

OSRAM LED PERFORMANCE PAR 16 50



Highlights

- Easy replacement of halogen lamps due to compact full glass design and single optic
- TruWave Technology is defined as LEDVANCE unique technology which can offer more natural and comfortable light.
- Premium light quality thanks to high color rendering index and narrow binning
- Dimming towards your ideal ambience
- Very high color rendering : Ra 90
- Long lifetime, up to 25,000hrs

Application Areas:

- Hospitality
- Restaurant
- Residential
- Art galleries and museum
- Homes

Advancing Light

LEDVANCE is one of the World's leaders in general lighting for lighting professionals as well as end users, offering



A broad variety of LED luminaires



Advanced LED lamps



Intelligent, networked Smart Home & Smart Building solutions



Traditional light sources

LEDVANCE is licensee of product trademark OSRAM for lamps products in general lighting.



LED PERFORMANCE PAR 16 50



We bring nature light!

Life need natural light

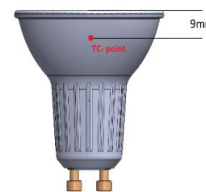
- It makes us feel warm, safe, relaxed, content, happy & energized. Natural Light gives us life.
- Life needs Natural Light after the sun goes down.
- Life needs Natural Light to combat feelings of sadness during dark winter months.
- Life needs Natural Light to help nighttime workers do their best.

Benefits of natural light product

- LEDVANCE SPOT lamp mimics the natural light spectrum and wavelength intensity to support an improved sleep/wake cycle.
- With its balanced blue light spectrum, it is beneficial for boosting attention, reaction times and mood
- Truwave technology is defined as LEDVANCE unique technology which can offer more natural & comfortable light

Application Note

- Suitable for indoor application.
- Switch off the light during installation
- Input voltage: 220-240V
- Frequency: 50-60HZ
- Storage temperature & humidity conditions (-20°C up to +80°C, at max. 95% relative humidity)
- Operating temperature & humidity conditions (-20°C up to +30°C, at max. 95% relative humidity)



Disposal Information

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



Product Information

LED PERFORMANCE PAR 16 50



Product Overview¹

Product Name	Model Name	Wattage	Input Voltage	CCT	Lm
PAR16 50 P 5.5W 927 24° GU10	AC32224	5.5W	220V-240V	2700K	380lm
PAR16 50 P 5.5W 927 36° GU10	AC32225	5.5W	220V-240V	2700K	380lm
PAR16 50 P 5.5W 930 36° GU10	AC32221	5.5W	220V-240V	3000K	380lm
PAR16 50 P 5.5W 940 36° GU10	AC32222	5.5W	220V-240V	4000K	400lm
PAR16 50 P 5.5W 965 36° GU10	AC32223	5.5W	220V-240V	6500K	400lm
PAR16 50 P 5.5W 930 60° GU10	AC32226	5.5W	220V-240V	3000K	380lm
PAR16 50 P 5.5W 930 60° GU10	AC32227	5.5W	220V-240V	3000K	380lm
PAR16 50 P 5.5W 965 60° GU10	AC32228	5.5W	220V-240V	6500K	400lm
PAR16 50 P 5.5W 965 60° GU10	AC32229	5.5W	220V-240V	6500K	400lm

Benefits

- Easy replacement of halogen lamps due to compact full glass design and single optic
- Premium light quality thanks to high color rendering index and narrow binning
- Free of multiple shadows for an excellent accent lighting
- Dimming towards your ideal ambience
- Up to 89% Energy Saving, spend little and save a lot
- Install and forget: assured by Germany quality standard

Key Features

- Full glass design, elegant appearance
- Very high color rendering: Ra 90
- Color consistency: ≤5 Standard Deviation Color Matching
- Uniform and clean beam thanks to the innovative single optics
- Perfect Fit, 1:1 halogen outline ensures easy installation
- Excellent dimmer compatibility
- 220-240V AC input voltage
- UV and NIR radiation free
- Mercury free
- 25,000 hours lifetime²

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 L70B50 is the average operating life of the LED Lamp during which the luminous flux is greater than or equal to 70% of the initial luminous flux, for 50% of the population. 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

LED PERFORMANCE PAR 16 50

Ordering Guide

Product	Wattage	CCT	Lm	Candela	Diameter	Length	Weight	Beam Angle	EAN10	EAN40	Ship.
										(ship unit)	unit
LPPAR165024 5.5W/927230V GU1010X1AR7OSRAM	5.5W	2700K	380lm	1200cd	51mm	52mm	41g	24°	4058075587359	4058075587366	10
LPPAR165036 5.5W/927230V GU1010X1AR7OSRAM	5.5W	2700K	380lm	750cd	51mm	52mm	41g	36°	4058075587373	4058075587380	10
LPPAR165036 5.5W/930230V GU1010X1AR7OSRAM	5.5W	3000K	380lm	350cd	51mm	52mm	41g	36°	4058075587137	4058075587144	10
LPPAR165036 5.5W/940230V GU1010X1AR7OSRAM	5.5W	4000K	400lm	350cd	51mm	52mm	41g	36°	4058075587199	4058075587205	10
LPPAR165036 5.5W/965230V GU1010X1AR7OSRAM	5.5W	6500K	400lm	350cd	51mm	52mm	41g	36°	4058075587335	4058075587342	10
LPPR1650605.5W/930230VG U1010X1AR7AUOSRAM	5.5W	3000K	380lm	350cd	51mm	52mm	41g	60°	4058075587397	4058075587403	10
LPPR1650605.5W/930230VG U108X3AR7AUOSRAM	5.5W	3000K	380lm	350cd	51mm	52mm	41g	60°	4058075587434	4058075587441	24
LPPR1650605.5W/965230VG U1010X1AR7AUOSRAM	5.5W	6500K	400lm	350cd	51mm	52mm	41g	60°	4058075587458	4058075587465	10
LPPR1650605.5W/965230VG U108X3AR7AUOSRAM	5.5W	6500K	400lm	350cd	51mm	52mm	41g	60°	4058075587472	4058075587489	24

Common Characteristics³

Type	Average lifetime ⁴	Switching cycles (30s on, 30s off)	Casing material	Starting time	Warm up time for 95% light	Power factor
LED PERFORMANCE PAR16 50	25,000 hrs	100,000	Glass	<0.5 s	<0.5 s	0.7

Type	Nominal current	Tc temperature max. ⁵	CRI	Mercury max.	Standard deviation of color matching	Ambient temperature range
LED PERFORMANCE PAR16 50	33 mA	≤85°C @ Ta 40°C	90	0.0 mg	<5 SDCM	-20..+40 °C

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.

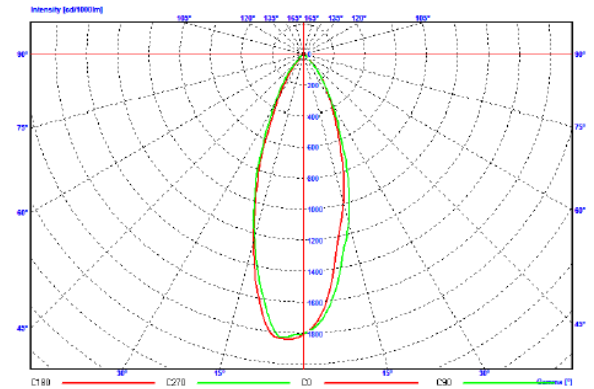
⁴ L70B50 is the average operating life of the LED Lamp during which the luminous flux is greater than or equal to 70% of the initial luminous flux, for 50% of the population. The lifetime is estimated at room temperature (25° C), free air burning, base up burning position and at rated voltage.

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)

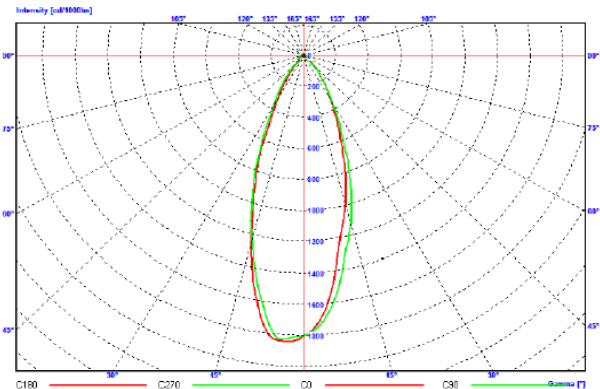
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LED PERFORMANCE PAR16 50

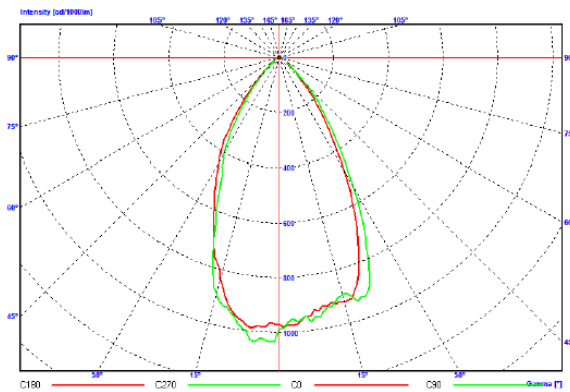
Light Distribution



PAR16 50 P 5.5W 24° GU10

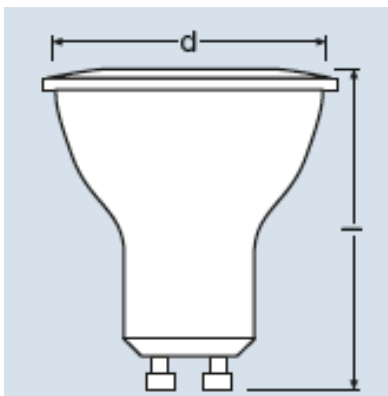


PAR16 50 P 5.5W 36° GU10



PAR16 50 P 5.5W 60° GU10

Lamp Dimension



	PAR16
D (mm)	51
l (mm)	52

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Lamp conformity

- CISPR 15: 2013 + A1: 2015 (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 62560 (Self-ballasted LED-lamps for general lighting services by voltage > 50 V -Safety specifications - Safety requirements)
- IEC 60969 (Self-ballasted lamps for general lighting services - Performance requirements)
- IEC 61341 (Method of measurement of centre beam intensity and beam angle(s) of reflector lamps)
- IEC 61547 (Equipment for general lighting purposes - EMC immunity requirements)
- IEC 62612 (Self-ballasted LED-lamps for general lighting services > 50 V – Performance requirements)
- Commission Regulation No 244/2009 (1194/2012) implementing Directive 2005/32/EC (2009/125/EC) of the European Parliament and of the Council with regard to ecodesign requirements for non-directional household lamps (directional household lamps)

Product Information

LED PERFORMANCE PAR 16 50 927/ 930/ 940/ 965


Compatibility performance with dimmer ⁶ (Single lamp & Four Lamps)

Legend **APM dimmer**

L/Leading edge dimmer

T/Trailing edge dimmer

U/Universal Dimmer

Legend						PERFORMANCE PAR16 50 24° 36° 60°	
Very good dimmability with indicated number of lamps (dimming range greater than 75%)						 EAN / Basic Code	
Limited dimmability with indicated number of lamps (dimming range smaller than 75%)							
Undesired dimmability							
Not tested							
4058075587359 / AC32224 4058075587373 / AC32225 4058075587137 / AC32221 4058075587199 / AC32222 4058075587335 / AC32223 4058075587397 / AC32226 4058075587434 / AC32227 4058075587458 / AC32228 4058075587472 / AC32229							
Dimmer						Number of Lamps	Dimming range
Brand	Model	Voltage range	Power	Type			
Clipsal	E30 (32V500M) L500VA	230V/50Hz	500W	L	100-0%	100-0%	
TCL-Legrand	V8051-M	230V/50Hz	40-630W	L	100-0%	100-0%	
Panasonic	WEG57813	230V/50Hz	40-300W	L	100-0%	100-0%	
LUMEX	LOADSMART LT1D450LS	230V/50Hz	500VA	T	100-10%		
Schneider-Clipsal	KB31RD400	230V/50Hz	400W	L	100-0%	100-0%	
Clipsal	32E450UDM	230V/50Hz	450W	T	100-10%	10-0%	
HPM	CAT400T HPM	230V/50Hz	400W	T		61-0%	
Anam / Legrand	ASW3000H	230V/50Hz	1000W	T		86-0%	
Trader	Dimpala	230V/50Hz	400W	U	10-0%	38-0%	
Clipsal	32ELEDM	230V/50Hz	400W	T	100-0%	100-0%	
Siemens	5UH8622-3NC01	230V/50Hz	25-400W	L	100-10%	100-0%	
Schneider-Electric	C460	230V/50Hz	400W	L	100-0%	100-0%	
Schneider-Electric	U201DST600	230V/50Hz	40-600VA	L	64-12%	75-0%	
Clipsal	32E450LM	230V/50Hz	450W	L	100-0%	100-0%	
Honyar	KT250	230V/50Hz	15-250W	L	100-0%	100-0%	
Schneider-Electric	40600 RL	230V/50Hz	40-600W	L	100-0%	100-0%	
Step	E033	230V/50Hz	45-300W	L			
Bticino	SAM5350	230V/50Hz	40-300W	L	100-0%	100-0%	
Lutron	GXI-3104-T-CE-WH	230V/50Hz	2300W	T	100-0%	100-0%	
HPM	CAT400L	230V/50Hz	400W	L		28-0%	
Panasonic	WMS549	230V/50Hz	40-400W	L	100-0%	94-0%	

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					4058075587359 / AC32224 4058075587373 / AC32225 4058075587137 / AC32221 4058075587199 / AC32222 4058075587335 / AC32223 4058075587397 / AC32226 4058075587434 / AC32227 4058075587458 / AC32228 4058075587472 / AC32229	
Dimmer					Number of Lamps	Dimming range
Brand	Model	Voltage range	Power	Type		
SAL	SDA450	230V/50Hz	450W	T	100-0%	100-0%
Siemens	5UH8122-3NC01	230V/50Hz	25-400W	L	100-0%	100-0%
Schneider-Clipsal	E8431EPD4	230V/50Hz	25-350W	T	100-0%	100-0%
MK branded	K1541 WHI	230V/50Hz	75-500W	L		94-5%
Veto	VT-500	230V/50Hz	60-500W	L	100-0%	100-0%
DIGINET(GERARD)	MMDM/PB	230V/50Hz	400W	ush Butto	100-0%	100-0%
Legrand	617030	230V/50Hz	600W	L	100-0%	100-0%
Panasonic	WEG 57912	230V/50Hz	40-200W	T	100-0%	100-0%
SR SANJOON	SRD-1000	230V/50Hz	1000W	L	100-0%	100-0%
JIN HEUNG ELECTRIC	JH-922473	230V/50Hz	1000W	L	100-0%	100-0%
Dynalite	DMC810GL	230V/50Hz	4*2200W	L		
OSRAM	Hti DALI 315/230-240 DIM	230V/50Hz	35-105W	Hti	95-0%	95-0%

