

Product Information

LED PARATHOM® PAR38 120 30°



Product Overview

| Product | Wattage | CCT in K | lm | Beam Angle | Base |
|-----------------------------|---------|----------|------|------------|------|
| LED PARATHOM® PAR38 120 30° | 17 | 2700 | 1050 | 30° | E27 |

Benefits

- 1 to 1 replacement to HAL PAR38
- Same light output as a 120W HAL, but -85% energy
- Long lifetime
- Dimmable

Key Features

- LED PAR38 lamp as replacement for Halogen PAR38 120W
- voltage: 220 – 240V
- E27 base
- beam angle 30°
- available in light color warm white 2700°K
- reduces energy consumption ~ 85%
- dimmable, working on most common dimmers down to 10%
- shock-proof and vibration-proof
- 40,000 hours lifetime
- UV and NIR radiation free
- mercury free
- 4 years Osram Guarantee¹

¹ See www.osram.com/guarantee

Product Information

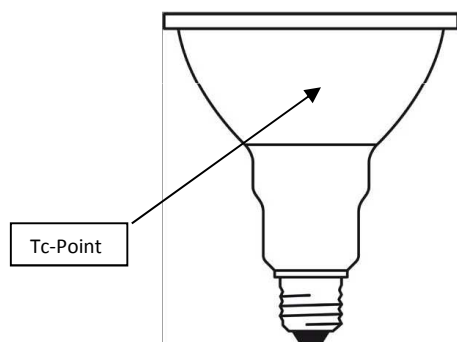
LED PARATHOM® PAR38 120 30°

Ordering Guide

| Product | Wattage | CCT | lm | Candela | Diameter | Length | Weight | Beam Angle | EAN10 | EAN40 (ship.unit) | Ship. unit |
|-----------------------------|---------|------|------|---------|----------|--------|--------|------------|---------------|-------------------|------------|
| LED PARATHOM® PAR38 120 30° | 17 | 2700 | 1050 | 3000 | 120 mm | 133 mm | 350 g | 30° | 4052899105669 | 4052899105676 | 12 |

Common Characteristics³

| Type | Average lifetime ⁴ | Switching cycles (30s on, 30s off) | Casing material | Starting time | Warm up time for 60% light | Power factor |
|-----------------------------|-------------------------------|---------------------------------------|----------------------------------|---------------|----------------------------|--------------|
| LED PARATHOM® PAR38 120 30° | 40,000 hrs | 100,000 | Metal/plastic | <0.5s | none | 0.9 |
| | Nominal current | Max. inrush current | Tc temperature max. ⁵ | CRI | Mercury max. | |
| LED PARATHOM® PAR38 120 30° | 80mA | | 80°C | 80 | 0.0 mg | |



Disposal information

- Lamps with WEEE sign can be returned at specific collection points.
- LED lamps have to be disposed as special waste.

³ Typical values. All the technical parameters apply to the entire lamp. In view of the complex manufacturing process for light emitting diodes, the typical values given above for the technical LED parameters are merely statistical values that do not necessarily correspond to the actual technical parameters of an individual product; individual products may vary from the typical values.

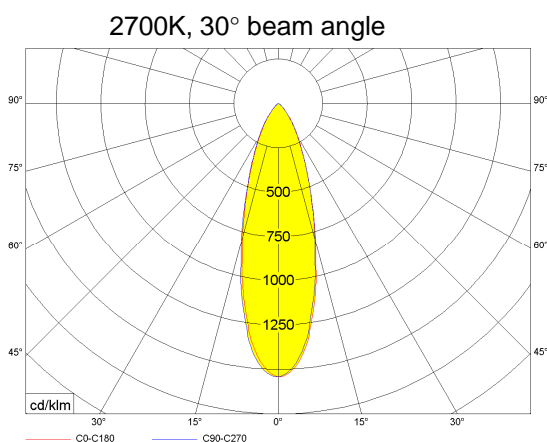
⁴ The average lifetime of LED lamps is defined as the number of hours when the light output of 50% of a large group of identical lamps goes below 70% of its initial luminous flux (L70B50, IEC60969). The lifetime is estimated at room temperature (25°C), free air burning, base up burning position and at rated voltage. To achieve a full lifetime a good heat exchange for the electronic components is required.

⁵ The Tc is defined as the highest permissible temperature which may occur on the outer surface of the LED lamp (in the indicated position) under normal operating conditions and at the rated voltage/current/power or the maximum of the rated voltage/current/power range (DIN EN 62031: 2009-01)

Product Information

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Light distribution



Application information

- hotels
- restaurant
- commercial areas
- residential
- art galleries and museum
- office space

Application Notes

1. suitable for indoor application.
2. for outdoor applications and operation in damp locations special approved fixture are required.
3. Input voltage: AC: 220-240V
4. Operating and storage temperature range between - 20°C and 40°C

Lamp conformity

- 2004/108/EC Electromagnetic compatibility (EMC)
- 244/2009 Ecodesign requirements for non-directional household lamps
- IEC/ PAS 62612 Self ballasted LED-lamps for general lighting services – Performance requirements
- 2009/125/EC Ecodesign requirements for energy related products
- 2011/65/EC Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)
- 1907/2006 Registration, Evaluation, Authorization and Restriction of Chemicals (REACH Regulation)
- 2002/96/EC Waste Electrical and Electronic Equipment Directive (WEEE)
- EN 62471 Photobiological safety of lamps and lamp systems
- IEC/TR 62471-2 Photobiological safety of lamps and lamp systems - Part 2: Guidance on manufacturing requirements relating to non-laser optical radiation safety
- EN 55015 Limits and methods of measurement of radio disturbance
- EN 61000-3-2 Electromagnetic compatibility – Limits for harmonic current emission
- EN 61000-3-3 Electromagnetic compatibility – Limitation of voltage changes, voltage fluctuations, flicker in public low voltage supply systems
- EN61547 Electromagnetic compatibility immunity requirements
- 1194/2012 Eco design requirement for directional lamps, light emitting diode lamps and related equipment (DIM II)
- IEC 62560 self-ballasted LED-lamps for general lighting services by voltage >50V – Safety specifications
- 874/2012/EU Energy labeling of electrical lamps and luminaires

Product Information

LED PARATHOM® PAR38 120 30°

Compatibility performance with dimmer ⁶

Legend

L / leading edge T / trailing edge

| Supplier | Model | Type | Dim range 1 lamp | | Comment |
|---------------------|-------------------|------|---------------------|-----|-------------------|
| | | | Min | Max | |
| Lichtregler | he T10 | L | 20% | 85% | |
| Busch | 2250 | L | 45% | 95% | |
| Junag | 225 NV DE | L | 15% | 95% | |
| Siemens | 5TC8 284 | T | 5% | 85% | |
| Merten | 577199 | T | 20% | 85% | |
| Junag | 225TDE | T | 15% | 90% | |
| Lichtregler | T39.01 | L | 15% | 85% | |
| Honyar | KT250 (A86KT250N) | L | 20% | 95% | |
| Clipsal(E20 series) | 32V 500 Series | L | 5% | 90% | Flickering at 0% |
| T&J | V2C-M2-FWH | L | 10% | 95% | Flickering at 5% |
| Merten | 5725-99 | L | 10% | 95% | |
| SIEMENS | 5TC8 256 | L | 0% | 90% | |
| GIRA | Ne.030000/I01 | L | 0% | 95% | |
| BUSCH | 6517 U-101 | L | 5% | 90% | Flickering at 0% |
| Berker | Nr.2874 | T | 10% | 90% | |
| KOPP/Sicherung | 8033 | L | 20% | 90% | |
| KOPP/Sicherung | 80,78 | T | 20% | 90% | Flickering at 95% |
| Everflourish | EF0700DC | T | 20% | 90% | |
| Everflourish | EFM700DB | L | 15% | 95% | |
| Schneider | ATD315(174200) | T | 5% | 90% | |
| Berker | Nr.2875 | L | 15% | 95% | |
| Berker | Nr.281902 | L | 0% | 95% | |
| Merten | 5771-99 | T | 20% | 90% | |
| ABB | STD50-3 | L | 15% | 90% | |
| Legrand | 775903 | T | 10% | 85% | |
| OSRAM | MCU Te250 | T | 5% | 75% | |
| Berker | 2875 | L | 15% | 95% | |
| PEHA | 433HAB | T | 15% | 85% | |
| Busch | 6519U | T | 15% | 95% | Flickering at 30% |
| CONRAD | T46 | T | 20% | 90% | |
| PEHA | D 80.433V | L | 25% | 90% | |
| GIRA | 0300 00/I01 | L | 0% | 95% | |
| GIRA | 0307 00/I02 | T | 10% | 95% | |
| Busch-Dimmer | 2247U | L | 40% | 90% | |
| BUSCH-Dimmer | 6513U-102 | T | 15% | 95% | |
| He | T46 | T | 20% | 95% | |
| EVERFLOURISH | EFM700DC | T | 15% | 80% | |
| ELSO | ATD315(174200) | T | 10% | 90% | |

⁶ Typical values The test results reflect the measurement of the individual devices that were used in tests. OSRAM does not take over any responsibility, warranty or liability that this results can also be achieved by using the devices under other conditions or when using successor models of the tested devices or different models of the same manufacturer.

The test results were achieved by using the above mentioned LED-lamp types. OSRAM does not take over any responsibility, warranty or liability that this results can also be achieved by using the devices under other conditions or when using other LED-lamp types.

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| Supplier | Model | Type | Dim range 1 lamp | | Comment |
|----------------------------|------------------|------|---------------------|-----|-------------------|
| | | | Min | Max | |
| (Feller)Schneider-Electric | 40600 RL | L | 15% | 90% | |
| (Feller)Schneider-Electric | 40300 RC | L | 15% | 90% | |
| LUMEX Loadsmart | LT1D450LS Series | L | 5% | 55% | |
| MK | S1535 | T | 15% | 95% | |
| HPM | CAT250L HPM | T | 25% | 75% | |
| HPM | CAT400T HPM | T | 10% | 80% | |
| Clipsal | E30 (32V500M) | L | 0% | 95% | |
| Bticino | SM9350S | L | 0% | 95% | |
| Panasonic | WEG57513K | L | 5% | 85% | Flickering at 0% |
| Honyar 鸿雁 | KT150 | L | 20% | 95% | |
| Clipsal | 31E800T | L | 15% | 90% | |
| BULL | B6GD100 | L | 0% | 95% | |
| Panasonic | WMS549 | L | 0% | 95% | |
| CLIPSAL | E84752D500 | L | 25% | 90% | |
| CLIPSAL | J201DST600 | T | 15% | 95% | |
| Panasonic | WEJ57515 | L | 0% | 90% | Flickering at 10% |
| HPM | CAT250T HPM | T | 10% | 80% | |
| HPM | CAT200L HPM | T | 15% | 75% | |
| DETA | 6021 | L | 0% | 95% | Flickering at 15% |

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