

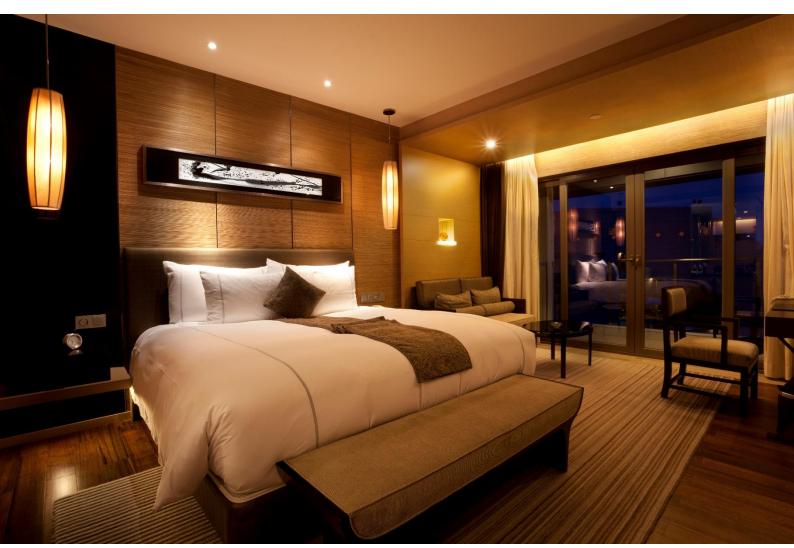
LED VALUE MR16 20

We bring innovation to light!

Product licensee of trademark OSRAM in general lighting









LED VALUE MR16 20



Product Overview¹

| Model Name | Basic Code | Wattage | ССТ | Lm | Input Voltage | | | |
|------------------------------|------------|---------|-------|-----|---------------|--|--|--|
| MR16 20 VAL 3W 827 36° GU5.3 | AC11544 | 3W | 2700K | 260 | 12V | | | |

Benefits

- •Easy replacement of halogen lamps due to compact full glass design and single optic
- •Free of multiple shadows for an excellent accent lighting
- •Up to 94% Energy Saving , spend little and save a lot
- •Consistent lighting color avoids the color difference
- •Easy Installation enables low budget and fast renovation without changing the total lighting system
- •extra safe with 12V AC/DC operation
- •Install and forget: assured by Germany quality standard

Key Features

- •Full glass design, elegant appearance
- •Uniform and clean beam thanks of the innovative TIR & fly eye single lens optic design
- •High-quality replacement of halogen lamp
- •Color consistency: <6 Standard Deviation Color Matching
- •Slim and Fit: 1:1 halogen outline ensures easy installation
- •12V AC/DC input voltage
- •15,000 hours lifetime²
- •UV and NIR radiation free
- Mercury free

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.

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.

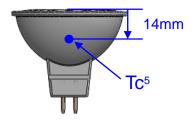


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| Ordering Guide | | | | | | | | |
|---|---------|-------|-----|---------|------------|---------------|----------------------|---------------|
| Product | Wattage | ССТ | Lm | Candela | Beam Angle | EAN10 | EAN40 (ship unit) | Ship. unit |
| LVMR162036 3W/827 12V GU5.3 10X1AR5OSRAM | 3W | 2700K | 260 | 550cd | 36° | 4058075168183 | 4058075168190 | 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 VALUE MR16 20 | 15,000 hrs | 100,000 | Glass | <0.5 s | <1 s | 0.7 |
| Туре | Nominal current | Tc temperature max.5 | CRI | Mercury max. | Standard deviation of color matching | Ambient temperature range |
| LED VALUE MR16 20 | 355 mA | ≤75°C @ Ta 40°C | 80 | 0.0 mg | ≤6 SDCM | −20+40 °C |
| Туре | Diameter | Length | Lamp Weight | | | |
| ED VALUE MR16 20 | 50mm | 44mm | 32g | | | |





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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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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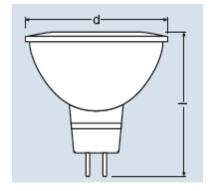
Application information

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

Lamp conformity

- •IEC 62838: 2015 (LEDsi lamps for general lighting services with supply voltages not exceeding 50 V a.c. r.m.s. or 120 V ripple free d.c. Safety specifications)
- •CISPR 15: 2013 + A1: 2015 (Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment)
- •IEC61547:2009 (Equipment for general lighting purposes EMC immunity requirements)
- •EN61000-3-2:2014 (Limits for harmonic current emissions (equipment input current ≤16 A per phase))
- •EN61000-3-3:2013 (Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection)
- •IEC62612:2013 (Self-ballasted LED lamps for general lighting services with supply voltages> 50 V Performance requirements)
- •IEC 60061 Lamp caps and holders
- •IEC 60630 Maximum lamp outlines for incandescent lamps

Lamp Dimension



| | MR16 |
|--------|------|
| D (mm) | 50 |
| I (mm) | 44 |



LED VALUE MR 16 20

Compatibility performance with Transformer ⁶

| Le | gend | | | | | | | | | | | | | | | | | |
|-----|-----------|------------------|---------------------|-------------|-----------------------|-------------------------------------|----|--------|--------|--|------|-----------|--------|--|----|----------|---------|-----|
| | G / Good | GD / Good & Dark | FW / Flicker weakly | F / Flicker | FS / Flicker strongly | FD / Flicker & Dark | N | GF/Not | Good 8 | as Flicke | er N | G / not : | Good a | s light | N | /A / Not | applica | ble |
| No. | | | | | | Lamp Qty /Nominal low voltage 1time | | | | Lamp Qty /Nominal low voltage 0.9times | | | | Lamp Qty /Nominal high voltage 1.06times | | | | |
| | Brand | Model | | Туре | Voltage | Wattage | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 |
| 1 | OSRAM | ET-A 60/220-24 | 40 | ET | 220-240, 50-60Hz | 20-60W | G | G | N/A | N/A | G | G | N/A | N/A | F | F | N/A | N/A |
| 2 | OSRAM | ET-L 30/220-24 | 40 | ET | 220-240, 50-60Hz | 2-30W | G | G | N/A | N/A | G | G | N/A | N/A | G | G | N/A | N/A |
| 3 | OSRAM | ET-REDBBACK | < 40VA/230-20 | ET | 230-240, 50-60Hz | 10-40W | G | G | G | N/A | G | G | G | N/A | G | G | G | N/A |
| 4 | OSRAM | IZ-A50/240 | | ET | 240,50-60Hz | 50W | G | G | G | N/A | G | G | G | N/A | G | G | G | N/A |
| 5 | PHILIPS | ET-E 60 220-24 | 40 | ET | 220-240,50-60Hz | 20-60W | G | G | G | N/A | G | G | G | N/A | G | G | G | N/A |
| 6 | NVC | ET60E | | ET | 220,50Hz | 20-60W | G | G | G | G | G | G | G | G | G | G | G | G |
| 7 | PAK三雄极光 | PAK-070601/P | PAK-070600 | ET | 220,50Hz | 20-60W | G | G | G | G | G | G | G | G | G | G | G | G |
| 8 | PHILIPS | ET-E10 LED | | ET | 220-240V, 50Hz | 2-10W | G | N/A | N/A | N/A | G | N/A | N/A | N/A | G | N/A | N/A | N/A |
| 9 | Opple | DB602-220/12 | | ET | 220, 50Hz | 20-60W | G | G | G | G | G | G | G | G | G | G | G | G |
| 10 | LEDVANCE | LVED VAL 20/2 | 20-240/12 CE | ET | 220-240, 50-60Hz | 2-20W | G | G | N/A | N/A | G | G | N/A | N/A | G | G | | N/A |
| 11 | LEDVANCE | LVED VAL 20/2 | 20-240/12 | ET | 220-240, 50-60Hz | 2-20W | NG | NG | N/A | N/A | NG | NG | N/A | N/A | NG | NG | N/A | N/A |
| 12 | LEDVANCE | LVED VAL 40/2 | 30-240/12 CE | ET | 220-240, 50-60Hz | 10-40W | G | G | G | N/A | G | G | G | N/A | G | G | G | N/A |
| 13 | LEDVANCE | LVED VAL 12/2 | 20-240/12 | DC ET | 220-240, 50-60Hz | Max 12W | G | N/A | N/A | N/A | G | N/A | N/A | N/A | G | N/A | N/A | N/A |
| 14 | LEDVANCE | LVED VAL 10/2 | 20-240/12 | DC ET | 100-240V,50-60Hz | Max10W | G | N/A | N/A | N/A | G | N/A | N/A | N/A | G | N/A | N/A | N/A |
| 15 | OSRAM | ET-Parrot 70/22 | 20-240 I | ET | 220-240, 50-60Hz | 20-70W | G | G | G | G | G | G | G | G | G | G | G | G |
| 16 | OSRAM | ET-Parrot 105/2 | 220-240 I | ET | 220-240, 50-60Hz | 35-105W | G | G | G | G | G | G | G | G | G | G | G | G |
| 17 | OSRAM | ET-Redback 60 | 0/230-240 | ET | 230-240, 50Hz | 20-60W | G | G | G | G | G | G | G | G | G | G | G | G |
| 18 | OSRAM | ET-P 60/220-24 | 40 (Gen 2) | ET | 220-240, 50-60Hz | 20-60W | G | G | G | G | G | G | G | G | G | G | G | G |
| 19 | OSRAM | Hti DALI 105/23 | 30-240 DIM | HTi | 230-240, 50-60Hz | 35-105W | G | G | G | G | G | G | G | G | G | G | G | G |
| 20 | OSRAM | IZ-HALD50/220 |)-240 | ET | 220-240, 50-60Hz | 20-50W | G | G | G | N/A | G | G | G | N/A | G | G | G | N/A |
| 21 | OSRAM | ET-Z 60 | | ET | 220-240, 50-60Hz | 20-60W | G | G | N/A | N/A | G | G | N/A | N/A | G | F | N/A | N/A |
| 22 | PHILIPS | ETK 50 | | ET | 240,50-60Hz | 50W | G | G | N/A | N/A | F | F | N/A | N/A | F | F | N/A | N/A |
| 23 | PHILIPS | ET-S 60 220-24 | 40 | ET | 220-240,50-60Hz | 20-60W | G | G | G | G | G | G | G | G | G | G | G | G |
| 24 | nVc | ET60DS | | ET | 220,50Hz | 35-60W | G | G | G | G | G | G | G | G | G | G | G | G |
| 25 | JOM嘉美 | ET-60A | | ET | 220,50Hz | 20-60W | G | G | N/A | N/A | G | G | N/A | N/A | G | G | N/A | N/A |
| 26 | Jindel | GET-0901 | | ET | 220V, 105W | 105W | G | G | G | G | G | G | G | G | G | G | G | G |
| 27 | Next Star | LC1222W | | ET | 220V, 60Hz | 22W | G | G | N/A | N/A | G | G | N/A | N/A | G | G | | N/A |
| 28 | CITY | Ledmrcon10n- | he | ET | 220V, 60Hz | 10W | G | G | N/A | N/A | G | G | N/A | N/A | G | G | N/A | N/A |
| 29 | Laluce | Laluce lighting | | ET | 220V, 60Hz | 11W | G | N/A | N/A | | G | N/A | N/A | N/A | G | N/A | N/A | N/A |
| 30 | LUSTER | DWL-12V8WC | | ET | 220V, 60Hz | 8W | G | N/A | N/A | N/A | G | N/A | N/A | N/A | G | N/A | N/A | N/A |
| 31 | Tridonic | ATCO Viper 60' | VA | ET | 230-240V,50-60Hz | 20-60W | G | G | G | G | G | G | G | G | F | F | F | F |
| 32 | Tridonic | Speedy TE-010 | 05 C101 | ET | 230-240V,50-60Hz | 35-105W | G | G | G | G | G | G | G | G | G | G | G | G |
| | HPM | Trades 65 | | ET | 220-240V,50Hz | 65W | G | G | G | G | G | G | G | G | G | G | G | G |
| _ | HPM | Mtecougar60 | | ET | 230-240V,50Hz | 60W | G | G | G | G | G | G | G | G | G | G | G | G |
| 35 | OSRAM | ET-MZ 60/110- | | ET | 110-130, 50-60Hz | 20-60W | G | G | | N/A | G | G | N/A | _ | G | G | N/A | |
| 36 | JAMICON | YKCAAAA1012 | 700CAC | ET | 100-240V,50-60Hz | 8.4W(max) | G | | N/A | | G | N/A | N/A | N/A | G | N/A | N/A | N/A |
| _ | Neutron | ET-LED60-1 | | ET | 110-120V,50-61Hz | 60W(max) | G | G | G | N/A | G | G | G | N/A | G | G | G | N/A |
| 38 | Neutron | ET-LED60-2 | | ET | 220-240V,50-62Hz | 60W(max) | G | G | G | N/A | G | G | G | N/A | G | G | | N/A |
| 39 | OSRAM | HTM 105W/230 | | ET | 230-240, 50-60Hz | 35-105W | G | G | G | G | G | G | G | G | G | G | G | G |
| 40 | OSRAM | HTM 70W/230- | 240 | ET | 230-240, 50-60Hz | 20-70W | G | G | G | G | G | G | G | G | G | G | G | G |

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.