



# 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](http://www.philips.com/led-product-info)



# PHILIPS



## 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,
- No UV and Cool Beam (no IR)
- Environmental friendly, without Mercury or any other hazardous substances
- RoHS compliant



## Application notes

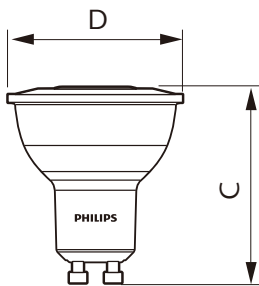
- Operating temperature range is between -20 °C and 45 °C ambient
- Only to apply in dry indoor environments and most of open fixtures with GU10 lamp-holders that offer sufficient space (10 mm free air space)
- Not intended for use with emergency light fixtures or exit lights
- For use in fixtures that 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	KSA EEI label
	V	W	W		cd	°	hours	lm	lm	lm/W			K	kWh/1000h	
CorePro LEDspotMV 3.5-35W GU10 827 36D	220-240	3.5	35	GU10	650	36	15,000	275	260	71	No	>80	2700	4	C
CorePro LEDspotMV 5-50W GU10 827 36D	220-240	5.0	50	GU10	900	36	15,000	385	350	70	No	>80	2700	5	C

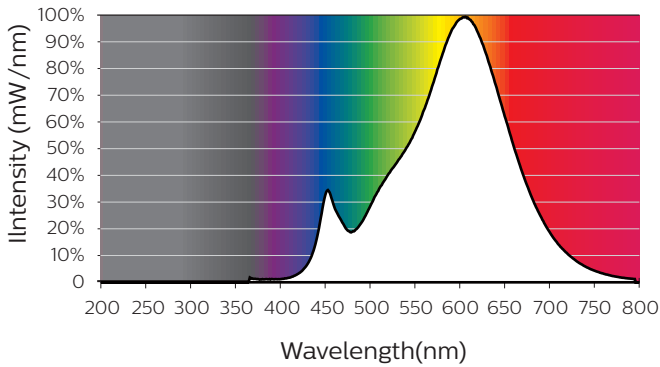
## Fixture compatibility

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

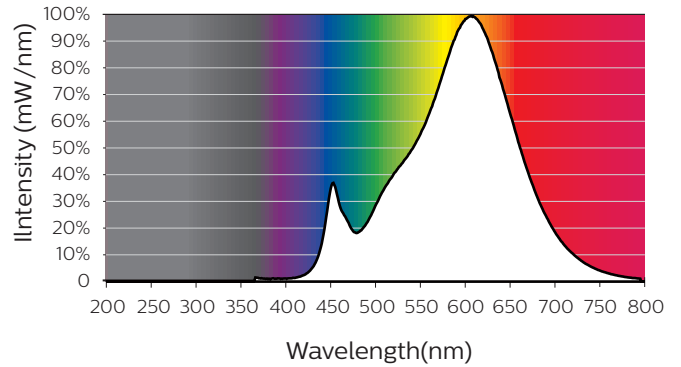


# Spectral Power Distribution

LEDspot MV 3.5-35W GU10 2700K

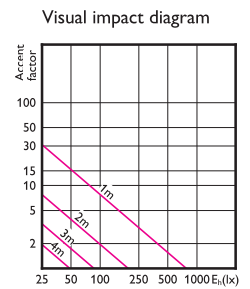
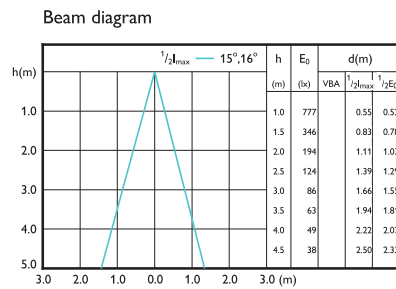
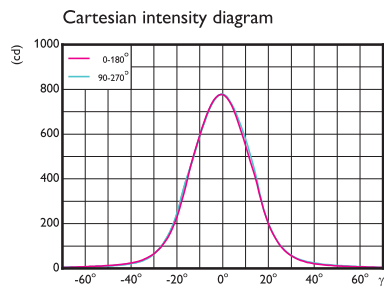
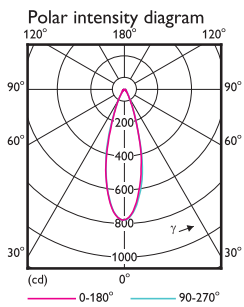


LEDspot MV 5-50W GU10 2700K



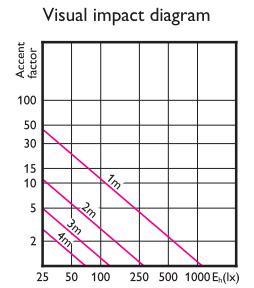
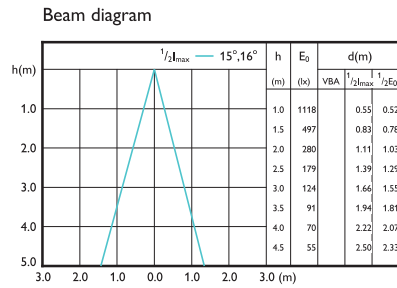
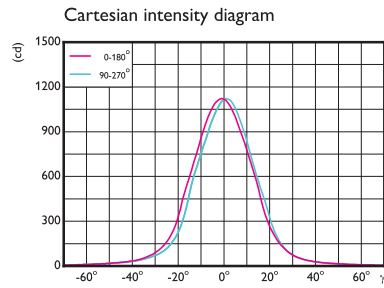
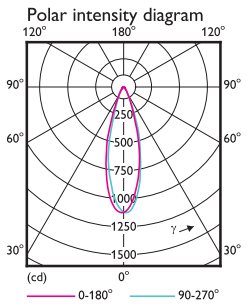
CorePro LEDspotMV 3.5-35W GU10 827 36D

1 x 275 lm



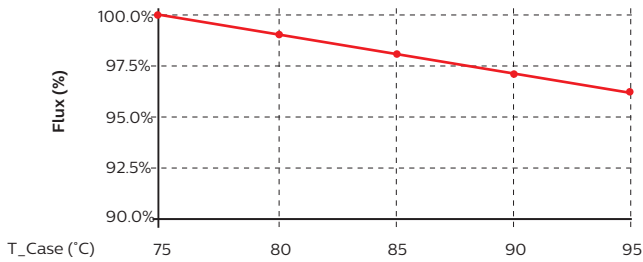
CorePro LEDspotMV 5-50W GU10 827 36D

1 x 385 lm



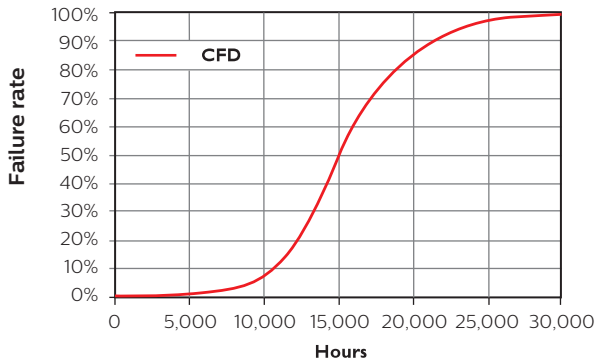
# Temperature

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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