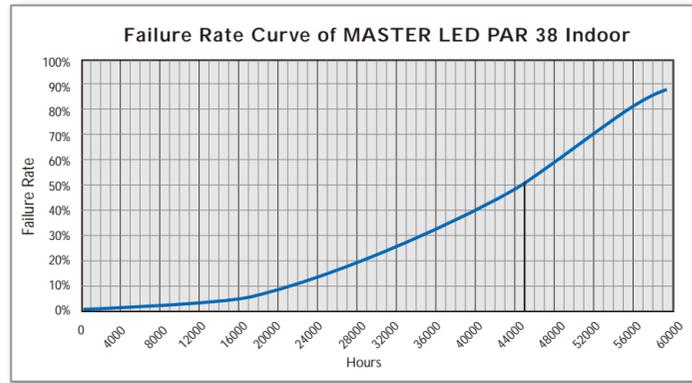
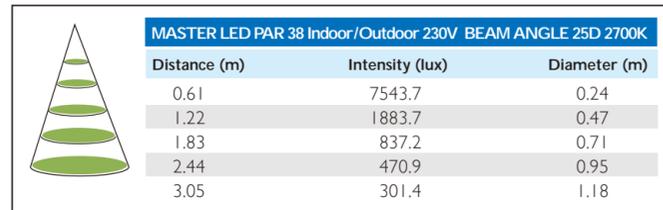


Lifetime



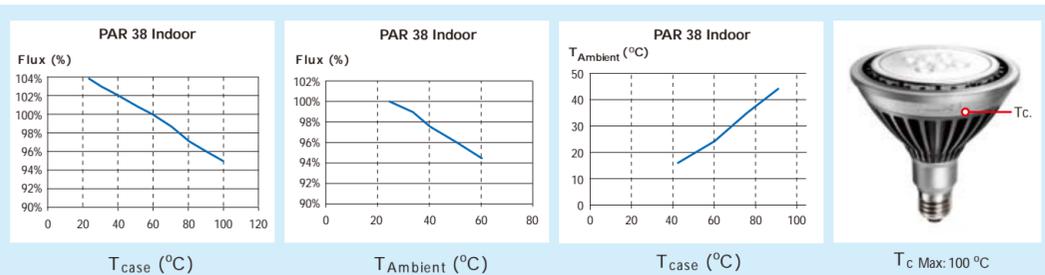
- PHILIPS MASTER LED PAR38 indoor lamp has a lifetime of 45,000 hours, defined as the number of hours when 50% of a large group of identical lamps below 70% of its initial lumens
- The MASTER LED PAR38 outdoor lamp has a lifetime of only 20,000 hours, which is limited by the lifetime of waterproof
- 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 PAR 38 is designed for operation in all PAR 38 lighting installations in open fixtures. 10mm free air space is needed around the lamp housing to ensure long-life.



© 2009 Koninklijke Philips Electronics
 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.

10/2009
 www.philips.com



New Generation of Energy Saving Light

MASTER LED PAR 38



Introduction



PAR 38 Indoor



PAR 38 Outdoor



The design of PHILIPS MASTER LED PAR 38 integrates a high power LED light source with an excellent thermal management solution in a standard halogen form-factor. This replacement lamp provides the light intensity and quality produced by traditional halogen reflector lamps of 75W.

MASTER LED PAR 38 is ideal for a myriad of applications including display case fixtures, general lighting, plus industrial OEM equipment lighting.

Design Highlights

- Up to 80% energy saving compared to standard halogen and incandescent spot lamps
- Long lifetime (B50,L70) of 45,000 hours (20,000 hours for outdoor)
- Operates at 230VAC and its form-factor is designed as a direct retrofit into PAR 38 fixtures
- High 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 Areas

PHILIPS MASTER LED PAR 38 lamp is suitably designed for spot and general lighting applications in shops and hotels.

Unlike the conventional halogen reflector lamps, PHILIPS MASTER LED PAR 38 lamp, with only 16W power consumption, has a long lifetime of 45,000 hours (20,000 hours for outdoor), ensuring minimum maintenance cost in public areas such as:

- Underwater lights with waterproof luminaire
- Corridors/Stairway
- Lobby/ Reception areas

Application Notes

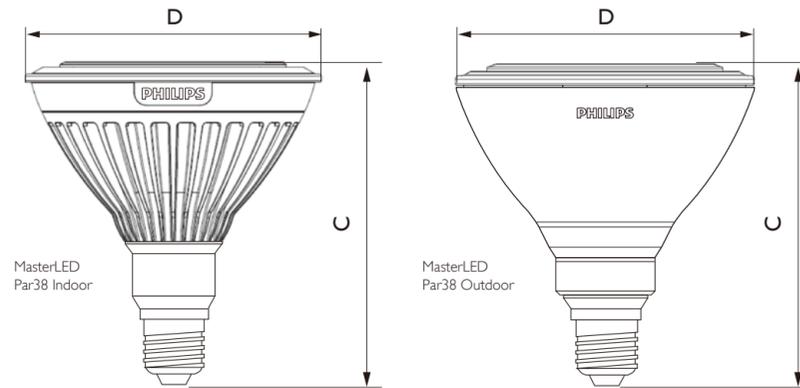
- Operating temperature range is between -20°C and 45°C ambient
- Only to apply in dry indoor environments (except the outdoor version) and open fixtures with PAR 38 lamp-holder that offers sufficient space (10mm free air space)
- Not intended for use with emergency light fixtures or exit lights
- For use in fixtures that can structurally support a lamp weighing more than half kilogram

Product Design

Technical Specifications

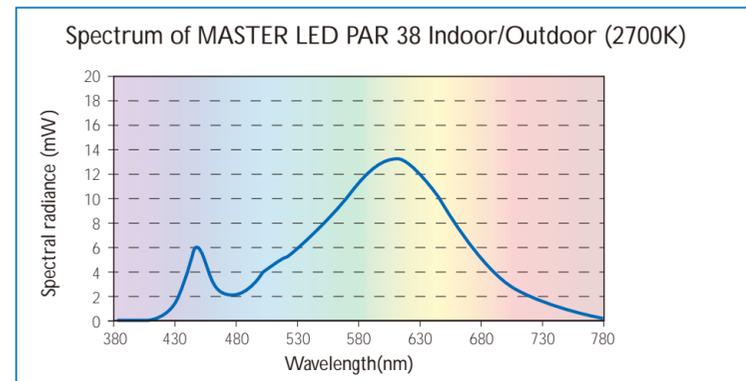
Product name	Wattage (W)	Power Factor	Cap Base	CRI	Luminous Flux (lm)	Lifetime (hrs)	Voltage (V)	Beam Angle (°)	CCT	Beam Intensity (Cd)	Dimmable
MASTER LED PAR 38 Indoor	16	0.90	E27	80	600	45000	230	25	2700K	2800	no
MASTER LED PAR 38 Outdoor	16	0.90	E27	80	600	20000	230	25	2700K	2800	no

Fixture Compatibility

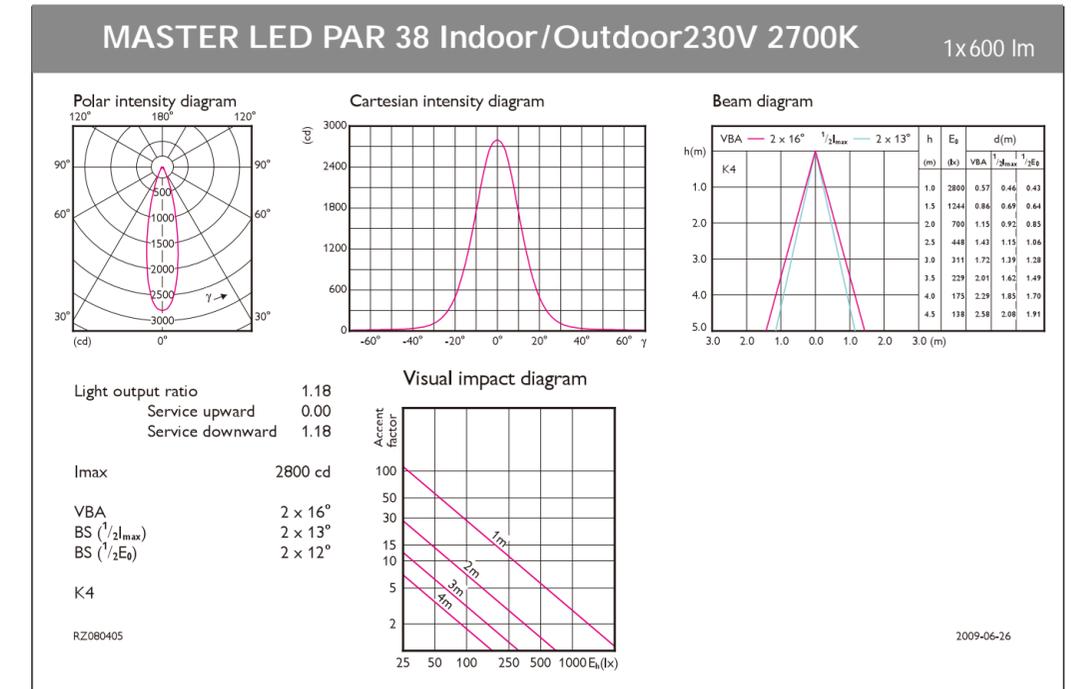


Type	C Overall length (mm)	D Diameter (mm)	Weight (kg)
MASTER LED PAR 38 Indoor	132.5	121.5	0.62
MASTER LED PAR 38 Outdoor	132.5	121.5	0.68

Spectral Power Distribution



Photometric Diagrams



Polar Diagram Comparison

