PHILIPS

Lighting

For top performance and sustainability

MASTER LEDspot ExpertColor MV

MASTER LEDspot MV ExpertColor creates a warm and comfortable ambience for hospitality venues, homes and restaurants. It creates ambience with superior lighting that has a customised spectrum, high CRI and deep dimming features. The result? A beautiful lighting experience. What's more, the innovative, trimless lens design will also suit almost any interior decor with its clean and neat look. In addition, you can take advantage of the full ExpertColor family, which also includes LEDspot LV lamps.

Benefits

- Create a warm and comfortable ambience with MASTER LED GU10
- A hassle-free retrofit solution for greater energy efficiency and sustainability
- Interior decor, furnishings and fabrics look great

Features

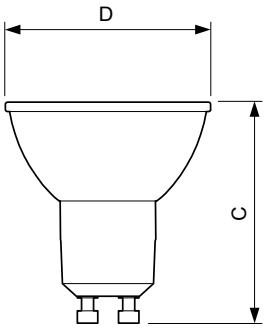
- Customised colour spectrum replicates halogen light colour
- Best-in-class colour realisation CRI97, R9>85
- Retrofittable with main-voltage GU10 halogen lamps
- Deep and smooth dimming with broad transformer compatibility

Application

- Hospitality
- Retail
- Residential

MASTER LEDspot ExpertColor MV

Dimensional drawing



Product	D	C
MAS LED ExpertColor 3.9-35W GU10 927 25D	50 mm	54 mm
MAS LED ExpertColor 3.9-35W GU10 927 36D	50 mm	54 mm
MAS LED ExpertColor 3.9-35W GU10 930 25D	50 mm	54 mm
MAS LED ExpertColor 3.9-35W GU10 930 36D	50 mm	54 mm
MAS LED ExpertColor 3.9-35W GU10 940 25D	50 mm	54 mm
MAS LED ExpertColor 3.9-35W GU10 940 36D	50 mm	54 mm
MAS LED ExpertColor 5.5-50W GU10 927 36D	50 mm	54 mm
MAS LED ExpertColor 5.5-50W GU10 930 25D	50 mm	54 mm
MAS LED ExpertColor 5.5-50W GU10 940 25D	50 mm	54 mm
MAS LED ExpertColor 5.5-50W GU10 940 36D	50 mm	54 mm
MASLED ExpertColor5.5-50W GU10 927 25DUK	50 mm	54 mm
MASLED ExpertColor5.5-50W GU10 927 36DUK	50 mm	54 mm
MASLEDExpertColor 5.5-50W GU10 930 36DUK	50 mm	54 mm

General Information	
Cap base	GU10
Switching Cycle	50,000
Nominal lifetime	40,000 h
Light Technical	
Colour rendering index (CRI)	97
LLMF at end of nominal lifetime (nom.)	70 %
Operating and Electrical	
Input frequency	50 to 60 Hz
Line Frequency	50 to 60 Hz
Starting time (nom.)	0.5 s
Temperature	
T-Case maximum (nom.)	80 °C
Controls and Dimming	
Dimmable	Only with specific dimmers
Mechanical and Housing	
Bulb shape	PAR16

Light Technical (1/2)

Order Code	Full Product Name	Beam angle (nom.)	Correlated Colour Temperature	Colour Code	Luminous Flux
70749400	MASTER LED ExpertColor 3.9-35W GU10 927 25D	25 degree(s)	2700 K	927	265 lm
70751700	MASTER LED ExpertColor 3.9-35W GU10 930 25D	25 degree(s)	3000 K	930	280 lm
70753100	MASTER LED ExpertColor 3.9-35W GU10 940 25D	25 degree(s)	4000 K	940	300 lm
70755500	MASTER LED ExpertColor 3.9-35W GU10 927 36D	36 degree(s)	2700 K	927	265 lm
70757900	MASTER LED ExpertColor 3.9-35W GU10 930 36D	36 degree(s)	3000 K	930	280 lm
70759300	MASTER LED ExpertColor 3.9-35W GU10 940 36D	36 degree(s)	4000 K	940	300 lm
70761601	MASLED ExpertColor5.5-50W GU10 927 25DUK	25 degree(s)	2700 K	927	355 lm
70763000	MASTER LED ExpertColor 5.5-50W GU10 930 25D	25 degree(s)	3000 K	930	375 lm
70765400	MASTER LED ExpertColor 5.5-50W GU10 940 25D	25 degree(s)	4000 K	940	400 lm
70767800	MASTER LED ExpertColor 5.5-50W GU10 927 36D	36 degree(s)	2700 K	927	355 lm
70767801	MASLED ExpertColor5.5-50W GU10 927 36DUK	36 degree(s)	2700 K	927	355 lm
70769201	MASLEDExpertColor 5.5-50W GU10 930 36DUK	36 degree(s)	3000 K	930	375 lm
70771500	MASTER LED ExpertColor 5.5-50W GU10 940 36D	36 degree(s)	4000 K	940	400 lm

Light Technical (2/2)

MASTER LEDspot ExpertColor MV

Order Code	Full Product Name	Luminous intensity (nom.)
70749400	MASTER LED ExpertColor 3.9-35W GU10 927 25D	700 cd
70751700	MASTER LED ExpertColor 3.9-35W GU10 930 25D	750 cd
70753100	MASTER LED ExpertColor 3.9-35W GU10 940 25D	800 cd
70755500	MASTER LED ExpertColor 3.9-35W GU10 927 36D	540 cd
70757900	MASTER LED ExpertColor 3.9-35W GU10 930 36D	560 cd
70759300	MASTER LED ExpertColor 3.9-35W GU10 940 36D	600 cd
70761601	MASLED ExpertColor5.5-50W GU10 927 25DUK	1,000 cd

Order Code	Full Product Name	Luminous intensity (nom.)
70763000	MASTER LED ExpertColor 5.5-50W GU10 930 25D	1,000 cd
70765400	MASTER LED ExpertColor 5.5-50W GU10 940 25D	1,050 cd
70767800	MASTER LED ExpertColor 5.5-50W GU10 927 36D	800 cd
70767801	MASLED ExpertColor5.5-50W GU10 927 36DUK	800 cd
70769201	MASLEDExpertColor 5.5-50W GU10 930 36DUK	800 cd
70771500	MASTER LED ExpertColor 5.5-50W GU10 940 36D	800 cd

Operating and Electrical

Order Code	Full Product Name	Power Consumption	Wattage equivalent
70749400	MASTER LED ExpertColor 3.9-35W GU10 927 25D	3.9 W	35 W
70751700	MASTER LED ExpertColor 3.9-35W GU10 930 25D	3.9 W	35 W
70753100	MASTER LED ExpertColor 3.9-35W GU10 940 25D	3.9 W	35 W
70755500	MASTER LED ExpertColor 3.9-35W GU10 927 36D	3.9 W	35 W
70757900	MASTER LED ExpertColor 3.9-35W GU10 930 36D	3.9 W	35 W
70759300	MASTER LED ExpertColor 3.9-35W GU10 940 36D	3.9 W	35 W
70761601	MASLED ExpertColor5.5-50W GU10 927 25DUK	5.5 W	50 W

Order Code	Full Product Name	Power Consumption	Wattage equivalent
70763000	MASTER LED ExpertColor 5.5-50W GU10 930 25D	5.5 W	50 W
70765400	MASTER LED ExpertColor 5.5-50W GU10 940 25D	5.5 W	50 W
70767800	MASTER LED ExpertColor 5.5-50W GU10 927 36D	5.5 W	50 W
70767801	MASLED ExpertColor5.5-50W GU10 927 36DUK	5.5 W	50 W
70769201	MASLEDExpertColor 5.5-50W GU10 930 36DUK	5.5 W	50 W
70771500	MASTER LED ExpertColor 5.5-50W GU10 940 36D	5.5 W	50 W

Mechanical and Housing

Order Code	Full Product Name	Lamp Finish
70749400	MASTER LED ExpertColor 3.9-35W GU10 927 25D	-
70751700	MASTER LED ExpertColor 3.9-35W GU10 930 25D	-
70753100	MASTER LED ExpertColor 3.9-35W GU10 940 25D	-
70755500	MASTER LED ExpertColor 3.9-35W GU10 927 36D	-
70757900	MASTER LED ExpertColor 3.9-35W GU10 930 36D	-
70759300	MASTER LED ExpertColor 3.9-35W GU10 940 36D	Clear
70761601	MASLED ExpertColor5.5-50W GU10 927 25DUK	-

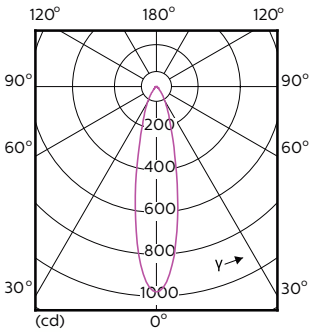
Order Code	Full Product Name	Lamp Finish
70763000	MASTER LED ExpertColor 5.5-50W GU10 930 25D	Clear
70765400	MASTER LED ExpertColor 5.5-50W GU10 940 25D	-
70767800	MASTER LED ExpertColor 5.5-50W GU10 927 36D	-
70767801	MASLED ExpertColor5.5-50W GU10 927 36DUK	-
70769201	MASLEDExpertColor 5.5-50W GU10 930 36DUK	-
70771500	MASTER LED ExpertColor 5.5-50W GU10 940 36D	-

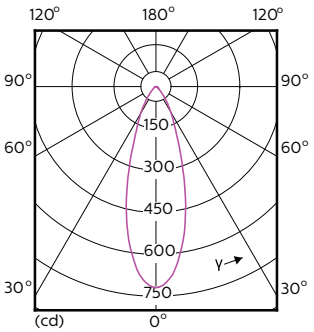
Approval and Application

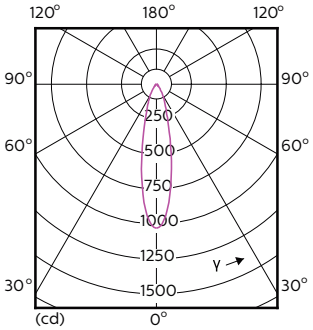
Order Code	Full Product Name	Energy consumption kWh/1,000 hours
70749400	MASTER LED ExpertColor 3.9-35W GU10 927 25D	4 kWh
70751700	MASTER LED ExpertColor 3.9-35W GU10 930 25D	4 kWh
70753100	MASTER LED ExpertColor 3.9-35W GU10 940 25D	4 kWh
70755500	MASTER LED ExpertColor 3.9-35W GU10 927 36D	4 kWh
70757900	MASTER LED ExpertColor 3.9-35W GU10 930 36D	4 kWh
70759300	MASTER LED ExpertColor 3.9-35W GU10 940 36D	4 kWh
70761601	MASLED ExpertColor5.5-50W GU10 927 25DUK	6 kWh
70763000	MASTER LED ExpertColor 5.5-50W GU10 930 25D	6 kWh

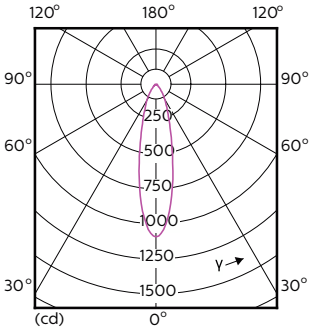
Order Code	Full Product Name	Energy consumption kWh/1,000 hours
70765400	MASTER LED ExpertColor 5.5-50W GU10 940 25D	6 kWh
70767800	MASTER LED ExpertColor 5.5-50W GU10 927 36D	6 kWh
70767801	MASLED ExpertColor5.5-50W GU10 927 36DUK	6 kWh
70769201	MASLEDExpertColor 5.5-50W GU10 930 36DUK	6 kWh
70771500	MASTER LED ExpertColor 5.5-50W GU10 940 36D	6 kWh

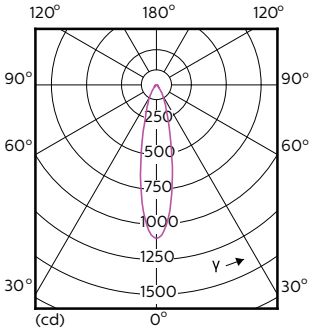
MASTER LEDspot ExpertColor MV

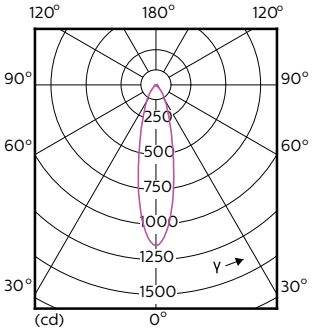


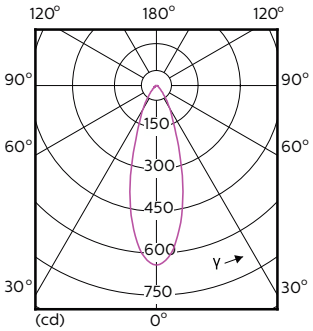


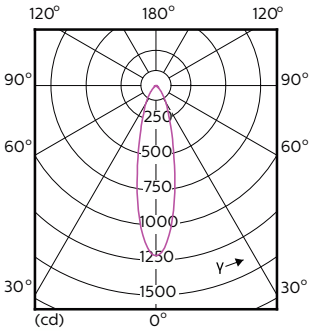


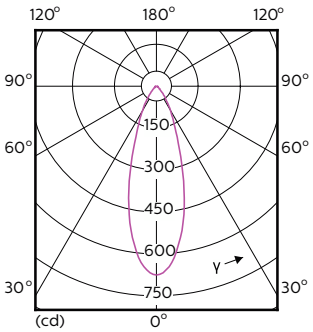


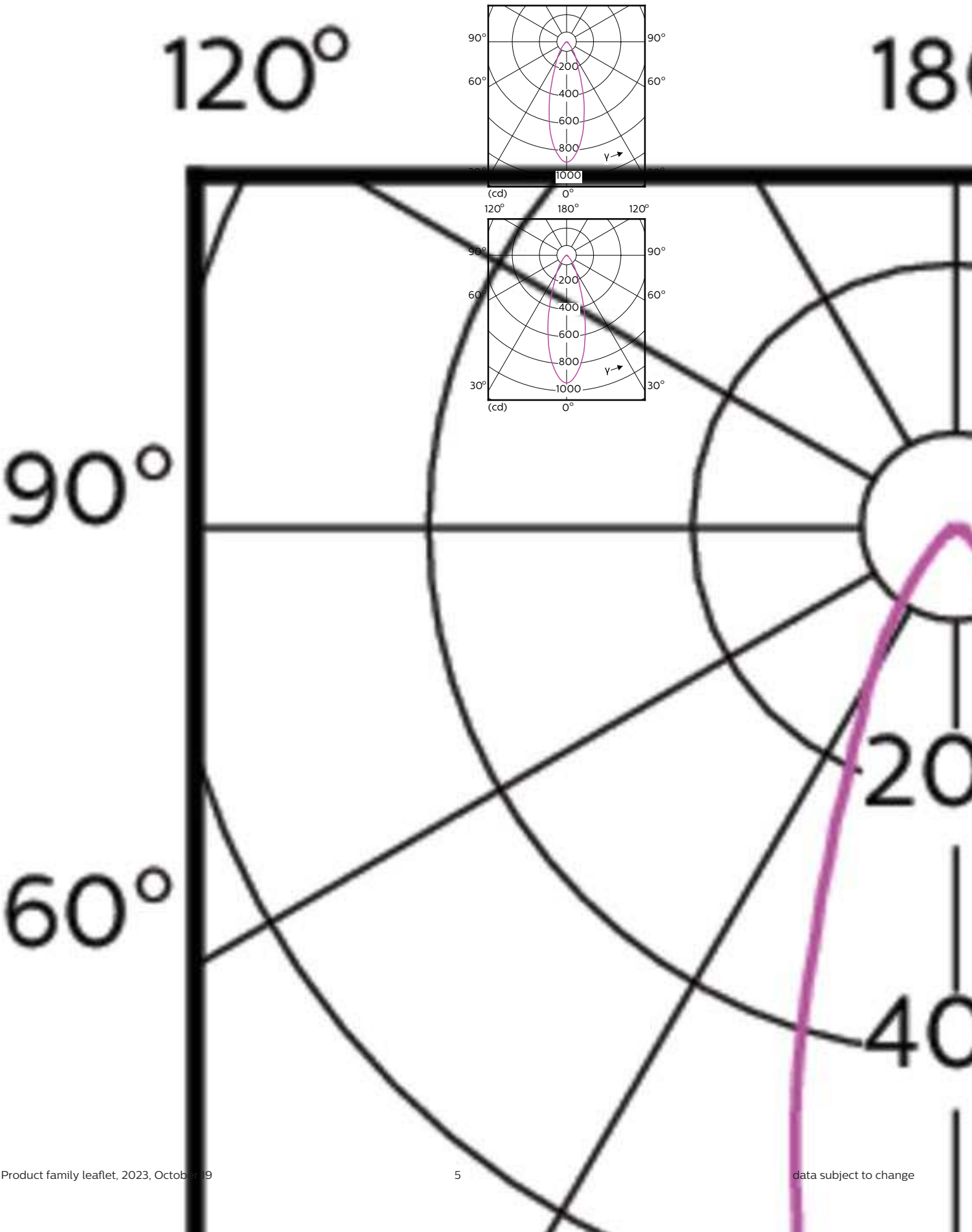




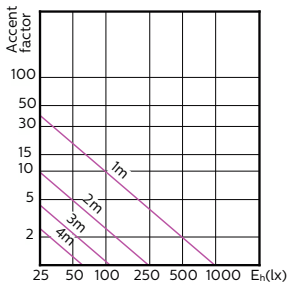




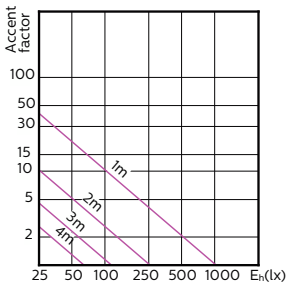



120°
90°
60°
90°
60°
200
400
600
800
1000
(cd)
0°
120°
180°
120°
90°
60°
30°
200
400
600
800
1000
(cd)
0°
90°
60°
30°

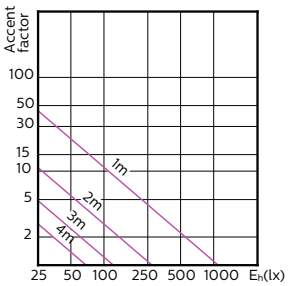
Accent Diagrams



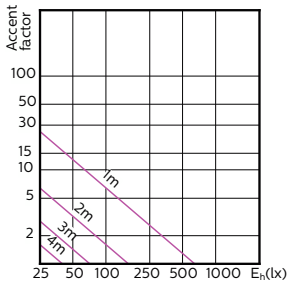
Accent Diagram - MAS LED ExpertColor 3.9-35W GU10 927 25D



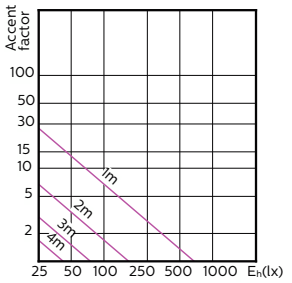
Accent Diagram - MAS LED ExpertColor 3.9-35W GU10 930 25D



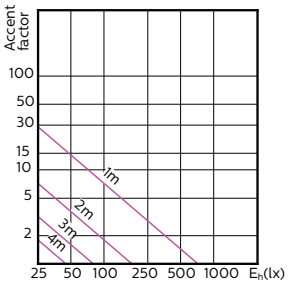
Accent Diagram - MAS LED ExpertColor 3.9-35W GU10 940 25D



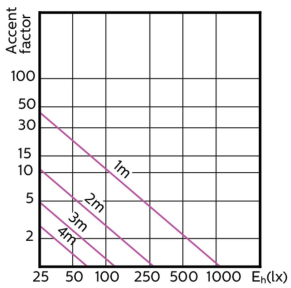
Accent Diagram - MAS LED ExpertColor 3.9-35W GU10 927 36D



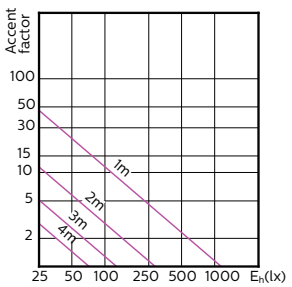
Accent Diagram - MAS LED ExpertColor 3.9-35W GU10 930 36D



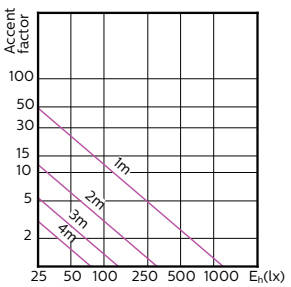
Accent Diagram - MAS LED ExpertColor 3.9-35W GU10 940 36D



Accent Diagram - MASLED ExpertColor5.5-50W GU10 927 25DUK

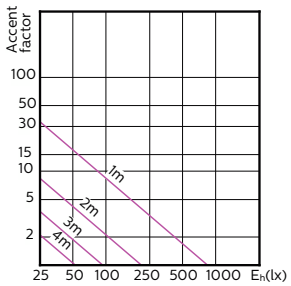


Accent Diagram - MAS LED ExpertColor 5.5-50W GU10 930 25D

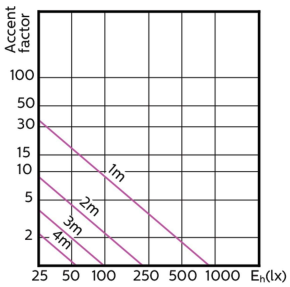


Accent Diagram - MAS LED ExpertColor 5.5-50W GU10 940 25D

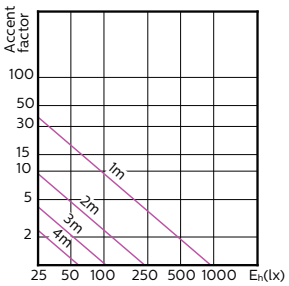
Accent Diagrams



Accent Diagram - MASLED ExpertColor5.5-50W GU10 927 36DUK

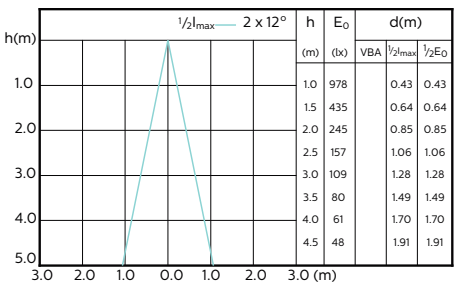


Accent Diagram - MASLEDExpertColor 5.5-50W GU10 930 36DUK



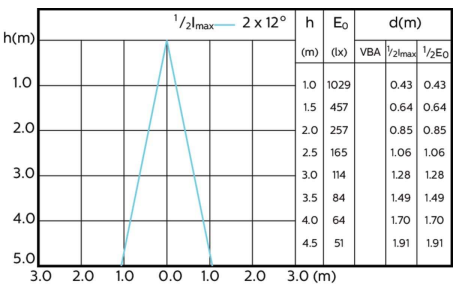
Accent Diagram - MAS LED ExpertColor 5.5-50W GU10 940 36D

Beam Diagrams



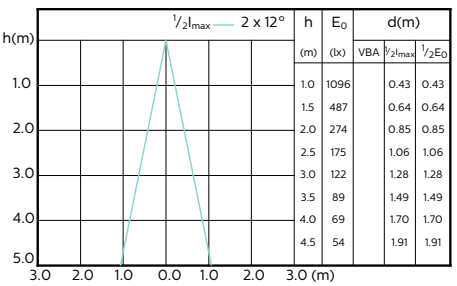
h (m)	E_0 (lx)	d(m) VBA	d(m) ½Imax	d(m) ½E_0
1.0	978		0.43	0.43
1.5	435		0.64	0.64
2.0	245		0.85	0.85
2.5	157		1.06	1.06
3.0	109		1.28	1.28
3.5	80		1.49	1.49
4.0	61		1.70	1.70
4.5	48		1.91	1.91

Beam diagram - MAS LED ExpertColor 3.9-35W GU10 927 25D



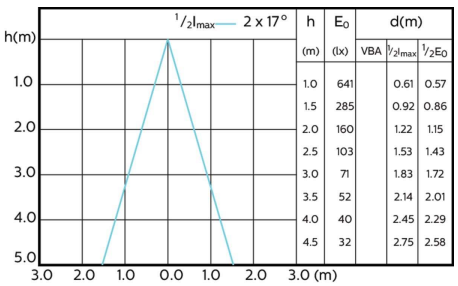
h (m)	E_0 (lx)	d(m) VBA	d(m) ½Imax	d(m) ½E_0
1.0	1029		0.43	0.43
1.5	457		0.64	0.64
2.0	257		0.85	0.85
2.5	165		1.06	1.06
3.0	114		1.28	1.28
3.5	84		1.49	1.49
4.0	64		1.70	1.70
4.5	51		1.91	1.91

Beam diagram - MAS LED ExpertColor 3.9-35W GU10 930 25D



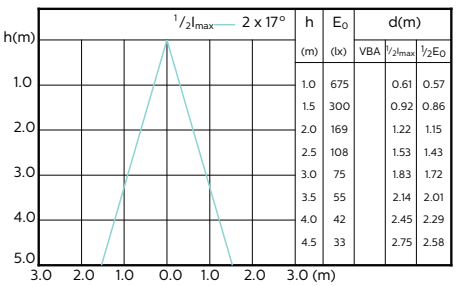
h (m)	E_0 (lx)	d(m) VBA	d(m) ½Imax	d(m) ½E_0
1.0	1096		0.43	0.43
1.5	487		0.64	0.64
2.0	274		0.85	0.85
2.5	175		1.06	1.06
3.0	122		1.28	1.28
3.5	89		1.49	1.49
4.0	69		1.70	1.70
4.5	54		1.91	1.91

Beam diagram - MAS LED ExpertColor 3.9-35W GU10 940 25D



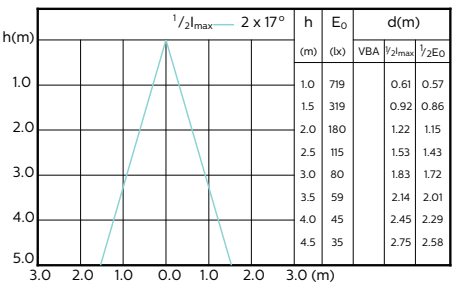
h (m)	E_0 (lx)	d(m) VBA	d(m) ½Imax	d(m) ½E_0
1.0	641		0.61	0.57
1.5	285		0.92	0.86
2.0	160		1.22	1.15
2.5	103		1.53	1.43
3.0	71		1.83	1.72
3.5	52		2.14	2.01
4.0	40		2.45	2.29
4.5	32		2.75	2.58

Beam diagram - MAS LED ExpertColor 3.9-35W GU10 927 36D



h (m)	E_0 (lx)	d(m) VBA	d(m) ½Imax	d(m) ½E_0
1.0	675		0.61	0.57
1.5	300		0.92	0.86
2.0	169		1.22	1.15
2.5	108		1.53	1.43
3.0	75		1.83	1.72
3.5	55		2.14	2.01
4.0	42		2.45	2.29
4.5	33		2.75	2.58

Beam diagram - MAS LED ExpertColor 3.9-35W GU10 930 36D

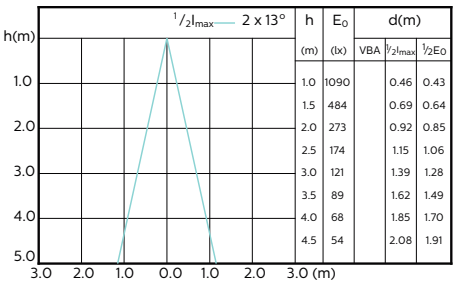


h (m)	E_0 (lx)	d(m) VBA	d(m) ½Imax	d(m) ½E_0
1.0	719		0.61	0.57
1.5	319		0.92	0.86
2.0	180		1.22	1.15
2.5	115		1.53	1.43
3.0	80		1.83	1.72
3.5	59		2.14	2.01
4.0	45		2.45	2.29
4.5	35		2.75	2.58

Beam diagram - MAS LED ExpertColor 3.9-35W GU10 940 36D

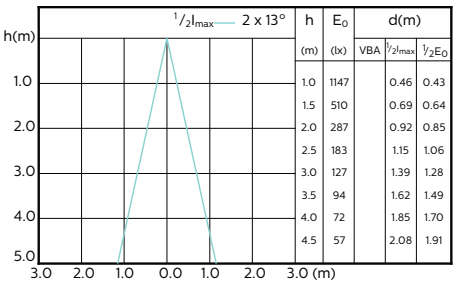
MASTER LEDspot ExpertColor MV

Beam Diagrams



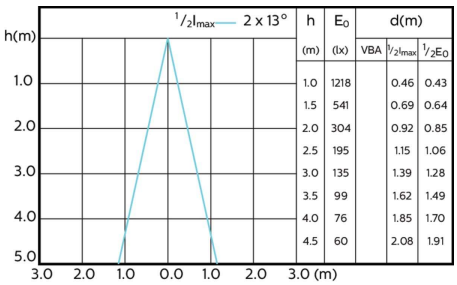
h	E_0	d(m)		
(m)	(lx)	VBA	½I_{max}	½E_0
1.0	1090		0.46	0.43
1.5	484		0.69	0.64
2.0	273		0.92	0.85
2.5	174		1.15	1.06
3.0	121		1.39	1.28
3.5	89		1.62	1.49
4.0	68		1.85	1.70
4.5	54		2.08	1.91

Beam diagram - MASLED ExpertColor5.5-50W GU10 927 25DUK



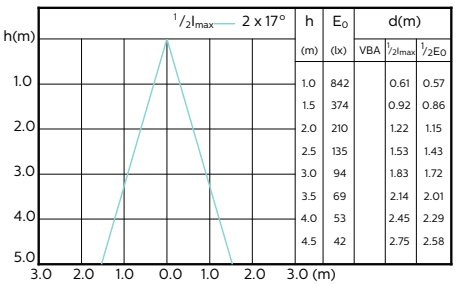
h	E_0	d(m)		
(m)	(lx)	VBA	½I_{max}	½E_0
1.0	1147		0.46	0.43
1.5	510		0.69	0.64
2.0	287		0.92	0.85
2.5	183		1.15	1.06
3.0	127		1.39	1.28
3.5	94		1.62	1.49
4.0	72		1.85	1.70
4.5	57		2.08	1.91

Beam diagram - MAS LED ExpertColor 5.5-50W GU10 930 25D



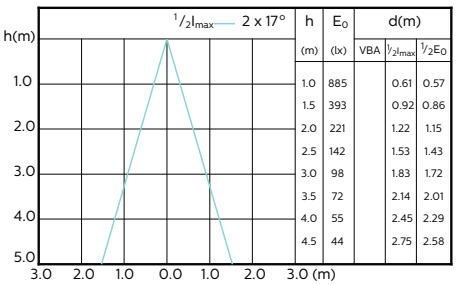
h	E_0	d(m)		
(m)	(lx)	VBA	½I_{max}	½E_0
1.0	1218		0.46	0.43
1.5	541		0.69	0.64
2.0	304		0.92	0.85
2.5	195		1.15	1.06
3.0	135		1.39	1.28
3.5	99		1.62	1.49
4.0	76		1.85	1.70
4.5	60		2.08	1.91

Beam diagram - MAS LED ExpertColor 5.5-50W GU10 940 25D



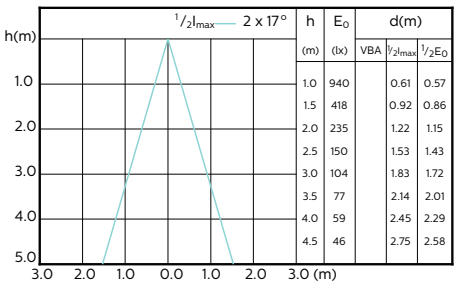
h	E_0	d(m)		
(m)	(lx)	VBA	½I_{max}	½E_0
1.0	842		0.61	0.57
1.5	374		0.92	0.86
2.0	210		1.22	1.15
2.5	135		1.53	1.43
3.0	94		1.83	1.72
3.5	69		2.14	2.01
4.0	53		2.45	2.29
4.5	42		2.75	2.58

Beam diagram - MASLED ExpertColor5.5-50W GU10 927 36DUK



h	E_0	d(m)		
(m)	(lx)	VBA	½I_{max}	½E_0
1.0	885		0.61	0.57
1.5	393		0.92	0.86
2.0	221		1.22	1.15
2.5	142		1.53	1.43
3.0	98		1.83	1.72
3.5	72		2.14	2.01
4.0	55		2.45	2.29
4.5	44		2.75	2.58

Beam diagram - MASLEDExpertColor 5.5-50W GU10 930 36DUK



h	E_0	d(m)		
(m)	(lx)	VBA	½I_{max}	½E_0
1.0	940		0.61	0.57
1.5	418		0.92	0.86
2.0	235		1.22	1.15
2.5	150		1.53	1.43
3.0	104		1.83	1.72
3.5	77		2.14	2.01
4.0	59		2.45	2.29
4.5	46		2.75	2.58

Beam diagram - MAS LED ExpertColor 5.5-50W GU10 940 36D

© 2023 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. All trademarks are owned by Signify Holding or their respective owners.