

OSRAM LED PERFORMANCE PAR 16 80



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

Intelligent, networked Smart Home &



Advanced LED lamps

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





Smart Building solutions

Traditional light sources



LED PERFORMANCE PAR 16 80



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.







LED PERFORMANCE PAR 16 80



uWave schnology" Reduced Eve Strain

Product Overview¹

| Product Name | Model Name | Wattage | Input Voltage | ССТ | Lm |
|------------------------------|------------|---------|---------------|-------|-------|
| PAR16 80 P 7.5W 927 36° GU10 | AC32241 | 7.5W | 220V-240V | 2700K | 630lm |
| PAR16 80 P 7.5W 930 36° GU10 | AC32242 | 7.5W | 220V-240V | 3000K | 630lm |
| PAR16 80 P 7.5W 940 36° GU10 | AC32243 | 7.5W | 220V-240V | 4000K | 650lm |
| PAR16 80 P 7.5W 965 36° GU10 | AC32244 | 7.5W | 220V-240V | 6500K | 650lm |
| PAR16 80 P 7.5W 930 60° GU10 | AC32245 | 7.5W | 220V-240V | 3000K | 630lm |
| PAR16 80 P 7.5W 930 60° GU10 | AC32246 | 7.5W | 220V-240V | 3000K | 630lm |
| PAR16 80 P 7.5W 965 60° GU10 | AC32247 | 7.5W | 220V-240V | 6500K | 650lm |
| PAR16 80 P 7.5W 965 60° GU10 | AC32248 | 7.5W | 220V-240V | 6500K | 650lm |
| PAR16 80 P 7.5W 927 10° GU10 | AC33036 | 7.5W | 220V-240V | 2700K | 500lm |
| PAR16 80 P 7.5W 930 10° GU10 | AC33037 | 7.5W | 220V-240V | 3000K | 500lm |
| PAR16 80 P 7.5W 940 10° GU10 | AC33038 | 7.5W | 220V-240V | 4000K | 500lm |

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 91% 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: ≤6 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.



LED PERFORMANCE PAR 16 80

Ordering Guide

| Product | Mattana | сст | Lm | Candela | Diameter | Length | Maria la la | Beam | EAN10 | EAN40 | Ship. |
|-----------------------------------------------|---------|-------|-------|---------|----------|--------|-------------|-------|---------------|---------------|-------|
| Product | Wattage | CCT | | | | | Weight | Angle | EANTU | (ship unit) | unit |
| LPPAR168036 7.5W/927230V GU1010X1AR7OSRAM | 7.5W | 2700K | 630lm | 850cd | 50mm | 52mm | 57.5g | 36° | 4058075588059 | 4058075588066 | 10 |
| LPPAR168036 7.5W/930230V GU1010X1AR7OSRAM | 7.5W | 3000K | 630lm | 850cd | 50mm | 52mm | 57.5g | 36° | 4058075588073 | 4058075588080 | 10 |
| LPPAR168036 7.5W/940230V GU1010X1AR7OSRAM | 7.5W | 4000K | 650lm | 950cd | 50mm | 52mm | 57.5g | 36° | 4058075588097 | 4058075588103 | 10 |
| LPPAR168036 7.5W/965230V GU1010X1AR7OSRAM | 7.5W | 6500K | 650lm | 950cd | 50mm | 52mm | 57.5g | 36° | 4058075588110 | 4058075588127 | 10 |
| LPPR1680607,5W/930230VG U1010X1AR7AUOSRAM | 7.5W | 3000K | 630lm | 620cd | 50mm | 52mm | 57.5g | 60° | 4058075588134 | 4058075588141 | 10 |
| LPPAR1680607,5W/930230V GU108X3AR7AUOSRAM | 7.5W | 3000K | 630lm | 620cd | 50mm | 52mm | 57.5g | 60° | 4058075588172 | 4058075588189 | 24 |
| LPPAR1680607,5W/965230V GU1010X1AR7AUOSRAM | 7.5W | 6500K | 650lm | 620cd | 50mm | 52mm | 57.5g | 60° | 4058075588233 | 4058075588240 | 10 |
| LPPAR1680607,5W/965230V GU108X3AR7AUOSRAM | 7.5W | 6500K | 650lm | 620cd | 50mm | 52mm | 57.5g | 60° | 4058075588271 | 4058075588288 | 24 |
| LPPAR1680107,5W/927230V GU108X3AR7OSRAM | 7.5W | 2700K | 500lm | 4000cd | 50mm | 52mm | 57.5g | 10° | 4058075601697 | 4058075601703 | 10 |
| LPPAR1680107,5W/930230V GU1010X1AR7OSRAM | 7.5W | 3000K | 500lm | 4000cd | 50mm | 52mm | 57.5g | 10° | 4058075601710 | 4058075601727 | 10 |
| LPPAR1680107,5W/940230V GU108X3AR7OSRAM | 7.5W | 4000K | 500lm | 4000cd | 50mm | 52mm | 57.5g | 10° | 4058075601734 | 4058075601741 | 10 |

Common Characteristics³

| Туре | 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 |
| Туре | Nominal current | Tc temperature max. ⁵ | CRI | Mercury max. | Standard deviation of color matching | Ambient temperature range |
| LED PERFORMANCE PAR16 50 | 49 mA | ≤85°C @ Ta 40°C | 90 | 0.0 mg | <6 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.

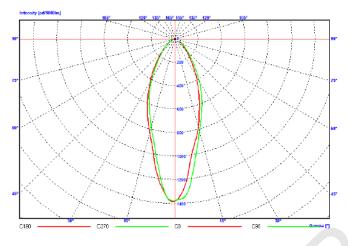
⁴ L70B50 is the average operating life of the LED Lamp during which the luminous flux is greater than or equal to 70% of the initial luminous flux, for 50% of the population. The lifetime is estimated at room temperature (25° C), free air burning, base up burning position and at rated voltage.

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)

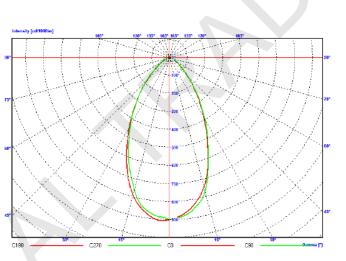


LED PERFORMANCE PAR 16 80

Light Distribution

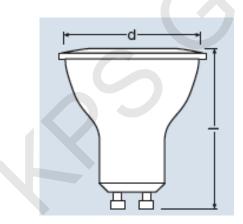


PAR16 80 P 7.5W 36° GU10



PAR16 80 P 7.5W 60° GU10

Lamp Dimension



| | PAR16 |
|--------|-------|
| D (mm) | 50 |
| I (mm) | 52 |



LED PERFORMANCE PAR 16 80

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)



LED PERFORMANCE PAR 16 80 927/ 930/ 940/ 965

| egend | APM di | mmer | | | | | |
|------------------------------------------------------------------------|--------|---------------------------------------|-------------------------------------|--------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| /Leading edge di | mmer | | T/Trailing edge dim | mer | | U/Univ | ersal Dimmer |
| | | Legend | | | | PERFORMA | |
| | ١ | Very good dimmability with | 80 10° | 36° 60° | | | |
| | | (dimming range greater tha | | · | | | No. 1 |
| | | Limited dimmability with ir | ndicated number | of lamps (dir | nming | TTOP | TIM |
| | | range smaler than 75%) | | | | | |
| | ļ | Undesired dimmability | | | | | |
| | | · · · · · · · · · · · · · · · · · · · | | | | 6 | 6 |
| | | Not tested | | | | EAN / Ba | sic Code |
| | | | 3 | | | 40580755880 40580755881 40580755881 40580755881 40580755882 40580755882 40580755882 40580756016 40580756017 | 73 / AC32242 97 / AC32243 10 / AC32244 34 / AC32245 72 / AC32246 33 / AC32247 |
| | | Dimmer | | | | Number | Dimming |
| Brand | | Model | Voltage range | Power | Туре | ofLamps | range |
| Clipsal | | E30 (32V500M) L500VA | 230V/50Hz | 500W | L | 100-0% | 100-0% |
| TCL-Legra | nd | V8051-M | 230V/50Hz | 40-630W | L | 100-0% | 100-0% |
| Panasoni | | WEG57813 | 230V/50Hz | 40-300W | L | 100-0% | 100-0% |
| LUMEX | | LOADSMART LT1D450LS | 230V/50Hz | 500VA | Т | | 100-0% |
| Schneider-Cl | ipsal | KB31RD400 | 230V/50Hz | 400W | L | 100-0% | 100-0% |
| Clipsal | | 32E450UDM | 230V/50Hz | 450W | <u> </u> | 3-0% | 100-11% |
| HPM | | CAT400T HPM | 230V/50Hz | 400W | T - | 25-10% | 100-0% |
| Anam / Legr | and | ASW3000H | 230V/50Hz | 1000W | <u> </u> | 80-0% | 100-0% |
| Trader | | Dimpala | 230V/50Hz | 400W | U | 9-0% | 100-0% |
| Clipsal | | 32ELEDM | 230V/50Hz | 400W | <u> </u> | 100-0% | 100-0% |
| Siemens Schneider-Ele | | 5UH8622-3NC01 C460 | 230V/50Hz | 25-400W 400W | <u> </u> | 100-0% 100-0% | 100-15% 100-0% |
| numeruer-Flé | - | U201DST600 | 230V / 50Hz 230V / 50Hz | 400W 40-600VA | <u> </u> | 100-0% | 76-0% |
| | | 32E450LM | 230V/50Hz | 40-600VA 450W | L | 100-43% | 100-0% |
| Schneider-Ele | | | 230V/50Hz | 450W 15-250W | L 1 | 100-0% | 100-0% |
| Schneider-Ele Clipsal | | | 2308/30112 | | | 100-0% | 100-0% |
| Schneider-Ele Clipsal Honyar | | KT250 40600 BI | | 40-600\// | | | |
| Schneider-Ele Clipsal Honyar Schneider-Ele | | 40600 RL | 230V/50Hz | 40-600W | | 100-076 | 100-0% |
| Schneider-Ele Clipsal Honyar Schneider-Ele Step | ectric | 40600 RL E033 | 230V / 50Hz 230V / 50Hz | 45-300W | | | |
| Schneider-Ele Clipsal Honyar Schneider-Ele Step Bticino | ectric | 40600 RL E033 SAM5350 | 230V/50Hz 230V/50Hz 230V/50Hz | 45-300W 40-300W | L | 100-0% | 100-0% |
| Schneider-Ele Clipsal Honyar Schneider-Ele Step | ectric | 40600 RL E033 | 230V / 50Hz 230V / 50Hz | 45-300W | | | |

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LED PERFORMANCE PAR 16 80 927/ 930/ 940/ 965

| Legend APM d | limmer | | | | | | | |
|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--|--|
| _/Leading edge dimmer | | T/Trailing edge dimr | ner | | U/Unive | ersal Dimmer | | |
| | Legend | | | | PERFORMA | | | |
| | Very good dimmability with | indicated numb | oroflamos | | 80 10° | 36° 60° | | |
| | 10 1 | | er on anips | | CE 1365- | 300 | | |
| | (dimming range greater that Limited dimmability with in | an 75%) ndicated number | of lamps (d | imming | ITER TEL | TSPIN | | |
| | range smaler than 75%) | | orramps (a | | All and the second seco | | | |
| | | | | | | | | |
| | Undesired dimmability | | | | | | | |
| | Not tested | | | Ť | EAN / Ba | asic Code | | |
| | | | | | 40580755880 | | | |
| | | | | | 40580755880 | | | |
| | | | | | 40580755880 | | | |
| | | | | | 4058075588110 / AC32244 | | | |
| | | | | | 4058075588134 / AC32245 | | | |
| | | | | | 4058075588172 / AC32246 4058075588233 / AC32247 | | | |
| | | | | | 4058075588271/ AC32248 | | | |
| | | 4058075601697 / AC330 | | | | | | |
| | | 4058075601710 / AC | | | | | | |
| | | | | | 40580756017 | 10 / AC33038 | | |
| | Dimmer | | | | Number | Dimming | | |
| Brand | Model | Voltage range | Power | Туре | ofLamps | range | | |
| SAL | SDA450 | 230V/50Hz | 450W | Т | 100-0% | 100-0% | | |
| | 5UH8122-3NC01 | 230V/50Hz | 25-400W | L | 100-0% | 100-0% | | |
| Siemens | | | 25-350W | Т | 100-0% | 100-0% | | |
| Siemens Schneider-Clipsal | E8431EPD4 | 230V/50Hz | | | 9-0% | 95-0% | | |
| Siemens Schneider-Clipsal MK branded | K1541 WHI | 230V/50Hz | 75-500W | - | | | | |
| Siemens Schneider-Clipsal MK branded Veto | K1541 WHI VT-500 | 230V / 50Hz 230V / 50Hz | 60-500W | L | 100-0% | 100-0% | | |
| Siemens Schneider-Clipsal MK branded Veto DIGINET(GERARD) | K1541 WHI VT-500 MMDM/PB | 230V/50Hz 230V/50Hz 230V/50Hz | 60-500W 400W | L ush Butto | 9-0% | 100-0% | | |
| Siemens Schneider-Clipsal MK branded Veto DIGINET(GERARD) Legrand | K1541 WHI VT-500 MMDM/PB 617030 | 230V/50Hz 230V/50Hz 230V/50Hz 230V/50Hz | 60-500W 400W 600W | L | <mark>9-0%</mark> 100-0% | 100-0% 100-0% | | |
| Siemens Schneider-Clipsal MK branded Veto DIGINET(GERARD) Legrand Panasonic | K1541 WHI VT-500 MMDM/PB 617030 WEG 57912 | 230V/50Hz 230V/50Hz 230V/50Hz 230V/50Hz 230V/50Hz | 60-500W 400W 600W 40-200W | L T | 9-0% 100-0% 100-0% | 100-0% 100-0% 100-0% | | |
| Siemens Schneider-Clipsal MK branded Veto DIGINET(GERARD) Legrand Panasonic SR SANJOON | K1541 WHI VT-500 MMDM/PB 617030 WEG 57912 SRD-1000 | 230V/50Hz 230V/50Hz 230V/50Hz 230V/50Hz 230V/50Hz 230V/50Hz | 60-500W 400W 600W 40-200W 1000W | L T L | 9-0% 100-0% 100-0% 100-0% | 100-0% 100-0% 100-0% 100-0% | | |
| Siemens Schneider-Clipsal MK branded Veto DIGINET(GERARD) Legrand Panasonic | K1541 WHI VT-500 MMDM/PB 617030 WEG 57912 | 230V/50Hz 230V/50Hz 230V/50Hz 230V/50Hz 230V/50Hz | 60-500W 400W 600W 40-200W | L T | 9-0% 100-0% 100-0% | 100-0% 100-0% 100-0% | | |
| Siemens Schneider-Clipsal MK branded Veto DIGINET(GERARD) Legrand Panasonic SR SANJOON | K1541 WHI VT-500 MMDM/PB 617030 WEG 57912 SRD-1000 | 230V/50Hz 230V/50Hz 230V/50Hz 230V/50Hz 230V/50Hz 230V/50Hz | 60-500W 400W 600W 40-200W 1000W | L T L | 9-0% 100-0% 100-0% 100-0% | 100-09 100-09 100-09 100-09 | | |



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Product Information

LED PERFORMANCE PAR 16 80 927/ 930/ 940/ 965

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

| Legend | APM d | limmer | | | | | | | | | |
|----------------|---------------------------------------------|----------------------------|------------------|-------------|------|---------|------------------|--|--|--|--|
| L/Leading edge | /Leading edge dimmer T/Trailing edge dimmer | | | | | | | | | | |
| | Legend | | | | | | | | | | |
| | | Very good dimmability with | n indicated numb | er of lamps | | | | | | | |
| | | | Tim | | | | | | | | |
| | | | | | | | | | | | |
| | range smaler than 75%) | | | | | | | | | | |
| | Undesired dimmability | | | | | | | | | | |
| | Not tested | | | | | | | | | | |
| | Dimmer | | | | | | | | | | |
| Bra | nd | Model | Voltage range | Power | Туре | ofLamps | Dimming range | | | | |
| Shut | tle | SDIM-T-LED 500W | 230V/50Hz | 500W | Т | 100-0% | 100-0% | | | | |
| Shut | | SDIMR-T-LED 500W | 230V/50Hz | 500W | Т | 100-0% | 100-0% | | | | |
| Shut | tle | SDIM-T-LED 125W | 230V/50Hz | 125W | Т | 100-0% | 100-0% | | | | |
| Shut | tle | SDIM-T-LED 250W | 230V/50Hz | 250W | Т | 100-0% | 100-0% | | | | |
| Shut | tle | SDIMR-T-LED 250W | 230V/50Hz | 250W | Т | 100-0% | 100-0% | | | | |
| Shut | tle | MINI-LED-ROTARY 225W | 230V / 50Hz | 225W | Т | 100-0% | 100-0% | | | | |
| Schne | eider | E8331RD250_WG_G11 | 230V / 50Hz | 50-250W | | 100-0% | 100-0% | | | | |
| Shut | tle | SDIM-T-LED 800W | 230V/50Hz | 800W | Т | 100-0% | 100-0% | | | | |
| Shut | tle | SDIMR-T-LED 800W | 230V / 50Hz | 800W | Т | 100-0% | 100-0% | | | | |

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.