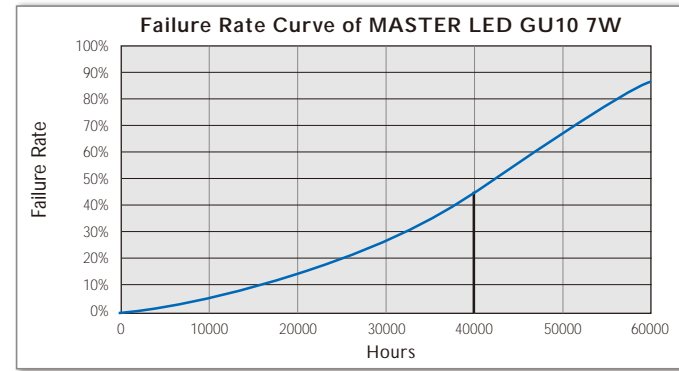
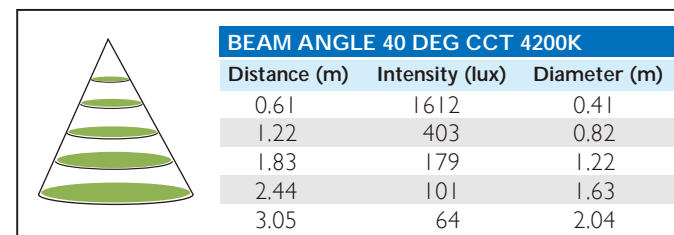
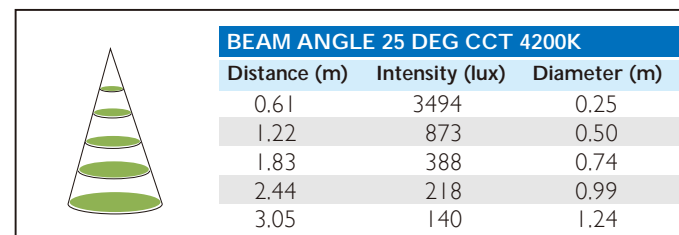
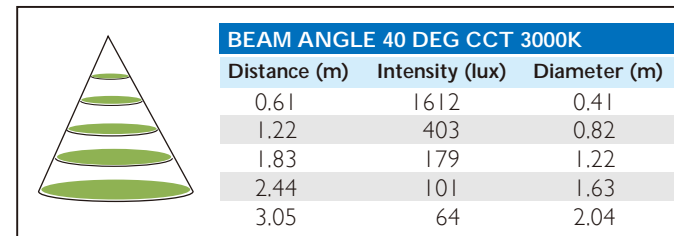
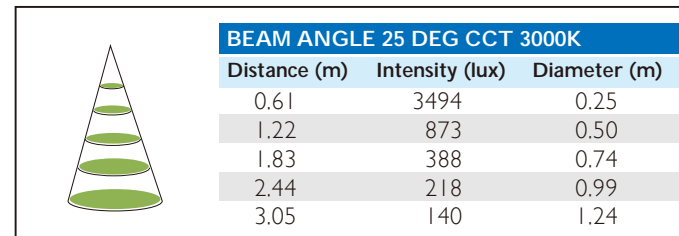
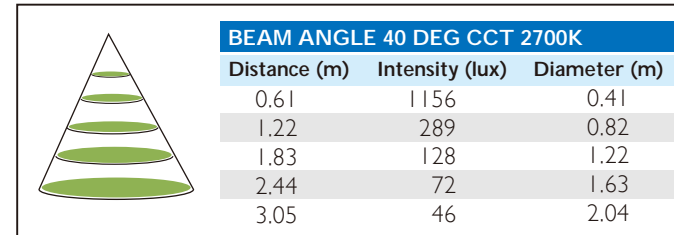
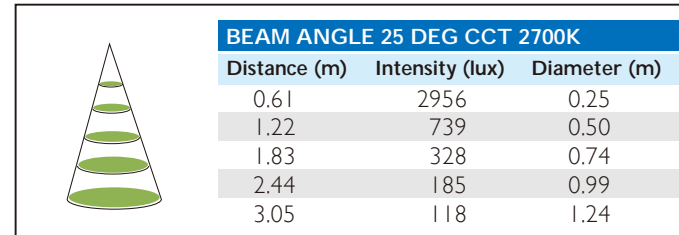


## Lifetime



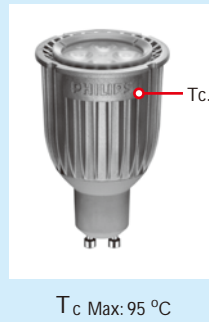
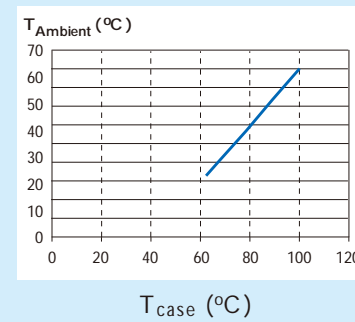
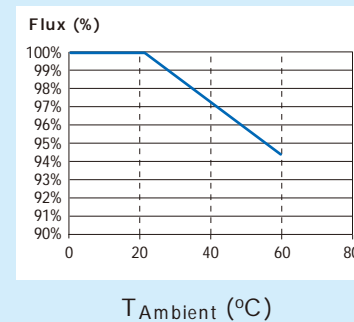
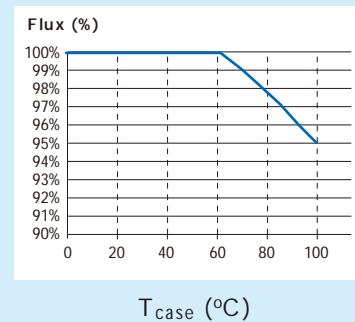
- Philips MASTER LED GU10 lamp has a lifetime of 40,000 hours, defined as the number of hours when 50% of a large group of identical lamps below 70% of its initial lumens.
- Lifetime estimation based on the application environment condition: at room temperature (25°C), free air burning, base down burning position, and at rated voltage.

## Typical Luminance

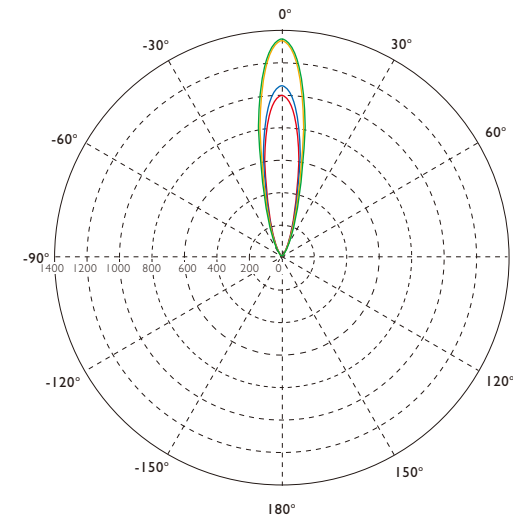
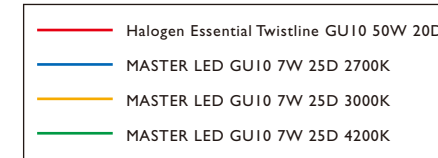


## Temperature

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



## Polar Diagram Comparison



## Referral Dimmers

NO	Brand	Man./Country	ID	Type	Load
1	CLIPSAL	Australia	E32V500	R	~500W
2	HPM	Australia	Cat400L	RL	10W~400W
3	CLIPSAL	Australia	E1031VE400		60W~400W
4	HPM	Australia	Cat300E		~300W
5	Panasonic	China	WMS549	R	~400W
6	TCL	China	LM2	R	~630W
7	ELECTREX	New Zealand	DM500	R	~500W
8	ANAM	Korea	ASW3502	R	~500W
9	SK	Korea	SKD-500	R	~500W
10	Drespa			R	60W~400W
11	NIKO		09-013	R	35W~320W
12	N&L		433/4	R	60W~400W
13	N&L		435 HAN	RL	60W~600W
14	Opus		852.39	R	60W~400W
15	Opus		852.392	RL	20W~500W

\* The dimmers in the referral list have good dimming performance at most of dimming level, but not guarantee on all levels.



# New Generation of Energy Saving Light

Philips MASTER LED GU10



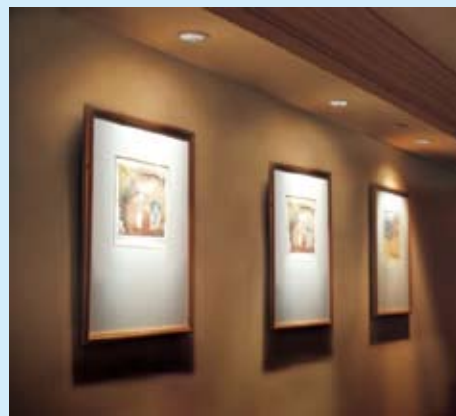
© 2009 Philips Lighting  
All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent or other industrial or intellectual property rights.

08/2009  
www.philips.com



**PHILIPS**  
sense and simplicity

# Introduction



The design of Philips MASTER LED GU10 integrates a high power LED light source with an excellent thermal management solution. This replacement lamp provides the light intensity and quality produced by traditional halogen reflector lamps up to 50W.

MASTER LED GU10 is ideal for a myriad of applications including track lighting, general architectural and landscape lighting, display case fixtures and cabinet lighting.

## Design Highlights

- Up to 85% energy saving compared to standard halogen reflector lamp
- Built-in driver long lifetime of 40,000 hours (B50,L70)
- Operates at 230V
- Highly focused beam for a clearly defined beam spread
- Options for various color temperature: warm white 2700K, 3000K, and cool white 4200K
- Dimmable with recommended dimmers
- No UV and cool beam (no IR)
- Environmental friendly, without Mercury or any other hazardous substances
- RoHS compliant

## Application Areas

Philips MASTER LED GU10 lamp is suitably designed for spot and general lighting applications in hospitality and retails.

Philips MASTER LED GU10 lamp, 7W power consumption per lamp, has a long lifetime of 40,000 hours (or equivalent to 4.5 years if lit continuously for 24hrs a day) ensuring minimum maintenance cost in hotels, restaurants, cafes and shops, especially suitable for various applications in the public areas such as:

- Corridors / Stairway / Washroom
- Lobby / Reception areas
- Display racks / Windows

## 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 (10mm free air space)
- Dimmable with most of leading edge dimmers in the market (refer to the recommended dimmer list in the last page)
- Not intended for use with emergency light fixtures or exit lights
- For use in fixtures that can structurally support a lamp weighing 0.11 kilogram

# Product Design

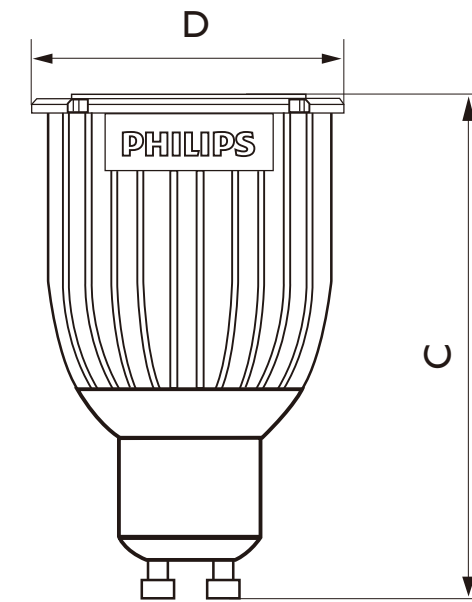
## Technical Specifications

Product name	Wattage (W)	Power Factor	Cap Base	CRI	Luminous Flux (lm)	Lifetime (hrs)	Voltage (V)	Beam Angle (°)	Color Temp.	Beam Intensity (Cd)	Dimmable
MASTER LED GU10	7	0.65	GU10	80	250	40000	230	25	2700K	1100	yes
MASTER LED GU10	7	0.65	GU10	80	290	40000	230	25	3000K	1300	yes
MASTER LED GU10	7	0.65	GU10	80	290	40000	230	25	4200K	1300	yes
MASTER LED GU10	7	0.65	GU10	80	250	40000	230	40	2700K	430	yes
MASTER LED GU10	7	0.65	GU10	80	290	40000	230	40	3000K	600	yes
MASTER LED GU10	7	0.65	GU10	80	290	40000	230	40	4200K	600	yes

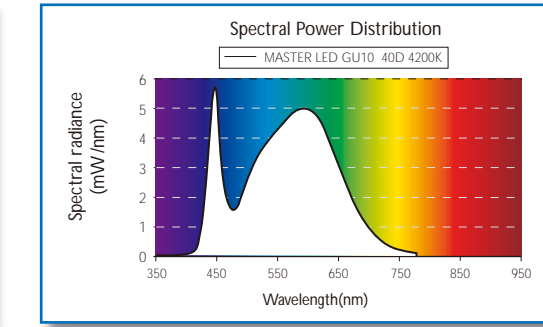
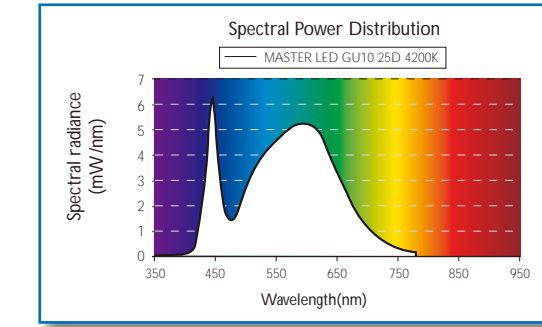
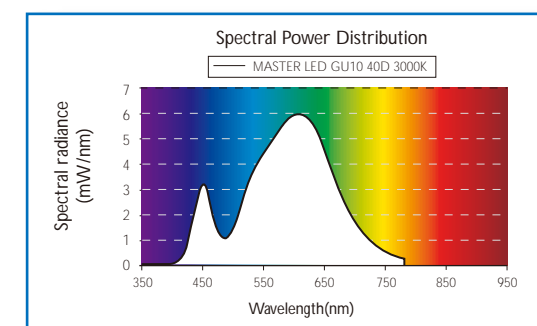
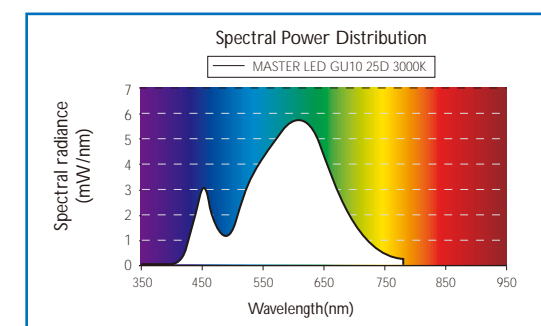
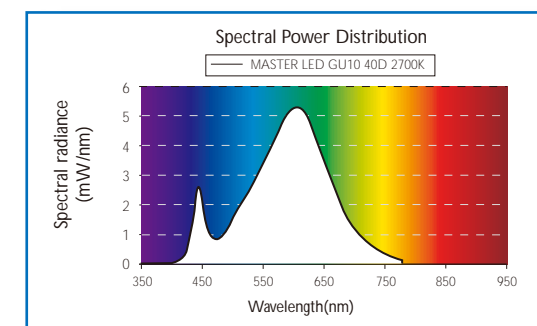
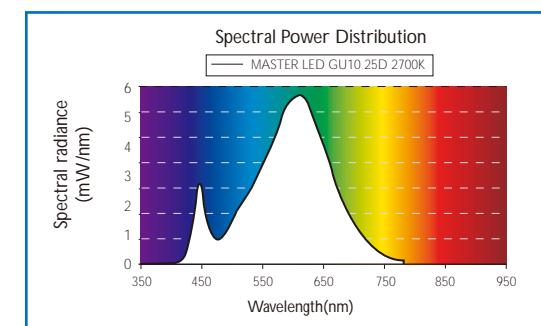
## Fixture Compatibility

Philips MASTER LED GU10 lamp is compatible with Halogen GU10 lighting fixtures. It is 26mm longer than regular halogen lamp, and in some cases, it may be required to remove the rings from the fixtures.

Type	C Overall length (mm)	D Diameter (mm)	Weight (kg)
MASTER LED GU10	80 ± 0.5	50 ± 0.15	0.11



## Spectral Power Distribution



## Photometric Diagrams

