PHILIPS

Lighting



Create a warm, welcoming ambience with superior-quality lighting

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 and LEDspot Par lamps.

Benefits

- Create warm and comfortable ambience
- Interior decor, furnishings and fabrics look great
- Hassle-free retrofit solution for greater energy efficiency and sustainability

Features

- Customised colour spectrum replicates halogen light colour
- Trimless design with beautiful V-groove lens
- Best-in-class colour realisation CRI97
- Deep and smooth dimming
- Retrofittable with main-voltage GU10 halogen lamps

MASTER LEDspot ExpertColor MV

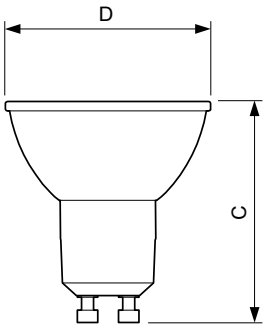
Application

- Hospitality: hotel guest rooms, corridors, lobbies, reception areas, restaurants, bars, cafes
- Home: living room, bedrooms, hallway
- Retail: exhibitions, display cabinets, shops, dressing rooms

Versions



Dimensional drawing



Product	D	C
MASTER LED ExpertColor 3.9-35W GU10 927 25D	50 mm	54 mm
MASTER LED ExpertColor 3.9-35W GU10 940 25D	50 mm	54 mm
MASTER LED ExpertColor 3.9-35W GU10 927 36D	50 mm	54 mm
MASTER LED ExpertColor 3.9-35W GU10 930 36D	50 mm	54 mm
MASTER LED ExpertColor 3.9-35W GU10 940 36D	50 mm	54 mm
MASTER LED ExpertColor 5.5-50W GU10 927 25D	50 mm	54 mm
MASTER LED ExpertColor 5.5-50W GU10 930 25D	50 mm	54 mm
MASTER LED ExpertColor 5.5-50W GU10 927 36D	50 mm	54 mm
MASTER LED ExpertColor 5.5-50W GU10 940 25D	50 mm	54 mm
MASTER LED ExpertColor 5.5-50W GU10 930 36D	50 mm	54 mm
MASTER LED ExpertColor 5.5-50W GU10 940 36D	50 mm	54 mm
MASTER LED ExpertColor 3.9-35W GU10 930 25D	50 mm	54 mm

MASTER LEDspot ExpertColor MV

Approval and Application	
Energy Efficiency Label (EEL)	A+
Operating and Electrical	
Input Frequency	50 to 60 Hz
Voltage (Nom)	220-240 V
Starting Time (Nom)	0.5 s
General Information	
Cap-Base	GU10
Nominal Lifetime (Nom)	40000 h
Rated Lifetime (Hours)	40000 h
Switching Cycle	50000X
Light Technical	
Colour Rendering Index (Nom)	97
Llmf At End Of Nominal Lifetime (Nom)	70 %
Mechanical and Housing	
Bulb Shape	PAR16
Temperature	
T-Case Maximum (Nom)	80 °C

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
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
70761600	MASTER LED ExpertColor 5.5-50W GU10 927 25D	6 kWh
70763000	MASTER LED ExpertColor 5.5-50W GU10 930 25D	6 kWh
70765400	MASTER LED ExpertColor 5.5-50W GU10 940 25D	6 kWh
70767800	MASTER LED ExpertColor 5.5-50W GU10 927 36D	6 kWh
70769200	MASTER LED ExpertColor 5.5-50W GU10 930 36D	6 kWh
70771500	MASTER LED ExpertColor 5.5-50W GU10 940 36D	6 kWh

Controls and Dimming

Order Code	Full Product Name	Dimmable
70749400	MASTER LED ExpertColor 3.9-35W GU10 927 25D	Yes
70751700	MASTER LED ExpertColor 3.9-35W GU10 930 25D	yes
70753100	MASTER LED ExpertColor 3.9-35W GU10 940 25D	Yes
70755500	MASTER LED ExpertColor 3.9-35W GU10 927 36D	Yes
70757900	MASTER LED ExpertColor 3.9-35W GU10 930 36D	yes
70759300	MASTER LED ExpertColor 3.9-35W GU10 940 36D	Yes

Order Code	Full Product Name	Dimmable
70761600	MASTER LED ExpertColor 5.5-50W GU10 927 25D	Yes
70763000	MASTER LED ExpertColor 5.5-50W GU10 930 25D	Yes
70765400	MASTER LED ExpertColor 5.5-50W GU10 940 25D	yes
70767800	MASTER LED ExpertColor 5.5-50W GU10 927 36D	Yes
70769200	MASTER LED ExpertColor 5.5-50W GU10 930 36D	yes
70771500	MASTER LED ExpertColor 5.5-50W GU10 940 36D	Yes

Operating and Electrical

Order Code	Full Product Name	Wattage Equivalent	Power (Rated) (Nom)
70749400	MASTER LED ExpertColor 3.9-35W GU10 927 25D	35 W	3.9 W
70751700	MASTER LED ExpertColor 3.9-35W GU10 930 25D	35 W	3.9 W
70753100	MASTER LED ExpertColor 3.9-35W GU10 940 25D	35 W	3.9 W
70755500	MASTER LED ExpertColor 3.9-35W GU10 927 36D	35 W	3.9 W
70757900	MASTER LED ExpertColor 3.9-35W GU10 930 36D	35 W	3.9 W
70759300	MASTER LED ExpertColor 3.9-35W GU10 940 36D	35 W	3.9 W

Order Code	Full Product Name	Wattage Equivalent	Power (Rated) (Nom)
70761600	MASTER LED ExpertColor 5.5-50W GU10 927 25D	50 W	5.5 W
70763000	MASTER LED ExpertColor 5.5-50W GU10 930 25D	50 W	5.5 W
70765400	MASTER LED ExpertColor 5.5-50W GU10 940 25D	50 W	5.5 W
70767800	MASTER LED ExpertColor 5.5-50W GU10 927 36D	50 W	5.5 W
70769200	MASTER LED ExpertColor 5.5-50W GU10 930 36D	50 W	5.5 W
70771500	MASTER LED ExpertColor 5.5-50W GU10 940 36D	50 W	5.5 W

Light Technical (1/2)

MASTER LEDspot ExpertColor MV

Order Code	Full Product Name	Beam Angle (Nom)	Colour Code	Correlated Colour Temperature (Nom)	Luminous Flux (Nom)
70749400	MASTER LED ExpertColor 3.9-35W GU10 927 25D	25 °	927	2700 K	265 lm
70751700	MASTER LED ExpertColor 3.9-35W GU10 930 25D	25 °	930	3000 K	280 lm
70753100	MASTER LED ExpertColor 3.9-35W GU10 940 25D	25 °	940	4000 K	300 lm
70755500	MASTER LED ExpertColor 3.9-35W GU10 927 36D	36 °	927	2700 K	265 lm
70757900	MASTER LED ExpertColor 3.9-35W GU10 930 36D	36 °	930	3000 K	280 lm
70759300	MASTER LED ExpertColor 3.9-35W GU10 940 36D	36 °	940	4000 K	300 lm

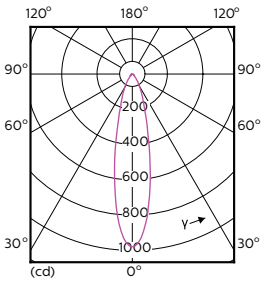
Order Code	Full Product Name	Beam Angle (Nom)	Colour Code	Correlated Colour Temperature (Nom)	Luminous Flux (Nom)
70761600	MASTER LED ExpertColor 5.5-50W GU10 927 25D	25 °	927	2700 K	355 lm
70763000	MASTER LED ExpertColor 5.5-50W GU10 930 25D	25 °	930	3000 K	375 lm
70765400	MASTER LED ExpertColor 5.5-50W GU10 940 25D	25 °	940	4000 K	400 lm
70767800	MASTER LED ExpertColor 5.5-50W GU10 927 36D	36 °	927	2700 K	355 lm
70769200	MASTER LED ExpertColor 5.5-50W GU10 930 36D	36 °	930	3000 K	375 lm
70771500	MASTER LED ExpertColor 5.5-50W GU10 940 36D	36 °	940	4000 K	400 lm

Light Technical (2/2)

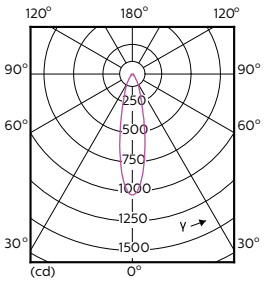
Order Code	Full Product Name	Luminous Flux (Rated) (Nom)	Luminous Intensity (Nom)	Rated Beam Angle
70749400	MASTER LED ExpertColor 3.9-35W GU10 927 25D	265 lm	700 cd	25 °
70751700	MASTER LED ExpertColor 3.9-35W GU10 930 25D	280 lm	750 cd	25 °
70753100	MASTER LED ExpertColor 3.9-35W GU10 940 25D	300 lm	800 cd	25 °
70755500	MASTER LED ExpertColor 3.9-35W GU10 927 36D	265 lm	540 cd	36 °
70757900	MASTER LED ExpertColor 3.9-35W GU10 930 36D	280 lm	560 cd	36 °
70759300	MASTER LED ExpertColor 3.9-35W GU10 940 36D	300 lm	600 cd	36 °

Order Code	Full Product Name	Luminous Flux (Rated) (Nom)	Luminous Intensity (Nom)	Rated Beam Angle
70761600	MASTER LED ExpertColor 5.5-50W GU10 927 25D	355 lm	1000 cd	25 °
70763000	MASTER LED ExpertColor 5.5-50W GU10 930 25D	375 lm	1000 cd	25 °
70765400	MASTER LED ExpertColor 5.5-50W GU10 940 25D	400 lm	1050 cd	25 °
70767800	MASTER LED ExpertColor 5.5-50W GU10 927 36D	355 lm	800 cd	36 °
70769200	MASTER LED ExpertColor 5.5-50W GU10 930 36D	375 lm	800 cd	36 °
70771500	MASTER LED ExpertColor 5.5-50W GU10 940 36D	400 lm	850 cd	36 °

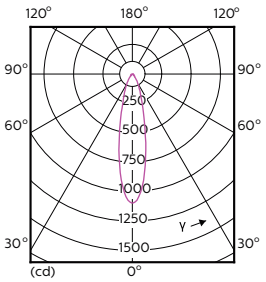
Light Distribution Diagrams



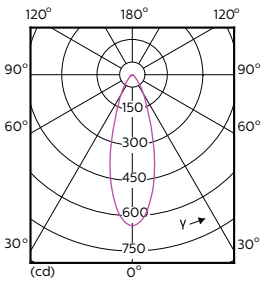
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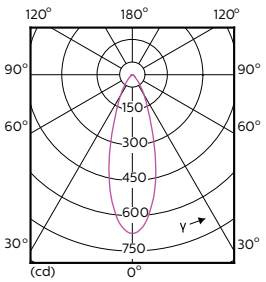
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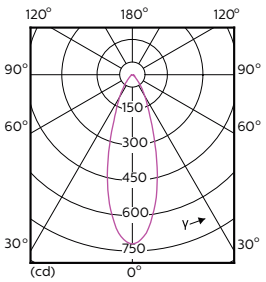
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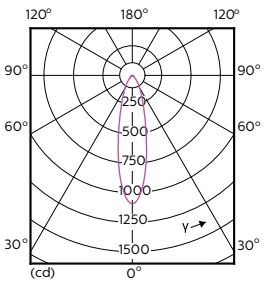
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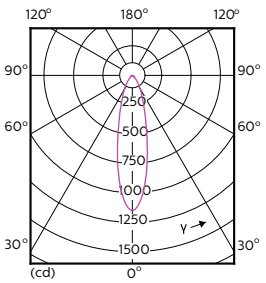
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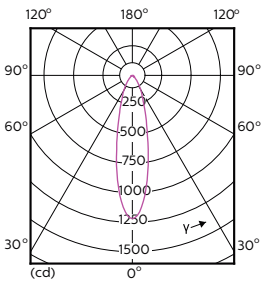
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MASTER LEDspot ExpertColor MV 50W GU10 927 25D



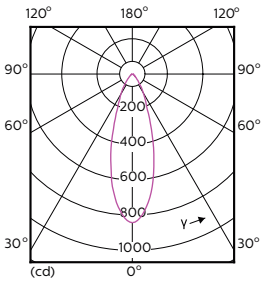
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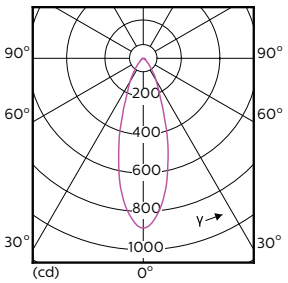
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MASTER LEDspot ExpertColor MV

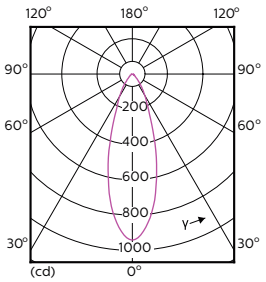
Light Distribution Diagrams



MASTER LEDspot ExpertColor MV 50W GU10 927 36D

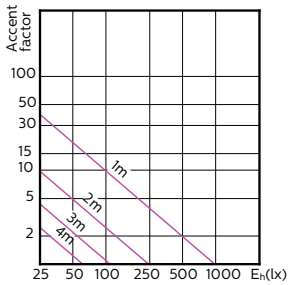


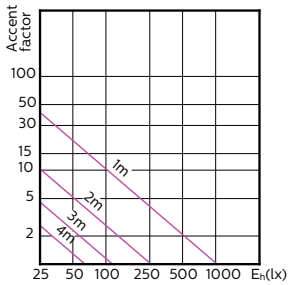
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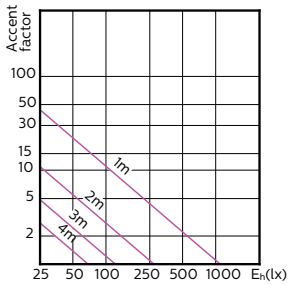


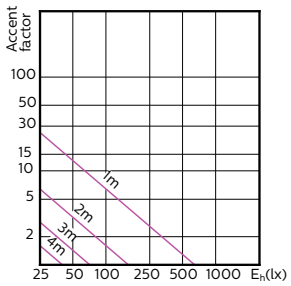
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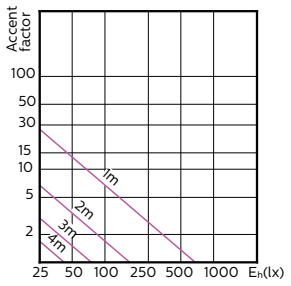
Accent Diagrams

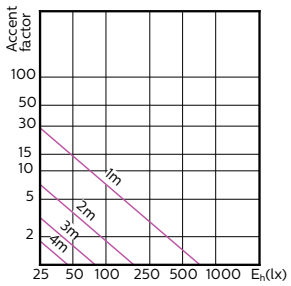


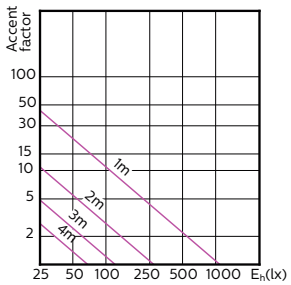


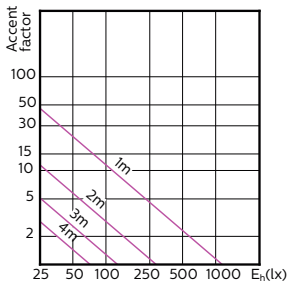


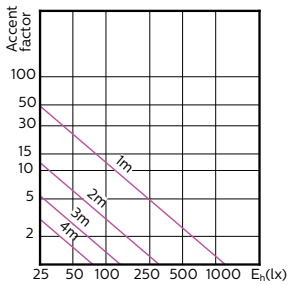




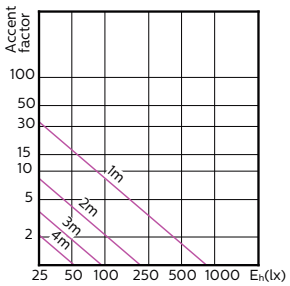


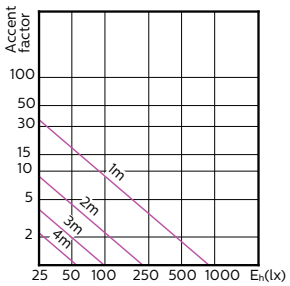


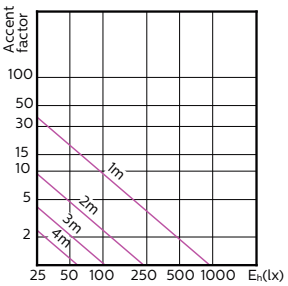




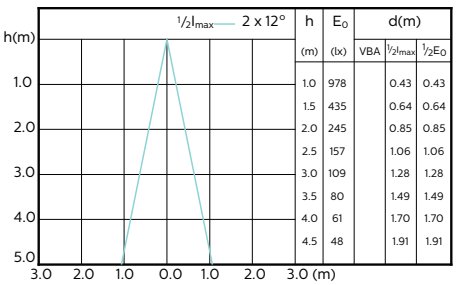
Accent Diagrams



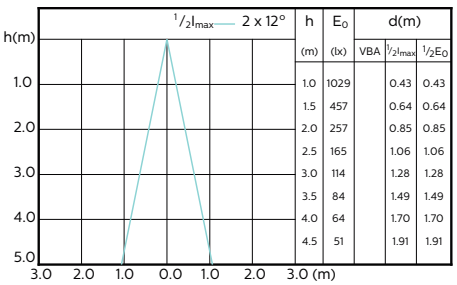




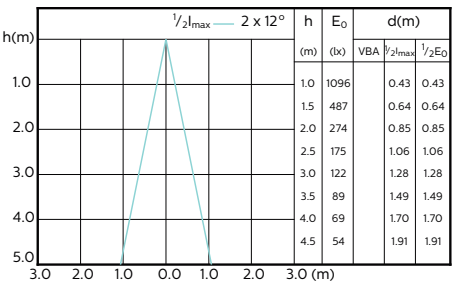
Beam Diagrams



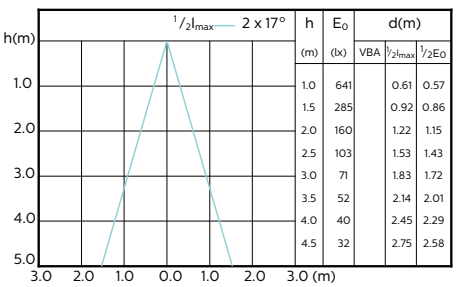
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1.0	978		0.43	0.43
1.5	435		0.64	0.64
2.0	245		0.85	0.85
2.5	157		1.06	1.06
3.0	109		1.28	1.28
3.5	80		1.49	1.49
4.0	61		1.70	1.70
4.5	48		1.91	1.91



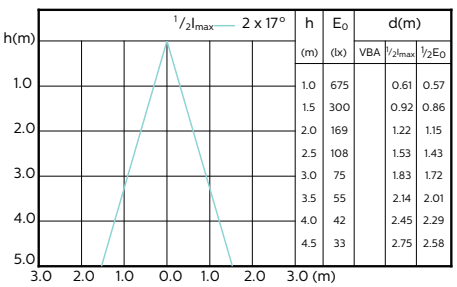
h (m)	E0 (lx)	d(m) VBA	d(m) ½Imax	d(m) ½E0
1.0	1029		0.43	0.43
1.5	457		0.64	0.64
2.0	257		0.85	0.85
2.5	165		1.06	1.06
3.0	114		1.28	1.28
3.5	84		1.49	1.49
4.0	64		1.70	1.70
4.5	51		1.91	1.91



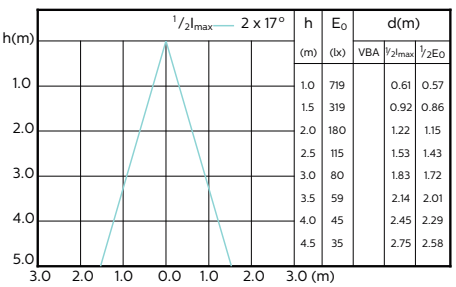
h (m)	E0 (lx)	d(m) VBA	d(m) ½Imax	d(m) ½E0
1.0	1096		0.43	0.43
1.5	487		0.64	0.64
2.0	274		0.85	0.85
2.5	175		1.06	1.06
3.0	122		1.28	1.28
3.5	89		1.49	1.49
4.0	69		1.70	1.70
4.5	54		1.91	1.91



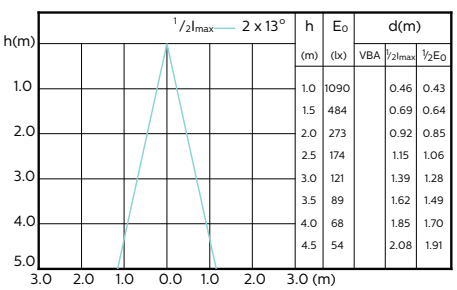
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1.0	641		0.61	0.57
1.5	285		0.92	0.86
2.0	160		1.22	1.15
2.5	103		1.53	1.43
3.0	71		1.83	1.72
3.5	52		2.14	2.01
4.0	40		2.45	2.29
4.5	32		2.75	2.58



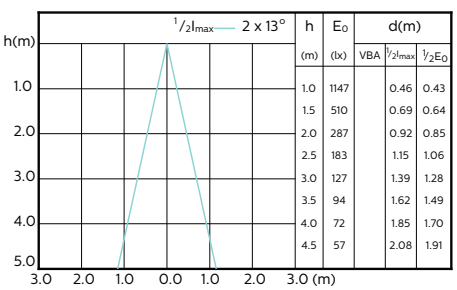
h (m)	E0 (lx)	d(m) VBA	d(m) ½Imax	d(m) ½E0
1.0	675		0.61	0.57
1.5	300		0.92	0.86
2.0	169		1.22	1.15
2.5	108		1.53	1.43
3.0	75		1.83	1.72
3.5	55		2.14	2.01
4.0	42		2.45	2.29
4.5	33		2.75	2.58



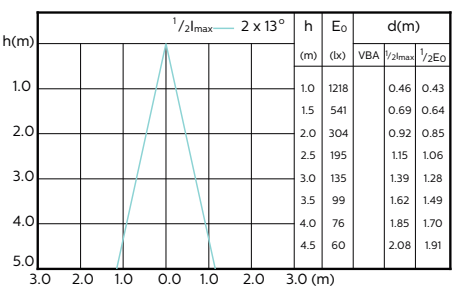
h (m)	E0 (lx)	d(m) VBA	d(m) ½Imax	d(m) ½E0
1.0	719		0.61	0.57
1.5	319		0.92	0.86
2.0	180		1.22	1.15
2.5	115		1.53	1.43
3.0	80		1.83	1.72
3.5	59		2.14	2.01
4.0	45		2.45	2.29
4.5	35		2.75	2.58



h (m)	E0 (lx)	d(m) VBA	d(m) ½Imax	d(m) ½E0
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



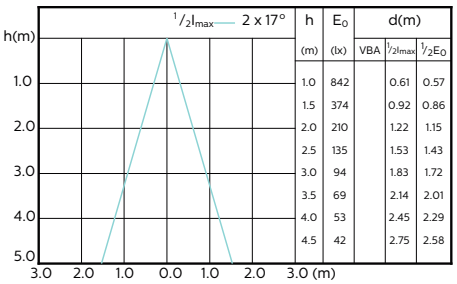
h (m)	E0 (lx)	d(m) VBA	d(m) ½Imax	d(m) ½E0
1.0	1147		0.46	0.43
1.5	510		0.69	0.64
2.0	287		0.92	0.85
2.5	183		1.15	1.06
3.0	127		1.39	1.28
3.5	94		1.62	1.49
4.0	72		1.85	1.70
4.5	57		2.08	1.91



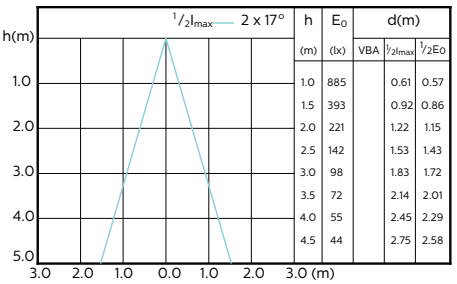
h (m)	E0 (lx)	d(m) VBA	d(m) ½Imax	d(m) ½E0
1.0	1218		0.46	0.43
1.5	541		0.69	0.64
2.0	304		0.92	0.85
2.5	195		1.15	1.06
3.0	135		1.39	1.28
3.5	99		1.62	1.49
4.0	76		1.85	1.70
4.5	60		2.08	1.91

MASTER LEDspot ExpertColor MV

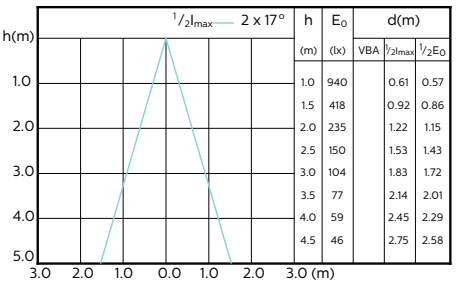
Beam Diagrams



h	E_0	d(m)		
(m)	(lx)	VBA	$^1/_2I_{max}$	$^1/_2E_0$
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



h	E_0	d(m)		
(m)	(lx)	VBA	$^1/_2I_{max}$	$^1/_2E_0$
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



h	E_0	d(m)		
(m)	(lx)	VBA	$^1/_2I_{max}$	$^1/_2E_0$
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

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