



# Strong performance spot light for retrofit MR16 halogen spots

## MASTER LEDspot LV

Delivering intense accent beam, MASTER LEDspot LV is an ideal retrofit solution for spot lighting. MASTER LEDspot LV is designed to replace halogen or incandescent spots. It realizes natural colors, enables cozy and comfortable ambience for residential, hospitality and emphasizes the beauty of merchandise in retail. New smaller housing provides perfect fitting with majority of luminaires in a market with a MR16 GU 5.3 holder. It not only employs Philips' patented solution to guarantee the broadest possible compatibility with standard 12V halogen electronic transformers, it also delivers high beam intensity which is equivalent to halogen MR16 spots. The dimming function enables to create the desired atmosphere and it works with broad selection of dimmers. Its high SDCM ensure stricter color consistency, that is maintained over product life. MASTER LEDspot LV delivers huge energy savings and minimizes maintenance cost without any compromise on light quality and lifetime, enabling residential and business owners to achieve a return on their investment within short period time.

### Benefits

- High intensity of beam for accent lighting in professional applications
- Strong brightness maintained over time
- More natural colors realised for cozy ambience for hospitality and better merchandise display in retail application

# MASTER LEDspot LV

## Features

- High intensity of beam equivalent to halogen spots
- Better color realisation with high CRI value, and strong color consistency over time
- Clearly defined beam spread for accent lighting
- Compatible with an extensive range of transformers and smooth dimming for dimmable products
- High lumen maintenance with long lifetime up to 40,000 hours

## Application

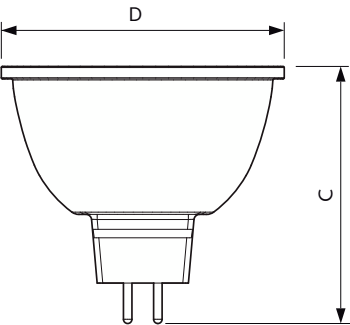
- Home: Living room, bed room, hall way
- Hospitality: Hotel guest room, corridors, lobby, reception area, restaurant, bars, cafes
- Retail: Exhibitions, display cabinets, shops, dressing room, check out area

## Versions



50W GU5-3 MR16

## Dimensional drawing



Product	D	C
MAS LEDspotLV D 7.5-50W 927 MR16 24D	50 mm	45.5 mm
MAS LEDspotLV D 7.5-50W 927 MR16 36D	50 mm	45.5 mm
MAS LEDspotLV D 7.5-50W 930 MR16 24D	50 mm	45.5 mm
MAS LEDspotLV D 7.5-50W 930 MR16 36D	50 mm	45.5 mm
MAS LEDspotLV D 7.5-50W 940 MR16 36D	50 mm	45.5 mm
MASTER LED 6.5-50W 927 MR16 10D Dim	50 mm	46.5 mm
MASTER LED 6.5-50W 927 MR16 24D Dim	50 mm	
MASTER LED 6.5-50W 927 MR16 36D Dim	50 mm	
MASTER LED 6.5-50W 927 MR16 60D Dim	50 mm	46.5 mm
MASTER LED 6.5-50W 930 MR16 10D Dim	50 mm	46.5 mm
MASTER LED 6.5-50W 930 MR16 24D Dim	50 mm	46.5 mm
MASTER LED 6.5-50W 930 MR16 24D ND	50.5 mm	46.5 mm
MASTER LED 6.5-50W 930 MR16 36D Dim	50 mm	46.5 mm
MASTER LED 6.5-50W 930 MR16 36D ND	50.5 mm	46.5 mm
MASTER LED 6.5-50W 930 MR16 60D Dim	50 mm	46.5 mm
MASTER LED 6.5-50W 940 MR16 24D Dim	50 mm	46.5 mm
MASTER LED 6.5-50W 940 MR16 36D Dim	50 mm	46.5 mm
MASTER LED 6.5-50W 940 MR16 60D Dim	50 mm	46.5 mm
MASTER LED 7.5-50W+ 827 MR16 36D Dim	50 mm	46.5 mm

# MASTER LEDspot LV

General Information	
Cap-Base	GU5.3
Switching Cycle	50,000
Nominal lifetime	40,000 hour(s)
Light Technical	
LLMF At End Of Nominal Lifetime (Nom)	70 %
Operating and Electrical	
Input Frequency	- Hz
Line Frequency	- Hz
Starting Time (Nom)	0.5 s
Wattage Equivalent	50 W
Mechanical and Housing	
Bulb Shape	MR16

## Light Technical (1/2)

Order Code	Full Product Name	Beam Angle (Nom)	Correlated Color Temperature (Nom)	Color rendering index (CRI)	Color Code
929001882008	MASTER LED 6.5-50W 930 MR16 24D ND	24 degree(s)	3000 K	90	930
929002491902	MAS LEDspotLV D 7.5-50W 927 MR16 24D	24 degree(s)	2700 K	90	927
929002492002	MAS LEDspotLV D 7.5-50W 930 MR16 24D	24 degree(s)	3000 K	90	930
929002492202	MAS LEDspotLV D 7.5-50W 927 MR16 36D	36 degree(s)	2700 K	90	927
929002492302	MAS LEDspotLV D 7.5-50W 930 MR16 36D	36 degree(s)	3000 K	90	930
929002492402	MAS LEDspotLV D 7.5-50W 940 MR16 36D	36 degree(s)	4000 K	90	940
929003071908	MASTER LED 6.5-50W 927 MR16 24D Dim	24 degree(s)	2700 K	90	927
929003072008	MASTER LED 6.5-50W 930 MR16 24D Dim	24 degree(s)	3000 K	90	930
929003072108	MASTER LED 6.5-50W 940 MR16 24D Dim	24 degree(s)	4000 K	90	940
929003072208	MASTER LED 6.5-50W 927 MR16 36D Dim	36 degree(s)	2700 K	90	927
929003072308	MASTER LED 6.5-50W 930 MR16 36D Dim	36 degree(s)	3000 K	90	930
929003072408	MASTER LED 6.5-50W 940 MR16 36D Dim	36 degree(s)	4000 K	90	940
929003072708	MASTER LED 7.5-50W+ 827 MR16 36D Dim	36 degree(s)	2700 K	80	827
929003071608	MASTER LED 6.5-50W 927 MR16 10D Dim	10 degree(s)	2700 K	90	927
929003071708	MASTER LED 6.5-50W 930 MR16 10D Dim	10 degree(s)	3000 K	90	930
929001882308	MASTER LED 6.5-50W 930 MR16 36D ND	36 degree(s)	3000 K	90	930
929003075908	MASTER LED 6.5-50W 927 MR16 60D Dim	60 degree(s)	2700 K	90	927
929003076008	MASTER LED 6.5-50W 930 MR16 60D Dim	60 degree(s)	3000 K	90	930
929003076108	MASTER LED 6.5-50W 940 MR16 60D Dim	60 degree(s)	4000 K	90	940

## Light Technical (2/2)

Order Code	Full Product Name	Luminous Flux	Luminous Intensity (Nom)	Order Code	Full Product Name	Luminous Flux	Luminous Intensity (Nom)
929001882008	MASTER LED 6.5-50W 930 MR16 24D ND	470 lm	2,300 cd	929002492002	MAS LEDspotLV D 7.5-50W 930 MR16 24D	621 lm	4,000 cd
929002491902	MAS LEDspotLV D 7.5-50W 927 MR16 24D	621 lm	3,900 cd	929002492202	MAS LEDspotLV D 7.5-50W 927 MR16 36D	621 lm	1,850 cd

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Order Code	Full Product Name	Luminous	
		Luminous Flux	Intensity (Nom)
929002492302	MAS LEDspotLV D 7.5-50W 930 MR16 36D	621 lm	2,000 cd
929002492402	MAS LEDspotLV D 7.5-50W 940 MR16 36D	670 lm	2,200 cd
929003071908	MASTER LED 6.5-50W 927 MR16 24D Dim	500 lm	2,800 cd
929003072008	MASTER LED 6.5-50W 930 MR16 24D Dim	500 lm	2,800 cd
929003072108	MASTER LED 6.5-50W 940 MR16 24D Dim	530 lm	3,400 cd
929003072208	MASTER LED 6.5-50W 927 MR16 36D Dim	500 lm	1,400 cd
929003072308	MASTER LED 6.5-50W 930 MR16 36D Dim	500 lm	1,600 cd
929003072408	MASTER LED 6.5-50W 940 MR16 36D Dim	530 lm	1,600 cd

Operating and Electrical

Order Code	Full Product Name	Power Consumption
929001882008	MASTER LED 6.5-50W 930 MR16 24D ND	6.5 W
929002491902	MAS LEDspotLV D 7.5-50W 927 MR16 24D	7.5 W
929002492002	MAS LEDspotLV D 7.5-50W 930 MR16 24D	7.5 W
929002492202	MAS LEDspotLV D 7.5-50W 927 MR16 36D	7.5 W
929002492302	MAS LEDspotLV D 7.5-50W 930 MR16 36D	7.5 W
929002492402	MAS LEDspotLV D 7.5-50W 940 MR16 36D	7.5 W
929003071908	MASTER LED 6.5-50W 927 MR16 24D Dim	6.5 W
929003072008	MASTER LED 6.5-50W 930 MR16 24D Dim	6.5 W
929003072108	MASTER LED 6.5-50W 940 MR16 24D Dim	6.5 W
929003072208	MASTER LED 6.5-50W 927 MR16 36D Dim	6.5 W

Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
929001882008	MASTER LED 6.5-50W 930 MR16 24D ND	90 °C
929002491902	MAS LEDspotLV D 7.5-50W 927 MR16 24D	90 °C
929002492002	MAS LEDspotLV D 7.5-50W 930 MR16 24D	90 °C
929002492202	MAS LEDspotLV D 7.5-50W 927 MR16 36D	90 °C
929002492302	MAS LEDspotLV D 7.5-50W 930 MR16 36D	90 °C
929002492402	MAS LEDspotLV D 7.5-50W 940 MR16 36D	90 °C
929003071908	MASTER LED 6.5-50W 927 MR16 24D Dim	90 °C
929003072008	MASTER LED 6.5-50W 930 MR16 24D Dim	90 °C
929003072108	MASTER LED 6.5-50W 940 MR16 24D Dim	90 °C
929003072208	MASTER LED 6.5-50W 927 MR16 36D Dim	90 °C

Controls and Dimming

Order Code	Full Product Name	Dimmable
929001882008	MASTER LED 6.5-50W 930 MR16 24D ND	No
929002491902	MAS LEDspotLV D 7.5-50W 927 MR16 24D	Only with specific dimmers

Order Code	Full Product Name	Luminous	
		Luminous Flux	Intensity (Nom)
929003072708	MASTER LED 7.5-50W+ 827 MR16 36D Dim	660 lm	1,700 cd
929003071608	MASTER LED 6.5-50W 927 MR16 10D Dim	500 lm	5,300 cd
929003071708	MASTER LED 6.5-50W 930 MR16 10D Dim	500 lm	5,300 cd
929001882308	MASTER LED 6.5-50W 930 MR16 36D ND	470 lm	1,400 cd
929003075908	MASTER LED 6.5-50W 927 MR16 60D Dim	500 lm	500 cd
929003076008	MASTER LED 6.5-50W 930 MR16 60D Dim	500 lm	500 cd
929003076108	MASTER LED 6.5-50W 940 MR16 60D Dim	530 lm	550 cd

Order Code	Full Product Name	Power Consumption
929003072308	MASTER LED 6.5-50W 930 MR16 36D Dim	6.5 W
929003072408	MASTER LED 6.5-50W 940 MR16 36D Dim	6.5 W
929003072708	MASTER LED 7.5-50W+ 827 MR16 36D Dim	7.5 W
929003071608	MASTER LED 6.5-50W 927 MR16 10D Dim	6.5 W
929003071708	MASTER LED 6.5-50W 930 MR16 10D Dim	6.5 W
929001882308	MASTER LED 6.5-50W 930 MR16 36D ND	6.5 W
929003075908	MASTER LED 6.5-50W 927 MR16 60D Dim	6.5 W
929003076008	MASTER LED 6.5-50W 930 MR16 60D Dim	6.5 W
929003076108	MASTER LED 6.5-50W 940 MR16 60D Dim	6.5 W

Order Code	Full Product Name	T-Case Maximum (Nom)
929003072308	MASTER LED 6.5-50W 930 MR16 36D Dim	90 °C
929003072408	MASTER LED 6.5-50W 940 MR16 36D Dim	90 °C
929003072708	MASTER LED 7.5-50W+ 827 MR16 36D Dim	93 °C
929003071608	MASTER LED 6.5-50W 927 MR16 10D Dim	90 °C
929003071708	MASTER LED 6.5-50W 930 MR16 10D Dim	90 °C
929001882308	MASTER LED 6.5-50W 930 MR16 36D ND	90 °C
929003075908	MASTER LED 6.5-50W 927 MR16 60D Dim	90 °C
929003076008	MASTER LED 6.5-50W 930 MR16 60D Dim	90 °C
929003076108	MASTER LED 6.5-50W 940 MR16 60D Dim	90 °C

Order Code	Full Product Name	Dimmable
929002492002	MAS LEDspotLV D 7.5-50W 930 MR16 24D	Only with specific dimmers
929002492202	MAS LEDspotLV D 7.5-50W 927 MR16 36D	Only with specific dimmers

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Order Code	Full Product Name	Dimmable
929002492302	MAS LEDspotLV D 7.5-50W 930 MR16 36D	Only with specific dimmers
929002492402	MAS LEDspotLV D 7.5-50W 940 MR16 36D	Only with specific dimmers
929003071908	MASTER LED 6.5-50W 927 MR16 24D Dim	Only with specific dimmers
929003072008	MASTER LED 6.5-50W 930 MR16 24D Dim	Only with specific dimmers
929003072108	MASTER LED 6.5-50W 940 MR16 24D Dim	Only with specific dimmers
929003072208	MASTER LED 6.5-50W 927 MR16 36D Dim	Only with specific dimmers
929003072308	MASTER LED 6.5-50W 930 MR16 36D Dim	Only with specific dimmers
929003072408	MASTER LED 6.5-50W 940 MR16 36D Dim	Only with specific dimmers

Mechanical and Housing

Order Code	Full Product Name	Bulb Finish
929001882008	MASTER LED 6.5-50W 930 MR16 24D ND	Clear
929002491902	MAS LEDspotLV D 7.5-50W 927 MR16 24D	-
929002492002	MAS LEDspotLV D 7.5-50W 930 MR16 24D	-
929002492202	MAS LEDspotLV D 7.5-50W 927 MR16 36D	-
929002492302	MAS LEDspotLV D 7.5-50W 930 MR16 36D	-
929002492402	MAS LEDspotLV D 7.5-50W 940 MR16 36D	-
929003071908	MASTER LED 6.5-50W 927 MR16 24D Dim	-
929003072008	MASTER LED 6.5-50W 930 MR16 24D Dim	-
929003072108	MASTER LED 6.5-50W 940 MR16 24D Dim	-
929003072208	MASTER LED 6.5-50W 927 MR16 36D Dim	-

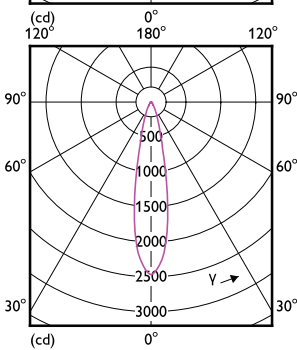
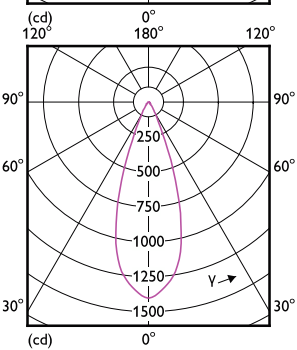
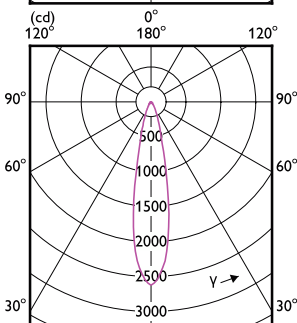
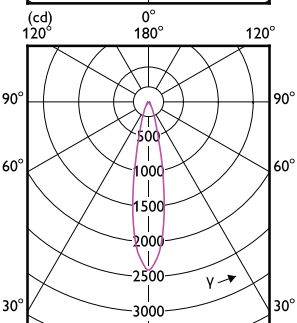
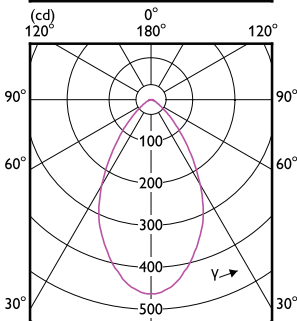
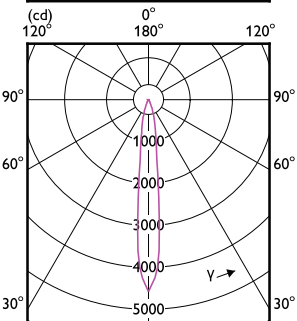
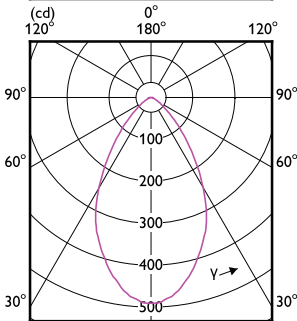
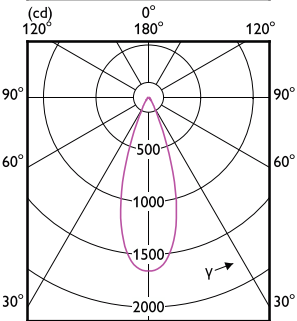
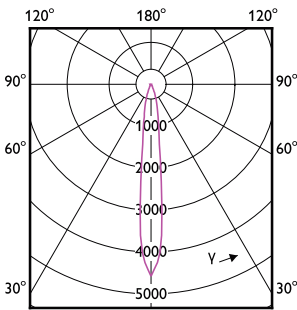
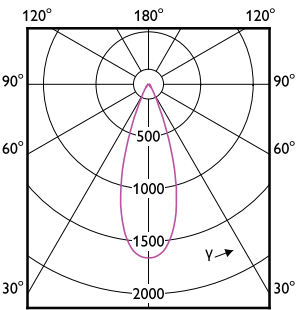
Approval and Application

Order Code	Full Product Name	Ambient temperature range	Energy Consumption kWh/1000 h
929001882008	MASTER LED 6.5-50W 930 MR16 24D ND	-20 °C to 45 °C	-
929002491902	MAS LEDspotLV D 7.5-50W 927 MR16 24D	-	8 kWh
929002492002	MAS LEDspotLV D 7.5-50W 930 MR16 24D	-	8 kWh
929002492202	MAS LEDspotLV D 7.5-50W 927 MR16 36D	-	8 kWh
929002492302	MAS LEDspotLV D 7.5-50W 930 MR16 36D	-	8 kWh
929002492402	MAS LEDspotLV D 7.5-50W 940 MR16 36D	-	8 kWh
929003071908	MASTER LED 6.5-50W 927 MR16 24D Dim	-	-
929003072008	MASTER LED 6.5-50W 930 MR16 24D Dim	-	-
929003072108	MASTER LED 6.5-50W 940 MR16 24D Dim	-	-
929003072208	MASTER LED 6.5-50W 927 MR16 36D Dim	-	-

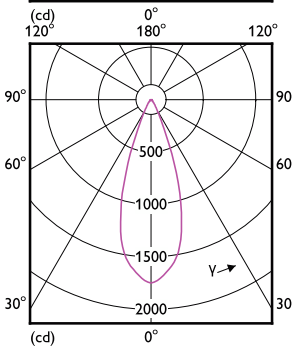
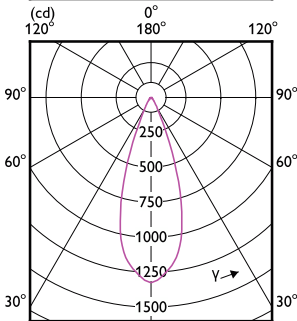
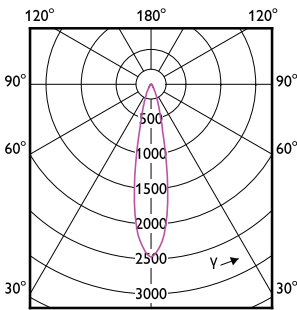
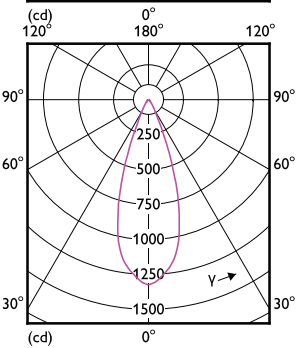
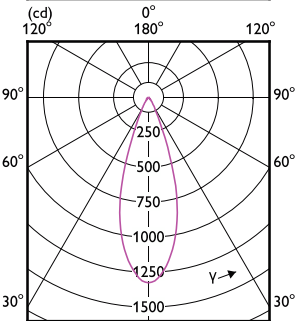
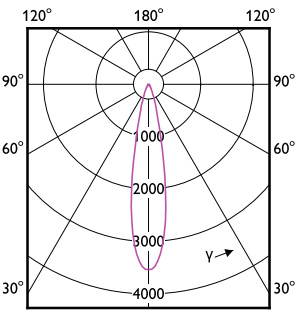
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929003072708	MASTER LED 7.5-50W+ 827 MR16 36D Dim	Only with specific dimmers
929003071608	MASTER LED 6.5-50W 927 MR16 10D Dim	Only with specific dimmers
929003071708	MASTER LED 6.5-50W 930 MR16 10D Dim	Only with specific dimmers
929001882308	MASTER LED 6.5-50W 930 MR16 36D ND	No
929003075908	MASTER LED 6.5-50W 927 MR16 60D Dim	Only with specific dimmers
929003076008	MASTER LED 6.5-50W 930 MR16 60D Dim	Only with specific dimmers
929003076108	MASTER LED 6.5-50W 940 MR16 60D Dim	Only with specific dimmers

Order Code	Full Product Name	Bulb Finish
929003072308	MASTER LED 6.5-50W 930 MR16 36D Dim	-
929003072408	MASTER LED 6.5-50W 940 MR16 36D Dim	-
929003072708	MASTER LED 7.5-50W+ 827 MR16 36D Dim	-
929003071608	MASTER LED 6.5-50W 927 MR16 10D Dim	-
929003071708	MASTER LED 6.5-50W 930 MR16 10D Dim	-
929001882308	MASTER LED 6.5-50W 930 MR16 36D ND	Clear
929003075908	MASTER LED 6.5-50W 927 MR16 60D Dim	-
929003076008	MASTER LED 6.5-50W 930 MR16 60D Dim	-
929003076108	MASTER LED 6.5-50W 940 MR16 60D Dim	-

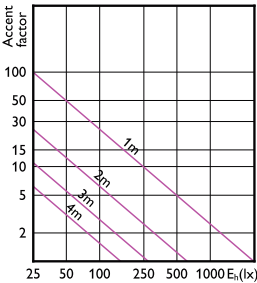
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929003072308	MASTER LED 6.5-50W 930 MR16 36D Dim	-	-
929003072408	MASTER LED 6.5-50W 940 MR16 36D Dim	-	-
929003072708	MASTER LED 7.5-50W+ 827 MR16 36D Dim	-	-
929003071608	MASTER LED 6.5-50W 927 MR16 10D Dim	-	-
929003071708	MASTER LED 6.5-50W 930 MR16 10D Dim	-	-
929001882308	MASTER LED 6.5-50W 930 MR16 36D ND	-20 °C to 45 °C	-
929003075908	MASTER LED 6.5-50W 927 MR16 60D Dim	-	-
929003076008	MASTER LED 6.5-50W 930 MR16 60D Dim	-	-
929003076108	MASTER LED 6.5-50W 940 MR16 60D Dim	-	-



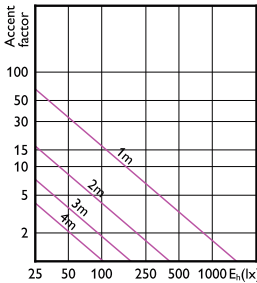
MASTER LEDspot LV



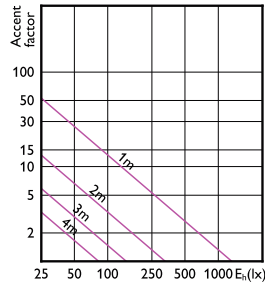
Accent Diagrams



Accent Diagram - MASTER LED 6.5-50W 930 MR16 24D Dim

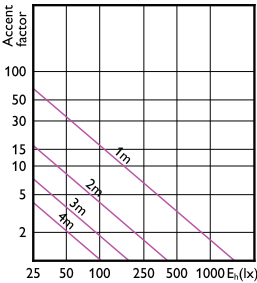


Accent Diagram - MAS LEDspotLV D 7.5-50W 940 MR16 36D

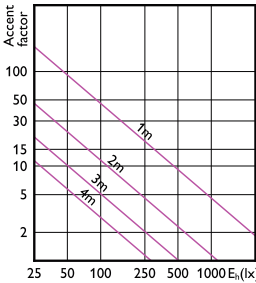


Accent Diagram - MASTER LED 6.5-50W 930 MR16 36D Dim

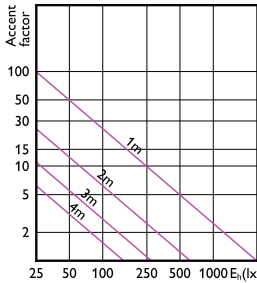
Accent Diagrams



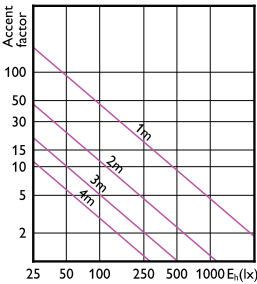
Accent Diagram - MAS LEDspotLV D 7.5-50W 927 MR16 36D



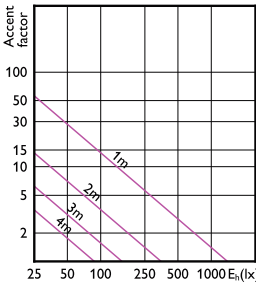
Accent Diagram - MASTER LED 6.5-50W 930 MR16 10D Dim



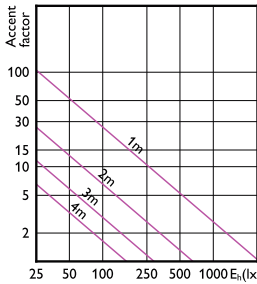
Accent Diagram - MASTER LED 6.5-50W 927 MR16 24D Dim



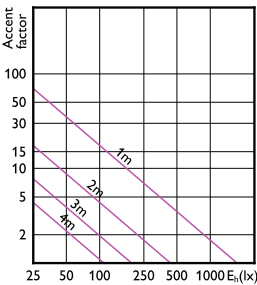
Accent Diagram - MASTER LED 6.5-50W 927 MR16 10D Dim



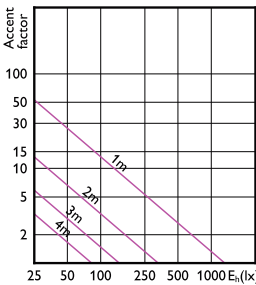
Accent Diagram - MASTER LED 6.5-50W 940 MR16 36D Dim



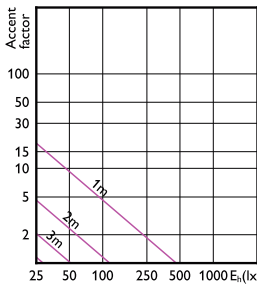
Accent Diagram - MASTER LED 6.5-50W 940 MR16 24D Dim



Accent Diagram - MASTER LED 7.5-50W+ 827 MR16 36D Dim



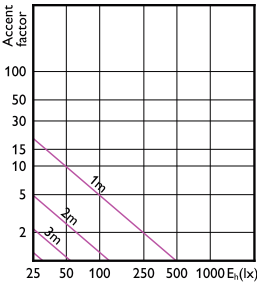
Accent Diagram - MASTER LED 6.5-50W 927 MR16 36D Dim



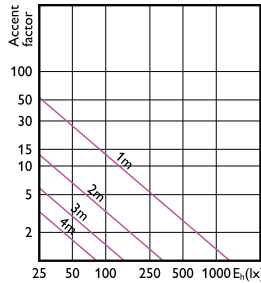
Accent Diagram - MASTER LED 6.5-50W 927 MR16 60D Dim



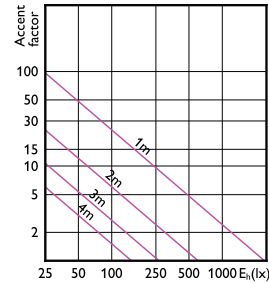
Accent Diagrams



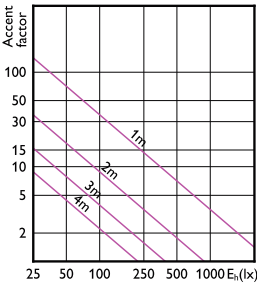
Accent Diagram - MASTER LED 6.5-50W 940  
MR16 60D Dim



Accent Diagram - MASTER LED 6.5-50W 930  
MR16 36D ND

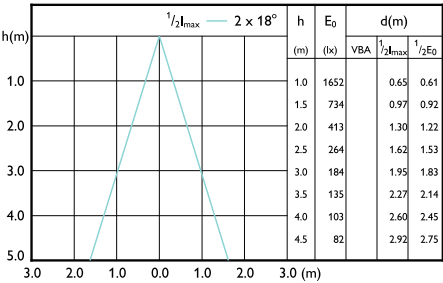


Accent Diagram - MASTER LED 6.5-50W 930  
MR16 24D ND

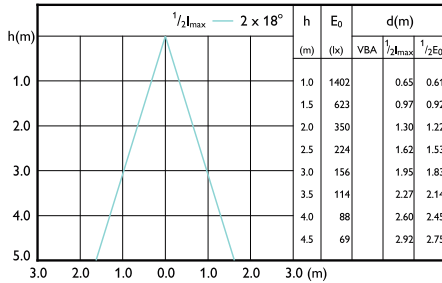


Accent Diagram - MAS LEDspotLV D 7.5-50W  
927 MR16 24D

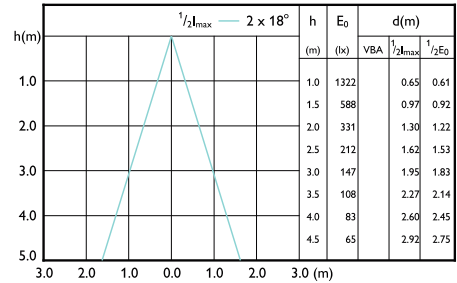
Beam Diagrams



Beam diagram - MAS LEDspotLV D 7.5-50W  
940 MR16 36D

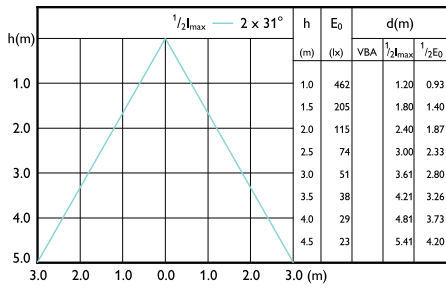


Beam diagram - MASTER LED 6.5-50W 940  
MR16 36D Dim

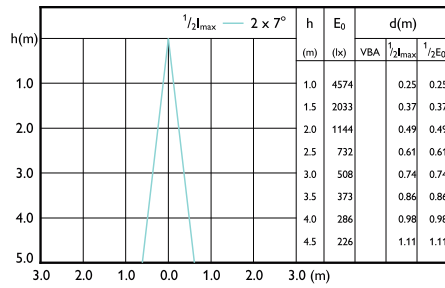


Beam diagram - MASTER LED 6.5-50W 930  
MR16 36D Dim

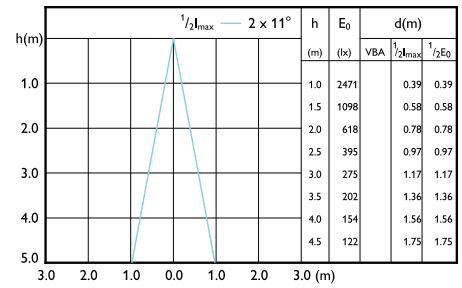
## Beam Diagrams



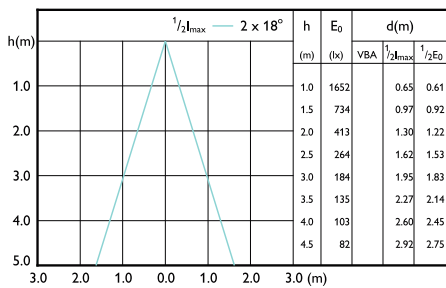
Beam diagram - MASTER LED 6.5-50W 927  
MR16 60D Dim



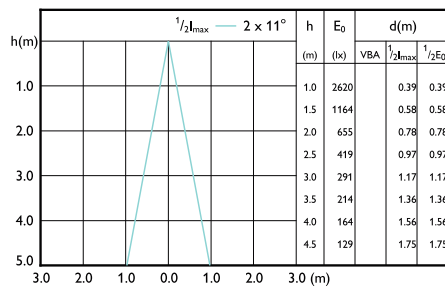
Beam diagram - MASTER LED 6.5-50W 927  
MR16 10D Dim



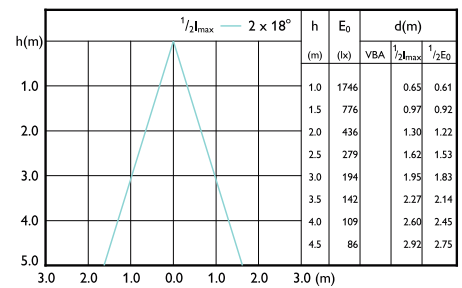
Beam diagram - MASTER LED 6.5-50W 927  
MR16 24D Dim



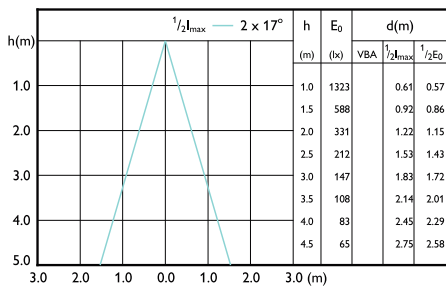
Beam diagram - MAS LEDspotLV D 7.5-50W  
927 MR16 36D



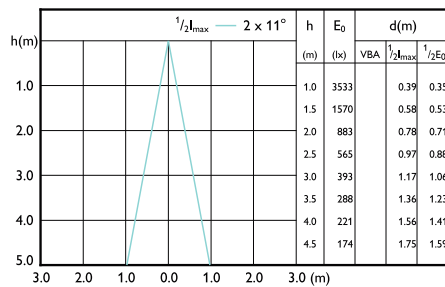
Beam diagram - MASTER LED 6.5-50W 940  
MR16 24D Dim



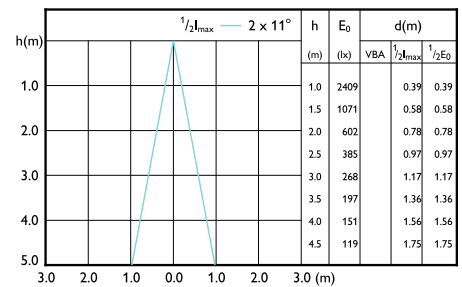
Beam diagram - MASTER LED 7.5-50W+ 827  
MR16 36D Dim



Beam diagram - MASTER LED 6.5-50W 930  
MR16 36D ND

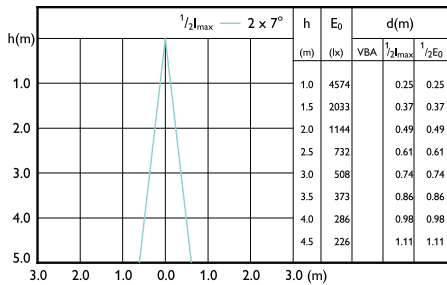


Beam diagram - MAS LEDspotLV D 7.5-50W  
927 MR16 24D

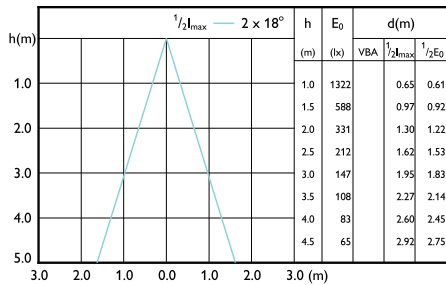


Beam diagram - MASTER LED 6.5-50W 930  
MR16 24D ND

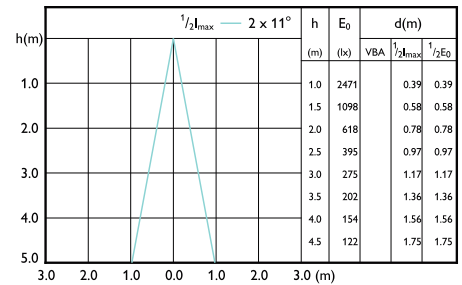
## Beam Diagrams



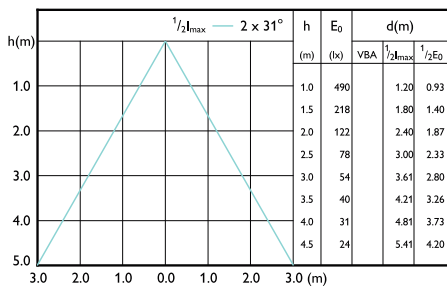
Beam diagram - MASTER LED 6.5-50W 930  
MR16 10D Dim



Beam diagram - MASTER LED 6.5-50W 927  
MR16 36D Dim



Beam diagram - MASTER LED 6.5-50W 930  
MR16 24D Dim



Beam diagram - MASTER LED 6.5-50W 940  
MR16 60D Dim

