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

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

Features

- Dimmable (6.5-35W versions)
- Innovative AirFlux technology for passive cooling, depending upon model
- Warm and cool white light
- Lifetime:
- 40,000 hours MASTER LED
- 25,000 hours MASTER LED VALUE
- TransforMax technology to ensure compatibility with existing transformers (depending upon model)

MASTER VALUE LEDspot LV

Application

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

Warnings and Safety

- 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)
- Not intended for use with emergency light fixtures or exit lights

Versions





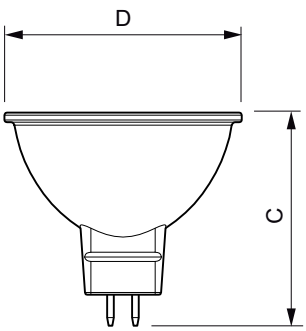




Dimensional drawing



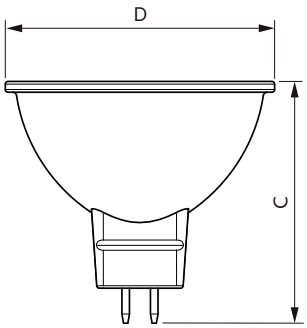
Product	D	C
MAS LEDspotLV 3.5-20W 827 MR11 24D	35 mm	40 mm



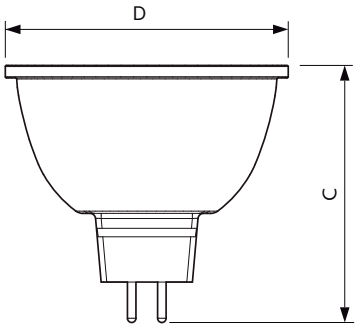
Product	D	C
MAS LED spot VLE D 5.5-35W MR16 830 36D	50.5 mm	45 mm
MAS LED spot VLE D 5.5-35W MR16 840 36D	50.5 mm	45 mm
MAS LED spot VLE D 5.5-35W MR16 827 36D	50.5 mm	45 mm

MASTER VALUE LEDspot LV

Dimensional drawing



Product	D	C
MAS LEDspotLV DimTone 7-50W MR16 36D	50.5 mm	45.5 mm



Product	D	C
MAS LED SPOT VLE D 7-50W MR16 827 36D	50.5 mm	45 mm
MAS LEDspotLV DimTone 5-35W MR16 36D	50.5 mm	44.5 mm
MAS LED SPOT VLE D 7-50W MR16 840 36D	50.5 mm	45 mm
MAS LED SPOT VLE D 7-50W MR16 830 36D	50.5 mm	45 mm

Approval and Application	
Energy Efficiency Label (EEL)	A+
Operating and Electrical	
Starting Time (Nom)	0.5 s
General Information	
Switching Cycle	50,000X
Light Technical	
Colour Rendering Index (Nom)	80
Llmf At End Of Nominal Lifetime (Nom)	70 %

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/ 1000 h
41019600	MAS LEDspotLV 3.5-20W 827 MR11 24D	4 kWh
70823100	MAS LED spot VLE D 5.5-35W MR16 827 36D	7 kWh
70825500	MAS LED spot VLE D 5.5-35W MR16 830 36D	7 kWh
70827900	MAS LED spot VLE D 5.5-35W MR16 840 36D	7 kWh
81554000	MAS LED SPOT VLE D 7-50W MR16 827 36D	8 kWh

Order Code	Full Product Name	Energy Consumption kWh/ 1000 h
81556400	MAS LED SPOT VLE D 7-50W MR16 830 36D	8 kWh
81558800	MAS LED SPOT VLE D 7-50W MR16 840 36D	8 kWh
81538000	MAS LEDspotLV DimTone 5-35W MR16 36D	6 kWh
65820500	MAS LEDspotLV DimTone 7-50W MR16 36D	8 kWh

Controls and Dimming

MASTER VALUE LEDspot LV

Order Code	Full Product Name	Dimmable
41019600	MAS LEDspotLV 3.5-20W 827 MR11 24D	No
70823100	MAS LED spot VLE D 5.5-35W MR16 827 36D	Yes
70825500	MAS LED spot VLE D 5.5-35W MR16 830 36D	Yes
70827900	MAS LED spot VLE D 5.5-35W MR16 840 36D	Yes
81554000	MAS LED SPOT VLE D 7-50W MR16 827 36D	Yes

Order Code	Full Product Name	Dimmable
81556400	MAS LED SPOT VLE D 7-50W MR16 830 36D	Yes
81558800	MAS LED SPOT VLE D 7-50W MR16 840 36D	Yes
81538000	MAS LEDspotLV DimTone 5-35W MR16 36D	Yes
65820500	MAS LEDspotLV DimTone 7-50W MR16 36D	Yes

Operating and Electrical

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Wattage Equivalent	Power (Rated) (Nom)
41019600	MAS LEDspotLV 3.5-20W 827 MR11 24D	50 to 60 Hz	12 V	20 W	3.5 W
70823100	MAS LED spot VLE D 5.5-35W MR16 827 36D	- Hz	ac Electronic 12 V	35 W	5.5 W
70825500	MAS LED spot VLE D 5.5-35W MR16 830 36D	- Hz	ac Electronic 12 V	35 W	5.5 W
70827900	MAS LED spot VLE D 5.5-35W MR16 840 36D	- Hz	ac Electronic 12 V	35 W	5.5 W
81554000	MAS LED SPOT VLE D 7-50W MR16 827 36D	- Hz	12 V	50 W	7 W

Order Code	Full Product Name	Input Frequency	Voltage (Nom)	Wattage Equivalent	Power (Rated) (Nom)
81556400	MAS LED SPOT VLE D 7-50W MR16 830 36D	- Hz	12 V	50 W	7 W
81558800	MAS LED SPOT VLE D 7-50W MR16 840 36D	- Hz	12 V	50 W	7 W
81538000	MAS LEDspotLV DimTone 5-35W MR16 36D	- Hz	AC Electronic 12 V	35 W	5 W
65820500	MAS LEDspotLV DimTone 7-50W MR16 36D	- Hz	ac electronic 12 V	50 W	7 W

General Information

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)
41019600	MAS LEDspotLV 3.5-20W 827 MR11 24D	GU4	40000 h
70823100	MAS LED spot VLE D 5.5-35W MR16 827 36D	GU5.3	25000 h
70825500	MAS LED spot VLE D 5.5-35W MR16 830 36D	GU5.3	25000 h
70827900	MAS LED spot VLE D 5.5-35W MR16 840 36D	GU5.3	25000 h

Order Code	Full Product Name	Cap-Base	Nominal Lifetime (Nom)
81554000	MAS LED SPOT VLE D 7-50W MR16 827 36D	GU5.3	25000 h
81556400	MAS LED SPOT VLE D 7-50W MR16 830 36D	GU5.3	25000 h
81558800	MAS LED SPOT VLE D 7-50W MR16 840 36D	GU5.3	25000 h
81538000	MAS LEDspotLV DimTone 5-35W MR16 36D	GU5.3	25000 h
65820500	MAS LEDspotLV DimTone 7-50W MR16 36D	GU5.3	25000 h

Light Technical

Order Code	Full Product Name	Beam Angle (Nom)	Colour Code	Correlated Colour Temperature (Nom)	Luminous Flux (Nom)	Luminous Intensity (Nom)
41019600	MAS LEDspotLV 3.5-20W 827 MR11 24D	24 °	827	2700 K	210 lm	1000 cd
70823100	MAS LED spot VLE D 5.5-35W MR16 827 36D	36 °	827	2700 K	450 lm	1000 cd
70825500	MAS LED spot VLE D 5.5-35W MR16 830 36D	36 °	830	3000 K	460 lm	1000 cd
70827900	MAS LED spot VLE D 5.5-35W MR16 840 36D	36 °	840	4000 K	490 lm	1100 cd
81554000	MAS LED SPOT VLE D 7-50W MR16 827 36D	36 °	827	2700 K	621 lm	1500 cd
81556400	MAS LED SPOT VLE D 7-50W MR16 830 36D	36 °	830	3000 K	630 lm	1500 cd
81558800	MAS LED SPOT VLE D 7-50W MR16 840 36D	36 °	840	4000 K	660 lm	1650 cd
81538000	MAS LEDspotLV DimTone 5-35W MR16 36D	36 °	822-827	2700 K	345 lm	600 cd

MASTER VALUE LEDspot LV

Order Code	Full Product Name	Beam Angle (Nom)	Colour Code	Correlated Colour Temperature (Nom)	Luminous Flux (Nom)	Luminous Intensity (Nom)
65820500	MAS LEDspotLV DimTone 7-50W MR16 36D	36 °	822-827	2700 K	621 lm	1000 cd

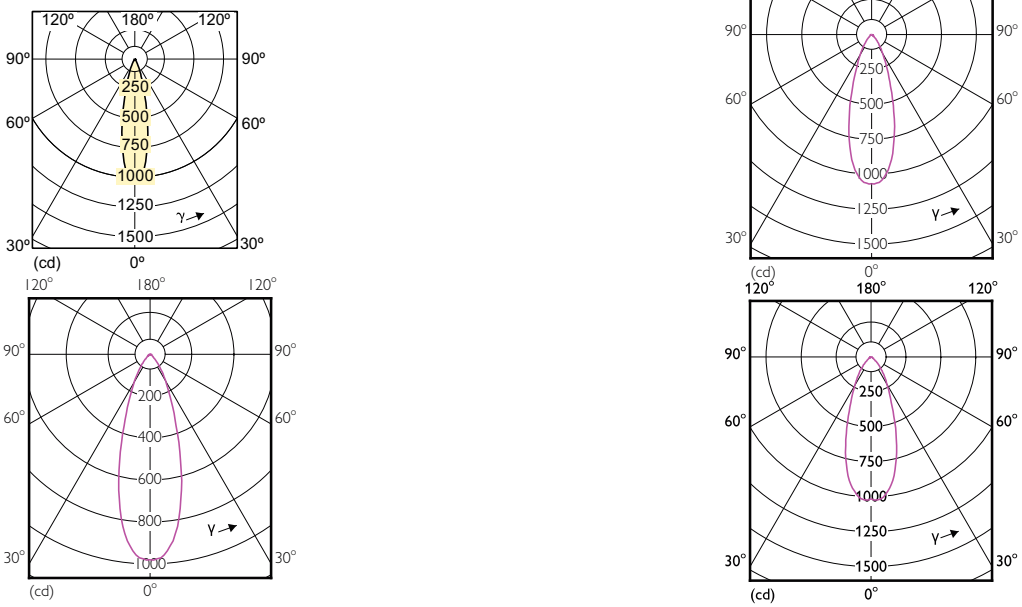
Mechanical and Housing

Order Code	Full Product Name	Bulb Shape
41019600	MAS LEDspotLV 3.5-20W 827 MR11 24D	MR11
70823100	MAS LED spot VLE D 5.5-35W MR16 827 36D	MR16
70825500	MAS LED spot VLE D 5.5-35W MR16 830 36D	MR16
70827900	MAS LED spot VLE D 5.5-35W MR16 840 36D	MR16
81554000	MAS LED SPOT VLE D 7-50W MR16 827 36D	MR16

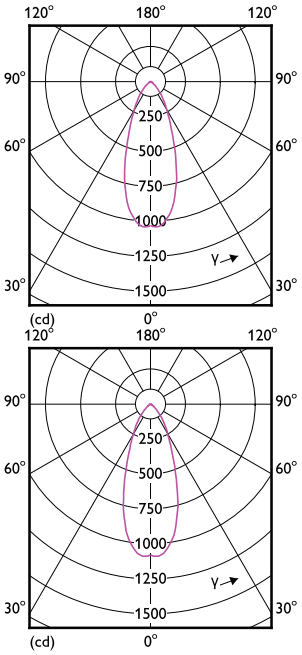
Order Code	Full Product Name	Bulb Shape
81556400	MAS LED SPOT VLE D 7-50W MR16 830 36D	MR16
81558800	MAS LED SPOT VLE D 7-50W MR16 840 36D	MR16
81538000	MAS LEDspotLV DimTone 5-35W MR16 36D	MR16
65820500	MAS LEDspotLV DimTone 7-50W MR16 36D	MR16

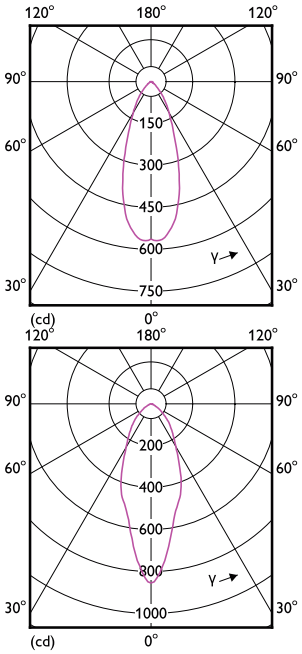
Temperature

Order Code	Full Product Name	T-Case Maximum (Nom)
41019600	MAS LEDspotLV 3.5-20W 827 MR11 24D	94 °C
70823100	MAS LED spot VLE D 5.5-35W MR16 827 36D	95 °C
70825500	MAS LED spot VLE D 5.5-35W MR16 830 36D	95 °C
70827900	MAS LED spot VLE D 5.5-35W MR16 840 36D	95 °C
81554000	MAS LED SPOT VLE D 7-50W MR16 827 36D	85 °C
81556400	MAS LED SPOT VLE D 7-50W MR16 830 36D	85 °C
81558800	MAS LED SPOT VLE D 7-50W MR16 840 36D	85 °C
81538000	MAS LEDspotLV DimTone 5-35W MR16 36D	70 °C
65820500	MAS LEDspotLV DimTone 7-50W MR16 36D	86 °C

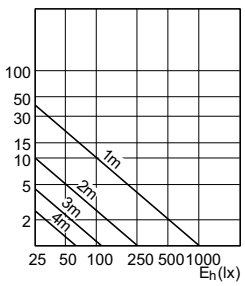


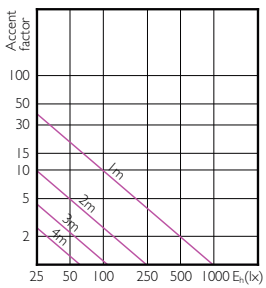
MASTER VALUE LEDspot LV



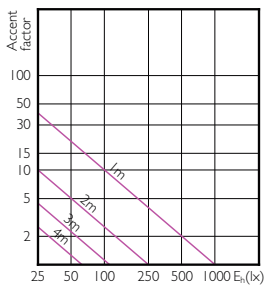


Accent Diagrams

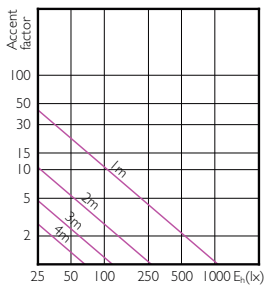




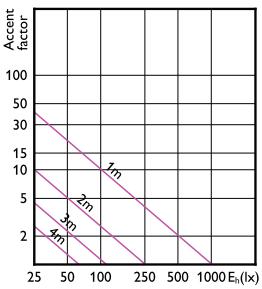
MAS VLE LEDspotLV 35W GU5-3 827 36D MR16



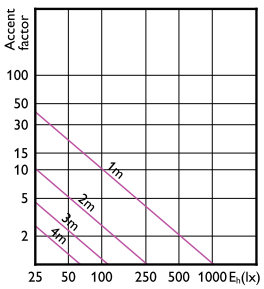
MAS VLE LEDspotLV 35W GU5-3 830 36D MR16



MAS VLE LEDspotLV 35W GU5-3 840 36D MR16



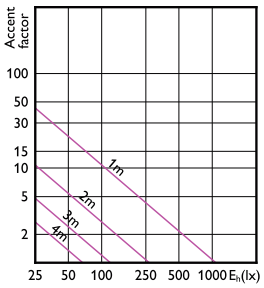
LEDspot MAS VLE 7-50W GU5.3 MR16 827 36D DIM



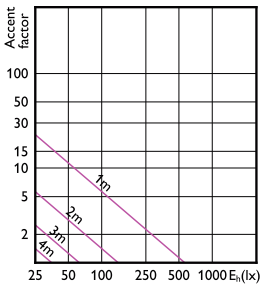
LEDspot MAS VLE 7-50W GU5.3 MR16 830 36D DIM

MASTER VALUE LEDspot LV

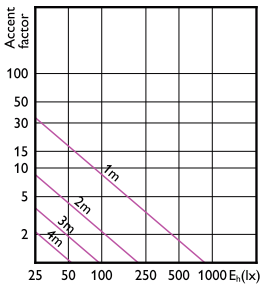
Accent Diagrams



LEDspot MAS VLE 7-50W GU5.3 MR16 840 36D DIM

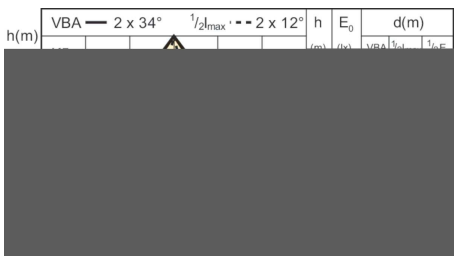


LEDspot MAS 5-35W GU5.3 MR16 822-827 36D DIM

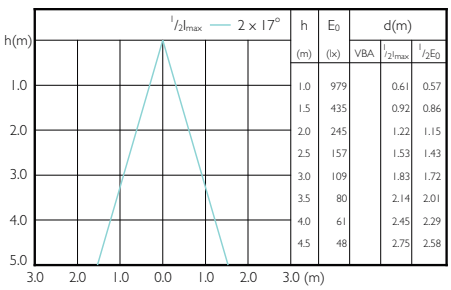


LEDSpot MR16 GU5.3

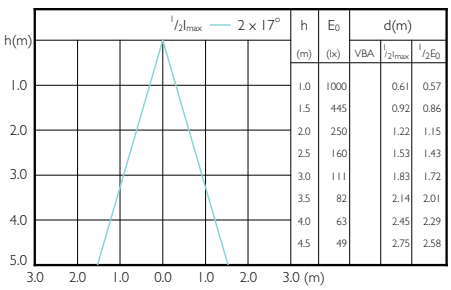
Beam Diagrams



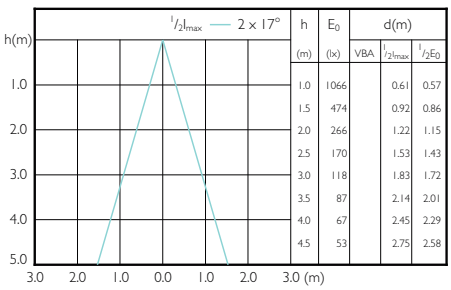
SDBE_LEDspotL_0101-Beam diagram



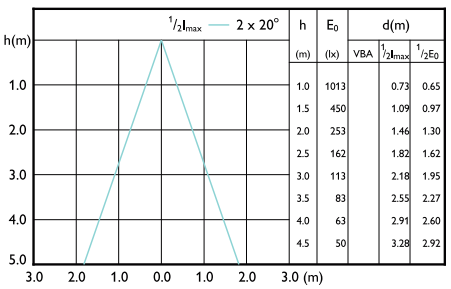
MAS VLE LEDspotLV 35W GU5-3 827 36D MR16



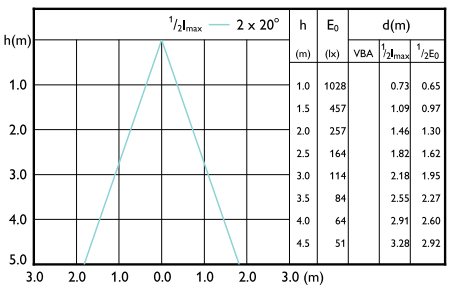
MAS VLE LEDspotLV 35W GU5-3 830 36D MR16



MAS VLE LEDspotLV 35W GU5-3 840 36D MR16



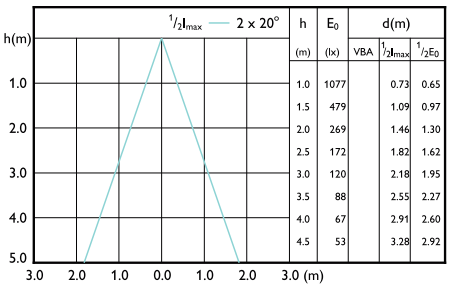
LEDspot MAS VLE 7-50W GU5.3 MR16 827 36D DIM



LEDspot MAS VLE 7-50W GU5.3 MR16 830 36D DIM

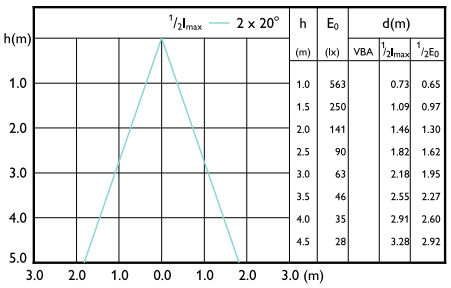
MASTER VALUE LEDspot LV

Beam Diagrams



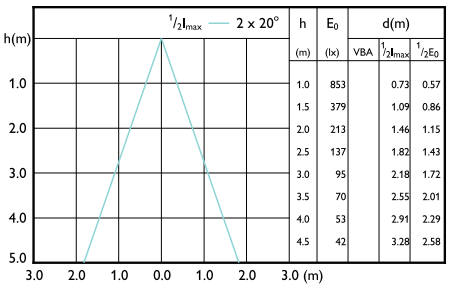
h (m)	E_0 (lx)	d(m) VBA	d(m) ½Imax	d(m) ½E0
1.0	1077		0.73	0.65
1.5	479		1.09	0.97
2.0	269		1.46	1.30
2.5	172		1.82	1.62
3.0	120		2.18	1.95
3.5	88		2.55	2.27
4.0	67		2.91	2.60
4.5	53		3.28	2.92

LEDspot MAS VLE 7-50W GU5.3 MR16 840 36D DIM



h (m)	E_0 (lx)	d(m) VBA	d(m) ½Imax	d(m) ½E0
1.0	563		0.73	0.65
1.5	250		1.09	0.97
2.0	141		1.46	1.30
2.5	90		1.82	1.62
3.0	63		2.18	1.95
3.5	46		2.55	2.27
4.0	35		2.91	2.60
4.5	28		3.28	2.92

LEDspot MAS 5-35W GU5.3 MR16 822-827 36D DIM



h (m)	E_0 (lx)	d(m) VBA	d(m) ½Imax	d(m) ½E0
1.0	853		0.73	0.57
1.5	379		1.09	0.86
2.0	213		1.46	1.15
2.5	137		1.82	1.43
3.0	95		2.18	1.72
3.5	70		2.55	2.01
4.0	53		2.91	2.29
4.5	42		3.28	2.58

LEDSpot MR16 GU5.3

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