram - MAS LEDspotLV 3.5-20W 827 MR11 24D



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