

Product Information

LED STAR PAR 38



Product Overview

Product	Wattage	CCT	lm	Beam Angle	Base
SPAR38 12024 12W/827 230V E27 10X1 OSRAM	12	2700K	1050 ¹	24°	E27

Benefits

- Up to 90% Energy Saving enables extremely fast payback
- Easy Installation enables low budget and fast renovation without changing the total lighting system
- Install and Forget (>25kh lifetime)
- Suitable for outdoor and indoor application (see application notes)

Key Features

- 12W LED lamp as high-quality replacement of 120W halogen lamp
- E27 base
- 220-240V AC input voltage
- Colour consistency: <6 Standard Deviation Colour Matching
- 25,000 hours lifetime²
- UV and NIR radiation free
- Mercury free

¹ 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.

² 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.

For lamps with a weight significantly higher than that of the lamps for which they are a replacement, attention should be drawn to the fact that the increased weight may reduce the mechanical stability of certain luminaires and lampholders and may impair contact making and lamp retention.

Product Information

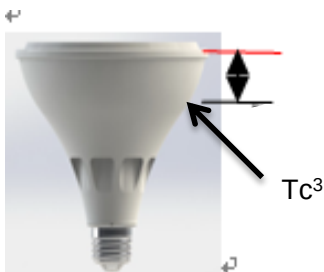
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Ordering Guide

Product	Wattage	CCT	lm	Candela	Diameter	Length	Weight	Beam Angle	EAN10	EAN40 (ship.unit)	Ship. unit
SPAR38 12024 12W/827 230V E27 10X1 OSRAM	12	2700K	1050	5850cd	122 mm	130mm	500g	24°	4052899281516	4052899281523	10

Common Characteristics³

Type	Average lifetime ³	Switching cycles (30s on, 30s off)	Casing material	Starting time	Warm up time for 60% light	Power factor
SPAR38 12024 12W/827 230V E27 10X1 OSRAM	25,000 hrs	100,000	Plastic	<0.5	<0.5	>0.8
Type	Nominal current	T _c temperature max.5	CRI	Mercury max.		
SPAR38 12024 12W/827 230V E27 10X1 OSRAM	57mA	85° 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.

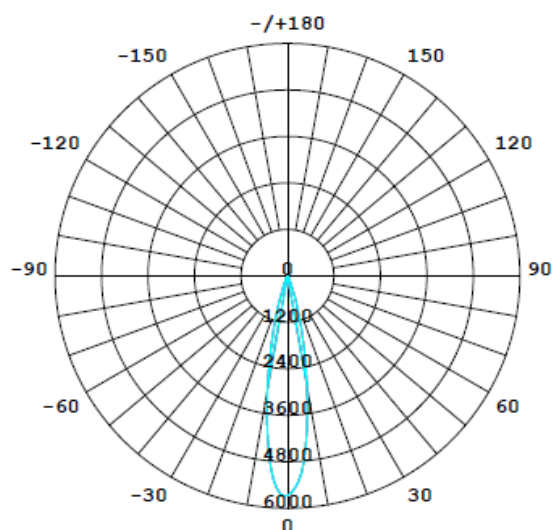
³ The T_c is defined as the highest permissible temperature which may occur on the outer surface of the LED lamp (in the indicated position) under normal operating conditions and at the rated voltage/current/power or the maximum of the rated voltage/current/power range (DIN EN 62031: 2009-01)

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Light distribution

LED STAR PAR38 10024 beam angle



Application information

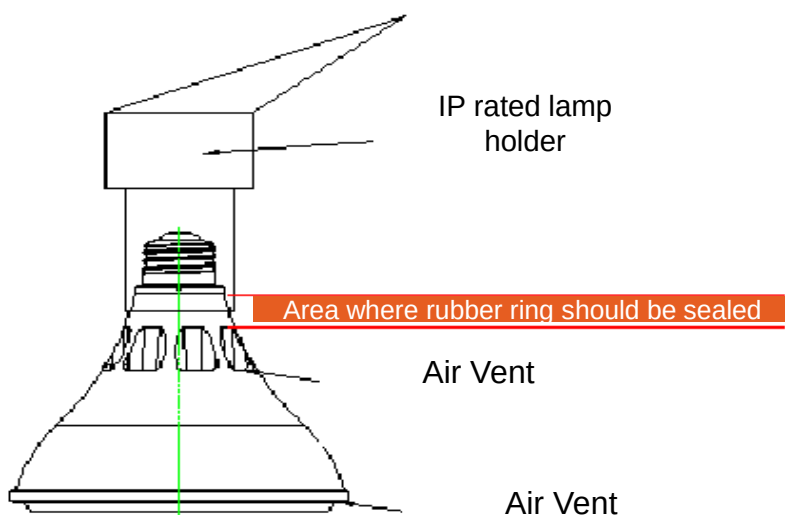
- Hospitality
- Restaurant
- Commercial areas
- Residential
- Art galleries and museum
- Outdoor (With IP44 fixture)

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Application Notes

- for outdoor applications and operation in damp locations:
 - a complete waterproof system (fixture with lamp) is required to avoid water entering into fixture which may damage the lamp and possibly create an electrical shock hazard. Make sure the lamp is installed in high quality, properly sealed system up to IP44 rate.
 - only applicable in lamp downwards application (within 120 degree)
- input voltage: AC 220-240V
- operating and storage temperature range between -20° C and 40° C



Lamp conformity

- IEC 55015 (Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment)
- IEC 60038 (IEC standard voltages)
- IEC 60061 (Lamp caps and holders)
- IEC 60357 (Tungsten halogen lamps (non vehicle) - Performance specifications)
- IEC 60432 (Incandescent lamps - Safety specifications)
- IEC 60630 (Maximum lamp outlines for incandescent lamps)
- IEC 60968 (Self-ballasted lamps for general lighting services - Safety requirements)
- IEC 60969 (Self-ballasted lamps for general lighting services - Performance requirements)
- EN 61000-2004/108/EC Electromagnetic compatibility
- IEC 61341 (Method of measurement of centre beam intensity and beam angle(s) of reflector lamps)
- EN 61347-1 Lamp controlgear - Safety requirements
- IEC 61547 (Equipment for general lighting purposes - EMC immunity requirements)
- IEC 62560 Self ballasted LED lamps for GL services
- EN 62471 Photobiological safety of lamps
- IEC 62612 (Self-ballasted LED-lamps for general lighting services > 50 V - Performance requirements)
- EN 874/2012 Energy labelling of electrical lamps and luminaires