LED PERFORMANCE PAR 16 50

We bring innovation to light!

Product licensee of trademark
OSRAM in general lighting

Product Information

LED PERFORMANCE PAR 16 50

Product Overview[1]

Product Name	Model Name	Wattage	Input Voltage	CCT	Lm
PAR16 50 P 5.5W 927 24° GU10	AC19328	5.5W	220V-240V	2700K	380lm
PAR16 50 P 5.5W 927 36° GU10	AC19330	5.5W	220V-240V	2700K	380lm
PAR16 50 P 5.5W 930 36° GU10	AC19331	5.5W	220V-240V	3000K	380lm
PAR16 50 P 5.5W 940 36° GU10	AC19332	5.5W	220V-240V	4000K	400lm
PAR16 50 P 5.5W 965 36° GU10	AC19333	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 lifetime[2]

[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

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Ordering Guide

Product	Wattage	CCT	Lm	Candela	Diameter	Length	Weight	Beam Angle	EAN10	EAN40 (ship unit)	Ship. unit
LPPAR165024 5.5W/927230V GU1010X1AR6OSRAM	5.5W	2700K	380lm	1200cd	51mm	55mm	41g	24°	4058075165755	4058075165762	10
LPPAR165036 5.5W/927230V GU1010X1AR6OSRAM	5.5W	2700K	380lm	750cd	51mm	55mm	41g	36°	4058075165793	4058075165809	10
LPPAR165036 5.5W/930230V GU1010X1AR6OSRAM	5.5W	3000K	380lm	350cd	51mm	55mm	41g	36°	4058075332065	4058075332072	10
LPPAR165036 5.5W/940230V GU1010X1AR6OSRAM	5.5W	4000K	400lm	350cd	51mm	55mm	41g	36°	4058075332089	4058075332096	10
LPPAR165036 5.5W/965230V GU1010X1AR6OSRAM	5.5W	6500K	400lm	350cd	51mm	55mm	41g	36°	4058075332102	4058075332119	10

Common Characteristics[3]

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 2700K/3000K/4000K/6500K	33 mA	≤85°C @ Ta 40°C	90	0.0 mg	<5 SDCM	–20..+40 °C

Disposal Information

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

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[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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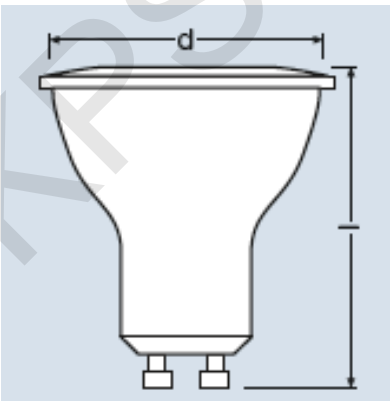
Application information

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

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)

Lamp Dimension



	PAR16
D (mm)	51
l (mm)	55

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
	Very good dimmability with indicated number of lamps (dimming range greater than 75%)	
	Limited dimmability with indicated number of lamps (dimming range smaler than 75%)	
	Undesired dimmability	
	Not tested	EAN / Basic Code
		4058075165762/AC19328 4058075165809/AC19330 4058075332072/AC19331 4058075332096/AC19332 4058075332119/AC19333

Dimmer					Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	**Model**	**Voltage range**	**Power/VA**	**Type**		
Busch-Jaeger	6513U-102	230/50Hz		T	100-29%	100-29%
Busch-Jaeger	6523U-102	230/50Hz	2-100	L	80-8%	80-8%
Schneider	ELKO 400GLI	230/50Hz	400	/	81-8%	81-8%
Legrand	665114	230/50Hz	400	L	85-5%	85-5%
Jung	225 NVDE	230/50Hz	20-500	L	82-12%	82-12%
Siemens	5TC8 284	230/50Hz	20-525	T	98-15%	98-15%
Gira	030700	230/50Hz	20-525	T	95-15%	95-15%
ELKO	315GLE	230/50Hz	20-315	T	95-15%	95-15%
AUR0RA	DSP400	230/50Hz	400	T	0-0%	0-0%
Osram	Hti DALI 315 DIM	230/50Hz	20-315	DALI T	100-0%	100-0%
Gira	117600	230/50Hz	50-420	U	92-15%	92-15%
Merten	MEG5134-0000	230/50Hz	4-400W		98-16%	98-16%
ELKO	600GLI	230/50Hz	40-600	L	92-12%	92-12%
ELKO	630GLE	230/50Hz	20-630	T	95-32%	95-32%
Berker	2861	230/50Hz	50-420	T	98-32%	98-32%
Busch-Jaeger	2250U	230/50Hz	60-600	L	95-15%	95-15%
Legrand	770061	230/50Hz	400	L	95-0%	95-0%
Jung	1224 LEDUDE	230/50Hz	3-100		0-0%	0-0%
Feller	40600RLC	230/50Hz	20-600	L	92-26%	92-26%
ELKO	420GLE/I	230/50Hz	40-420	T	88-3%	88-3%
Hager	WUD87	230/50Hz	400	T	98-23%	98-23%

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		4058075165762/AC19328 4058075165809/AC19330 4058075332072/AC19331 4058075332096/AC19332 4058075332119/AC19333

Dimmer					Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	**Model**	**Voltage range**	**Power/VA**	**Type**		
Altenburger Ele	50.3	230/50Hz	15-350	T	97-23%	97-23%
Merten	MEG5170-030	230/50Hz	10-200	T	70-30%	70-30%
Bush-laeger	6526U	230/50Hz	2-100	T	87-35%	87-35%
Merten	MEG5131	230/50Hz	40-400	L	91-0%	91-0%
PEHA	435HAN	230/50Hz	60-600	L	64-15%	64-15%
Merten	MEG5140	230/50Hz	9-10	L	88-0%	88-0%
Legrand	99314	230/50Hz	300	L	81-0%	81-0%
Legrand	770062	230/50Hz	400	T	47-10%	47-10%
ABB	STD50-3	230/50Hz	60-500	L	78-9%	78-9%
Hamilton	kplx40	230/50Hz	400	L	71-36%	71-36%
ZANO	WH401	230/50Hz	400	L	82-0%	82-0%
ZANO	WH251	230/50Hz	250	L	84-0%	84-0%
VARILIGHT	HQ3W	230/50Hz	400	L	65-0%	65-0%
VARILIGHT	JQP401W	230/50Hz	400	T	67-6%	67-6%
MK	K4501	230/50Hz	180	L	85-18%	85-18%
CENTURY CONTROL	MULTI DIMMER	230/50Hz	60-600	L	91-18%	91-18%
Legrand	078405	230/50Hz	600	L	94-0%	94-0%
ZANO	Z GRID 700	230/50Hz	250	T	88-2%	88-2%
ZANO	Z GRID 500	230/50Hz	500	T	95-2%	95-2%
NEXUS	881P-01	230/50Hz	400	L	88-2%	88-2%

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Dimmer					Dimming range 1 Lamp	Dimming range 4 Lamps
Brand	**Model**	**Voltage range**	**Power/VA**	**Type**		
bticino	**NT4402N**	230/50Hz	500	L	80-18%	80-18%
shuttle	SDIM-T-LED-500W	230/50Hz	2-500	T	94-18%	94-18%
VADSBO	LD220	230/50Hz	1-200	T	92-53%	92-53%
Merten	MEG5135	230/50Hz	60-1000	L	94-0%	94-0%
Siemens	5WG1-528-1DB01	230/50Hz	20-500	T	0-0%	0-0%
Gira	217400	230/50Hz	4X20-250	T	94-2%	94-2%
MASTER	DM-DGL	230/50Hz	1000	L	95-38%	95-33%
MASTER	DM-2500	230/50Hz	2500	L	97-0%	97-0%
DINUY	RE ELIELI	230/50Hz	400	L	100-0%	100-0%
Eltako	EUD61NPN-UC	230/50Hz	5-400	L	100-9%	100-9%
Vimar	20135	230/50Hz	3-100	T	82-30%	82-30%
NIKO	310-01900/01901	230/50Hz	5-200	T	92-9%	92-9%
NIKO	330-00700/00701	230/50Hz	5-200	L	98-5%	98-5%

[6] Typical values.

The compatibility test is based upon testing conducted by the manufacturer in a lab simulated environment, and the results can vary in certain field applications due to a number of factors. The test results were achieved by using the above mentioned LED-lamp types. The transformer with any of undesired compatibility shown in above report is not recommended. LEDVANCE 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, or when using other LED lamp types.

LED lamps contain several electronic components. Under unfavorable conditions these can lead to acoustic noise. In case of resonance even low noise can cause audible effect. Possible factors influencing this are the installation, the design of the lamp holder and the luminaries (acoustic resonance effect) as well as the dimmer or the transformer (harmonics or electronic resonance).

Lamp will work but LEDVANCE can not guarantee electromagnetic compatibility will be according norms

Subject to change without notice.

Always make sure to use the most recent release.

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