

LED SUPERSTAR PAR16 50 36° Advanced

Product description



Product Offering

Type reference	Wattage	CCT	Beam Angle	CRI
PAR16 50 36°ADV 827	7W	2700K	36°	80
PAR16 50 36°ADV 840	7W	4000K	36°	80

- 1 to 1 replacement to HAL PAR16
- Same light output as a 50W HAL, but -85% energy
- Long lifetime
- Dimmable

1. Key Features and Benefits

- LED PAR16 lamp as replacement for Halogen PAR16 50W
- voltage: 220 – 240V
- GU10 base
- beam angle 36°
- available in light color warm white 2700K, as well as cool white 4000K
- reduces energy consumption ~ 85%
- dimmable, working on most common dimmers down to 10%
- light-to-the-back effect
- shock-proof and vibration-proof
- 25,000 hours lifetime
- UV and NIR radiation free
- mercury free
- 4 years Osram Guarantee¹

¹ See www.osram.com/guarantee

2. Common Characteristics³

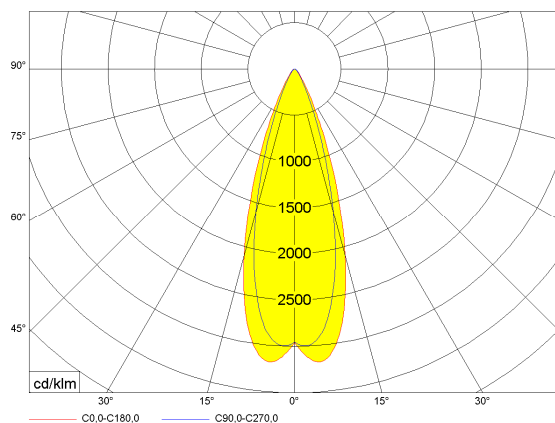
Average lifetime ⁴		Switching cycles (30s on, 30s off)	Casing material	Starting time	Warm up time for 60% light	Power factor
25,000h		100.000	Metal/plastic	≤0.5s	none	0.75
Mercury max.	Base Type	Length	Diameter	Weight	Tc temperature max. ⁵	Nominal current
0.0mg	GU10	58 mm	50 mm	75g	92,5°	40mA

3. Characteristic Range³

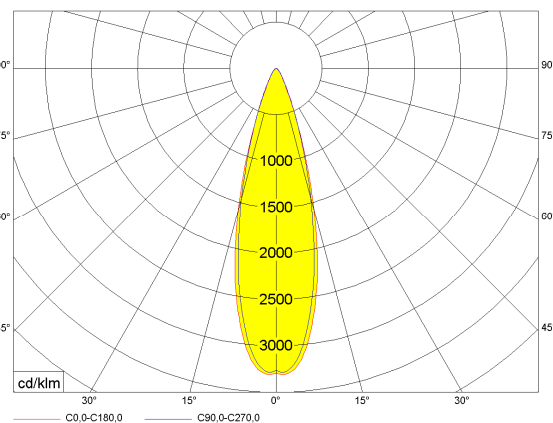
Type reference	Wattage	Luminous flux	Luminous intensity	Correlated colour temperature	Standard Deviation of Color Matching	Color Rendering Index	Beam angle
PAR16 50 36°ADV 827	7W	385lm	950cd	2700K	<6	80	36°
PAR16 50 36°ADV 840	7W	400lm	1000cd	4000K	<6	80	36°

4. Light Distribution Curve

PAR16 50 36°ADV 827

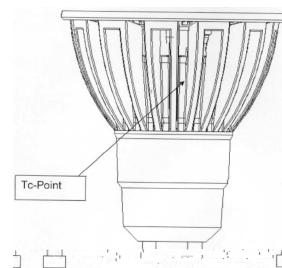


PAR16 50 36°ADV 840



5. Mounting information

Good heat exchange supports ideal performance



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)

6. Disposal information

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



7. Application Information

Applications

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

Application Notes

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

8. Cost savings: example

Reference product description	Similar halogen product	Watts saved	Cost saved after 3 year	Cost saved after 5 years	Cost saved after 25 years
PAR16 50 36°ADV 827	PAR16 halogen 50W	43W	22 €	48€	286€

*Based on the assumption of 2,7hours/day on and an energy cost of 0.27€/kWh

**Recommended price 17 €

9. Ordering Guide

Type reference	Product Number – 1pcs	Product Number – 1 shipping unit	Number of pcs / ship. unit
PAR16 50 36°ADV 827	4008321882714	4008321882721	6
PAR16 50 36°ADV 8 40	4008321882745	4008321882752	6

10. Lamp conformity

2004/108/EC Electromagnetic compatibility (EMC)

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, Authorisation 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

