



Technical application guide

Philips CorePro LEDspot MV GU10

CorePro LEDlamps provide a natural lighting effect for basic general lighting applications, while saving money in energy and lamp replacement.

CorePro LEDspots are a perfect fit for spot lighting and deliver warm halogen-like light. These are compatible with most existing fixtures with GU10 and are designed as a retrofit replacement for halogen or incandescent spots.

Product benefits:

- Easy retrofit
- Long lifetime
- Huge energy saving
- Low heat generation

www.philips.com/led-product-info



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Design highlights

- 90% energy saving compared to standard halogen spots
- Long lifetime of 15,000 hours (B50, L70)
- Operates at 220–240 V AC and its form-factor is designed as a direct retrofit into all GU10 holders
- Highly focused beam for a clearly defined beam spread
- CCT: 2700 K, 3000 K and 4000 K
- Switching cycles at the rate of 30s ON/ 30s OFF = 50,000 cycles
- No UV and Cool Beam (no IR)
- Environmental friendly, without Mercury or any other hazardous substances
- RoHS compliant



Application notes

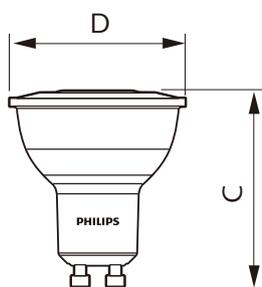
- Operating temperature range is between -20 °C and 45 °C ambient
- Only to apply in dry indoor environments and most of open fixtures with GU10 lamp-holders that offer sufficient space (10 mm free air space)
- Not intended for use with emergency light fixtures or exit lights
- For use in fixtures that can structurally support a lamp weighing 0.040 kilogram

Technical Specifications

Product type	Voltage	Wattage	Comparable Halogen Wattage	Cap Base	Beam Intensity	Beam Angle	Lifetime	Lumen Output	Lumen Output (90° φ)	Efficacy	Dimmable	Color rendering index	Color temp.	Ec	EEL label
CorePro LEDspotMV 2-25W GU10 827 36D	220-240	2.0	25	GU10	400	36	15,000	190	170	85	No	>80	2700	2	A++
CorePro LEDspotMV 2-25W GU10 830 36D	220-240	2.0	25	GU10	400	36	15,000	190	175	88	No	>80	3000	2	A++
CorePro LEDspotMV 2-25W GU10 840 36D	220-240	2.0	25	GU10	400	36	15,000	205	185	93	No	>80	4000	2	A++
CorePro LEDspotMV 3.5-35W GU10 827 36D	220-240	3.5	35	GU10	650	36	15,000	275	250	71	No	>80	2700	4	A+
CorePro LEDspotMV 3.5-35W GU10 830 36D	220-240	3.5	35	GU10	650	36	15,000	275	260	74	No	>80	3000	4	A++
CorePro LEDspotMV 3.5-35W GU10 840 36D	220-240	3.5	35	GU10	650	36	15,000	300	270	77	No	>80	4000	4	A++
CorePro LEDspotMV 3.5-35W GU10 865 36D	220-240	3.5	35	GU10	650	36	15,000	310	250	71	No	>80	6500	4	A+
CorePro LEDspotMV 5-50W GU10 827 36D	220-240	5.0	50	GU10	900	36	15,000	385	350	70	No	>80	2700	5	A+
CorePro LEDspotMV 5-50W GU10 830 36D	220-240	5.0	50	GU10	900	36	15,000	385	360	72	No	>80	3000	5	A+
CorePro LEDspotMV 5-50W GU10 840 36D	220-240	5.0	50	GU10	900	36	15,000	415	380	76	No	>80	4000	5	A+
CorePro LEDspotMV 5-50W GU10 865 36D	220-240	5.0	50	GU10	900	36	15,000	430	350	70	No	>80	6500	5	A+
CorePro LEDspotMV 5-50W GU10 830 60D	220-240	5.0	50	GU10	450	60	15,000	385	360	72	No	>80	3000	5	A+
CorePro LEDspotMV 5-50W GU10 840 60D	220-240	5.0	50	GU10	450	60	15,000	415	380	76	No	>80	4000	5	A+

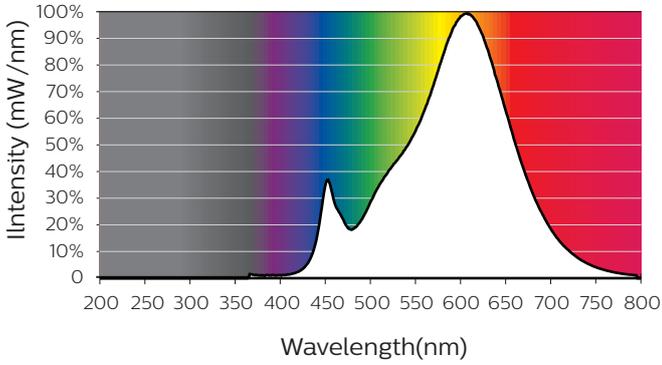
Fixture compatibility

Type	C max.	D max.	Weight
	Overall Length	Diameter	
	(mm)	(mm)	(g)
CorePro LEDspot MV GU10	55	50	40

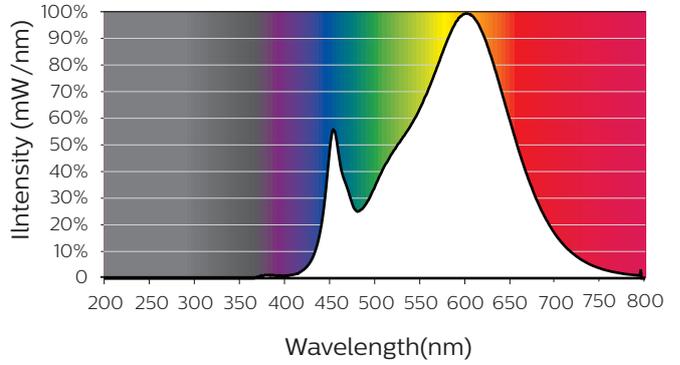


Spectral Power Distribution

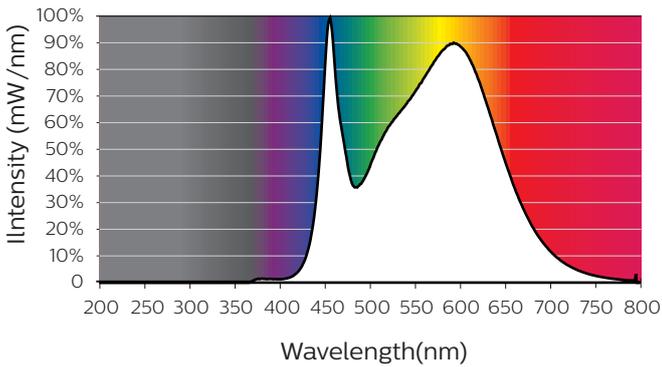
LEDspot MV 2-25W GU10 2700K



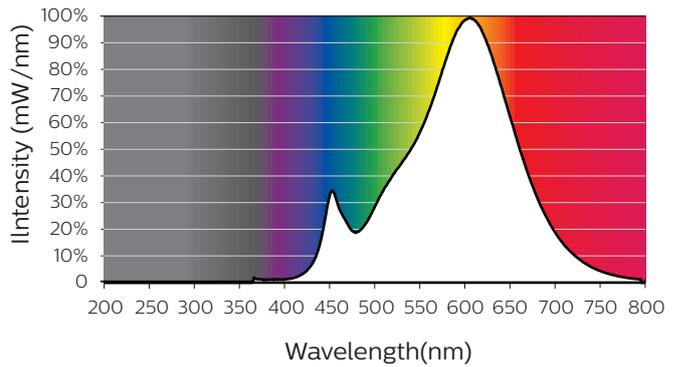
LEDspot MV 2-25W GU10 3000K



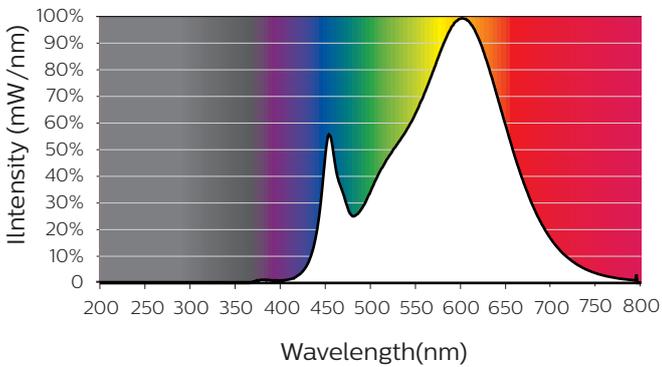
LEDspot MV 2-25W GU10 4000K



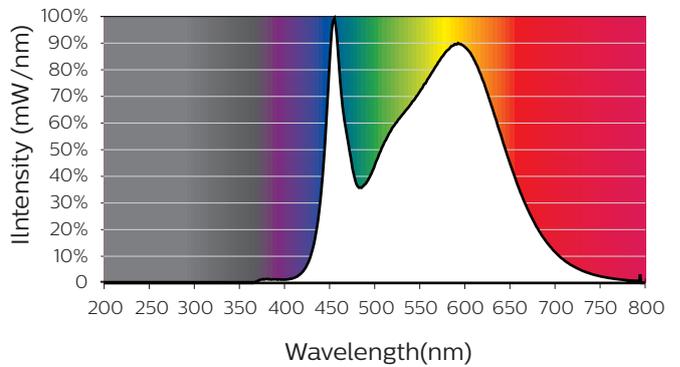
LEDspot MV 3.5-35W GU10 2700K



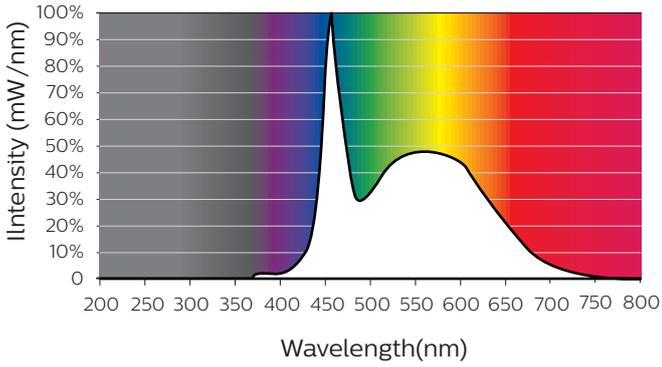
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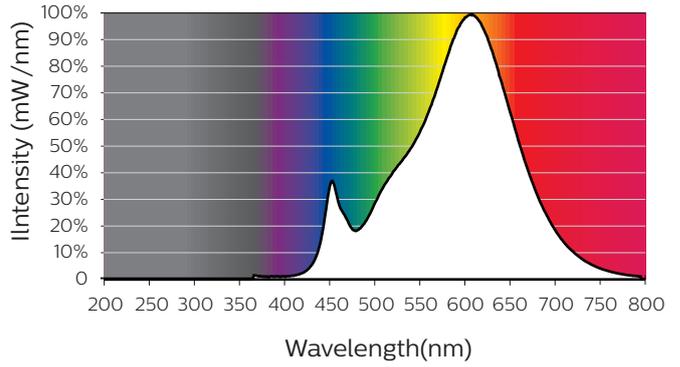
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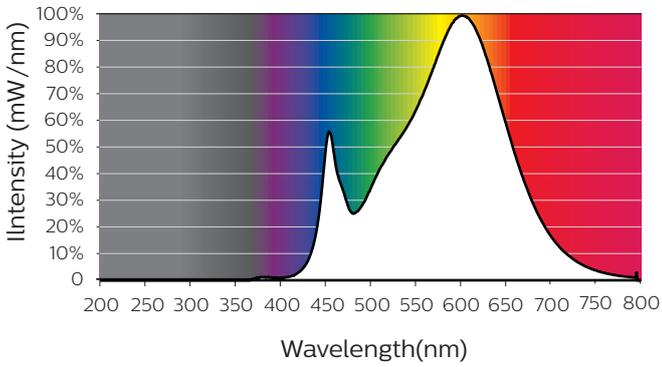
LEDspot MV 3.5-35W GU10 6500K



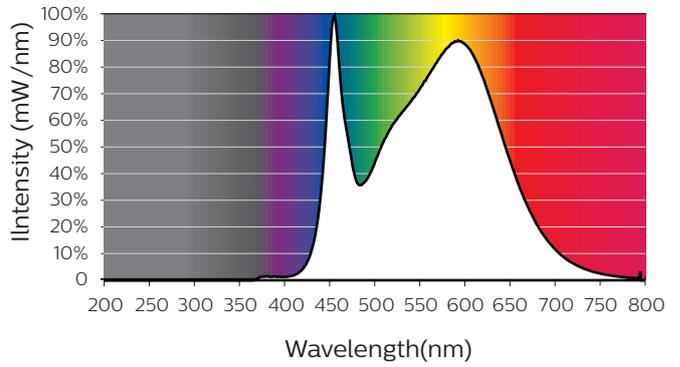
LEDspot MV 5-50W GU10 2700K



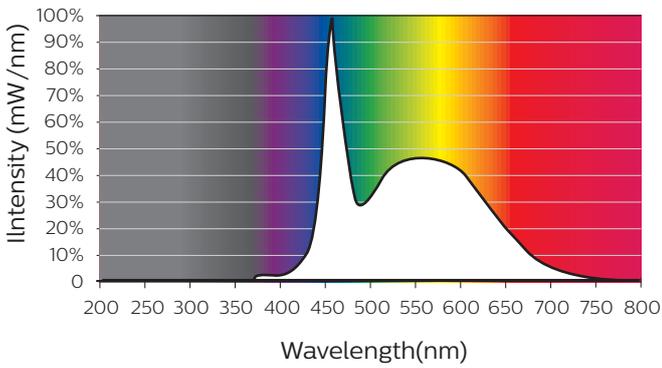
LEDspot MV 5-50W GU10 3000K



LEDspot MV 5-50W GU10 4000K



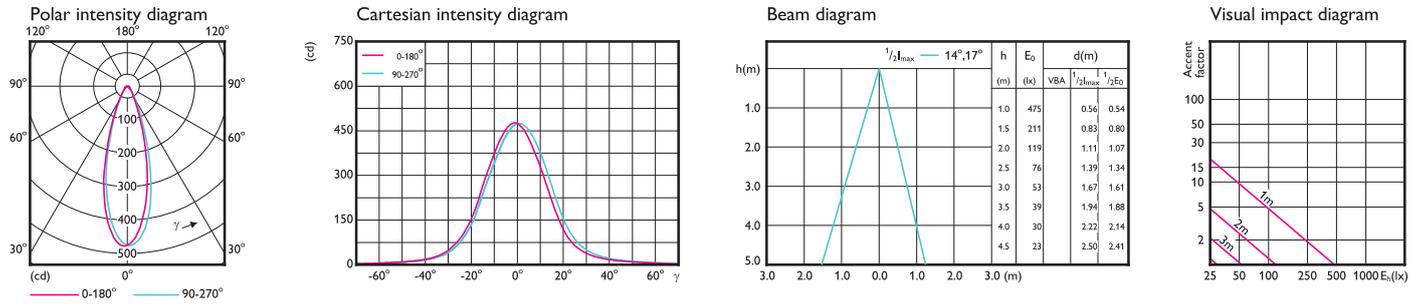
LEDspot MV 5-50W GU10 6500K



Photometric diagrams

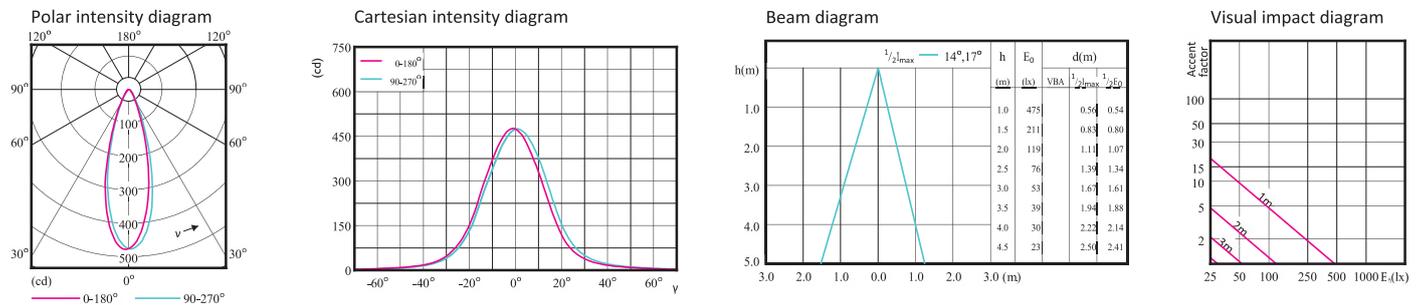
CorePro LEDspotMV 2-25W GU10 827 36D

1 x 190 lm



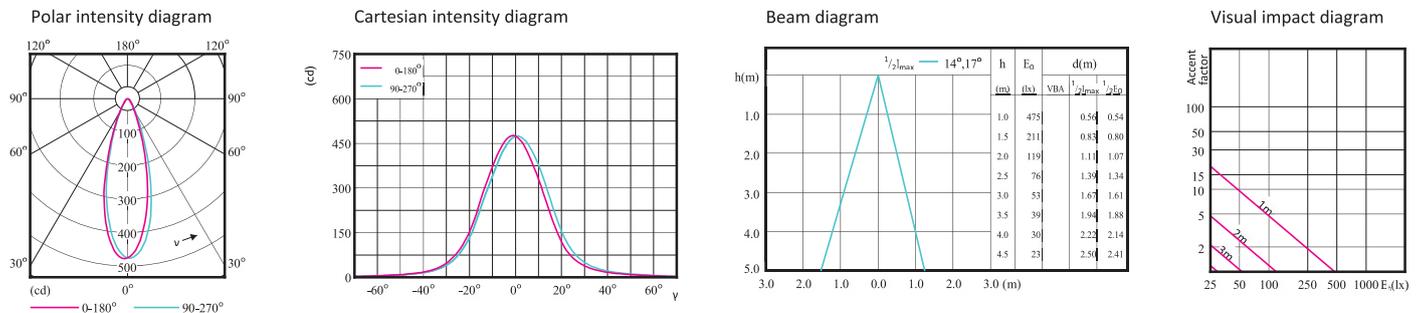
CorePro LEDspotMV 2-25W GU10 830 36D

1 x 190 lm



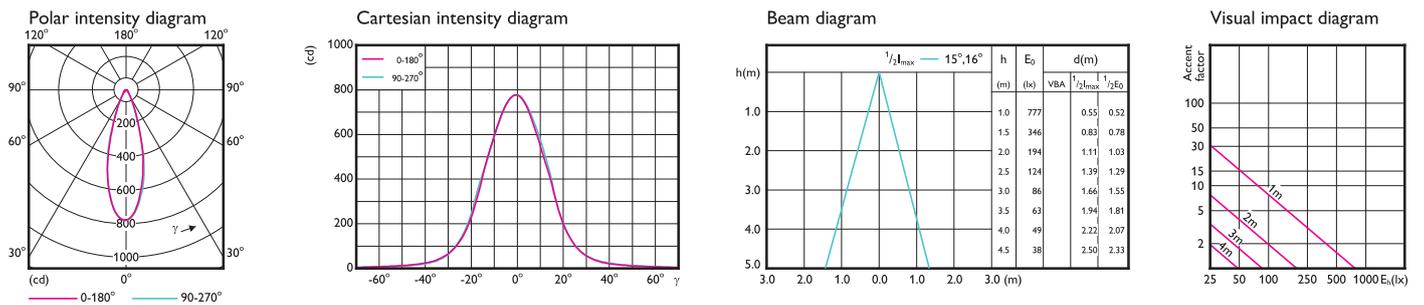
CorePro LEDspotMV 2-25W GU10 840 36D

1 x 205 lm



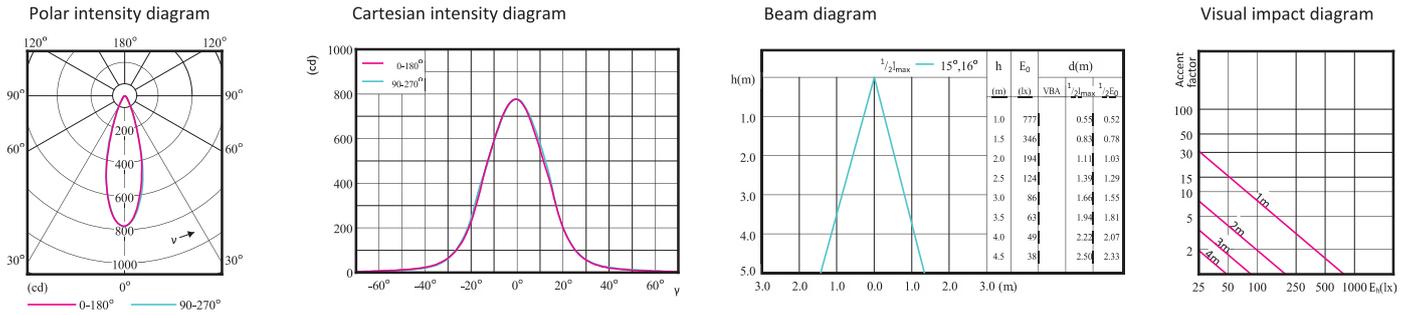
CorePro LEDspotMV 3.5-35W GU10 827 36D

1 x 275 lm



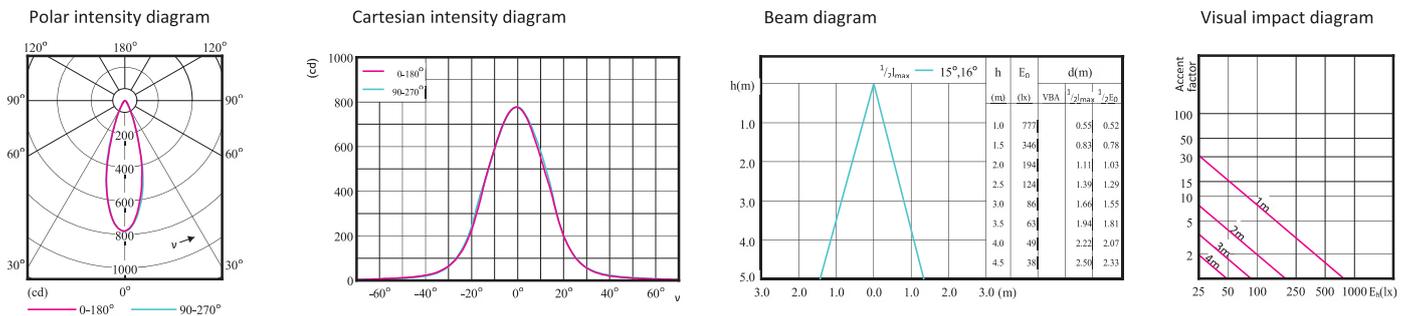
CorePro LEDspotMV 3.5-35W GU10 830 36D

1 x 275 lm



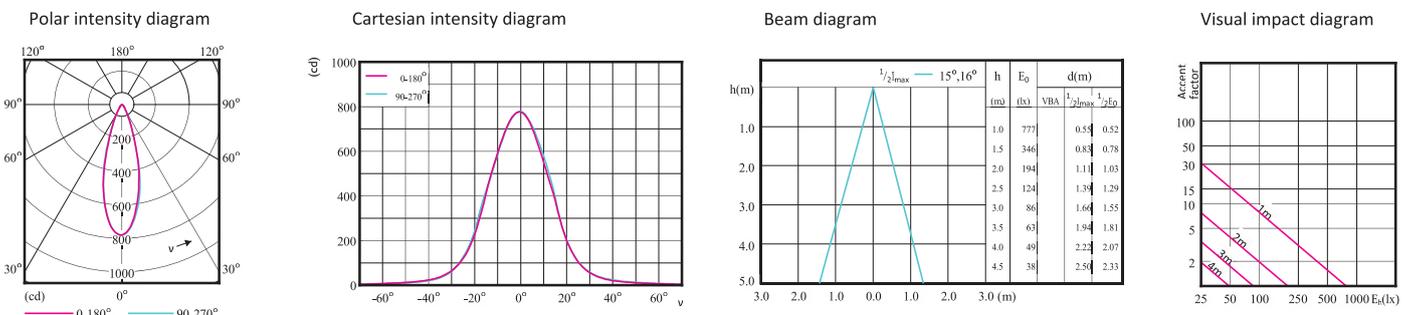
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1 x 300 lm



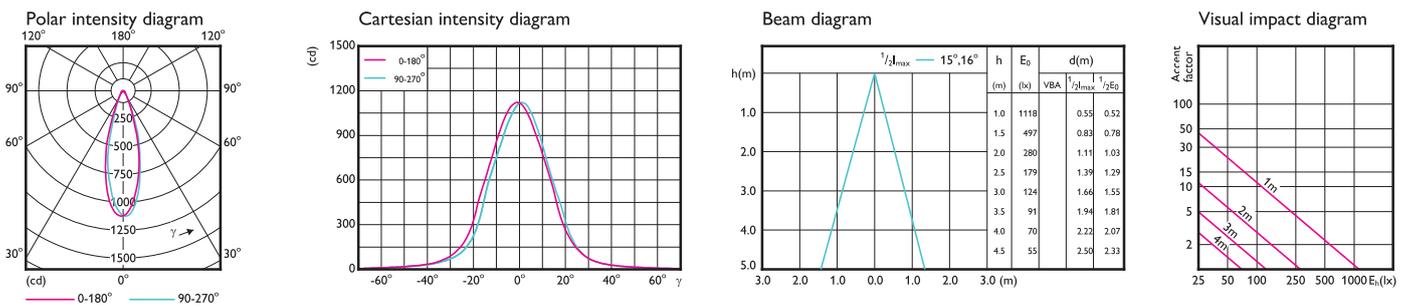
CorePro LEDspotMV 3.5-35W GU10 865 36D

1 x 310 lm



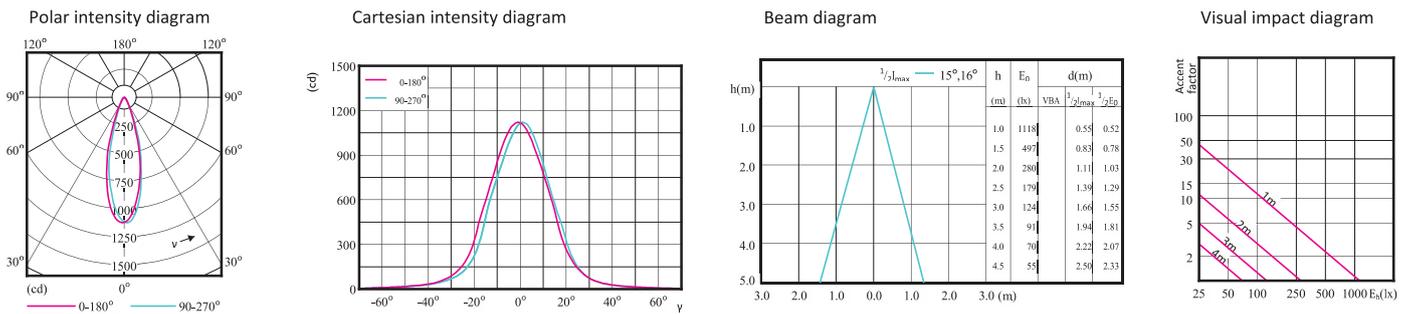
CorePro LEDspotMV 5-50W GU10 827 36D

1 x 385 lm



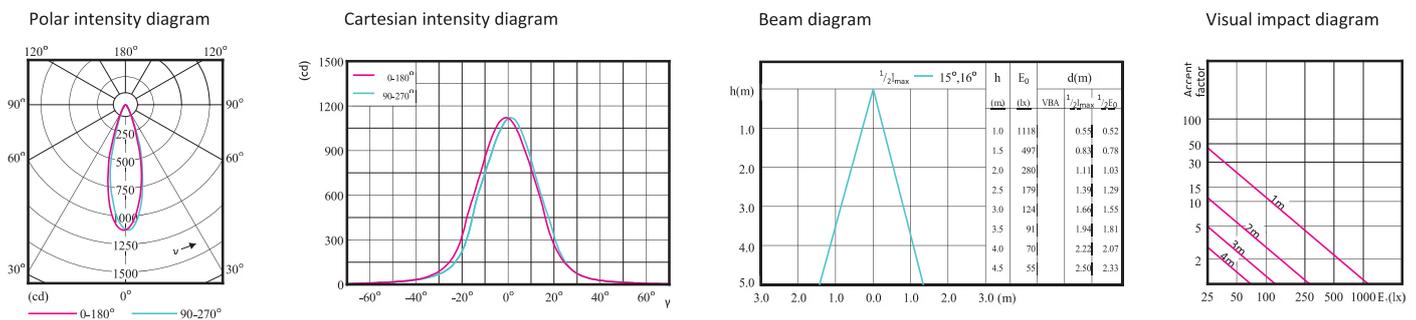
CorePro LEDspotMV 5-50W GU10 830 36D

1 x 385 lm



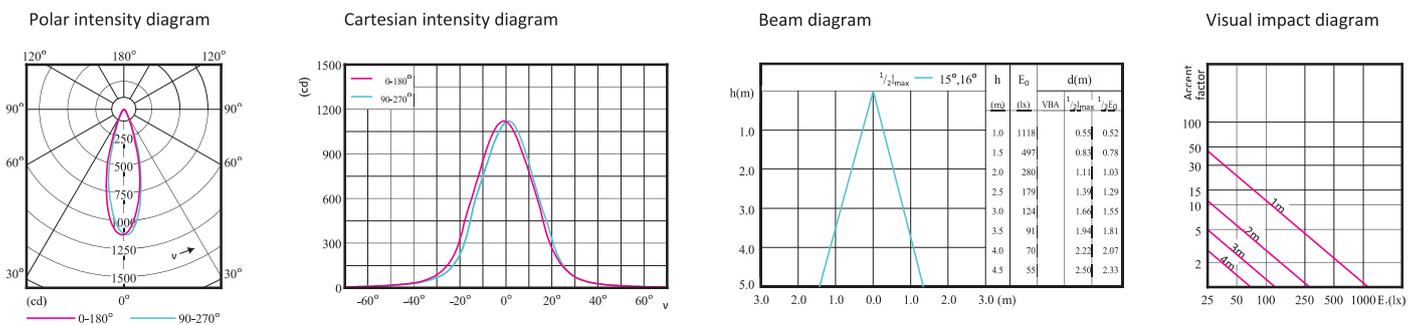
CorePro LEDspotMV 5-50W GU10 840 36D

1 x 415 lm



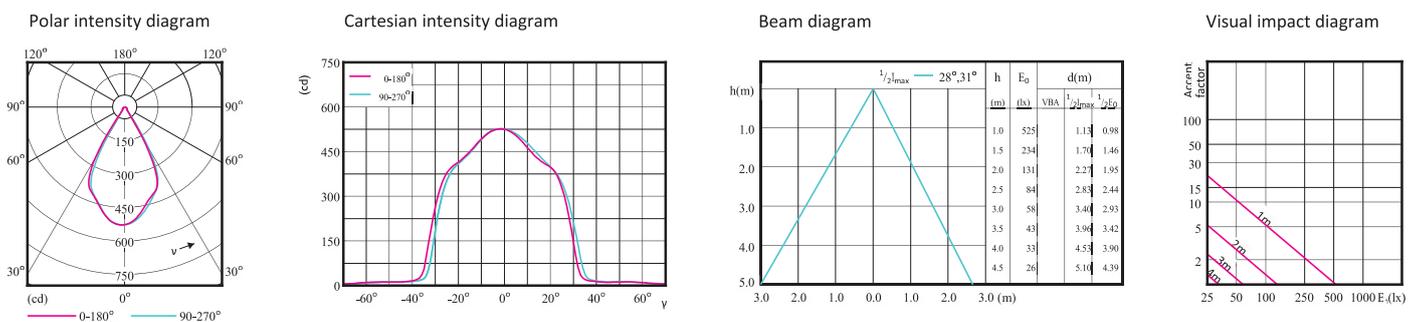
CorePro LEDspotMV 5-50W GU10 865 36D

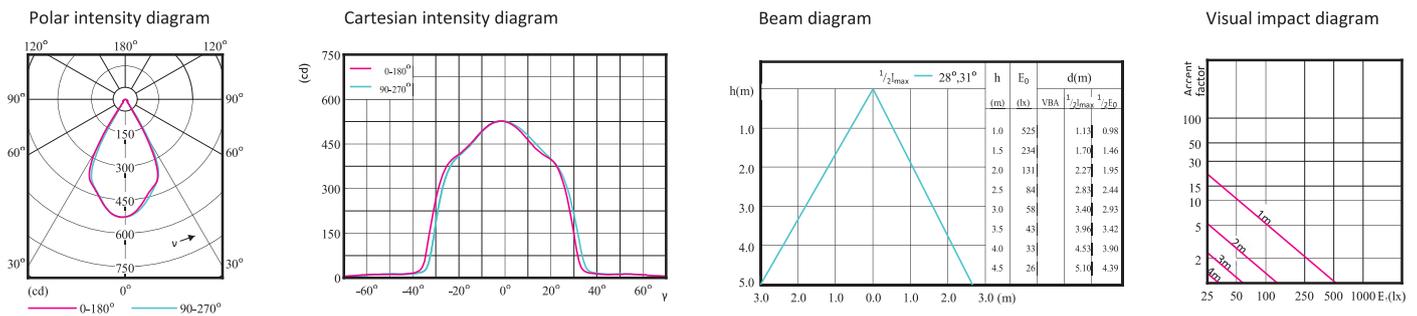
1 x 430 lm



CorePro LEDspotMV 5-50W GU10 830 60D

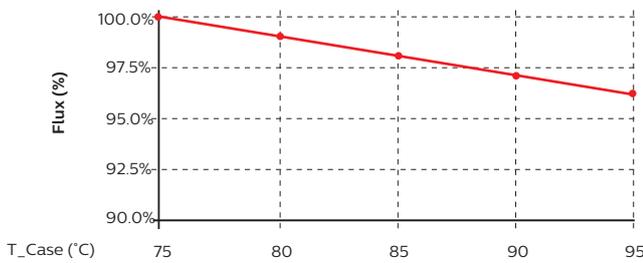
1 x 385 lm





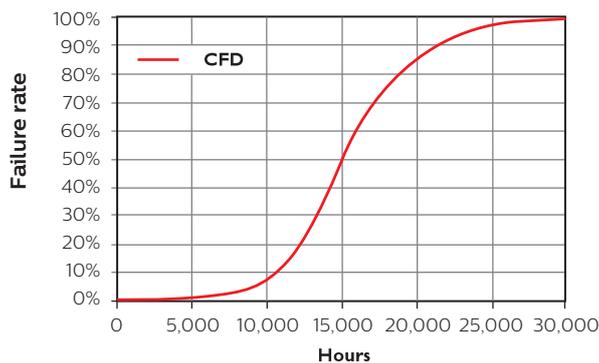
Temperature

CorePro LEDspot MV GU10 is designed for operation in all GU10 lighting installations in open fixtures (10 mm free air space is needed around the lamp housing to ensure long-life).



Lifetime and sustainability

Failure rate curve of CorePro LEDspot MV GU10



- Philips CorePro LEDspot MV GU10 has a lifetime of 15,000 hours, defined as the number of hours before 50% of the lamps will fall below 70% of their initial lumens.
- Lifetime estimation is based on the application environment condition: at room temperature (25 °C), free air burning, base down burning position in 10 mm free air to simulate an in-luminaire condition and at rated voltage



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