THE ENTIRE RANGE OF LAMPS AT A GLANCE

OSRAM LED LAMPS FROM LEDVANCE

July 2021
LEDVANCE: ADVANCING LIGHT

BAD LIGHT, LOST YOUR WAY?
WE’LL GET YOU BACK ON TRACK!
OSRAM LED LAMPS FROM LEDVANCE: EU-COMPLIANT AND POWERFUL

With over 100 years of experience in general lighting, LEDVANCE combines traditional lighting technology with pioneering lighting innovations for almost any application. In addition to this unique know-how, we particularly rely on long-term customer relationships and a strong global sales network. As technology trend experts, we are leading the way in meeting the rapidly changing demands for high-quality and long-lasting light. And as a strong local partner, we are always reliably at your side in over 140 countries.

Whether it’s luminaires, lamps, our LED Strip System or state-of-the-art light management solutions, our teams of specialists are focused on the specific needs of our customers. We are making a decisive contribution to increasing your competitiveness with technical innovations and easy-to-use, intelligent lighting solutions compliant with EU regulations.

LEDVANCE boasts an extensive portfolio of LED lamps designed for the most varied applications and requirements of lighting professionals and customers. There are many good arguments in favour of LED lamps under the OSRAM brand in the LEDVANCE product range: up to CRI 97, VDE-certified products\(^1\) and a guarantee of up to five years\(^2\).

We always focus on the benefit for you as a lighting professional. That’s why we do everything we can to make our products and systems particularly easy to plan, install and combine. Based on these principles, we will continue to develop sophisticated products and provide you with optimum support in your personal fight against bad light.

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\(^1\) VDE-certified under IEC62776: SubstIUBE Advanced Ultra Output/Advanced T8 EM, Connected Sensor
\(^2\) For further information and exact guarantee conditions, please visit www.ledvance.com/guarantee
Every product in the LED lamp portfolio is designed with the needs of the target group and the latest market trends in mind. In addition, it is fine-tuned to precisely meet the requirements of the area where it will ultimately be used. The technical expertise applied here produces not only well-conceived innovations, but also EU-compliant light.
SETTING LIGHT TRENDS, FULFILLING REGULATORY REQUIREMENTS: ALWAYS REMAIN UP TO DATE WITH LEDVANCE PRODUCT HIGHLIGHTS

The new EU regulation on environmental design (the Single Lighting Regulation = SLR) is not just generating additional momentum behind the push to replace conventional lamps with energy-saving LED light. It is also fueling the trend toward replaceable light sources.

Our completely reworked and significantly expanded portfolio of LED lamps will help you meet legal requirements and the needs of your customers in a future-proof manner.

Discover the new LED highlights for your successful light projects: SLR-compliant, energy-efficient, low-flicker, high light quality, easy installation and the ideal and simple replacement for conventional lamps.

01 Page 17–21

**OSRAM SubstiTUBE T8 EM**
The latest SLR-compliant generation of our T8 LED tubes for operation on CCG or directly on mains voltage (AC) is available in the segments PRO, ADVANCED and VALUE. All are low-flicker and provide good to extremely high light yields. The LED tubes are also your best choice when it comes to energy savings (up to 70 %) and payback point.

► Ideal for industry, warehouses, offices and facility management, among other areas.

02 Page 25–27

**OSRAM SubstiTUBE T8 CONNECTED**
The T8 Connected LED tube stands for a wireless connection via Zigbee 3.0 with the LEDVANCE connected sensor. No bending thanks to glass technology, a very high level of resistance to frequent switching and shatter protection.

► Ideal for parking garages, among other areas.

03 Page 29–33

**OSRAM SubstiTUBE T8 UNIVERSAL AND HF**
The T8 Universal, a product that can be flexibly used for operation on ECG and CCG or directly for mains voltage (AC) after rewiring, eliminates the need for stockpiling. The SubstiTUBE T8 HF impresses users with the exceptional price-performance ratio and can be operated on ECG. All segments are low-flicker and offer a high level of energy savings (up to 60 %) and a short payback time. The PRO segment also offers shatter protection.

► Ideal for industry, warehouses, offices and facility management, among other areas.

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**OSRAM SubstiTUBE T5 HF AND T5 AC**
The latest generation of our T5 LED tubes do not bend thanks to glass tubes with shatter protection. Light output of up to 5600 lm. SubstiTUBE T5 HF can be operated on ECG (HF) or SubstiTUBE T5 AC directly on AC mains.

► Ideal for industry, warehouses, offices and facility management, among other areas.
OSRAM HQL LED PRO
The energy-efficient LED replacement for mercury vapor lamps: with a new design for lamp types with 6000 lumens, increased energy efficiency (up to 146 lm/W) and surge protection of up to 6 kV.
▶ Ideal for outdoor areas, among other places.

OSRAM PARATHOM CLASSIC A IN FILAMENT DESIGN
Highly efficient direct LED replacement with classic light-bulb design. With an attractive filament look and high light yield.
▶ Ideal for households, warehouses, garages and schools, among other places.

OSRAM PARATHOM CLASSIC A DIM/NON-DIM
The modern, bulb-shaped LED classic: compact, energy efficient and high light yield. The dimmable version can be operated with many commercially available dimmers.
▶ Ideal for households, warehouses, garages and schools, among other places.

OSRAM PARATHOM PRO AR 111
A low-voltage LED reflector lamp with a retrofit plug base. Designed for simple, fast and safe lamp replacement without any rewiring.
▶ Ideal for stores, among other areas.

OSRAM PARATHOM PIN G4
The dimmable low-voltage LED pins can be operated with DC or AC voltage. With good 320° all-round light output.
▶ For special applications.

OSRAM PARATHOM PIN G9
New, energy-efficient LED replacement for high-voltage halogen lamps. The pin lamps G9 30, 30 DIM and 40 now come in even smaller dimensions.
▶ For special applications.

OSRAM PARATHOM PIN GY6.35
The new generation of these LED pins replaces 40W halogen lamps. In the same small dimension as the previous pins, with good all-round light output and for variable use with DC or AC voltage.
▶ For special applications.
THE NEW LEDVANCE SMART+ PORTFOLIO LAMPS, LIGHT STRIPS AND LUMINAIRES FROM LEDVANCE – A HUGE SELECTION FOR OUTDOORS AND INDOORS

THREE PRODUCT SEGMENTS – THREE GREAT CONTROL METHODS: WIFI, BLUETOOTH AND ZIGBEE

All information in LEDVANCE SMART+ PROGRAM FOR RESIDENTIAL

SMART HOME COMFORT – LIGHT CONTROL VIA SMARTPHONE

LEDVANCE SMART+ WiFi products can be controlled simply and conveniently via a WiFi router using the LEDVANCE SMART+ WiFi app.

SMART HOME PREMIUM – VOICE-CONTROLLED LIGHT MANAGEMENT

LEDVANCE SMART+ Bluetooth products are designed to work perfectly by means of voice control. We recommend that you use Google’s smart speakers.

LEDVANCE LAMP/LUMINAIRE + LEDVANCE LAMP/LUMINAIRE + GOOGLE NEST MINI + GOOGLE HOME APP

LEDVANCE SMART+ WIFI APP
THE NEW LEDVANCE SMART + PORTFOLIO
LAMPS, LIGHT STRIPS AND LUMINAIRES FROM LEDVANCE – A HUGE SELECTION FOR OUTDOORS AND INDOORS

SMART HOME PROFESSIONAL – LIGHTING CONTROL BY GATEWAY

Our recommendation for LEDVANCE SMART+ Zigbee products: control via a gateway and an app from one of our many partner systems.

THE MOST IMPORTANT PART OF YOUR CUSTOMER ASSISTANCE WORK: THE SELECTION OF THE RIGHT LEDVANCE SMART+ TECHNOLOGY.

You can select from three different product segments to ensure that you offer the perfect system for each individual customer: SMART HOME with WiFi technology, SMART HOME PREMIUM with Bluetooth support and SMART HOME PROFESSIONAL with the Zigbee 3.0 standard. We recommend SMART+ WiFi to customers who want to use their smartphones to control their light. SMART+ Bluetooth is perfect for people who like to use voice commands and smart speakers to manage their lighting systems. SMART+ Zigbee is the perfect solution for customers who plan to use a gateway to integrate their lighting into a holistic smart home system.

Each of these segments is perfectly coordinated with the recommended control system. But we also offer alternative control systems for each segment to ensure that customers can retain flexibility in the future.
FIT FOR THE SLR/ELR: EU-COMPLIANT & POWERFUL

The EU is taking its next big step toward a world of systematically efficient and climate friendly lighting – and has reworked regulations governing the sustainability of light sources and the labeling of their energy efficiency.

— Single Lighting Regulation (SLR)
— Energy Labeling Regulation (ELR)

Also new: the EPREL product database. It contains all relevant information about affected light sources. The new energy labels are also generated from the EPREL.

HOW LEDVANCE SUPPORTS YOU AS A PARTNER:

As a specialty retailer, you have two key focal points: providing LED replacements for phased-out products at an early stage and correctly applying regulations regarding the new energy label and other information requirements.

LEDVANCE has taken steps that will enable you to apply the correct technical and legal approach. Our support at a glance:

- Complete data management and registration of all LEDVANCE light sources in EPREL – incl. all required data
- Dependable implementation of all labeling and information requirements – including on packaging as well as in product data sheets and instruction manuals
- Early provision of energy-efficient LED replacements for the affected products
- The continued and best-possible provision of traditional light sources within the legally defined framework
- Continuous enhancement of our portfolio – with the aim of increasing energy efficiency and climate friendliness
- Comprehensive and clear information that will enable you to correctly operate your business in technical and legal terms

WHICH PRODUCTS ARE AFFECTED?
LIGHT SOURCES INSTEAD OF LAMPS AND LUMINAIRES

New: the difference between “light sources” and “containing products.”

Energy efficiency is now being determined on the basis of new parameters. This will result in:

— The continued phase-out of several lamps with lower energy efficiency
— The classification of light sources on a scale displayed on the new energy label

LIGHT SOURCES
are electrically operated products that emit white light*. These products include all traditional and LED lamps used for general lighting – as well as fully integrated luminaires that cannot be taken apart by using widely available tools without destroying them. The light sources are only subject to the new rules in the EU regulations SLR/ELR.

CONTAINING PRODUCTS
include luminaires and other support systems that enable light sources to be taken apart with widely available tools without destroying them. This is why most luminaries have been exempted from the labeling requirement since December 25, 2019.

Good to know: LEDVANCE luminaires are generally considered to be “containing products.”

* A number of display lamps, control lamps and very powerful light products (including outdoor, athletic, theater and industrial lighting) are exempt from the EU regulations.

OSRAM LED LAMPS FROM LEDVANCE | SLR AND ELR 2021
Since May 1, 2021, manufacturers must register their light sources in the EPREL database and enter all required data into it. LEDVANCE has already added all relevant products to the database. The next steps involve the phasing-out stage of products and the introduction of new energy labels. Here are the key dates:

**PHASE-OUT**

**Sept. 1, 2021**
Phase-out of CFLi lamps with integrated control gears, certain high-voltage and low-voltage halogen lamps and T12/T2 fluorescent tubes (see below).

**Sept. 1, 2023**
Phase-out of T8 fluorescent tubes and halogen pins (see below).

**ENERGY LABEL**

**Sept. 1, 2021**
Begin of the transition phase: The old labels may be used only by those products that went on sale before the effective date.

**March 1, 2023**
End of the transition phase: Effective this date, only the new labels may be used.

**WHICH LAMPS WILL BE PHASED OUT?**

**LEVDANCE TO OFFER REPLACEMENTS AT AN EARLY STAGE**

Under the new EU regulations, some lamps may no longer be sold after certain dates (phase-out). You will find product lists with replacement products at: ledvance.com/services

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**PRODUCTS AFFECTED**

<table>
<thead>
<tr>
<th>Compact Fluorescent Lamps</th>
<th>Banned¹</th>
<th>LED Replacement Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFLi – E27, E14, etc.</td>
<td>09/01/2021</td>
<td></td>
</tr>
<tr>
<td>With integrated control gears</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| High Voltage Halogen Lamps² | 09/01/2021 |
| R7s > 2700 lm |
| Equals about 140 W |

| Low Voltage Halogen Lamps | 09/01/2021 |
| GU4, GU5.3, G53 |
| With reflector 10° beam angle |

| Linear Fluorescent Tubes | 09/01/2021 |
| T12 AND T2 |

| Linear Fluorescent Tubes | 09/01/2023 |
| T8, 600 mm, 1 200 mm, 1 500 mm |

| Halogen Pins | 09/01/2023 |
| G4, GY6.35, G9 |

¹ Products that are already on the market may still be sold after this date, but may not be placed on the market again.

² Suitable for the light point, differing lighting performance. Limitations: maximum luminous flux, general thermal requirements, dimensions of the replacement lamp.
SLR/ELR: KEY FACTS AT A GLANCE

The new EU regulations on ecodesign and the labeling of light sources are being implemented in phases, starting back in December 2019. Our products, packaging and product information comply fully with these EU regulations so you are always on the right side of the law.

The EU has taken the next major step toward efficient and climate-friendly lighting – and defined new regulations for the sustainability of light sources and the labeling of their energy efficiency.

- Single Lighting Regulation 2019/2020 (SLR)
- Energy Labeling Regulation 2019/2015 (ELR)

Also new: the EPREL product database which contains all the relevant information on the affected light sources. EPREL is also used for generating the new energy labels.
OPTIMIZED LIGHT QUALITY: EVEN MORE COMFORT, SAFETY AND PRODUCTIVITY

The Single Lighting Regulation (SLR) covers the functional requirements for light quality, among other areas. These include: color rendering, color consistency, lumen maintenance factor (for LEDs/OLEDs), power factor, lifespan – and, in particular, the behavior of mains voltage light sources in terms of the stroboscopic effect and flicker.

NEW REGULATIONS AND KEY DATES

Requirements governing low-flicker qualities and the stroboscopic effect will be gradually toughened:

- **Stroboscopic effect**
  - SVM\(^1\) ≤ 0.9
  - SVM ≤ 0.4\(^2\)

1 SVM = stroboscopic effect visibility measure
2 Exemptions: light sources for outdoor, industry and other uses that offer color rendering with CRI ≤ 80
ILLUMINATING WORKSTATIONS FOR THE FUTURE

LEDVANCE will provide you with LED lamps that reliably fulfill the requirements of the new EU regulations at an early stage. Some of them already meet requirements that do not take effect until 09/01/2024 (see the infobox).

Thanks to these products, you will be able to help your customers increase the safety of their workstations, improve employees’ ability to concentrate, promote their well-being – and, in general, facilitate increased productivity.

MEETING TOMORROW’S REQUIREMENTS TODAY
The following OSRAM LED lamps already meet and exceed the requirement of SVM ≤ 0,4¹ that will go into effect on 09/01/2024:

- OSRAM SubstiTUBE T8 EM and Connected
- OSRAM SubstiTUBE T8 HF and Universal
- SRAM SubstiTUBE T5 HF and AC Mains
- OSRAM SubstiTUBE T9 EM
- OSRAM HQL LED PRO and HQL LED Highbay
- OSRAM DULUX LED
- OSRAM PARATHOM PRO MR16 and OSRAM PARATHOM PRO PAR16
- OSRAM PARATHOM DIM Concentra

STROBOSCOPIC AND FLICKER EFFECTS

As part of the SLR, the following new quality features are being introduced to improve the light quality of LED mains voltage light sources:

**SVM (stroboscopic effect visibility measure)**
These effects can occur if non-compliant light sources illuminate a moving object. Stroboscopic effects can create dangerous situations because rotating or moving objects become less visible (e.g., revolving machine components are perceived to be “standing still”).

**PₘLM (Perception of short-term Light Modulation)**
This describes discernible flicker on monitors and light sources, among other areas. Compliance with the new thresholds will help prevent a feeling of discomfort, visual fatigue and headaches.

- Effective 09/2021: SVM ≤ 0,9¹/PₘLM ≤ 1
- Effective 09/2024: SVM ≤ 0,4¹

¹Exemptions: light sources for outdoor, industry and other uses that offer color rendering with CRI ≤ 80.

High-quality light creates occupational safety and dependable visual appearance in areas where rotating objects are used to facilitate concentration and control.

Here: a discernible and disruptive flicker effect

In comparison: Homogeneous light calms the visual field.
OSRAM SubstiTUBE T8 EM
THE BEST FORM OF LED TUBES

Under the SLR, most conventional fluorescent tubes will be phased out. Since 09/01/2021, the linear fluorescent tubes T12 and T2 may no longer be introduced to the market. T8 fluorescent tubes will follow on 09/01/2023.

Our SubstiTUBE T8 EM glass portfolio, among other products, offers you a high-quality LED replacement solution that can meet the widest range of customer needs. Products that are SLR-compliant, energy efficient and perfect for the particular situation, offer superb light quality and come in the market-appropriate product segments of PRO, ADVANCED and VALUE. Also up to date: SubstiTUBE T8 Connected – the easy-to-install, wirelessly connected light solution for additional energy savings.

Do you need the right luminaire solution? We recommend the latest generation of our DAMP PROOF luminaires! You will find them at www.ledvance.com or in our Luminaire Catalog 2021.

OSRAM SubstiTUBE T8 PRO EM
► Page 17–18
Operation on CCG and mains (AC)

- Extremely high luminous flux of up to 4 100 lm
- Extremely high efficiency of up to 175 lm/W
- Low-flicker according to EU 2019/2020 (SVM ≤ 0.4; PstLM ≤ 1)
- Shatter-proof glass tubes
- Extremely long lifetime: up to 75 000 h¹

OSRAM SubstiTUBE T8 ADVANCED EM
► Page 19–20
Operation on CCG and mains (AC)

- Very high luminous flux of up to 3 700 lm
- Very high efficiency of up to 160 lm/W
- Low-flicker according to EU 2019/2020 (SVM ≤ 0.4; PstLM ≤ 1)
- Glass tube
- Long lifetime: up to 50 000 h¹

OSRAM SubstiTUBE T8 VALUE EM
► Page 21
Operation on CCG and mains (AC)

- Good luminous flux of up to 2 200 lm
- Good efficiency of up to 120 lm/W
- Low-flicker according to EU 2019/2020 (SVM ≤ 0.4; PstLM ≤ 1)
- Glass tube
- Lifetime: up to 30 000 h¹

¹L70/B50
OSRAM SubstiTUBE T8 CONNECTED AND LEDVANCE CONNECTED SENSOR  

Page 25–27

Operation on CCG and mains (AC)

OSRAM SubstiTUBE T8 CONNECTED AND LEDVANCE CONNECTED SENSOR

- Communication via Zigbee 3.0
- Very high luminous flux of up to 3 600 lm
- Very high efficiency of up to 150 lm/W
- Low-flicker according to EU 2019/2020
- (SVM ≤ 0.4; P instantly ≤ 1)
- Shatter-proof glass tubes
- Only in connection with the LEDVANCE connected sensor
- Lifetime: up to 50 000 h

OSRAM SubstiTUBE T8 HF AND UNIVERSAL

MORE THAN A REPLACEMENT

User specific, SLR-compliant LED replacement – and much more: The glass tubes impress users with their light quality, energy savings of up to 60 % and very short payback time.

The OSRAM SubstiTUBE T8 Universal can be operated very flexibly on CCG or ECG2 and, if rewired, on mains voltage (AC). This helps to eliminate double stocks. The SubstiTUBE HF offers very good price-performance ratio and is an excellent choice for price sensitive projects. It can be operated only on ECG.

OSRAM SubstiTUBE T8 PRO HF/UNIVERSAL

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Operation on Universal: CCG, ECG2 and mains (AC)
HF: ECG2

OSRAM SubstiTUBE T8 PRO HF/UNIVERSAL

- Very high luminous flux of up to 3 700 lm
- Very high efficiency of up to 161 lm/W
- Low-flicker according to EU 2019/2020
- Shatter-proof glass tubes
- Fast, easy and safe replacement
- Lifetime: up to 60 000 h

OSRAM SubstiTUBE T8 VALUE HF/UNIVERSAL

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Operation on Universal: CCG, ECG2 and mains (AC)
HF: ECG2

OSRAM SubstiTUBE T8 VALUE HF/UNIVERSAL

- Good luminous flux of up to 2 800 lm
- Good efficiency of up to 116 lm/W
- Low-flicker according to EU 2019/2020
- Glass tube
- Fast, easy and safe replacement
- Lifetime: up to 30 000 h

1 L70/B50  |  2 Check of the ECG compatibility list before installation required: www.ledvance.com/ecg-compatibility  |  3 with rewiring

SubstiTUBE T8  Operation on

<table>
<thead>
<tr>
<th></th>
<th>HF</th>
<th>ECG</th>
<th>Universal</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>CCG 230V ECG</td>
</tr>
</tbody>
</table>

1 L70/B50  |  2 Check of the ECG compatibility list before installation required: www.ledvance.com/ecg-compatibility  |  3 with rewiring
OSRAM SubstiTUBE T5
LOWER MAINTENANCE COSTS, HIGHER LIGHT QUALITY

SubstiTUBE T5 LED tubes are the right energy-efficient and SLR-compliant replacement for virtually all conventional T5 HO or T5 HE fluorescent tubes. Available as OSRAM SubstiTUBE T5 HF for the operation on ECG² or as OSRAM SubstiTUBE T5 AC for operation directly on mains voltage (AC). Particularly convenient: you can keep using existing luminaire.

THE BENEFITS OF BOTH PRODUCT SEGMENTS AT A GLANCE:

- Maximum luminous flux of up to 5600 lm
- Low-flicker according to EU 2019/2020 (SVM ≤ 0.4; PstLM ≤ 1)
- Shatter-proof glass tubes
- Lifetime of up to 50000 h¹

OSRAM SubstiTUBE T5 HF
- Page 34
Operation on ECG²
- High energy savings and longer lifetime result in fast payback times
- Quick and easy installation
- Operation on compatible ECG², ³
- Shatter-proof glass tubes

OSRAM SubstiTUBE T5 220–240 V AC
- Page 35
Operation on mains (AC)
- Wiring directly to AC mains, bypassing the ballast
- Removes any compatibility issues and energy losses from the control gear
- Eliminating maintenance costs associated with ballast replacements
- Shatter-proof glass tube

¹ L70/B50  |  ² Check of the ECG compatibility list before installation required: www.ledvance.com/ecg-compatibility
³ Non-compatible with a direct mains voltage connection, 220–240 V AC
## SubstiTUBE APPLICATION MATRIX

<table>
<thead>
<tr>
<th>OSRAM SubstiTUBE PORTFOLIO</th>
<th>T8</th>
<th>T5</th>
<th>T9C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INDUSTRY</strong></td>
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<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Typical operating time: 24h/day 6 days/week</td>
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<tr>
<td>Recommended illuminance: 200–500+ lux</td>
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<tr>
<td><strong>WAREHOUSE</strong></td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Typical operating time: 24h/day 6 days/week</td>
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<tr>
<td>Recommended illuminance: 200–300 lux</td>
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<tr>
<td><strong>PARKING</strong></td>
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<td>Typical operating time: 24h/day 7 days/week</td>
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<tr>
<td>Recommended illuminance: 75–300 lux</td>
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<td><strong>RETAIL</strong></td>
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<td>Typical operating time: 15h/day 7 days/week</td>
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<td>Recommended illuminance: 500+ lux</td>
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<td><strong>FOOD PRESENTATION</strong></td>
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<td>Typical operating time: 15h/day 7 days/week</td>
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<tr>
<td>Recommended illuminance: Special spectrum with high CRI-R9 level, shatter protection</td>
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<tr>
<td><strong>OFFICE</strong></td>
<td>✓</td>
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<td>Typical operating time: 14h/day 6 days/week</td>
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<tr>
<td>Recommended lighting intensity: 500+ lux</td>
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<td><strong>RESIDENTIAL AREAS</strong></td>
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<td>✓</td>
<td>✓</td>
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<td>Typical operating time: 2.7h/day 7 days/week</td>
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<td>Recommended illuminance: 100+ lux</td>
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<td><strong>OUTDOOR AREAS / PUBLIC TRANSPORTATION</strong></td>
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<td>Typical operating time: 10h/day 7 days/week</td>
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<tr>
<td>Recommended illuminance: 5–500+ lux</td>
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<tr>
<td><strong>PUBLIC BUILDINGS / SPORTS AND LEISURE</strong></td>
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<td>✓</td>
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<tr>
<td>Typical operating time: 15h/day 7 days/week</td>
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<td></td>
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<tr>
<td>Recommended illuminance: 100–500+ lux</td>
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</tbody>
</table>

¹ < 10 light outlets
SubstiTUBE PRO Ultra Output EM¹,²
High performance LED tubes for electromagnetic control gears (CCG), shatterproof

PRODUCT FEATURES
— LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
— Low flicker according to EU 2019/2020 (SVM ≤0.4 / PstLM ≤ 1)
— Lamp tube made of glass with spliter protection e.g. for food industry applications
— VDE certified according to IEC62776
— For especially uniform illumination

PRODUCT BENEFITS
— No bending thanks to glass tube
— Shatter protection thanks to special PET coating
— Support the implementation of the HACCP concepts from production through to presentation
— Very high resistance to switching loads
— High luminous flux for sophisticated lighting tasks

AREAS OF APPLICATION
— General illumination within ambient temperatures from -20…+50 °C
— Illumination of production areas
— Traffic zones and corridors
— Supermarkets and department stores
— Industry

SAFETY ADVICE
Not suitable for operation with electronic control gear.
Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>W</th>
<th>lm</th>
<th>K</th>
<th>CRI</th>
<th>L</th>
<th>T</th>
<th>S</th>
<th>E</th>
</tr>
</thead>
<tbody>
<tr>
<td>SubstiTUBE T8 EM Pro Ultra Output 14.9 W/3000K 1200 mm</td>
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<td>1212</td>
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<td>174</td>
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</table>

¹ Protection class: IP20 | ² Non-dimmable | ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ⁴ L70/B50 | ⁵ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
SubstiTUBE PRO EM1,2
High performance LED tubes for electromagnetic control gears (CCG), shatterproof

PRODUCT FEATURES
— LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
— Low flicker according to EU 2019/2020 (SVM ≤0,4 / PstLM ≤ 1)
— Lamp tube made of glass with splinter protection e.g. for food industry applications
— VDE certified according to IEC62776
— Single and tandem operation on conventional control gear (0.6 m version)

PRODUCT BENEFITS
— No bending thanks to glass tube
— Shatter protection thanks to special PET coating
— Support the implementation of the HACCP concepts from production through to presentation
— Very high resistance to switching loads
— High luminous flux for sophisticated lighting tasks

AREAS OF APPLICATION
— General illumination within ambient temperatures from -20...+50 °C
— Illumination of production areas
— Traffic zones and corridors
— Supermarkets and department stores
— Industry

SAFETY ADVICE
Not suitable for operation with electronic control gear.
Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
SubstiTUBE Advanced Ultra Output\(^1,2\)

LED tubes for electromagnetic control gear (CCG)

**PRODUCT FEATURES**

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
- Low flicker according to EU 2019/2020 (SVM ≤0,4 / PstLM ≤ 1)
- Tube made of glass
- For especially uniform illumination
- Mercury-free and RoHS compliant

**PRODUCT BENEFITS**

- No bending thanks to glass tube
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 60 % (compared to T8 fluorescent lamp on CCG)
- Very high resistance to switching loads
- High luminous flux for sophisticated lighting tasks

**AREAS OF APPLICATION**

- General illumination within ambient temperatures from -20...+50 °C
- Illumination of production areas
- Traffic zones and corridors
- Supermarkets and department stores

**SAFETY ADVICE**

Not suitable for operation with electronic control gear.

Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

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\(^1\) Protection class: IP20 | \(^2\) Non-dimmable | You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | L70/B50 | Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
SubstiTUBE Advanced\textsuperscript{1,2}

LED tubes for electromagnetic control gear (CCG)

PRODUCT FEATURES

— LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
— Low flicker according to EU 2019/2020 (SVM ≤ 0.4 / PstLM ≤ 1)
— Single and tandem operation on conventional control gear (0.6 m version)
— Tube made of glass
— Mercury-free and RoHS compliant

PRODUCT BENEFITS

— No bending thanks to glass tube
— Quick, simple and safe replacement without rewiring
— Energy savings of up to 64 % (compared to T8 fluorescent lamp on CCG)
— Instant-on light, therefore ideally suitable in combination with sensor technology
— Very high resistance to switching loads

AREAS OF APPLICATION

— General illumination within ambient temperatures from -20…+50 °C
— Illumination of production areas
— Traffic zones and corridors
— Supermarkets and department stores
— Industry

SAFETY ADVICE

Not suitable for operation with electronic control gear.
Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
SubstiTUBE Value\(^1,2\)
Economic LED tubes for electromagnetic control gears (CCG)

**PRODUCT FEATURES**
- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
- Low flicker according to EU 2019/2020 (SVM ≤ 0.4 / PstLM ≤ 1)
- Tube made of glass
- Mercury-free and RoHS compliant
- Uniform illumination

**PRODUCT BENEFITS**
- No bending thanks to glass tube
- Energy savings of up to 68% (compared to T8 fluorescent lamp on CCG)
- Quick, simple and safe replacement without rewiring
- Instant-on light, therefore ideally suitable in combination with sensor technology
- Very high resistance to switching loads

**AREAS OF APPLICATION**
- General illumination within ambient temperatures from -20...+45 °C
- Corridors, stairways, parking garages
- Industry
- Warehouses
- Cooling and storage rooms

**SAFETY ADVICE**
Not suitable for operation with electronic control gear.
Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

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**Product name** | **GTIN (EAN)** | **W** | **lm** | **K** | **CRI** | **Ta** | **E** | **F** | **S**
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
SubstiTUBE T8 EM Value 6.6 W/3000K 600 mm | 405807561679 | 18 | 613 | 603 | 6.6 | 720 | 109 | 3000 | 190 | ≥80 | 30000 | E | 10 | 1
SubstiTUBE T8 EM Value 6.6 W/4000K 600 mm | 405807561680 | 18 | 613 | 603 | 6.6 | 800 | 121 | 4000 | 190 | ≥80 | 30000 | E | 10 | 1
SubstiTUBE T8 EM Value 6.6 W/5000K 600 mm | 405807561681 | 18 | 613 | 603 | 6.6 | 800 | 121 | 6500 | 190 | ≥80 | 30000 | F | 10 | 1
SubstiTUBE T8 EM Value 15 W/3000K 1200 mm | 405807561672 | 36 | 613 | 1212 | 15 | 1620 | 108 | 3000 | 190 | ≥80 | 30000 | F | 10 | 1
SubstiTUBE T8 EM Value 15 W/4000K 1200 mm | 405807561696 | 36 | 613 | 1212 | 15 | 1800 | 120 | 4000 | 190 | ≥80 | 30000 | F | 10 | 1
SubstiTUBE T8 EM Value 15 W/5000K 1200 mm | 405807561710 | 36 | 613 | 1212 | 15 | 1800 | 120 | 6500 | 190 | ≥80 | 30000 | E | 10 | 1
SubstiTUBE T8 EM Value 18.3 W/3000K 1500 mm | 405807561733 | 58 | 613 | 1513 | 18.3 | 1980 | 118 | 3000 | 190 | ≥80 | 30000 | F | 10 | 1
SubstiTUBE T8 EM Value 18.3 W/4000K 1500 mm | 405807561757 | 58 | 613 | 1513 | 18.3 | 2200 | 120 | 4000 | 190 | ≥80 | 30000 | E | 10 | 1
SubstiTUBE T8 EM Value 18.3 W/5000K 1500 mm | 405807561771 | 58 | 613 | 1513 | 18.3 | 2200 | 120 | 6500 | 190 | ≥80 | 30000 | E | 10 | 1
SubstiTUBE MOTION SENSOR\textsuperscript{1,2}

LED tubes with integrated microwave sensor for electromagnetic control gears (CCG), shatterproof

**PRODUCT FEATURES**

- LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
- Integrated microwave sensor with motion detection
- Automatic dimming to 20% light output after 5 minutes without motion detection
- Automatic light switch off 7 minutes after the last motion detection
- Microwave sensor with 5,8 GHz

**PRODUCT BENEFITS**

- Suitable for closed luminaires thanks to microwave technology
- No bending thanks to glass tube
- Shatter protection thanks to special PET coating
- Support the implementation of the HACCP concepts from production through to presentation
- Very high resistance to switching loads

**AREAS OF APPLICATION**

- General illumination within ambient temperatures from -20…+50 °C
- Corridors, stairways, parking garages
- Warehouses
- Walkways and corridors
- Storage rooms

**SAFETY ADVICE**

Not suitable for operation with electronic control gear.
Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
Recommended maximum mounting height: 5 m

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\textsuperscript{1} Protection class: IP20 | \textsuperscript{2} Non-dimmable | You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | \textsuperscript{4} L70/B50 | \textsuperscript{5} Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
SubstiTUBE FOOD ¹,²
LED tubes for electromagnetic control gears (CCG), shatterproof, for food presentation

PRODUCT FEATURES
— LED replacement for classic T8 fluorescent lamps with G13 socket for use in CCG luminaires or on AC mains
— Lamp tube made of glass with splitter protection e.g. for food industry applications
— Specially tailored spectral distribution (comparable to T8 FL NATURA 78)
— VDE certified according to IEC62776
— Type of protection: IP20

PRODUCT BENEFITS
— Food looks fresh and appetizing without unduly “beautifying” it
— No bending thanks to glass technology
— Quick, simple and safe replacement of fluorescent lamps without rewiring the CCG
— Energy savings of up to 60 % (compared to T8 fluorescent lamp on CCG)
— Shatter protection thanks to special PET coating

AREAS OF APPLICATION
— General illumination within ambient temperatures from -20…+50 °C
— Supermarkets and department stores
— Bakeries, meat processors, butchers
— Shops
— Especially suitable for the food sector

SAFETY ADVICE
Not suitable for operation with electronic control gear.
Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>mW</th>
<th>lm</th>
<th>CRI</th>
<th>K</th>
<th>T</th>
<th>m</th>
<th>%</th>
<th>t</th>
<th>10</th>
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<tr>
<td>SubstiTUBE T8 EM Food 7.9 W/3300K 900 mm EM</td>
<td>4058075262475</td>
<td>30</td>
<td>613</td>
<td>908</td>
<td>7.9</td>
<td>750</td>
<td>94</td>
<td>3300</td>
<td>190</td>
<td>≥80</td>
<td>50000</td>
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<td>SubstiTUBE T8 EM Food 11.6 W/3300K 1200 mm EM</td>
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<td>613</td>
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<td>1100</td>
<td>94</td>
<td>3300</td>
<td>190</td>
<td>≥80</td>
<td>50000</td>
</tr>
<tr>
<td>SubstiTUBE T8 EM Food 17.9 W/3300K 1500 mm EM</td>
<td>4058075262512</td>
<td>58</td>
<td>613</td>
<td>1513</td>
<td>17.9</td>
<td>1700</td>
<td>94</td>
<td>3300</td>
<td>190</td>
<td>≥80</td>
<td>50000</td>
</tr>
</tbody>
</table>

¹ Protection class: IP20 ² Non-dimmable ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee ⁴ L70/B50 ⁵ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
SubstiTUBE Start
Starter for SubstiTUBE EM (CCG)

PRODUCT FEATURES
- Substitute starter for the replacement of a fluorescent lamp with a LED tube
- Suitable for operation with low loss or conventional control gear or line voltage
- Integrated electrical fuse

AREAS OF APPLICATION
- Not suitable for operation with electronic control gears

Product name | GTIN (EAN)
---|---
SubstiTUBE LED T8 STARTER | 4058075813674
SubstiTUBE Connected Advanced Ultra Output 1,2
LED tubes for electromagnetic control gears

PRODUCT FEATURES
— Network protocol: ZigBee 3.0 (2.4 GHz mesh network)
— Connected tube can be only operated with Connected sensor
— Dimmable only with LEDVANCE Connected Sensor

PRODUCT BENEFITS
— No bending thanks to glass technology
— Shatter protection thanks to special PET coating
— Short payback period thanks to low energy consumption and maintenance costs

AREAS OF APPLICATION
— General illumination within ambient temperatures from -20...+50 °C
— Parking lots, warehouses, production areas, stairways
— Industry
— Offices

SAFETY ADVICE
Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
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<tr>
<td>SubstiTUBE T8 EM CON Advanced Ultra Output 7.5 W/4000K 600 mm</td>
<td>4058075187337</td>
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<td>SubstiTUBE T8 EM CON Advanced Ultra Output 7.5 W/6500K 600 mm</td>
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<td>SubstiTUBE T8 EM CON Advanced Ultra Output 16 W/4000K 1200 mm</td>
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<td>SubstiTUBE T8 EM CON Advanced Ultra Output 16 W/6500K 1200 mm</td>
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</table>

1 Protection class: IP20 | 2 Non-dimmable | 3 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 4 L70/B50 |
5 Energy efficiency class (IEC) on a scale of A (highest efficiency) to G (lowest efficiency)
SubstiTUBE Connected Sensor Low Bay

Stand-alone sensors

PRODUCT FEATURES
— Wireless smart PIR motion sensor
— Mounting height up to 4 m
— Two step dimming: 20 % and 100 % light output
— Network protocol: ZigBee 3.0 (2.4 GHz mesh network)
— Connected tube can be only operated with Connected sensor

PRODUCT BENEFITS
— Multiple sensors can be networked
— Control of compatible products without Internet connection or smart devices
— Easy to install and use

AREAS OF APPLICATION
— For indoor use only (IP54)
— Passive infra red sensor for ambient temperatures between -20 and +50 °C
— Parking lots, warehouses, production areas, stairways
— Industry
— Offices

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>L × W × H [mm]</th>
<th>IP</th>
<th>Vₚ</th>
<th>kHₚ</th>
<th>C₀</th>
<th>Ø</th>
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<tbody>
<tr>
<td>Connected Sensor ST8 LB</td>
<td>4058075232969</td>
<td>126.0 x 65</td>
<td>IP54</td>
<td>220…240</td>
<td>50</td>
<td>27</td>
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</tbody>
</table>

1 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee
SubstiTUBE Connected Sensor High Bay
Stand-alone sensors

PRODUCT FEATURES
— Wireless smart PIR motion sensor
— Mounting height: 4…14 m
— Two step dimming: 20 % and 100 % light output
— Network protocol: ZigBee 3.0 (2.4 GHz mesh network)
— Connected tube can be only operated with Connected sensor

PRODUCT BENEFITS
— Multiple sensors can be networked
— Control of compatible products without Internet connection or smart devices
— Easy to install and use

AREAS OF APPLICATION
— For indoor use only (IP54)
— Parking lots, warehouses, production areas, stairways
— Passive infra red sensor for ambient temperatures between -20 and +50 °C
— Industry

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
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<th>IP</th>
<th>Vₕ</th>
<th>Hz</th>
<th>EC</th>
<th>IP54</th>
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<td>IP54</td>
<td>230…240</td>
<td>50</td>
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</tr>
</tbody>
</table>

1 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee
SubstiTUBE Connected Sensor Remote
Connected Sensor Remote for LEDVANCE Connected Sensor HB and LB

PRODUCT FEATURES
— Compatible with LEDVANCE Connected Sensor HB and LB (Gen 2)
— Battery included (Lithium, 3 V)

PRODUCT BENEFITS
— LEDVANCE Connected sensor remote control for easy installation
— 3 years guarantee

Product name | GTIN (EAN) | L x W x H [mm] |
---|---|---|
CONNECTED SENSOR REMOTE 10X1 | 405807374034 | 58.0 x 8.0 x 8 |

1 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee
SubstiTUBE PRO UO UN\(^1,2\)

LED tubes for electronic control gears (ECG), electromagnetic control gears (CCG) and mains, shatterproof

### PRODUCT FEATURES
- T8 LED tube made of glass with G13 base
- Compatible with conventional and many common electronic control gears (see also compatibility list) and line voltage
- Low flicker according to EU 2019/2020
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- Mercury-free and RoHS compliant

### PRODUCT BENEFITS
- No bending thanks to glass technology
- Shatter protection thanks to special PET coating
- Also suitable for operation at low temperatures
- High luminous flux for sophisticated lighting tasks
- Easy installation

### AREAS OF APPLICATION
- General illumination within ambient temperatures from -20...+45 °C
- Supermarkets and department stores
- Industry

### SAFETY ADVICE
Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction. The Tc point is marked on the base of the lamp.

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<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
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<tbody>
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\(^1\) Protection class: IP20 | \(^2\) Non-dimmable | \(^3\) ST8 UN is not released for tandem circuit in CCG operation | \(^4\) You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | \(^5\) L70/B50 | \(^6\) Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
SubstiTUBE Value UN\textsuperscript{1,2}

LED tubes for electronic control gears (ECG), electromagnetic control gears (CCG) and mains

**PRODUCT FEATURES**
- LED tube made of glass
- Compatible with conventional and many common electronic control gears (see also compatibility list) and line voltage
- T8 LED tube made of glass with G13 base
- Low flicker according to EU 2019/2020
- Uniform illumination
- Lifetime: up to 30,000 h
- Mercury-free and RoHS compliant

**PRODUCT BENEFITS**
- No bending thanks to glass technology
- Also suitable for operation at low temperatures
- Easy installation

**AREAS OF APPLICATION**
- General illumination within ambient temperatures from -20…+45 °C
- Corridors, stairways, parking garages
- Warehouses

**SAFETY ADVICE**
Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction. The Tc point is marked on the base of the lamp.

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>W</th>
<th>lm</th>
<th>K</th>
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<td>405807546950</td>
<td>58</td>
<td>613</td>
<td>1513</td>
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<td>2550</td>
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<td>SubstiTUBE T8 UN Value 24 W/4000K 1500 mm</td>
<td>405807546974</td>
<td>58</td>
<td>613</td>
<td>1513</td>
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<td>58</td>
<td>613</td>
<td>1513</td>
<td>24</td>
<td>2800</td>
<td>116</td>
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</table>

\textsuperscript{1} Protection class: IP20 \textsuperscript{2} Non-dimmable | You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | \textsuperscript{4} L70/B50 | \textsuperscript{5} Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
SubstiTUBE PRO UO HF\textsuperscript{1,2}

LED tubes for electronic high frequency control gears (ECG), shatterproof

**PRODUCT FEATURES**
- T8 LED tube made of glass with G13 base
- Compatible with many common electronic control gears (see also compatibility list)
- Low flicker according to EU 2019/2020
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- Mercury-free and RoHS compliant

**PRODUCT BENEFITS**
- Quick, simple and safe replacement without rewiring
- Shatter protection thanks to special PET coating
- Also suitable for operation at low temperatures
- High luminous flux for sophisticated lighting tasks
- No bending thanks to glass technology

**AREAS OF APPLICATION**
- General illumination within ambient temperatures from -20…+45 °C
- Supermarkets and department stores
- Industry
- Offices, public buildings

**SAFETY ADVICE**
Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
Not suitable for operation with low-loss and conventional control gears and main voltage.
The Tc point is marked on the base of the lamp.

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\textsuperscript{1} Protection class: IP20 | \textsuperscript{2} Non-dimmable | You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | \textsuperscript{4} L70/B50 | \textsuperscript{5} Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
**SubstiTUBE PRO HF**

LED tubes for electronic high frequency control gears (ECG), shatterproof

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**PRODUCT FEATURES**
- T8 LED tube made of glass with G13 base
- Compatible with many common electronic control gears (see also compatibility list)
- Low flicker according to EU 2019/2020
- Lamp tube made of glass with spliter protection e.g. for food industry applications
- Mercury-free and RoHS compliant

**PRODUCT BENEFITS**
- Quick, simple and safe replacement without rewiring
- Shatter protection thanks to special PET coating
- Also suitable for operation at low temperatures
- High luminous flux for sophisticated lighting tasks
- No bending thanks to glass technology

**AREAS OF APPLICATION**
- General illumination within ambient temperatures from -20...+45°C
- Supermarkets and department stores
- Industry
- Offices, public buildings

---

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**SAFETY ADVICE**

Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction. Not suitable for operation with low-loss and conventional control gears and main voltage. The Tc point is marked on the base of the lamp.

1 Protection class: IP20
2 Non-dimmable
3 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee
4 L70/B50
5 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
SubstiTUBE Value HF\textsuperscript{1,2}

Economic LED tubes for electronic high frequency control gears (ECG)

\begin{itemize}
  \item T8 LED tube made of glass with G13 base
  \item Compatible with many common electronic control gears (see also compatibility list)
  \item Low flicker according to EU 2019/2020
  \item Uniform illumination
  \item Lifetime: up to 30,000 h
  \item Mercury-free and RoHS compliant
\end{itemize}

\begin{itemize}
  \item Easy installation
  \item Also suitable for operation at low temperatures
  \item No bending thanks to glass technology
\end{itemize}

\begin{itemize}
  \item General illumination within ambient temperatures from -20…+45 °C
  \item Corridors, stairways, parking garages
  \item Warehouses
\end{itemize}

\textbf{SAFETY ADVICE}

Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

Not suitable for operation with low-loss and conventional control gears and main voltage.

The Tc point is marked on the base of the lamp.

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SubstiTUBE T5 HF¹,²
LED tubes for electronic high frequency control gears

PRODUCT FEATURES
— Retrofit replacement of existing T5 lamps on HF ballast installations
— Lamp tube made of glass with splinter protection e.g. for food industry applications
— High color consistency: ≤ 5 SDCM
— Lifetime: up to 50,000 h
— Low flicker according to EU 2019/2020

PRODUCT BENEFITS
— No bending thanks to glass technology
— Quick, simple and safe replacement without rewiring
— High luminous flux for sophisticated lighting tasks

AREAS OF APPLICATION
— Offices, public buildings
— Supermarkets and department stores
— Industry
— General illumination within ambient temperatures from -20…+45 °C

SAFETY ADVICE
Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

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¹ Protection class: IP20 | ² Non-dimmable | ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ⁴ L70/B50 | ⁵ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
SUBSTITUBE T5 220–240V AC\(^1,2\)

LED tubes for operation on AC mains connection

PRODUCT FEATURES
— LED replacement for T5 fluorescent lamps with G5 base on AC mains
— Lamp tube made of glass with splinter protection e.g. for food industry applications
— High color consistency: ≤ 5 SDCM
— Lifetime: up to 50,000 h
— Low flicker according to EU 2019/2020

PRODUCT BENEFITS
— No bending thanks to glass technology
— Shatter protection thanks to special PET coating
— Quick, simple and safe replacement without rewiring
— High luminous flux for sophisticated lighting tasks

AREAS OF APPLICATION
— Offices, public buildings
— Supermarkets and department stores
— Industry
— General illumination within ambient temperatures from -20…+45 °C

SAFETY ADVICE
Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction. Not suitable for operation with electronic control gear.

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\(^1\) Protection class: IP20 \(^2\) Non-dimmable \(^3\) You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee \(^4\) L70/B50

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### Product Features Table

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SubstiTUBE T9 EM\(^{1,2}\)
Circular LED tube for electromagnetic control gear (CCG) and AC mains

**PRODUCT FEATURES**
- LED alternative to classic T9 fluorescent lamps in CCG luminaires
- Uniform illumination
- Lifetime: up to 30,000 h
- Mercury-free and RoHS compliant

**PRODUCT BENEFITS**
- Quick, simple and safe replacement without rewiring
- Energy savings of up to 50% (compared to T9 fluorescent lamp on CCG)
- Also suitable for operation at low temperatures
- Operation directly on 230 V AC mains possible

**AREAS OF APPLICATION**
- General illumination within ambient temperatures from -20…+45 °C
- Corridors, stairways, parking garages
- Domestic applications
- Decorative applications

**SAFETY ADVICE**
Not suitable for operation with electronic control gear.
Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.

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1 Protection class: IP20 | 2 Non-dimmable | You will find further information and the exact guarantee terms and conditions at [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee) | L70/B50 | Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LEDinestra DIM

Dimmable tubular LED lamps

PRODUCT FEATURES
— LED alternative to tubular incandescent lamps
— Dimmable (with many common dimmers, see also www.ledvance.com/dim)
— For especially uniform illumination
— Mercury-free lamps
— Bulb made from glass

PRODUCT BENEFITS
— Very long lifetime of up to 25,000 h
— Low energy consumption
— Good color rendering

AREAS OF APPLICATION
— Ideal for mirror lighting
— Hotels, restaurants
— Domestic applications
— Outdoor applications only in suitable luminaires

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1 Protection class: IP20 | You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 2 L70/B50 | Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LEDinestra\textsuperscript{1,2}
Tubular LED lamps

PRODUCT FEATURES
— LED alternative to tubular incandescent lamps
— Uniform illumination
— Mercury-free lamps
— Bulb made from glass

PRODUCT BENEFITS
— Long lifetime of up to 15,000 h
— Low energy consumption
— Good color rendering

AREAS OF APPLICATION
— Ideal for mirror lighting
— Hotels, restaurants
— Domestic applications
— Outdoor applications only in suitable luminaires

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\textsuperscript{1} Protection class: IP20 | \textsuperscript{2} Non-dimmable | You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | \textsuperscript{3} L70/B50 | \textsuperscript{4} Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
OSRAM DULUX D LED EM & AC MAINS\(^1,2\)

LED replacement for CFLni, with 2-pin G24d base for CCG and AC mains operation

---

**PRODUCT FEATURES**

- LED replacement for conventional compact fluorescent lamps for use in CCG luminaires or on AC mains
- Type of protection: IP20
- Rotatable base around its longitudinal axis (± 90°)
- Lifetime: up to 30,000 h
- Single-ended two-pin plug-in G24d base

**PRODUCT BENEFITS**

- Quick, simple and safe replacement without rewiring
- Low energy consumption
- Easy relamping thanks to compact design
- Operation directly on 230 V AC mains possible

**AREAS OF APPLICATION**

- Supermarkets and department stores
- Walkways and corridors
- Hotels, restaurants
- Outdoor applications only in suitable luminaires

---

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**SAFETY ADVICE**

Not suitable for tandem operation.

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\(^1\) Protection class: IP20  \(^2\) Non-dimmable  \(\text{You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee}\)  \(\text{L70/B50}\)  
\(\text{Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)}\)
OSRAM DULUX D/E LED HF & AC MAINS

LED replacement for CFLni, with 4-pin G24q base for ECG and AC mains operation

PRODUCT FEATURES
- LED replacement for conventional compact fluorescent lamps for use in ECG luminaires or on AC mains
- Single-ended four-pin plug-in G24q base
- Rotatable base around its longitudinal axis (± 90°)
- Type of protection: IP20
- Lifetime: up to 30,000 h

PRODUCT BENEFITS
- Quick, simple and safe replacement
- Low energy consumption
- Operation directly on 230 V AC mains possible

AREAS OF APPLICATION
- Supermarkets and department stores
- Walkways and corridors
- Hotels, restaurants
- Outdoor applications only in suitable luminaires

SAFETY ADVICE
Always check the latest update of the compatibility list available on www.ledvance.com/ecg-compatibility.
Not suitable for operation with conventional control gear.
OSRAM DULUX T/E LED HF & AC MAINS¹,²

LED replacement for CFL, with 4-pin GX24q base for ECG and AC mains operation

PRODUCT FEATURES
— LED replacement for conventional compact fluorescent lamps for use in ECG luminaires or on AC mains
— Single-ended four-pin plug-in GX24q base
— Rotatable base around its longitudinal axis (± 90°)
— Type of protection: IP20
— Lifetime: up to 30,000 h

PRODUCT BENEFITS
— Quick, simple and safe replacement
— Low energy consumption
— Operation directly on 230 V AC mains possible

AREAS OF APPLICATION
— Supermarkets and department stores
— Walkways and corridors
— Hotels, restaurants
— Outdoor applications only in suitable luminaires

SAFETY ADVICE
Always check the latest update of the compatibility list available on www.ledvance.com/ecg-compatibility.
Not suitable for operation with conventional control gear

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¹ Protection class: IP20 ² Non-dimmable ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee ⁴ L70/B50 ⁵ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
OSRAM DULUX S LED EM & AC MAINS¹,²

LED replacement for short CFLni, with 2-pin G23 base for CCG and AC mains operation

PRODUCT FEATURES
— LED replacement for conventional compact fluorescent lamps for use in CCG luminaires or on AC mains
— Type of protection: IP20
— Lifetime: up to 30,000 h
— Single-ended two-pin plug-in G23 base

PRODUCT BENEFITS
— Quick, simple and safe replacement without rewiring
— Low energy consumption
— Easy relamping thanks to compact design
— Operation directly on 230 V AC mains possible

AREAS OF APPLICATION
— Supermarkets and department stores
— Walkways and corridors
— Hotels, restaurants

SAFETY ADVICE
Suitable for tandem operation.

Product name | GTIN (EAN) | W (W) | Im (lm) | K (K) | CRI | ²| ²| ²| ² |
|---|---|---|---|---|---|---|---|---|---|
DULUX S LED EM & AC Mains 4.5 W/3000K | 405807557994 | 9 | 623 | 4.5 | 450 | 3000 | 80 | 165 | 32 | 140 | 30000 | F | 10 | 1 |
DULUX S LED EM & AC Mains 4.5 W/4000K | 405807558045 | 9 | 623 | 4.5 | 500 | 4000 | 80 | 165 | 32 | 140 | 30000 | E | 10 | 1 |
DULUX S LED EM & AC Mains 6 W/3000K | 405807558069 | 11 | 623 | 6 | 630 | 3000 | 80 | 234 | 32 | 140 | 30000 | F | 10 | 2 |
DULUX S LED EM & AC Mains 6 W/4000K | 405807558083 | 11 | 623 | 6 | 700 | 4000 | 80 | 234 | 32 | 140 | 30000 | E | 10 | 2 |

¹ Protection class: IP20 ² Non-dimmable ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee ⁴ E70/B60 ⁵ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
OSRAM DULUX L LED HF & AC MAINS\textsuperscript{1,2}  
LED replacement for CFL, with 4-pin 2G11 base for ECG and AC mains operation

PRODUCT FEATURES
— LED replacement for conventional compact fluorescent lamps for use in ECG luminaires or on AC mains 
— Single-ended four-pin plug-in 2G11 base 
— Lifetime: up to 30,000 h

PRODUCT BENEFITS
— Quick, simple and safe replacement 
— Simple replacement thanks to similar design as conventional compact fluorescent lamps 
— Low energy consumption 
— Operation directly on 230 V AC mains possible

AREAS OF APPLICATION
— Offices, public buildings 
— Shops 
— Hotels, restaurants 
— Industry 
— Outdoor applications only in suitable luminaires

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SAFETY ADVICE
Always check the latest update of the compatibility list available on www.ledvance.com/ecg-compatibility.
OSRAM DULUX F LED EM & AC MAINS\textsuperscript{1,2}

LED replacement for flat CFLni, with 4-pin 2G10 base for CCG and AC mains operation

PRODUCT FEATURES

— LED replacement for conventional compact fluorescent lamps for use in CCG luminaires or on AC mains
— Type of protection: IP20
— Lifetime: up to 30,000 h
— Single-ended four-pin plug-in 2G10 base

PRODUCT BENEFITS

— Quick, simple and safe replacement without rewiring
— Low energy consumption
— Easy relamping thanks to compact design
— Operation directly on 230 V AC mains possible

AREAS OF APPLICATION

— Offices
— Walkways and corridors
— Hotels, restaurants
— Outdoor applications only in suitable luminaires

SAFETY ADVICE

Not suitable for tandem operation.

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\textsuperscript{1} Protection class: IP20 | \textsuperscript{2} Non-dimmable | \textsuperscript{3} You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | \textsuperscript{4} L70/B50 | \textsuperscript{5} Energy efficiency class (IEC) on a scale of A (highest efficiency) to G (lowest efficiency)
HQL LED PRO

LED replacement for HID lamps for outdoor application

PRODUCT FEATURES
- Replacement for HQL:
  Suitable for operation with conventional control gear (CCG) for HQL or 230 V mains
- Replacement for other HID:
  Suitable for operation with line voltage without control gear
- Power factor: 0.9
- Type of protection: IP65
- High surge protection: up to 6 kV (L-N)

PRODUCT BENEFITS
- Saves up to 78 % energy when used as replacement for mercury vapor lamps (HQL)
- Low maintenance costs thanks to long lifetime
- Instant 100 % light, no warm-up time

AREAS OF APPLICATION
- Streets
- Area lighting
- Pedestrian zones
- Parks
- Outdoor applications only in suitable luminaires

SAFETY ADVICE
The bulb may be larger and heavier than the replaced bulb. Before installation it must be checked, if the luminaire and especially the holder is capable of carrying the weight of the lamp. If possible, please install the safety rope included in the package containing the lamp for the types 90 W lamps.
Not suitable for operation with ignitors
Operation on the capacitor can lead to a reduction of the power factor of the system.
When installed horizontally, the t, point of the lamp is located on the top side of the lamp.
Use in tight luminaires and luminaires with tight reflectors not recommended.

1 Non-dimmable | 2 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 3 L70/B50 | 4 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
NAV LED

LED replacement for high-pressure sodium vapor lamps in outdoor applications

**PRODUCT FEATURES**
- Very high efficiency of up to 185 lm/W
- System power Factor: > 0.7
- Type of protection: IP40
- High surge protection: up to 4 kV (L-N)
- Long lifetime of up to 50,000h (L70B50)

**PRODUCT BENEFITS**
- Direct retrofit for traditional high-pressure sodium vapor lamps (NAV): operation on CCG, compensation capacitor and ignitor without rewiring
- Saves up to 52 % energy when used as replacement for NAV lamps
- Additional cost savings thanks to compatibility with CCG with power reduction ("night-time switching")
- Low maintenance costs and cost savings thanks to long lifetime
- Similar light distribution as traditional NAV lamps

**AREAS OF APPLICATION**
- Streets
- Area lighting
- Pedestrian zones
- Parks

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**SAFETY ADVICE**

Outdoor applications only in suitable luminaires (lamp type of protection IP40).
The compliance with the required luminous intensity for the application has to be checked before the installation. The total energy efficiency and light distribution depends on the lighting system design.
Not suitable for operation with 230 V line voltage.
The operation on a CCG with power tapping may lead to a reduction of the power factor of the system during the time of power reduction.
The removal of the compensation capacitor may lead to a reduction of the power factor of the system.
Only suitable for temperatures of up to 50°C inside of the luminaire. Use in tight luminaires and luminaires with tight reflectors not recommended.
**HQL LED Highbay**

LED replacement for HID lamps for high-bay luminaires

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### PRODUCT FEATURES

- Replacement for HQL: Suitable for operation with conventional control gear (CCG) for HQL or 230 V mains
- Replacement for other HID: Suitable for operation with line voltage without control gear
- Power factor: 0.9
- Type of protection: IP40
- High surge protection: up to 4 kV (L-N)

### PRODUCT BENEFITS

- Energy savings of up to 65 % when replacing mercury vapor lamps (HQL)
- Effective thermal management for wide operating temperature range
- Low maintenance costs thanks to long lifetime
- Instant 100 % light, no warm-up time

### AREAS OF APPLICATION

- LED alternative for applications requiring a high luminous flux
- Industrial and storage facilities
- Outdoor applications only in suitable luminaires

---

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>W</th>
<th>lm</th>
<th>K</th>
<th>CRI</th>
<th>E</th>
<th>D</th>
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<td>HQL LED Highbay 250 115° 95 W/4000K E40</td>
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<td>140</td>
<td>20000</td>
<td>4000</td>
<td>80</td>
<td>310</td>
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</tbody>
</table>

---

### SAFETY ADVICE

The bulb may be larger and heavier than the replaced bulb. Before installation it must be checked, if the luminaire and especially the holder is capable of carrying the weight of the lamp. Safety sling has to be installed. Only suitable for temperatures of up to 50°C inside of the luminaire. Not suitable for operation with ignitors. Operation on the capacitor can lead to a reduction of the power factor of the system. To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.
HQI LED HIGHBAY
LED replacement for HID lamps for high-bay luminaires

PRODUCT FEATURES
— Type of protection: IP40
— High surge protection: up to 4 kV (L–N)

PRODUCT BENEFITS
— Direct replacement for traditional HQI and NAV lamps thanks to CCG and ignitor compatibility
— Energy savings of up to 68 % when replacing traditional HQI lamps
— Effective thermal management for wide operating temperature range
— Low maintenance costs thanks to long lifetime
— Instant 100 % light, no warm-up time

AREAS OF APPLICATION
— LED alternative for applications requiring a high luminous flux
— Industrial and storage facilities
— Outdoor applications only in suitable luminaires

Product name | GTIN (EAN) | mW | W | lm | K | CRI | C | Lcos | R1 | R2 | R3 | R4 | R5 | R6 | R7 | R8 | R9 | R10 | R11
HQI HIGHBAY 250 120° 95 W/4000K E40 | 405807612631 | 250 | 640 | 95 | 13000 | 4000 | ≥80 | 307 | 230 | 120 | 50000 | E | 4 | 1
HQI HIGHBAY 400 120° 140 W/4000K E40 | 405807612655 | 400 | 640 | 140 | 20000 | 4000 | ≥80 | 307 | 230 | 120 | 50000 | E | 4 | 1

SAFETY ADVICE
Not suitable for operation with 230 V line voltage.
The bulb may be larger and heavier than the replaced bulb. Before installation it must be checked, if the luminaire and especially the holder is capable of carrying the weight of the lamp.
Safety sling has to be installed.
To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.
Only suitable for temperatures of up to 50°C inside of the luminaire.
LED PIN 12 V DIM1

Dimmable low-voltage 12 V LED lamps with retrofit pin base

PRODUCT FEATURES
— Dimmable (with many common dimmers, see also www.ledvance.com/dim)
— Compatible with many common conventional and electronic control gears (see also compatibility list)
— LED alternative to low voltage halogen lamps
— Base: G4, GY6.35

PRODUCT BENEFITS
— Variable use at Direct Current and Alternating Current
— Good all-around light emission
— Ideal for decorative and free-burning applications
— Very long lifetime of up to 25,000 h
— Four year guarantee

AREAS OF APPLICATION
— Decorative applications
— Atmospheric accent lighting throughout the home
— Outdoor applications only in suitable luminaires

SAFETY ADVICE
To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>w</th>
<th>W</th>
<th>Im</th>
<th>K</th>
<th>CRI</th>
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<th>25000</th>
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<td>64</td>
<td>2</td>
<td>200</td>
<td>2700</td>
<td>≥80</td>
<td>40</td>
<td>15</td>
<td>320</td>
<td>25000</td>
<td>F</td>
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<tr>
<td>P DIM PIN 40 320° 4.5 W/2700K GY6.35</td>
<td>4058075607235</td>
<td>40</td>
<td>GY6.35</td>
<td>4.5</td>
<td>470</td>
<td>2700</td>
<td>≥80</td>
<td>50</td>
<td>18</td>
<td>320</td>
<td>20000</td>
<td>F</td>
</tr>
</tbody>
</table>
LED PIN MICRO 12 V¹,²
Small sized low-voltage 12 V LED lamps with retrofit pin base

COMPATIBILITY LIST
Compatibility list also online:
ledvance.com/compatibility

PRODUCT FEATURES
— Compatible with many common conventional and electronic control gears (see also compatibility list)
— LED alternative to low voltage halogen lamps
— Base: G4

PRODUCT BENEFITS
— Extremely small dimensions
— Variable use at Direct Current and Alternating Current
— Good all-around light emission
— Ideal for decorative and free-burning applications
— Long lifetime of up to 15,000 h

AREAS OF APPLICATION
— Decorative applications
— Atmospheric accent lighting throughout the home
— Outdoor applications only in suitable luminaires

SAFETY ADVICE
To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>W</th>
<th>Im</th>
<th>K</th>
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</table>

¹ Protection class: IP20 ² Non-dimmable ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee ⁴ L70/B50 ⁵ Energy efficiency class (IEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM LED PIN 12V¹,²
Low-voltage 12 V LED lamps with retrofit pin base

PRODUCT FEATURES
— Compatible with many common conventional and electronic control gears (see also compatibility list)
— LED alternative to low voltage halogen lamps
— Base: G4, GY6.35

PRODUCT BENEFITS
— Variable use at Direct Current and Alternating Current
— Good all-around light emission
— Ideal for decorative and free-burning applications
— Long lifetime of up to 15,000 h
— Four year guarantee

AREAS OF APPLICATION
— Decorative applications
— Atmospheric accent lighting throughout the home
— Shops, hotels and restaurants
— Outdoor applications only in suitable luminaires

SAFETY ADVICE
To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.

| Product name | GTIN (EAN) | ³W | ³W/²K | lm | CRI | T°k | Lifetime | Guarantee
<table>
<thead>
<tr>
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<td>470</td>
<td>2700</td>
<td>≥80</td>
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¹ Protection class: IP20 | ² Non-dimmable | ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ⁴ L70/B50 | ⁵ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM DIM LED PIN G9

Dimmable LED lamps with retrofit pin base G9

PRODUCT FEATURES
— Dimmable (with many common dimmers, see also www.ledvance.com/dim)
— LED alternative to high voltage halogen lamps

PRODUCT BENEFITS
— Good all-around light emission
— Very long lifetime of up to 25,000 h
— Ideal for decorative and free-burning applications
— Five year guarantee

AREAS OF APPLICATION
— Atmospheric accent lighting throughout the home
— Shops, hotels and restaurants
— Outdoor applications only in suitable luminaires

SAFETY ADVICE
To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.
PARATHOM LED PIN G9\textsuperscript{1,2}

LED lamps with retrofit pin base G9

PRODUCT FEATURES

— LED alternative to conventional high voltage lamps
— Good quality of light; color rendering index $R_a \geq 80$; constant chromaticity

PRODUCT BENEFITS

— Good all-around light emission
— Long lifetime of up to 15,000 h
— Four year guarantee

AREAS OF APPLICATION

— Atmospheric accent lighting throughout the home
— Shops, hotels and restaurants
— Outdoor applications only in suitable luminaires

SAFETY ADVICE

To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
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<th>K</th>
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<td>2.6</td>
<td>320</td>
<td>4,000</td>
<td>80</td>
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<td>P PIN 50 4.8 W/4000K G9</td>
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</table>
PARATHOM SPECIAL T26\textsuperscript{1,2}

Special LED lamps for refrigerators

PRODUCT FEATURES

\begin{itemize}
  \item LED alternative to conventional high voltage lamps
  \item Good quality of light; color rendering index $R_a \geq 80$; constant chromaticity
\end{itemize}

PRODUCT BENEFITS

\begin{itemize}
  \item Extremely small dimensions
  \item Good all-around light emission
  \item Ideal for decorative and free-burning applications
  \item Long lifetime of up to 15,000 h
  \item Four year guarantee
\end{itemize}

AREAS OF APPLICATION

\begin{itemize}
  \item Small designer luminaires
  \item Domestic refrigerators
  \item Sewing machines
  \item Outdoor applications only in suitable luminaires
\end{itemize}

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>W</th>
<th>K</th>
<th>CRI</th>
<th>L70/B50</th>
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<td>P SPC.T26 20 2.3 W/2700K E14</td>
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<td>E14</td>
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<td>E14</td>
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\textsuperscript{1} Protection class: IP20  \textsuperscript{2} Non-dimmable  \textsuperscript{3} You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee  \textsuperscript{4} L70/B50  \textsuperscript{5} Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LED SPECIAL T26\textsuperscript{1,2}

Small special LED lamps with E14 screw base

PRODUCT FEATURES

- LED alternative to conventional high voltage lamps
- Good quality of light; color rendering index $R_a \geq 80$; constant chromaticity

PRODUCT BENEFITS

- Extremely small dimensions
- Good all-around light emission
- Ideal for decorative and free-burning applications
- Long lifetime of up to 15,000 h
- Three year guarantee

AREAS OF APPLICATION

- Domestic refrigerators
- Atmospheric accent lighting throughout the home
- Small designer luminaires
- Sewing machines
- Outdoor applications only in suitable luminaires

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>$W$</th>
<th>$l_m$</th>
<th>$K$</th>
<th>CRI</th>
<th>$\eta$</th>
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<tr>
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\textsuperscript{1} Protection class: IP20 | \textsuperscript{2} Non-dimmable | You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | \textsuperscript{3} L70/B50 |

\textsuperscript{4} Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LED SPECIAL T SLIM DIM¹,²
Dimmable slim LED lamps

PRODUCT FEATURES
— Dimmable (with many common dimmers, see also www.ledvance.com/dim)
— LED alternative to conventional high voltage lamps
— Good quality of light; color rendering index Ra: ≥ 80; constant chromaticity

PRODUCT BENEFITS
— Easy replacement of halogen lamps thanks to compact design
— Ideal in particular for many small designer luminaires
— Lower thermal output (compared with the standard reference product)
— Three year guarantee

AREAS OF APPLICATION
— Small designer luminaires
— Wherever compact and efficient lamps are needed
— Outdoor applications only in suitable luminaires

SAFETY ADVICE
To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.

<table>
<thead>
<tr>
<th>Product</th>
<th>GTIN (EAN)</th>
<th>W</th>
<th>Im</th>
<th>K</th>
<th>CRI</th>
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<th>30000</th>
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<td>NEW T SLIM DIM 60 320° 7 W/2700K GU10</td>
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<td>GU10</td>
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<tr>
<td>NEW T SLIM DIM 75 320° 9 W/2700K B15d</td>
<td>4058075607194</td>
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<td>B15d</td>
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<td>1055</td>
<td>2700</td>
<td>≥ 80</td>
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</tbody>
</table>

¹ Protection class: IP20 | ² Non-dimmable | ¹ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ⁴ L70/B50 | ⁵ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LED SPECIAL T SLIM

Slim LED lamps with B15d base

PRODUCT FEATURES
— LED replacement for halogen lamps with B15d base
— Good quality of light; color rendering index Ra: ≥ 80; constant chromaticity
— Not dimmable

PRODUCT BENEFITS
— Easy replacement of halogen lamps thanks to compact design
— Ideal in particular for many small designer luminaires
— Long lifetime of up to 15,000 h
— Very low energy consumption
— Lower thermal output (compared with the standard reference product)

AREAS OF APPLICATION
— Small designer luminaires
— Luxurious living areas
— Outdoor applications only in suitable luminaires

SAFETY ADVICE
To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.

Product name          GTIN (EAN)          wSW  W  lm  K  CRI  VT  TH  TN  EN  H  L
SPC.T SLIM 60 320° 7 W/2700K B15d          4058075809568  60 815d 7 806 2700 80 90 18 320 15 000 E 4

1 Protection class: IP20  |  2 Non-dimmable  |  You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee  |  4 L70/B50  | 5 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM DIM LINE R7s
Dimmable double-ended special LED lamps

PRODUCT FEATURES
- Dimmable (with many common dimmers, see also www.ledvance.com/dim)
- LED alternative to conventional R7s lamps
- Good quality of light; color rendering index Ra: ≥ 80; constant chromaticity

PRODUCT BENEFITS
- Fits into most R7s luminaires thanks to eccentric base
- Good all-around light emission
- Lower thermal output (compared with the standard reference product)
- Five year guarantee

AREAS OF APPLICATION
- General illumination within ambient temperatures from -20…+40 °C
- Hospitality
- Domestic applications
- Outdoor applications only in suitable luminaires

SAFETY ADVICE
To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>W</th>
<th>Im</th>
<th>K</th>
<th>CRI</th>
<th>1</th>
<th>90 °</th>
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<td>R7s</td>
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<td>R7s</td>
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<td>2700</td>
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<td>R7s</td>
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<td>2452</td>
<td>2700</td>
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1 Protection class: IP20 | You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | L70/B50 | Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
## PARATHOM LINE R7s¹,²
Double-ended special LED lamps

1. Protection class: IP20
2. Non-dimmable
3. You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee
4. L70/B50
5. Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

### PRODUCT FEATURES
- LED alternative to conventional R7s lamps
- Good quality of light; color rendering index Rₐ: ≥ 80; constant chromaticity

### PRODUCT BENEFITS
- Fits into most R7s luminaires thanks to eccentric base
- Good all-around light emission
- Long lifetime of up to 15,000 h
- Lower thermal output (compared with the standard reference product)
- Five year guarantee

### AREAS OF APPLICATION
- General illumination within ambient temperatures from -20...+40 °C
- Hospitality
- Domestic applications
- Outdoor applications only in suitable luminaires

### SAFETY ADVICE
To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.

### Product Table

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LED SLIM LINE R7S₁,₂
Slim LED lamps with retrofit base R7s

PRODUCT FEATURES
— LED alternative to conventional R7s lamps
— Good quality of light; color rendering index Ra: ≥ 80; constant chromaticity

PRODUCT BENEFITS
— Particularly compact dimensions
— Lower thermal output (compared with the standard reference product)
— Long lifetime of up to 15,000 h
— Three year guarantee

AREAS OF APPLICATION
— General illumination within ambient temperatures from -20…+40 °C
— Outdoor applications only in suitable luminaires

SAFETY ADVICE
To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.

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<th>Product name</th>
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₁ Protection class: IP20 | ₂ Non-dimmable | ₃ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ₄ L70/B50 | ₅ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LED STAR LINE S19¹,²
Special LED lamps with S19 base

PRODUCT FEATURES
— LED alternative to conventional lamps
— Mercury-free lamps

PRODUCT BENEFITS
— Long life
— Low energy consumption
— No UV and near-IR radiation in the light beam
— Three year guarantee

AREAS OF APPLICATION
— Domestic applications
— Outdoor applications only in suitable luminaires

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¹ Protection class: IP20 | ² Non-dimmable | ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ⁴ L70/B50 | ⁵ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
CIRCOLUX LED¹,²
Circular LED lamps with E27 screw base

PRODUCT FEATURES
— Fold out base before first use
— Good quality of light; color rendering index Ra ≥ 80; constant chromaticity
— Not dimmable

PRODUCT BENEFITS
— High luminous flux
— Long lifetime of up to 15,000 h
— Low energy consumption
— Three year guarantee

AREAS OF APPLICATION
— LED alternative for applications requiring a high luminous flux
— General illumination
— Large shades and pendant luminaires
— Outdoor applications only in suitable luminaires

Product name | GTIN (EAN) | W | Im | K | CRI | ° | tNd | F | 230V
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
CIR 100 160° 14.5W/2700K E27 | 4058075669999 | 100 | 14.5 | 1.521 | 2700 | 80 | 86 | 260 | 160 | 15000 | F | 4 | 1

¹ Protection class: IP20 | ² Non-dimmable | ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ⁴ L70/B50 | ⁵ Energy efficiency class (IEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM PRO CLASSIC A

LED lamps with classic bulbs

PRODUCT FEATURES

— Professional LED lamps for line voltage
— Beam angle: up to 300°
— Dimmable
— Color rendering index R°: 95

PRODUCT BENEFITS

— Lamps with innovative LED „filament“ technology
— Design, dimensions, luminous flux comparable to a halogen lamp
— Very low energy consumption
— No UV and near-IR radiation in the light beam
— Instant 100 % light, no warm-up time

AREAS OF APPLICATION

— Perfect for decorative installations
— Domestic applications
— General illumination
— Outdoor use in outdoor luminaires only (minimum IP65)

Product name | GTIN (EAN) | W | lm | K | CRI | L2000 | L50000 | Indicator
--- | --- | --- | --- | --- | --- | --- | --- | ---
P PRO CLAS A 40 4 W/2700K E27 | 405807591813 | 40 | E27 | 4 | 470 | 2700 | ≥95 | 105 | 60 | clear | 15000 | E | 10 | 1
P PRO CLAS A 60 7.5 W/2700K E27 | 405807591790 | 60 | E27 | 7.5 | 806 | 2700 | ≥95 | 105 | 60 | clear | 15000 | F | 10 | 1

1 Protection class: IP20 | 2 Dimmable (with many common dimmers, see also www.ledvance.com/dim) All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. | 3 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 4 L70/B50 | 5 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM PRO CLASSIC B

LED lamps, classic mini-candle shape

PRODUCT FEATURES
— Professional LED lamps for line voltage
— Beam angle: up to 300°
— Dimmable
— Color rendering index Rₐ: 95

PRODUCT BENEFITS
— Lamps with innovative LED „filament“ technology
— Design, dimensions, luminous flux comparable to a halogen lamp
— Very low energy consumption
— No UV and near-IR radiation in the light beam
— Instant 100 % light, no warm-up time

AREAS OF APPLICATION
— Perfect for decorative installations
— Domestic applications
— General illumination
— Outdoor use in outdoor luminaires only (minimum IP65)

Product name: PARATHOM PRO CLASSIC B 40 4 W/2700K E14
GTIN (EAN): 4058075981776

Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

1 Protection class: IP20 | 2 Dimmable (with many common dimmers, see also www.ledvance.com/dim) All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. | 3 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 4 L70/B50 |
PARATHOM PRO CLASSIC P¹
LED lamps, classic mini-ball shape

PRODUCT FEATURES
— Professional LED lamps for line voltage
— Beam angle: up to 300°
— Dimmable
— Color rendering index Rₐ: 95

PRODUCT BENEFITS
— Lamps with innovative LED „filament“ technology
— Design, dimensions, luminous flux comparable to a halogen lamp
— Very low energy consumption
— No UV and near-IR radiation in the light beam
— Instant 100 % light, no warm-up time

AREAS OF APPLICATION
— Perfect for decorative installations
— Domestic applications
— General illumination
— Outdoor use in outdoor luminaires only (minimum IP65)

Product name | GTIN (EAN) | W | lm | K | CRI | Dimmable | Glass | 5 year guarantee
---|---|---|---|---|---|---|---|---
P PRO CLAS P 40 4 W/2700K E14² | 4058075997151 | 40 | E14 | 4 | 470 | 2700 | ≥95 | 77 | 45 | clear | 15000 | E | 10 | 1
P PRO CLAS P 40 4 W/2700K E27² | 4058075997137 | 40 | E27 | 4 | 470 | 2700 | ≥95 | 77 | 45 | clear | 15000 | E | 10 | 2

¹ Protection class: IP20 | ² Dimmable (with many common dimmers, see also www.ledvance.com/dim) All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. | ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ⁴ L70/B50 | ⁵ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM CLASSIC A DIM¹

Dimmable LED lamps, classic bulb shape

PRODUCT FEATURES
— Professional LED lamps for line voltage
— Beam angle: up to 300°
— Dimmable
— Base: E27, B22d
— Lifetime: up to 15,000 h

PRODUCT BENEFITS
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Very low energy consumption
— Robust against vibrations
— No UV and near-IR radiation in the light beam
— Instant 100 % light, no warm-up time

AREAS OF APPLICATION
— Perfect for decorative installations
— Domestic applications
— General illumination
— Outdoor use in outdoor luminaires only (minimum IP65)

Compatibility list also online:
ledvance.com/compatibility

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¹ Protection class: IP20 | ² Dimmable (with many common dimmers, see also www.ledvance.com/dim) | ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ¹ L70/B50 | ⁴ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM CLASSIC A\textsuperscript{1,2}

LED lamps, classic bulb shape

**PRODUCT FEATURES**
- Professional LED lamps for line voltage
- Beam angle: up to 300°
- Not dimmable
- Base: E27
- Lifetime: up to 15,000 h

**PRODUCT BENEFITS**
- Lamps with innovative LED „filament“ technology
- Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
- Very low energy consumption
- No UV and near-IR radiation in the light beam
- Instant 100 % light, no warm-up time

**AREAS OF APPLICATION**
- Perfect for decorative installations
- Domestic applications
- General illumination
- Outdoor use in outdoor luminaires only (minimum IP65)

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\textsuperscript{1} Protection class: IP20 \textsuperscript{2} Non-dimmable \textsuperscript{3} All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | L70/B50 | Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM CLASSIC B DIM¹
Dimmable LED lamps, classic bulb shape

PRODUCT FEATURES
— Professional LED lamps for line voltage
— Dimmable
— Lifetime: up to 15,000 h
— Beam angle: up to 300°
— Lamp made of glass

PRODUCT BENEFITS
— Design, dimensions, luminous flux comparable to an incandescent lamp
— Very low energy consumption
— Robust against vibrations
— Instant 100 % light, no warm-up time
— Can be easily fitted instead of ordinary light bulbs

AREAS OF APPLICATION
— Perfect for decorative installations
— Domestic applications
— General illumination
— Outdoor use in outdoor luminaires only (minimum IP65)

Product name | GTIN (EAN) | W | lm | K | CRI | SP | 3D | 100% | 15 000 | F | 10 | 3
---|---|---|---|---|---|---|---|---|---|---|---|---|---
P CLAS B 40 4.8 W/2700K E14¹ | 40907581219 0 | 40 | E14 | 4.8 | 470 | 2 700 | ≥80 | 97 | 35 | clear | 15 000 | 10 | 1
P CLAS B 40 4.8 W/2700K E27² | 40907580970 0 | 40 | E27 | 4.8 | 470 | 2 700 | ≥80 | 95 | 35 | clear | 15 000 | 10 | 2
P CLAS B 40 4.8 W/2700K E14¹ | 40907581237 0 | 40 | E14 | 4.8 | 470 | 2 700 | ≥80 | 97 | 35 | frosted | 15 000 | 10 | 3
P CLAS B 40 4.8 W/2700K B22d² | 40907580755 0 | 40 | B22d | 4.8 | 470 | 2 700 | ≥80 | 94 | 35 | frosted | 15 000 | 10 | 4
P CLAS B 60 5.5 W/2700K E14¹ | 40907580717 0 | 60 | E14 | 5.5 | 836 | 2 700 | ≥80 | 100 | 35 | frosted | 15 000 | E | 10 | 3

¹ Protection class: IP20 | ² Dimmable (with many common dimmers, see also www.ledvance.com/dim) | ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ⁴ L70/B50 | ⁵ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
**PARATHOM CLASSIC B**

LED lamps, classic mini-candle shape

### PRODUCT FEATURES
- Professional LED lamps for line voltage
- Beam angle: up to 300°
- Base: E14
- Lifetime: up to 15,000 h

### PRODUCT BENEFITS
- Lamps with innovative LED „filament“ technology
- Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
- No UV and near-IR radiation in the light beam
- Instant 100 % light, no warm-up time
- Can be easily fitted instead of ordinary light bulbs

### AREAS OF APPLICATION
- Perfect for decorative installations
- Domestic applications
- General illumination
- Outdoor use in outdoor luminaires only (minimum IP65)

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**Product name GTIN (EAN)**

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PARATHOM CLASSIC BA\textsuperscript{1,2}

LED lamps, classic bulb shape

**PRODUCT FEATURES**

- Professional LED lamps for line voltage
- Beam angle: up to 300°
- Not dimmable
- Base: E14
- Lifetime: up to 15,000 h

**PRODUCT BENEFITS**

- Lamps with innovative LED „filament“ technology
- Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
- Very low energy consumption
- No UV and near-IR radiation in the light beam
- Instant 100% light, no warm-up time

**AREAS OF APPLICATION**

- Perfect for decorative installations
- Domestic applications
- General illumination
- Outdoor use in outdoor luminaires only (minimum IP65)

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\textsuperscript{1} Protection class: IP20  \textsuperscript{2} Non-dimmable  \textsuperscript{1} All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. You will find further information and the exact guarantee terms and conditions at [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)  \textsuperscript{4} L70/B50  \textsuperscript{4} Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM CLASSIC BW¹,²
LED lamps, classic bulb shape

PRODUCT FEATURES
— Professional LED lamps for line voltage
— Beam angle: up to 300°
— Not dimmable
— Base: E14
— Lifetime: up to 15,000 h

PRODUCT BENEFITS
— Lamps with innovative LED “filament” technology
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— No UV and near-IR radiation in the light beam
— Instant 100% light, no warm-up time
— Can be easily fitted instead of ordinary light bulbs

AREAS OF APPLICATION
— Perfect for decorative installations
— Domestic applications
— General illumination
— Outdoor use in outdoor luminaires only (minimum IP65)

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Product name GTIN (EAN)  watts  W  lm  K  CRI  10  L70/B50  EEC  year guarantee
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¹ Protection class: IP20 ² Non-dimmable ³ All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee ¹ L70/B50 ¹ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
OSRAM LED LAMPS FROM LEDVANCE | LED LAMPS IN CLASSIC FORMS

PARATHOM CLASSIC P DIM¹
Dimmable LED lamps, classic bulb shape

PRODUCT FEATURES
— Professional LED lamps for line voltage
— Dimmable
— Lifetime: up to 15,000 h
— Beam angle: up to 300°
— Lamp made of glass

PRODUCT BENEFITS
— Design, dimensions, luminous flux comparable to an incandescent lamp
— Very low energy consumption
— Robust against vibrations
— Lamps with innovative LED „filament" technology
— Instant 100 % light, no warm-up time

AREAS OF APPLICATION
— Perfect for decorative installations
— Domestic applications
— General illumination
— Outdoor use in outdoor luminaires only (minimum IP65)

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¹ Protection class: IP20 | ² Dimmable (with many common dimmers, see also www.ledvance.com/dim) | ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ⁴ L70/B50 | ⁵ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM CLASSIC P₁,₂

LED lamps, classic mini-ball shape

**PRODUCT FEATURES**
- Professional LED lamps for line voltage
- Beam angle: up to 300°
- Not dimmable
- Lifetime: up to 15,000 h
- Lamp made of glass

**PRODUCT BENEFITS**
- Lamps with innovative LED „filament“ technology
- Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
- Very low energy consumption
- No UV and near-IR radiation in the light beam
- Instant 100 % light, no warm-up time

**AREAS OF APPLICATION**
- Perfect for decorative installations
- Domestic applications
- General illumination
- Outdoor use in outdoor luminaires only (minimum IP65)

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₁ Protection class: IP20 ₂ Non-dimmable  All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value  You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee  L70/B50 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM CLASSIC GLOBE\textsuperscript{1,2}

LED lamps, classic ball shape

PRODUCT FEATURES
- Professional LED lamps for line voltage
- Not dimmable
- Lifetime: up to 15,000 h
- Beam angle: up to 360°
- Lamp made of glass

PRODUCT BENEFITS
- Lamps with innovative LED „filament“ technology
- Very low energy consumption
- Instant 100 % light, no warm-up time
- Can be easily fitted instead of ordinary light bulbs

AREAS OF APPLICATION
- Perfect for decorative installations
- Domestic applications
- General illumination
- Outdoor use in outdoor luminaires only (minimum IP65)

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\textsuperscript{1} Protection class: IP20 \textsuperscript{2} Non-dimmable \textsuperscript{1} All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. \textsuperscript{1} You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee \textsuperscript{1} L70/B50 \textsuperscript{1} Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM CLASSIC GLOBE DIM¹
LED lamps, classic ball shape

PRODUCT FEATURES
— Dimmable
— Lifetime: up to 15,000 h
— Beam angle: up to 360°
— Professional LED lamps for line voltage
— Lamp made of glass

PRODUCT BENEFITS
— Lamps with innovative LED „filament“ technology
— Very low energy consumption
— Can be easily fitted instead of ordinary light bulbs
— Instant 100 % light, no warm-up time

AREAS OF APPLICATION
— Perfect for decorative installations
— Domestic applications
— General illumination
— Outdoor use in outdoor luminaires only (minimum IP65)

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<th>Product name</th>
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¹ Protection class: IP20 ² Dimmable (with many common dimmers, see also www.ledvance.com/dim). All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ³ L70/B50 | ⁴ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM CLASSIC ST\(^1,2\)
LED lamps, classic Edison bulb shape

PRODUCT FEATURES
— Professional LED lamps for line voltage
— Not dimmable
— Lifetime: up to 15,000 h
— Beam angle: up to 360°
— Lamp made of glass

PRODUCT BENEFITS
— Lamps with innovative LED „filament“ technology
— Very low energy consumption
— Instant 100 % light, no warm-up time
— Can be easily fitted instead of ordinary light bulbs

AREAS OF APPLICATION
— Perfect for decorative installations
— Domestic applications
— General illumination
— Outdoor use in outdoor luminaires only (minimum IP65)

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\(^1\) Protection class: IP20 \(^2\) Non-dimmable \(^3\) All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. \(^4\) You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee \(^5\) L70/B50 \(^6\) Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM CLASSIC P Mirror\textsuperscript{1,2}

LED lamps, classic mini-ball shape with mirror bulb crown

PRODUCT FEATURES
— Bulb crown coating: gold or silver
— Beam angle: up to 300°
— Lamp made of glass
— Good quality of light; color rendering index $R_\text{a} \geq 80$; constant chromaticity

PRODUCT BENEFITS
— Long lifetime of up to 15,000 h
— Low energy consumption
— Easy relamping thanks to compact design
— Instant 100 % light, no warm-up time
— Lamps with innovative LED „filament“ technology

AREAS OF APPLICATION
— Perfect for decorative installations
— Mirror lighting
— Domestic applications
— General illumination
— Outdoor use in outdoor luminaires only (minimum IP65)

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<th>K</th>
<th>CRI</th>
<th>T90</th>
<th>g</th>
<th>B</th>
<th>10000</th>
<th>F</th>
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</thead>
</table>
P MR SIL CLAS P 31 4 W/2700K E14\textsuperscript{1} | 4058075091394 | 31 | 4 | 380 | 2700 | ≥80 | 84 | 45 | clear | 15/000 | F | 10 | 1

\textsuperscript{1} Protection class: IP20 | \textsuperscript{2} Non-dimmable | All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. | You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | L70/B50 | Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM CLASSIC A Mirror\(^1,2\)

LED lamps, classic bulb shape with mirror bulb crown

**PRODUCT FEATURES**
- Bulb crown coating: gold or silver
- Lamp made of glass
- Good quality of light; color rendering index \(R_a \geq 80\); constant chromaticity

**PRODUCT BENEFITS**
- Long lifetime of up to 15,000 h
- Low energy consumption
- Easy relamping thanks to compact design
- Instant 100 % light, no warm-up time
- Lamps with innovative LED „filament“ technology

**AREAS OF APPLICATION**
- Perfect for decorative installations
- Mirror lighting
- Domestic applications
- General illumination
- Outdoor use in outdoor luminaires only (minimum IP65)

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>W</th>
<th>lm</th>
<th>K</th>
<th>CRI</th>
<th>T</th>
<th>10000h</th>
<th>F</th>
<th>10</th>
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<tr>
<td>P MIR SIL CLAS A 50 6.5 W/2700K E27(^1)</td>
<td>405807591691</td>
<td>50</td>
<td>6.5</td>
<td>650</td>
<td>(&gt;80)</td>
<td>105</td>
<td>60</td>
<td>clear</td>
<td>15000</td>
<td>F</td>
</tr>
</tbody>
</table>

\(^1\) Protection class: IP20 \(^2\) Non-dimmable \(^3\) All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value \(^4\) You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee \(^5\) L70/B50 \(^6\) Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LED STAR DÉCOR CLASSIC A¹,²
Colored LED lamps, classic bulb shape, with retrofit screw base

PRODUCT FEATURES
— LED lamps for line voltage
— Conventional light bulb shape
— Base: E27
— Not suitable for use with dimmers
— Mercury-free lamps

PRODUCT BENEFITS
— Very low energy consumption
— Extremely long life
— Simple direct replacement for conventional incandescent lamps
— Low thermal output
— Suitable for indoors and outdoors

AREAS OF APPLICATION
— Indoor lighting, terraces, beer gardens and restaurants
— Energy-saving low-maintenance use in marquees and leisure parks
— Garlands of lights
— Outdoor use in outdoor luminaires only (minimum IP65)

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>W</th>
<th>lm</th>
<th>K</th>
<th>CRI</th>
<th>U</th>
<th>T</th>
<th>E</th>
<th>P</th>
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<tbody>
<tr>
<td>ST CLAS A 15 300° 2.5 W/2200K E27²</td>
<td>40580743922</td>
<td>23</td>
<td>2.5</td>
<td>220</td>
<td>≥60</td>
<td>105</td>
<td>60</td>
<td>Yellow</td>
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<tr>
<td>ST CLAS A 15 300° 2.5 W/1000K E27²</td>
<td>40580743946</td>
<td>7</td>
<td>2.5</td>
<td>100</td>
<td>≥55</td>
<td>105</td>
<td>60</td>
<td>Red</td>
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<td>150</td>
<td>≥50</td>
<td>105</td>
<td>60</td>
<td>Orange</td>
<td>15000</td>
</tr>
<tr>
<td>ST CLAS A 15 300° 2.5 W/7500K E27²</td>
<td>40580743984</td>
<td>7</td>
<td>2.5</td>
<td>750</td>
<td>≥15</td>
<td>105</td>
<td>60</td>
<td>Green</td>
<td>15000</td>
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<tr>
<td>ST CLAS A 15 300° 2.5 W/9500K E27²</td>
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<td>2.5</td>
<td>950</td>
<td>10</td>
<td>105</td>
<td>60</td>
<td>Blue</td>
<td>15000</td>
</tr>
</tbody>
</table>
# Vintage 1906 LED DIM¹

LED lamps, dimmable vintage edition

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**PRODUCT FEATURES**

- LED lamps for line voltage
- Lamp made of glass
- Lifetime: up to 15,000 h
- Beam angle: up to 360°
- Dimmable

**PRODUCT BENEFITS**

- Very low energy consumption
- Instant 100% light, no warm-up time
- Can be easily fitted instead of ordinary light bulbs
- Lamps with innovative LED „filament“ technology

**AREAS OF APPLICATION**

- Perfect for decorative installations
- Domestic applications
- General illumination
- Outdoor use in outdoor luminaires only (minimum IP65)

---

**Product name** | **GTIN (EAN)** | **W** | **W** | **lm** | **K** | **CRI** | **1000h** | **1000h** | **Smoke** | **15000h** | **Guarantee** |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>Vintage 1906 DIM Big Globe 12.5 W/1800K E27²</td>
<td>405807270046</td>
<td>16</td>
<td>E27</td>
<td>4</td>
<td>150</td>
<td>1800</td>
<td>≥80</td>
<td>287</td>
<td>200 Smoke</td>
<td>15 000</td>
<td>G  4 1</td>
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<tr>
<td>Vintage 1906 DIM BIG GRAPE 12.5 W/1800K E27²</td>
<td>405807270022</td>
<td>16</td>
<td>E27</td>
<td>4</td>
<td>150</td>
<td>1800</td>
<td>≥80</td>
<td>287</td>
<td>160 Smoke</td>
<td>15 000</td>
<td>G  4 2</td>
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<tr>
<td>Vintage 1906 DIM EDISON 25 4.5 W/2000K E27²</td>
<td>405807269965</td>
<td>28</td>
<td>E27</td>
<td>4</td>
<td>300</td>
<td>2000</td>
<td>≥80</td>
<td>143</td>
<td>64 Gold</td>
<td>15 000</td>
<td>G  4 4</td>
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<tr>
<td>Vintage 1906 DIM EDISON 55 7 W/2500K E27²</td>
<td>405807992380</td>
<td>55</td>
<td>E27</td>
<td>6.5</td>
<td>725</td>
<td>2400</td>
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<td>143</td>
<td>64 Gold</td>
<td>15 000</td>
<td>E  4 7</td>
</tr>
<tr>
<td>Vintage 1906 DIM GLOBE 55 7 W/2500K E27²</td>
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<td>55</td>
<td>E27</td>
<td>6.5</td>
<td>725</td>
<td>2400</td>
<td>≥80</td>
<td>168</td>
<td>124 Gold</td>
<td>15 000</td>
<td>E  4 8</td>
</tr>
</tbody>
</table>

¹ Protection class: IP20 ² Dimmable (with many common dimmers, see also www.ledvance.com/dim) All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee ³ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LED lamps, vintage edition

**PRODUCT FEATURES**
- LED lamps for line voltage
- Lamp made of glass
- Lifetime: up to 15,000 h
- Beam angle: up to 360°
- Good quality of light; color rendering index $R_c \geq 80$; constant chromaticity

**PRODUCT BENEFITS**
- Very low energy consumption
- Instant 100 % light, no warm-up time
- Can be easily fitted instead of ordinary light bulbs
- Lamps with innovative LED "filament" technology

**AREAS OF APPLICATION**
- Perfect for decorative installations
- Domestic applications
- General illumination
- Outdoor use in outdoor luminaires only (minimum IP65)

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**LED lamps with filament-style LED technology**

**OSRAM LED LAMPS FROM LEDVANCE | LED LAMPS IN CLASSIC FORMS**

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vintage 1906 BIG GRAPE 12 S W/1800K E27</td>
<td>405807269903</td>
</tr>
<tr>
<td>Vintage 1906 GLOBE 12 S W/1800K E27</td>
<td>405807269927</td>
</tr>
<tr>
<td>Vintage 1906 CLAS B 12.5 S W/2400K E14</td>
<td>405807263205</td>
</tr>
<tr>
<td>Vintage 1906 CLAS BA 12.5 S W/2400K E14</td>
<td>405807263229</td>
</tr>
<tr>
<td>Vintage 1906 CLAS BW 12.5 S W/2400K E14</td>
<td>405807263243</td>
</tr>
<tr>
<td>Vintage 1906 GLOBE 15 S W/1800K E27</td>
<td>405807269959</td>
</tr>
<tr>
<td>Vintage 1906 EDISON 15 S W/1800K E27</td>
<td>405807269941</td>
</tr>
<tr>
<td>Vintage 1906 TUBE 20 CL 2.5 W/2400K E27</td>
<td>405807180817</td>
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<tr>
<td>Vintage 1906 CLAS P 2.5 W/2400K E14</td>
<td>4058072698815</td>
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<tr>
<td>Vintage 1906 EDISON 22 2.5 W/2400K E27</td>
<td>4058071808706</td>
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<tr>
<td>Vintage 1906 CLAS A 22 2.5 W/2400K E27</td>
<td>4058072632199</td>
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<tr>
<td>Vintage 1906 CLAS BW 22 2.5 W/2400K E14</td>
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<tr>
<td>Vintage 1906 CLAS B 22 2.5 W/2400K E14</td>
<td>405807263212</td>
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<td>Vintage 1906 GLOBE 22 2.5 W/2400K E27</td>
<td>4058071808950</td>
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<td>Vintage 1906 CLAS BA 22 2.5 W/2400K E14</td>
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<td>Vintage 1906 EDISON 25 5 W/2000K E27</td>
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<td>Vintage 1906 GLOBE 25 CL 5 W/2000K E27</td>
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<td>Vintage 1906 CLAS B 35 4 W/2400K E14</td>
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<td>Vintage 1906 CLAS P 35 4 W/2400K E14</td>
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<tr>
<td>Vintage 1906 CLAS A 35 4 W/2400K E27</td>
<td>4058070293080</td>
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<td>Vintage 1906 OWAL 36 4.5 W/2500K E27</td>
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<td>Vintage 1906 EDISON 37 CL 4 W/2500K E27</td>
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<tr>
<td>Vintage 1906 Diamond 40 CL 4.5 W/2500K E27</td>
<td>405807091950</td>
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<tr>
<td>Vintage 1906 PINE 40 4.5 W/2500K E27</td>
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<tr>
<td>Vintage 1906 CLAS A 55 6.5 W/2400K E27</td>
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<td>Vintage 1906 GLOBE 54 6.5 W/2400K E27</td>
<td>40580709406</td>
</tr>
<tr>
<td>Vintage 1906 CLAS A 68 8 W/2500K E27</td>
<td>405807093359</td>
</tr>
</tbody>
</table>

1 Protection class: IP20 | 2 Non-dimmable | 3 All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | 4 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 5 L70/B50 | 6 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)"
Vintage 1906 PenduLum PRO
Indoor pendant luminaires in vintage style

PRODUCT FEATURES
- Reduced industrial design
- Made of classic materials
- Special vintage appeal when combined with 1906 LED and halogen lamps
- Flexible mounting options: leash principle
- Available in various colors

PRODUCT BENEFITS
- Flexible lighting thanks to countless mounting possibilities
- Made of solid aluminum with high-quality appearance
- Semi-matt surface with great look and feel
- Accessories for flexible mounting options included

AREAS OF APPLICATION
- Living areas (living rooms, dining rooms, bedrooms etc.)
- Professional (hotels, bars, boutiques etc.)

Product name | GTIN (EAN) | Item | Pack size | Code
--- | --- | --- | --- | ---
Vintage 1906 PenduLum PRO Black | 4058073153844 | 68 | 3 000 | 4 | 1
Vintage 1906 PenduLum PRO Gold | 4058073153868 | 68 | 3 000 | 4 | 2
**Vintage 1906 PenduLum CANOPY**

Canopy for 1906 PenduLum

---

**PRODUCT FEATURES**
- Reduced industrial design
- Made of classic materials
- Special vintage appeal when combined with 1906 LED and halogen lamps

**PRODUCT BENEFITS**
- Ceiling mounting accessory to combine up to three PenduLum luminaires

**AREAS OF APPLICATION**
- Living areas (living rooms, dining rooms, bedrooms etc.)
- Professional (hotels, bars, boutiques etc.)

---

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vintage 1906 PenduLum Canopy</td>
<td>4058073168917</td>
</tr>
</tbody>
</table>
PARATHOM CLASSIC A DIM\(^{1,2}\)

Dimmable LED lamps, classic bulb shape

PRODUCT FEATURES
- Professional LED lamps for line voltage
- Dimmable
- Long lifetime: up to 25,000 h
- Good quality of light; color rendering index \(R_a \geq 80\); constant chromaticity

PRODUCT BENEFITS
- Low energy consumption
- High color consistency thanks to narrow binning
- Easy replacement of classic lamps thanks to compact design

AREAS OF APPLICATION
- Domestic applications
- General illumination
- Outdoor use in outdoor luminaires only (minimum IP65)

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<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>P CLAS A 60 8.8 W/2700K E27(^3)</td>
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<tr>
<td>P CLAS A 75 FR 10.5 W/2700K E27(^3)</td>
<td>4058075994203</td>
</tr>
<tr>
<td>P CLAS A 100 14 W/2700K E27(^3)</td>
<td>4058075994227</td>
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<td>P CLAS A 150 20 W/2700K E27(^3)</td>
<td>4058075994241</td>
</tr>
<tr>
<td>P CLAS A DIM 200 24.9 W/2700K E27(^3)</td>
<td>4058075659794</td>
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</tbody>
</table>

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\(^{1}\) Protection class: IP20  \(^{2}\) Non-dimmable  \(^{3}\) Dimmable (with many common dimmers, see also www.ledvance.com/dim)  \(^{4}\) You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee  \(^{5}\) L70/B50  \(^{6}\) Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
**PARATHOM CLASSIC A<sup>1,2</sup>**

LED lamps, classic bulb shape

---

**PRODUCT FEATURES**

- Professional LED lamps for line voltage
- Not dimmable
- Lifetime: up to 15,000 h
- Good quality of light; color rendering index Ra: ≥ 80; constant chromaticity

**PRODUCT BENEFITS**

- Low energy consumption
- Easy replacement of classic lamps thanks to compact design
- Instant 100 % light, no warm-up time

**AREAS OF APPLICATION**

- Domestic applications
- General illumination
- Outdoor use in outdoor luminaires only (minimum IP65)

---

**Product name** | **GTIN (EAN)** | **W** | **W** | **lm** | **K** | **CRI** | **L70/B50** | **Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)**
---|---|---|---|---|---|---|---|---
P CLAS A 40 FR 4.9 W/2700K E27<sup>1</sup> | 405807583275 | 40 | E27 | 4.9 | 470 | 2700 | ≥80 | 95 | 55 | frosted | 15/000 | F | 10 | 1
P CLAS A 40 FR 4.9 W/3000K E27<sup>2</sup> | 405807583299 | 40 | E27 | 4.9 | 470 | 4000 | ≥80 | 95 | 55 | frosted | 15/000 | F | 10 | 1
P CLAS A 60 FR 8.5 W/2700K E27<sup>1</sup> | 405807583176 | 60 | E27 | 8.5 | 806 | 2700 | ≥80 | 113 | 60 | frosted | 15/000 | F | 10 | 2
P CLAS A 60 FR 8.5 W/2700K B22d<sup>3</sup> | 405807583213 | 60 | B22d | 8.5 | 806 | 2700 | ≥80 | 112 | 60 | frosted | 15/000 | F | 10 | 3
P CLAS A 60 FR 8.5 W/4000K E27<sup>1</sup> | 405807583190 | 60 | E27 | 8.5 | 806 | 4000 | ≥80 | 113 | 60 | frosted | 15/000 | F | 10 | 2
P CLAS A 75 FR 10 W/2700K E27<sup>1</sup> | 405807583091 | 75 | E27 | 10 | 1055 | 2700 | ≥80 | 118 | 60 | frosted | 15/000 | F | 10 | 4
P CLAS A 75 FR 10 W/4000K E27<sup>1</sup> | 405807583114 | 75 | E27 | 10 | 1055 | 4000 | ≥80 | 118 | 60 | frosted | 15/000 | F | 10 | 4
P CLAS A 100 FR 13 W/2700K E27<sup>1</sup> | 405807583138 | 100 | E27 | 13 | 1521 | 2700 | ≥80 | 118 | 60 | frosted | 15/000 | F | 10 | 5
P CLAS A 100 FR 13 W/4000K E27<sup>1</sup> | 405807583152 | 100 | E27 | 13 | 1521 | 4000 | ≥80 | 118 | 60 | frosted | 15/000 | F | 10 | 5
P CLAS A 150 FR 19 W/2700K E27<sup>1</sup> | 405807583077 | 150 | E27 | 19 | 2452 | 2700 | ≥80 | 129 | 68 | frosted | 15/000 | E | 10 | 6
P CLAS A 200 24.9 W/2700K E27<sup>2</sup> | 405807609681 | 200 | E27 | 24.9 | 3452 | 2700 | ≥80 | 184 | 90 | frosted | 15/000 | E | 10 | 7

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<sup>1</sup> Protection class: IP20  |  <sup>2</sup> Non-dimmable  |  <sup>3</sup> All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value  |  You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee |  <sup>4</sup> L70/B50  |  <sup>5</sup> Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM CLASSIC B DIM¹

Dimmable LED lamps, classic mini-candle shape

PRODUCT FEATURES
— Professional LED lamps for line voltage
— Dimmable
— Lifetime: up to 25,000 h
— Good quality of light; color rendering index $R_a \geq 80$; constant chromaticity

PRODUCT BENEFITS
— Low energy consumption
— High color consistency thanks to narrow binning
— Easy replacement of classic lamps thanks to compact design

AREAS OF APPLICATION
— Domestic applications
— General illumination
— Outdoor use in outdoor luminaires only (minimum IP65)

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>W</th>
<th>lm</th>
<th>K</th>
<th>CRI</th>
<th>UGR</th>
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<th>$D_1$</th>
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<td>470</td>
<td>2700</td>
<td>≥80</td>
<td>102</td>
<td>35</td>
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</table>

¹ Protection class: IP20 | ² Dimmable (with many common dimmers, see also www.ledvance.com/dim) | All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ³ L70/B50 | ⁴ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM CLASSIC B¹,²
LED lamps, classic mini-candle shape

PRODUCT FEATURES
— Professional LED lamps for line voltage
— Not dimmable
— Lifetime: up to 15,000 h
— Good quality of light; color rendering index Ra: ≥ 80; constant chromaticity

PRODUCT BENEFITS
— Low energy consumption
— Easy replacement of classic lamps thanks to compact design
— Instant 100 % light, no warm-up time

AREAS OF APPLICATION
— Domestic applications
— General illumination
— Chandeliers
— Outdoor use in outdoor luminaires only (minimum IP65)

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>W</th>
<th>Im</th>
<th>K</th>
<th>CRI</th>
<th>t⁰</th>
<th>t¹</th>
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</thead>
<tbody>
<tr>
<td>P CLAS B 40 FR 4.9 W/2700K E14</td>
<td>405807583237</td>
<td>40</td>
<td>E14</td>
<td>4.9</td>
<td>470</td>
<td>2700</td>
<td>≥80</td>
</tr>
</tbody>
</table>

¹ Protection class: IP20 | ² Non-dimmable | ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ⁴ L70/B50 | ⁵ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM CLASSIC P DIM¹
Dimmable LED lamps, classic mini-ball shape

COMPATIBILITY LIST
Compatibility list also online:
ledvance.com/compatibility

PRODUCT FEATURES
— Professional LED lamps for line voltage
— Dimmable
— Long lifetime: up to 25,000 h
— Good quality of light; color rendering index Rₐ: ≥ 80; constant chromaticity

PRODUCT BENEFITS
— Low energy consumption
— High color consistency thanks to narrow binning
— Easy replacement of classic lamps thanks to compact design

AREAS OF APPLICATION
— Domestic applications
— General illumination
— Outdoor use in outdoor luminaires only (minimum IP65)

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>P CLAS P 4.9 W/2700K E14²</th>
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<tr>
<td></td>
<td>403075594289</td>
<td>40  E14 4.9 470 2700 ≥80 80 45 frosted 25000 F 10 1</td>
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¹ Protection class: IP20 | ² Dimmable (with many common dimmers, see also www.ledvance.com/dim) All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. | ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee |

² Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM CLASSIC P¹,²

LED lamps, classic mini-ball shape

PRODUCT FEATURES
— Professional LED lamps for line voltage
— Not dimmable
— Lifetime: up to 15,000 h
— Good quality of light; color rendering index Ra ≥ 80; constant chromaticity

PRODUCT BENEFITS
— Low energy consumption
— Easy replacement of classic lamps thanks to compact design
— Instant 100 % light, no warm-up time

AREAS OF APPLICATION
— Domestic applications
— General illumination
— Outdoor use in outdoor luminaires only (minimum IP65)

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>W</th>
<th>Im</th>
<th>K</th>
<th>CRI</th>
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<td>E14</td>
<td>4.9</td>
<td>470</td>
<td>≥80</td>
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</table>

¹ Protection class: IP20 | ² Non-dimmable | ³ All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | ¹ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ¹ L70/B50 | ¹ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM STICK\textsuperscript{1,2}

LED lamps, classic stick shape

![LED lamp](image)

### PRODUCT FEATURES
- LED alternative to conventional lamps
- Lifetime: up to 15,000 h
- Not dimmable
- Good quality of light; color rendering index \( R_a \geq 80 \); constant chromaticity

### PRODUCT BENEFITS
- Low energy consumption
- Attractive lamp appearance
- Instant 100% light, no warm-up time

### AREAS OF APPLICATION
- All domestic rooms, especially where the lamps are visible
- Wherever compact and efficient lamps are needed
- Outdoor use in outdoor luminaires only (minimum IP65)

#### Product Specifications

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<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>W/Im</th>
<th>K</th>
<th>CRI</th>
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\textsuperscript{1} Protection class: IP20 \textsuperscript{2} Non-dimmable \textsuperscript{1} All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee \textsuperscript{1} L70/B50 \textsuperscript{1} Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LED VALUE CLASSIC A¹,²

LED lamps, classic bulb shape

PRODUCT FEATURES
- LED alternative to conventional lamps
- Not dimmable
- Good color rendering (Rₐ ≥ 80) and color stability throughout the life of the lamp

PRODUCT BENEFITS
- Very low energy consumption
- Can be easily fitted instead of ordinary light bulbs

AREAS OF APPLICATION
- Domestic applications
- General illumination
- Outdoor use in outdoor luminaires only (minimum IP65)

<table>
<thead>
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<td>1055</td>
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</tbody>
</table>
**LED VALUE CLASSIC B\(^{1,2}\)**

LED lamps, classic mini-candle shape

---

**PRODUCT FEATURES**

- LED alternative to conventional lamps
- Not dimmable
- Good color rendering (Ra ≥ 80) and color stability throughout the life of the lamp

**PRODUCT BENEFITS**

- Very low energy consumption
- Simple direct replacement for conventional incandescent lamps
- Instant 100% light, no warm-up time

**AREAS OF APPLICATION**

- General illumination
- Domestic applications
- Chandeliers
- Outdoor use in outdoor luminaires only (minimum IP65)

---

<table>
<thead>
<tr>
<th>Product Name</th>
<th>GTIN (EAN)</th>
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<th>I (lm)</th>
<th>K (K)</th>
<th>CRI</th>
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<td>≥80</td>
<td>115</td>
<td>39</td>
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</tbody>
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\(^{1}\) Protection class: IP20 | \(^{2}\) Non-dimmable | \(^{3}\) All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | \(^{4}\) L70/B50 | \(^{5}\) Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LED VALUE CLASSIC P¹,²

LED lamps, classic mini-ball shape

PRODUCT FEATURES
- LED alternative to conventional lamps
- Not dimmable
- Good color rendering (Ra ≥ 80) and color stability throughout the life of the lamp

PRODUCT BENEFITS
- Very low energy consumption
- Simple direct replacement for conventional incandescent lamps
- Instant 100 % light, no warm-up time

AREAS OF APPLICATION
- General illumination
- Domestic applications
- Outdoor use in outdoor luminaires only (minimum IP65)

Product name | GTIN (EAN) | W | lm | K | CRI | L70/B50 | Energy efficiency class |
--- | --- | --- | --- | --- | --- | --- | --- |
VALUE CLAS P 40 4 W/2700K E14 ¹ | 405807148990 | 40 | E14 | 4 | 470 | 2700 | ≥80 | 77 | 45 | clear | 10000 | E | 10 | 1
VALUE CLAS P 40 FR 5.5 W/2700K E14 ¹ | 405807147898 | 40 | E14 | 4.9 | 470 | 2700 | ≥80 | 82 | 45 | frosted | 10000 | F | 10 | 2
VALUE CLAS P 40 FR 5.5 W/4000K E14 ¹ | 405807147911 | 40 | E14 | 4.9 | 470 | 4000 | ≥80 | 82 | 45 | frosted | 10000 | F | 10 | 2
VALUE CLAS P 40 FR 5.5 W/6500K E14 ¹ | 405807127630 | 40 | E14 | 4.9 | 470 | 6500 | ≥80 | 82 | 45 | frosted | 10000 | F | 10 | 2
VALUE CLAS P 60 FR 7.5 W/2700K E14 ¹ | 405807152939 | 60 | E14 | 7 | 806 | 2700 | ≥80 | 90 | 47 | frosted | 10000 | F | 10 | 3

¹ Protection class: IP20 | ² Non-dimmable | ¹ All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | ² L70/B50 | ¹ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM PRO PAR16¹
Dimmable LED reflector lamps PAR16 with retrofit pin base

PRODUCT FEATURES
— LED alternative to high voltage halogen lamps
— High color consistency: ≤ 3 SDCM
— Dimmable
— Base: GU10
— Lamp made of glass

PRODUCT BENEFITS
— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam
— Stepless dimming

AREAS OF APPLICATION
— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

Product name | GTIN (EAN) | mmW | W | lm | cd | K | CRI | 10a | 10b | 10c | 10d |
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
PPRO PAR 16 35° 3.4 W/2700K GU10² | 4058075683399 | 35 | GU10 | 3.4 | 230 | 490 | 2700 | 97 | 36 | 51 | 40000 | G | 10 | 1 |
PPRO PAR 16 35° 3.4 W/3000K GU10² | 4058075683375 | 35 | GU10 | 3.4 | 230 | 490 | 3000 | 97 | 36 | 51 | 40000 | G | 10 | 1 |
PPRO PAR 16 35° 3.4 W/4000K GU10² | 4058075683351 | 35 | GU10 | 3.4 | 230 | 490 | 4000 | 97 | 36 | 51 | 40000 | G | 10 | 1 |
PPRO PAR 16 50° 6 W/2700K GU10² | 4058075684500 | 50 | GU10 | 6 | 350 | 700 | 2700 | 97 | 36 | 50 | 40000 | G | 10 | 1 |
PPRO PAR 16 50° 6 W/3000K GU10² | 4058075684360 | 50 | GU10 | 6 | 350 | 700 | 3000 | 97 | 36 | 50 | 40000 | G | 10 | 1 |
PPRO PAR 16 50° 6 W/4000K GU10² | 4058075684120 | 50 | GU10 | 6 | 350 | 700 | 4000 | 97 | 36 | 50 | 40000 | G | 10 | 1 |
PPRO PAR 16 80° 9.5 W/2700K GU10² | 4058075689555 | 80 | GU10 | 9.5 | 575 | 840 | 2700 | 97 | 36 | 50 | 40000 | G | 10 | 2 |
PPRO PAR 16 80° 9.5 W/3000K GU10² | 4058075689331 | 80 | GU10 | 9.5 | 575 | 840 | 3000 | 97 | 36 | 50 | 40000 | G | 10 | 2 |
PPRO PAR 16 80° 9.5 W/4000K GU10² | 4058075689177 | 80 | GU10 | 9.5 | 575 | 840 | 4000 | 97 | 36 | 50 | 40000 | G | 10 | 2 |

¹ Protection class: IP20 | ² All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ⁴ L70/B50 | ⁵ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM DIM PAR16¹
Dimmable LED reflector lamps PAR16 with retrofit pin base

---

**PRODUCT FEATURES**
- LED alternative to high voltage halogen lamps
- High color consistency: ≤ 5 SDCM
- Dimmable
- Base: GU10
- Lamp made of glass

**PRODUCT BENEFITS**
- Quick, simple and safe replacement without rewiring
- Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
- Low maintenance costs thanks to long lifetime
- No UV and near-IR radiation in the light beam
- Stepless dimming

**AREAS OF APPLICATION**
- Shops and exhibition rooms
- Domestic applications
- Commercial applications
- Accent lighting
- Outdoor use in outdoor luminaires only (minimum IP65)

---

**PRODUCT BENEFITS**
- Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

---

**AREAS OF APPLICATION**
- Shops and exhibition rooms
- Domestic applications
- Commercial applications
- Accent lighting
- Outdoor use in outdoor luminaires only (minimum IP65)

---

**COMPATIBILITY LIST**
Compatibility list also online: ledvance.com/compatibility

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**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>W</th>
<th>lm</th>
<th>K</th>
<th>CRI</th>
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¹ Protection class: IP20 | ¹ All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | ¹ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ¹ EEC: Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
OSRAM LED LAMPS FROM LEDVANCE | LED REFLECTOR LAMPS

PARATHOM PAR16\(^1,2\)
LED reflector lamps PAR16 with retrofit pin base

PRODUCT FEATURES
- LED alternative to high voltage halogen lamps
- High color consistency: ≤ 6 SDCM
- Not dimmable
- Base: GU10
- Lamp made of glass

PRODUCT BENEFITS
- Quick, simple and safe replacement without rewiring
- Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
- Low maintenance costs thanks to long lifetime
- No UV and near-IR radiation in the light beam
- Instant 100 % light, no warm-up time

AREAS OF APPLICATION
- Shops and exhibition rooms
- Domestic applications
- Commercial applications
- Accent lighting
- Outdoor use in outdoor luminaires only (minimum IP65)

Product name | GTIN (EAN) | mW | W | lm | cd | K | CRI | Assurance | Year
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
P PAR 16 30 120° 4.3 W/2700K GU10\(^3\) | 4058075608030 | 30 | GU10 | 4.3 | 350 | 100 | 2700 | ≥80 | 120 | 50 | 15000 | G | 10 | 1
P PAR 16 30 120° 4.3 W/3000K GU10\(^3\) | 4058075608016 | 30 | GU10 | 4.3 | 350 | 100 | 3000 | ≥80 | 120 | 51 | 15000 | G | 10 | 1
P PAR 16 30 120° 4.3 W/4000K GU10\(^3\) | 4058075607996 | 30 | GU10 | 4.3 | 350 | 100 | 4000 | ≥80 | 120 | 51 | 15000 | G | 10 | 1
P PAR 16 35 36° 2.6 W/2700K GU10\(^3\) | 4058075608214 | 35 | GU10 | 2.6 | 230 | 400 | 2700 | ≥80 | 36 | 50 | 15000 | F | 10 | 2
P PAR 16 35 36° 2.6 W/3000K GU10\(^3\) | 4058075608191 | 35 | GU10 | 2.6 | 230 | 400 | 3000 | ≥80 | 36 | 51 | 15000 | F | 10 | 2
P PAR 16 35 36° 2.6 W/4000K GU10\(^3\) | 4058075608177 | 35 | GU10 | 2.6 | 230 | 400 | 4000 | ≥80 | 36 | 51 | 15000 | F | 10 | 2
P PAR 16 49 120° 6.9 W/2700K GU10\(^3\) | 4058075608771 | 49 | GU10 | 6.9 | 620 | 180 | 2700 | ≥80 | 120 | 51 | 15000 | F | 10 | 3
P PAR 16 49 120° 6.9 W/3000K GU10\(^3\) | 4058075608757 | 49 | GU10 | 6.9 | 620 | 180 | 3000 | ≥80 | 120 | 51 | 15000 | F | 10 | 3
P PAR 16 49 120° 6.9 W/4000K GU10\(^3\) | 4058075608733 | 49 | GU10 | 6.9 | 620 | 180 | 4000 | ≥80 | 120 | 51 | 15000 | F | 10 | 3
P PAR 16 50 36° 4.5 W/2700K E14\(^3\) | 4058075608153 | 50 | E14 | 4.5 | 350 | 700 | 2700 | ≥80 | 36 | 50 | 10000 | F | 10 | 4
P PAR 16 50 36° 4.5 W/3000K GU10\(^3\) | 4058075608139 | 50 | GU10 | 4.5 | 350 | 600 | 3000 | ≥80 | 36 | 50 | 10000 | F | 10 | 2
P PAR 16 50 36° 4.5 W/4000K GU10\(^3\) | 4058075608092 | 50 | GU10 | 4.5 | 350 | 600 | 4000 | ≥80 | 36 | 51 | 15000 | F | 10 | 2
P PAR 16 50 36° 4.5 W/5000K GU10\(^3\) | 4058075608115 | 50 | GU10 | 4.5 | 350 | 600 | 5000 | ≥80 | 36 | 51 | 15000 | F | 10 | 2
P PAR 16 50 36° 4.3 W/2700K GU10\(^3\) | 4058075608054 | 50 | GU10 | 4.3 | 350 | 600 | 4000 | ≥80 | 36 | 51 | 10000 | F | 10 | 2
P PAR 16 50 36° 4.3 W/3000K GU10\(^3\) | 4058075608078 | 50 | GU10 | 4.3 | 350 | 600 | 4000 | ≥80 | 36 | 51 | 15000 | F | 10 | 2
P PAR 16 50 36° 4.3 W/4000K GU10\(^3\) | 4058075608032 | 50 | GU10 | 4.3 | 350 | 600 | 4000 | ≥80 | 36 | 51 | 15000 | F | 10 | 2
P PAR 16 50 36° 4.3 W/5000K GU10\(^3\) | 4058075608094 | 50 | GU10 | 4.3 | 350 | 600 | 4000 | ≥80 | 36 | 51 | 15000 | F | 10 | 2
P PAR 16 50 36° 4.3 W/6000K GU10\(^3\) | 4058075608070 | 50 | GU10 | 4.3 | 350 | 600 | 4000 | ≥80 | 36 | 51 | 15000 | F | 10 | 2
P PAR 16 50 36° 4.3 W/7000K GU10\(^3\) | 4058075608056 | 50 | GU10 | 4.3 | 350 | 600 | 4000 | ≥80 | 36 | 51 | 15000 | F | 10 | 2
P PAR 16 50 36° 4.3 W/8000K GU10\(^3\) | 4058075608096 | 50 | GU10 | 4.3 | 350 | 600 | 4000 | ≥80 | 36 | 51 | 15000 | F | 10 | 2
P PAR 16 100 36° 9.6 W/2700K GU10\(^3\) | 4058075608191 | 100 | GU10 | 9.6 | 750 | 1100 | 2700 | ≥80 | 36 | 50 | 15000 | F | 10 | 5
P PAR 16 100 36° 9.6 W/3000K GU10\(^3\) | 4058075608696 | 100 | GU10 | 9.6 | 750 | 1100 | 3000 | ≥80 | 36 | 50 | 15000 | F | 10 | 5
P PAR 16 100 36° 9.6 W/4000K GU10\(^3\) | 4058075608672 | 100 | GU10 | 9.6 | 750 | 1100 | 4000 | ≥80 | 36 | 50 | 15000 | F | 10 | 5

\(^1\) Protection class: IP20 | \(^2\) Non-dimmable | \(^3\) All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | \(^4\) You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | \(^5\) 4058075608139, 4058075608092, 4058075608054 | \(^6\) L72/B50 | \(^7\) Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
### PARATHOM PRO MR16

Dimmable low-voltage LED reflector lamps MR16 with retrofit pin base

#### PRODUCT FEATURES
- LED alternative to low voltage halogen lamps
- High color consistency: ≤3 SDCM
- Dimmable
- Base: GU5.3
- Lamp made of glass

#### PRODUCT BENEFITS
- Quick, simple and safe replacement without rewiring
- Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
- Low maintenance costs thanks to long lifetime
- No UV and near-IR radiation in the light beam
- Stepless dimming

#### AREAS OF APPLICATION
- Shops and exhibition rooms
- Domestic applications
- Commercial applications
- Accent lighting
- Outdoor use in outdoor luminaires only (minimum IP65)

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**Product name** | **GTIN (EAN)** | **W** | **Im** | **K** | **CRI** | **10 000** | **10 1**
---|---|---|---|---|---|---|---
PPRO MR16 20 36° 4.5 W/2700K GU5.3† | 408075431662 | 36 | 51 | 40 000 | 10 | 1
PPRO MR16 20 36° 4.5 W/3000K GU5.3† | 408075431638 | 36 | 51 | 40 000 | 10 | 1
PPRO MR16 20 36° 4.5 W/4000K GU5.3† | 408075431614 | 36 | 51 | 40 000 | 10 | 1
PPRO MR16 35 36° 6.3 W/2700K GU5.3† | 408075609433 | 36 | 50 | 40 000 | 10 | 2
PPRO MR16 35 36° 6.3 W/3000K GU5.3† | 408075609419 | 36 | 50 | 40 000 | 10 | 2
PPRO MR16 35 36° 6.3 W/4000K GU5.3† | 408075609396 | 36 | 50 | 40 000 | 10 | 2
PPRO MR16 43 36° 7.8 W/2700K GU5.3† | 408075609372 | 36 | 50 | 40 000 | 10 | 2
PPRO MR16 43 36° 7.8 W/3000K GU5.3† | 408075609358 | 36 | 50 | 40 000 | 10 | 2
PPRO MR16 43 36° 7.8 W/4000K GU5.3† | 408075609334 | 36 | 50 | 40 000 | 10 | 2

† Protection class: IP20  ‡ All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value  § You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | † L70/B50  ‡ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM DIM MR16

Dimmable low-voltage LED reflector lamps MR16 with retrofit pin base

PRODUCT FEATURES

— LED alternative to low voltage halogen lamps
— High color consistency: ≤ 5 SDCM
— Dimmable
— Base: GU5.3
— Lamp made of glass

PRODUCT BENEFITS

— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam
— Stepless dimming

AREAS OF APPLICATION

— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

<table>
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<tr>
<th>Product name</th>
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<th>W</th>
<th>lm</th>
<th>cd</th>
<th>K</th>
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1 Protection class: IP20 | All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | L70/B50 | Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM MR16\(^1,2\)

Low-voltage LED reflector lamps MR16 with retrofit pin base

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**PRODUCT FEATURES**

- LED alternative to low voltage halogen lamps
- High color consistency: ≤ 6 SDCM
- Not dimmable
- Base: GU5.3
- Lamp made of glass

**PRODUCT BENEFITS**

- Quick, simple and safe replacement without rewiring
- Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
- Low maintenance costs thanks to long lifetime
- No UV and near-IR radiation in the light beam
- Instant 100 % light, no warm-up time

**AREAS OF APPLICATION**

- Shops and exhibition rooms
- Domestic applications
- Commercial applications
- Accent lighting
- Outdoor use in outdoor luminaires only (minimum IP65)

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**Product name** | **GTIN (EAN)** | **W** | **Im** | **K** | **CRI** | **L** | **F** | **G**
--- | --- | --- | --- | --- | --- | --- | --- | ---
P MR16 20 36° 2.6 W/2700K GU5.3\(^2\) | 4058075431379 | 20 | GU5.3 | 2.6 | 230 | 680 | 2700 | ☑️ ≥80 36 50 15000 F 10 1
P MR16 20 36° 2.6 W/3000K GU5.3\(^2\) | 4058075431355 | 20 | GU5.3 | 2.6 | 230 | 680 | 3000 | ☑️ ≥80 36 50 15000 F 10 1
P MR16 20 36° 2.6 W/4000K GU5.3\(^2\) | 4058075431317 | 20 | GU5.3 | 2.6 | 230 | 680 | 4000 | ☑️ ≥80 36 50 15000 F 10 1
P MR16 35 36° 3.8 W/2700K GU5.3\(^2\) | 4058075431256 | 35 | GU5.3 | 3.8 | 350 | 790 | 2700 | ☑️ ≥80 36 51 15000 F 10 1
P MR16 35 36° 3.8 W/3000K GU5.3\(^2\) | 4058075431218 | 35 | GU5.3 | 3.8 | 350 | 790 | 3000 | ☑️ ≥80 36 51 15000 F 10 1
P MR16 35 36° 3.8 W/4000K GU5.3\(^2\) | 4058075431157 | 35 | GU5.3 | 3.8 | 350 | 790 | 4000 | ☑️ ≥80 36 51 15000 F 10 1
P MR16 50 36° 8 W/2700K GU5.3\(^2\) | 4058075609259 | 50 | GU5.3 | 8 | 621 | 1020 | 2700 | ☑️ ≥80 36 50 15000 G 10 2
P MR16 50 36° 8 W/3000K GU5.3\(^2\) | 4058075609235 | 50 | GU5.3 | 8 | 621 | 1020 | 3000 | ☑️ ≥80 36 50 15000 G 10 2
P MR16 50 36° 8 W/4000K GU5.3\(^2\) | 4058075609211 | 50 | GU5.3 | 8 | 621 | 1020 | 4000 | ☑️ ≥80 36 50 15000 G 10 2

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\(^{1}\) Protection class: IP20 | \(^{2}\) Non-dimmable | \(^{3}\) All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | \(^{4}\) You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | \(^{5}\) L70/B50 | \(^{6}\) Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
## PARATHOM DIM MR11

Dimmable low-voltage LED reflector lamps MR11 with retrofit pin base

**PRODUCT FEATURES**
- LED alternative to low voltage halogen lamps
- High color consistency: ≤ 6 SDCM
- Dimmable
- Base: G4
- Lamp made of glass

**PRODUCT BENEFITS**
- Quick, simple and safe replacement without rewiring
- Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
- Low maintenance costs thanks to long lifetime
- No UV and near-IR radiation in the light beam
- Stepless dimming

**AREAS OF APPLICATION**
- Shops and exhibition rooms
- Domestic applications
- Commercial applications
- Accent lighting
- Outdoor use in outdoor luminaires only (minimum IP65)

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<td>25000</td>
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1 Protection class: IP20 | 2 All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | 3 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 4 L70/B50 | 5 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM MR11 12 V¹,²
Low-voltage LED reflector lamps MR11 with retrofit pin base

PRODUCT FEATURES
— LED alternative to low voltage halogen lamps
— High color consistency: ≤ 6 SDCM
— Not dimmable
— Base: GU4
— Lamp made of glass

PRODUCT BENEFITS
— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam
— Compatible with many common conventional and electronic control gears (see also compatibility list)

AREAS OF APPLICATION
— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

<table>
<thead>
<tr>
<th>Product name</th>
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<td>400</td>
<td>≥80</td>
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<td>≥80</td>
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<td>≥80</td>
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¹ Protection class: IP20 ² Non-dimmable ³ All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. ⁴ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee ⁵ L70/B50 ⁶ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM PRO AR111
Low-voltage LED reflector lamps AR111 with retrofit pin base

PRODUCT FEATURES
— LED alternative to low voltage halogen lamps
— High color consistency: ≤ 4 SDCM
— Dimmable
— Base: G53
— Excellent color rendering (Rc: 97)

PRODUCT BENEFITS
— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam
— Stepless dimming

AREAS OF APPLICATION
— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

Product name | GTIN (EAN) | W | lm | cd | K | CRI | 10000 | G | 1
---|---|---|---|---|---|---|---|---|---
PPRO AR111 50 24° 7.4 W/2700K G53 | 408076687774 | 50 | 653 | 7.4 | 450 | 1800 | 2700 | 97 | 24 | 111 | 40000 | G | 6 | 1
PPRO AR111 50 40° 7.4 W/2700K G53 | 408076687736 | 50 | 653 | 7.4 | 450 | 1000 | 2700 | 97 | 40 | 111 | 40000 | G | 6 | 1
PPRO AR111 50 24° 7.4 W/3000K G53 | 408076687798 | 50 | 653 | 7.4 | 450 | 1800 | 3000 | 97 | 24 | 111 | 40000 | G | 6 | 1
PPRO AR111 50 40° 7.4 W/3000K G53 | 408076687750 | 50 | 653 | 7.4 | 450 | 1000 | 3000 | 97 | 40 | 111 | 40000 | G | 6 | 1
PPRO AR111 75 24° 11.7 W/2700K G53 | 408076688599 | 75 | 653 | 11.7 | 800 | 2800 | 2700 | 97 | 24 | 111 | 40000 | G | 6 | 1
PPRO AR111 75 40° 11.7 W/2700K G53 | 408076688511 | 75 | 653 | 11.7 | 800 | 1600 | 2700 | 97 | 40 | 111 | 40000 | G | 6 | 1
PPRO AR111 75 24° 11.7 W/3000K G53 | 408076688573 | 75 | 653 | 11.7 | 800 | 2800 | 3000 | 97 | 24 | 111 | 40000 | G | 6 | 1
PPRO AR111 75 40° 11.7 W/3000K G53 | 408076688535 | 75 | 653 | 11.7 | 800 | 1600 | 3000 | 97 | 40 | 111 | 40000 | G | 6 | 1
PPRO AR111 75 24° 11.7 W/4000K G53 | 408076688697 | 75 | 653 | 11.7 | 800 | 2800 | 4000 | 97 | 24 | 111 | 40000 | G | 6 | 1
PPRO AR111 100 24° 13.5 W/2700K G53 | 408071608474 | 100 | 653 | 13.5 | 950 | 2500 | 2700 | 97 | 24 | 111 | 40000 | G | 6 | 1

1 Protection class: IP20
2 All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value.
3 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee
PARATHOM DIM PAR20
Dimmable LED reflector lamps PAR20 with retrofit screw base

PRODUCT FEATURES
— LED alternative to high voltage halogen lamps
— High color consistency: ≤ 6 SDCM
— Dimmable
— Base: E27
— Lamp made of glass

PRODUCT BENEFITS
— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam
— Stepless dimming

AREAS OF APPLICATION
— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

Product name GTIN (EAN)
P PAR 20 50 36° 6.4 W/2700K E27 405807676755

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1 Protection class: IP20 | 2 All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | 3 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 4 L70/B50 | 5 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

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PARATHOM DIM PAR30
Dimmable LED reflector lamps PAR30 with retrofit screw base

PRODUCT FEATURES
— LED alternative to high voltage halogen lamps
— High color consistency: ≤ 6 SDCM
— Dimmable
— Base: E27
— Lamp made of glass

PRODUCT BENEFITS
— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam
— Stepless dimming

AREAS OF APPLICATION
— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

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1 Protection class: IP20 2 All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. 3 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee 4 L70/B50 5 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM DIM PAR38
Dimmable LED reflector lamps PAR38 with retrofit screw base

PRODUCT FEATURES
— LED alternative to high voltage halogen lamps
— High color consistency: ≤ 6 SDCM
— Dimmable
— Base: E27
— Lamp made of glass

PRODUCT BENEFITS
— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam
— Stepless dimming

AREAS OF APPLICATION
— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

Product name GTIN (EAN)
P PAR 38 120 30° 12.5 W/2700K E271
4058075264083 120 E27 15.2 1 035 2 800 2 700 ≥80 30 122 25 000 G 6 6 1

1 All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. 1 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee. 1 L’efficacité énergétique (EEC) est échelle A (efficacité la plus élevée) à G (efficacité la plus faible).
PARATHOM PAR38
LED reflector lamps PAR38 with retrofit screw base

PRODUCT FEATURES

— LED alternative to high voltage halogen lamps
— High color consistency: ≤ 6 SDCM
— Not dimmable
— Base: E27
— Lamp made of glass

PRODUCT BENEFITS

— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam
— Instant 100 % light, no warm-up time

AREAS OF APPLICATION

— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>W</th>
<th>lm</th>
<th>cd</th>
<th>K</th>
<th>CRI</th>
<th>100% Light</th>
<th>L70/B50</th>
<th>Energy efficiency class (EEC)</th>
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<tr>
<td>P PAR 38 120° 12.5 W/2700K E27</td>
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<td>E27</td>
<td>12</td>
<td>1035</td>
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<td>E27</td>
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<td>1035</td>
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<td>2700</td>
<td>≥80</td>
<td>30</td>
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</tbody>
</table>

1 Non-dimmable | 2 All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | 3 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 4 L70/B50 | 5 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM DIM R50
Dimmable LED reflector lamps R50 with retrofit screw base

PRODUCT FEATURES
— LED alternative to high voltage halogen lamps
— High color consistency: ≤ 5 SDCM
— Dimmable
— Base: E14
— Lamp made of glass

PRODUCT BENEFITS
— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam
— Stepless dimming

AREAS OF APPLICATION
— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

Product name GTIN (EAN)  mW  W  lm  cd  K  CRI  10a  Lm/W  1
P R50 60 36° 5.9 W/2700K E14 4058075607811  60  5.9  350  607  2700  ≥80  36  50  25000  G  10  1

1 Protection class: IP20 | 2 All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | 3 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 4 L70/B50 | 5 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM DIM R63
Dimmable LED reflector lamps R63 with retrofit screw base

PRODUCT FEATURES
— LED alternative to high voltage halogen lamps
— High color consistency: ≤ 5 SDCM
— Dimmable
— Base: E27
— Lamp made of glass

PRODUCT BENEFITS
— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam
— Very high dimmer compatibility, see also www.ledvance.com/dim

AREAS OF APPLICATION
— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

Product name GTIN (EAN) P R63 60 36° 5.9 W/2700K E27 4058077076977 60 E27 5.9 350 582 2700 ≥90 26 63 25000 G 10 1

1 Protection class: IP20 | 2 All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | 3 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 4 L70/B50 | 5 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM DIM R80

Dimmable LED reflector lamps R80 with retrofit screw base

PRODUCT FEATURES

— LED alternative to high voltage halogen lamps
— High color consistency: ≤ 5 SDCM
— Dimmable
— Base: E27
— Lamp made of glass

PRODUCT BENEFITS

— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam
— Stepless dimming

AREAS OF APPLICATION

— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Indoors and outdoors

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>mW</th>
<th>W</th>
<th>lm</th>
<th>cd</th>
<th>K</th>
<th>CRI</th>
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<tbody>
<tr>
<td>R80 60 36° 5.9 W/2700K E27</td>
<td>4058075609457</td>
<td>60</td>
<td>E27</td>
<td>5.9</td>
<td>350</td>
<td>607</td>
<td>2700</td>
<td>≥90</td>
<td>36 80 25000</td>
</tr>
<tr>
<td>R80 100 36° 9.6 W/2700K E27</td>
<td>4058075607972</td>
<td>100</td>
<td>E27</td>
<td>9.6</td>
<td>670</td>
<td>1300</td>
<td>2700</td>
<td>80</td>
<td>36 80 25000</td>
</tr>
</tbody>
</table>

 Compatibility list also online: ledvance.com/compatibility

1 Protection class: IP20 | 2 All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | 3 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 4 4058075609457 | 5 L70/B50 | 6 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
OSRAM LED LAMPS FROM LEDVANCE | LED REFLECTOR LAMPS

LED STAR R39¹,²
LED reflector lamps R39 with retrofit screw base

PRODUCT FEATURES
- LED alternative to high voltage halogen lamps
- High color consistency: ≤ 6 SDCM
- Not dimmable
- Base: E14
- Lamp made of glass

PRODUCT BENEFITS
- Quick, simple and safe replacement without rewiring
- Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
- Low maintenance costs thanks to long lifetime
- No UV and near-IR radiation in the light beam
- Instant 100 % light, no warm-up time

AREAS OF APPLICATION
- Shops and exhibition rooms
- Domestic applications
- Commercial applications
- Accent lighting
- Outdoor use in outdoor luminaires only (minimum IP65)

Product name | GTIN (EAN) | W | lm | K | CRI | CQA | T50 |
---|---|---|---|---|---|---|---|
ST R39 25 W/2700K E14³ | 4058075433243 | 25 | E14 | 1.5 | 110 | 248 | 2700 | ≥80 | 36 | 39 | 15000 | F | 6 | 1

¹ Protection class: IP20 | ² Non-dimmable | ³ All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ⁴ L70/B50 | ⁵ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM R501,2
LED reflector lamps R50 with retrofit screw base

PRODUCT FEATURES
— LED alternative to high voltage halogen lamps
— Not dimmable
— Base: E14
— Lamp made of glass
— Good quality of light; color rendering index $R_a \geq 80$

PRODUCT BENEFITS
— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam
— Instant 100 % light, no warm-up time

AREAS OF APPLICATION
— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
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<tbody>
<tr>
<td>P R50 25 36° 1.5 W/2700K E14</td>
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<tr>
<td>P R50 40 36° 2.6 W/2700K E14</td>
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<tr>
<td>P R50 60 36° 4.3 W/2700K E14</td>
<td>4058075607835</td>
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1 Protection class: IP20 | 2 Non-dimmable | 3 All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | 4 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 5 L/70/B50 | 6 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
OSRAM LED LAMPS FROM LEDVANCE | LED REFLECTOR LAMPS

PARATHOM R63\(^{1,2}\)

LED reflector lamps R63 with retrofit screw base

PRODUCT FEATURES

— LED alternative to high voltage halogen lamps
— Not dimmable
— Base: E27
— Lamp made of glass
— Good quality of light; color rendering index \(R_a \geq 80\)

PRODUCT BENEFITS

— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam
— Instant 100 % light, no warm-up time

AREAS OF APPLICATION

— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

<table>
<thead>
<tr>
<th>Product name</th>
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<th>(\text{Lm} )</th>
<th>(\text{cd} )</th>
<th>(\text{K} )</th>
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<th>(\text{t} )</th>
<th>(\text{F} )</th>
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<td>P R63 60 36° 4.3 W/2700K E27(^{1})</td>
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<td>350</td>
<td>582</td>
<td>2700</td>
<td>(\geq 80)</td>
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</tbody>
</table>

\(^{1}\) Protection class: IP20 | \(^{2}\) Non-dimmable | \(^{1}\) All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | \(^{1}\) L70/B50 | \(^{1}\) Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM R80\(^1,2\)
LED reflector lamps R80 with retrofit screw base

PRODUCT FEATURES
— LED alternative to high voltage halogen lamps
— Not dimmable
— Base: E27
— Lamp made of glass
— Good quality of light; color rendering index \(R_a \geq 80\)

PRODUCT BENEFITS
— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam
— Instant 100 % light, no warm-up time

AREAS OF APPLICATION
— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

<table>
<thead>
<tr>
<th>Product name</th>
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<th>(W)</th>
<th>(lm)</th>
<th>(K)</th>
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<tr>
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<td>60</td>
<td>627</td>
<td>4.3</td>
<td>350</td>
<td>582</td>
<td>2700</td>
</tr>
<tr>
<td>P R80 100 36° 9.1 W/2700K E27(^2)</td>
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<td>100</td>
<td>100</td>
<td>627</td>
<td>9.1</td>
<td>670</td>
<td>1300</td>
<td>2700</td>
</tr>
</tbody>
</table>

\(^1\) Protection class: IP20 | \(^2\) Non-dimmable | \(^3\) All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | \(^4\) You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | \(^5\) L70/B50 | \(^6\) Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
**PRODUCT FEATURES**
- LED alternative to high voltage halogen lamps
- Not dimmable
- Base: GU10
- Lamp made of glass
- Good quality of light; color rendering index $R_a \geq 80$

**PRODUCT BENEFITS**
- Quick, simple and safe replacement without rewiring
- Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
- Low maintenance costs thanks to long lifetime
- No UV and near-IR radiation in the light beam
- Instant 100 % light, no warm-up time

**AREAS OF APPLICATION**
- Shops and exhibition rooms
- Domestic applications
- Commercial applications
- Accent lighting
- Outdoor use in outdoor luminaires only (minimum IP65)

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**LED VALUE PAR16**

LED reflektor lamps PAR16 with retrofit pin base

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**PRODUCT FEATURES**
- LED alternative to high voltage halogen lamps
- Not dimmable
- Base: GU10
- Lamp made of glass
- Good quality of light; color rendering index $R_a \geq 80$

**PRODUCT BENEFITS**
- Quick, simple and safe replacement without rewiring
- Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
- Low maintenance costs thanks to long lifetime
- No UV and near-IR radiation in the light beam
- Instant 100 % light, no warm-up time

**AREAS OF APPLICATION**
- Shops and exhibition rooms
- Domestic applications
- Commercial applications
- Accent lighting
- Outdoor use in outdoor luminaires only (minimum IP65)
LED CLASSIC A GLOWdim

LED lamps with GLOWdim effect, classic bulb shape

PRODUCT FEATURES

- LED alternative to conventional lamps
- Dimming changes light color from warm white (2,700 K) to extra warm white (2,200 K)
- Good quality of light; color rendering index Ra ≥ 80
- Dimmable
- Mercury-free lamps

PRODUCT BENEFITS

- Provides an especially warm light when dimmed down
- Directly controllable via standard dimmer, no remote control required
- Clear lamps with innovative LED „filament“ technology
- Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
- Long lifetime of up to 15,000 h

AREAS OF APPLICATION

- Perfect for decorative installations
- Hospitality
- Historical buildings
- Residential interiors
- Marine lighting

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>w [W]</th>
<th>E [W]</th>
<th>lm [lm]</th>
<th>K [K]</th>
<th>CRI</th>
<th>Ra ≥ 80</th>
<th>t [min]</th>
<th>105</th>
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<th>15,000</th>
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<td>15,000</td>
<td>clear</td>
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</table>

1 Protection class: IP20 | 2 Dimmable (with many common dimmers, see also www.ledvance.com/dim) All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value 3 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee 4 L70/B50 5 Energy efficiency class (IEC) on a scale of A (highest efficiency) to G (lowest efficiency)
OSRAM LED LAMPS FROM LEDVANCE | LED LAMPS WITH ADDED FUNCTIONS

LED SUPERSTAR CLASSIC B GLOWdim

LED lamps with GLOWdim effect, classic candle shape

PRODUCT FEATURES

— LED alternative to conventional lamps
— Dimming changes light color from warm white (2,700 K) to extra warm white (2,200 K)
— Good quality of light; color rendering index $R_\text{a} \geq 80$
— Dimmable
— Mercury-free lamps

PRODUCT BENEFITS

— Provides an especially warm light when dimmed down
— Directly controllable via standard dimmer, no remote control required
— Can be easily combined with other GLOWdim products in one application
— Very long lifetime of up to 25,000 h
— Low energy consumption

AREAS OF APPLICATION

— Hospitality
— Historical buildings
— Residential interiors
— Marine lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
<th>deW</th>
<th>W</th>
<th>Im</th>
<th>K</th>
<th>CRI</th>
<th>deV</th>
<th>Ue</th>
<th>UeA</th>
<th>LEO</th>
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<td>2200…2700</td>
<td>≥80</td>
<td>115</td>
<td>35</td>
<td>clear</td>
<td>15 000</td>
<td>E</td>
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1 Protection class: IP20  2 Dimmable (with many common dimmers, see also www.ledvance.com/dim) All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value 3 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee 4 L70/B50 5 Energy efficiency class (IEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LED SUPERSTAR CLASSIC GLOBE GLOWdim

LED lamps with GLOWdim effect, classic ball shape

PRODUCT FEATURES
- LED alternative to conventional lamps
- Dimming changes light color from warm white (2,700 K) to extra warm white (2,200 K)
- Good quality of light; color rendering index Rₐ: ≥ 80
- Dimmable
- Mercury-free lamps

PRODUCT BENEFITS
- Provides an especially warm light when dimmed down
- Directly controllable via standard dimmer, no remote control required
- Can be easily combined with other GLOWdim products in one application
- Very long lifetime of up to 25,000 h
- Low energy consumption

AREAS OF APPLICATION
- Hospitality
- Historical buildings
- Residential interiors
- Marine lighting
- Outdoor use in outdoor luminaires only (minimum IP65)

Compatibility list also online: ledvance.com/compatibility

Product name | GTIN (EAN) | E27 | W | lm | K | CRI | Rₐ | 1000 | 15000 | E | Lident | L70/B50
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
ST PLUS GLOW DIM GLOBE 60 W 2200...2700 K E27 | 4058071800942 | 60 | E27 | 6.5 | 806 | 2200...2700 | ≥80 | 168 | 124 | clear | 15000 | E | 4 | 1

1 Protection class: IP20 | 2 Dimmable (with many common dimmers, see also www.ledvance.com/dim) | All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. | 3 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 4 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
OSRAM LED LAMPS FROM LEDVANCE | LED LAMPS WITH ADDED FUNCTIONS

LED SUPERSTAR CLASSIC P GLOWdim

LED lamps with GLOWdim effect, classic mini-ball shape

---

PRODUCT FEATURES
- LED alternative to conventional lamps
- Dimming changes light color from warm white (2,700 K) to extra warm white (2,200 K)
- Good quality of light; color rendering index Rₐ ≥ 80
- Dimmable
- Mercury-free lamps

PRODUCT BENEFITS
- Provides an especially warm light when dimmed down
- Directly controllable via standard dimmer, no remote control required
- Can be easily combined with other GLOWdim products in one application
- Very long lifetime of up to 25,000 h
- Low energy consumption

AREAS OF APPLICATION
- Hospitality
- Historical buildings
- Residential interiors
- Marine lighting
- Outdoor use in outdoor luminaires only (minimum IP65)

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Compatibility list also online: ledvance.com/compatibility

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ST PLUS GLOW DIM CLASS P 40 4.5 W/2200…2700K E14

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ST PLUS GLOW DIM CLASS P 40 4.5 W/2200…2700K E14</td>
<td>4058075435476</td>
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</tbody>
</table>

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1 Protection class: IP20  
2 Dimmable (with many common dimmers, see also www.ledvance.com/dim)  
3 All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee  
4 Energy efficiency class (IEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM PAR16 GLOWdim

LED reflector lamps PAR16 with GLOWdim effect

PRODUCT FEATURES
— LED alternative to high voltage halogen lamps
— Dimmable
— Base: GU10
— Lamp made of glass
— Good quality of light; color rendering index $R_t \geq 80$

PRODUCT BENEFITS
— Always fitting light atmosphere by changing light color from warm white to extra warm white with dimming
— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam

AREAS OF APPLICATION
— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
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<tbody>
<tr>
<td>PAR111 50 36° 4.5 W/2700K GU10²</td>
<td>4056075684498</td>
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1 Protection class: IP20
² All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value.
³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee.
⁴ L70/B50
⁵ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency).
PARATHOM PRO AR111
Low-voltage LED reflector lamps AR111 with GLOWdim effect

PRODUCT FEATURES
— LED alternative to low voltage halogen lamps
— Dimmable
— Base: G53
— Excellent color rendering (Ra: 97)
— Lifetime: up to 40,000 h

PRODUCT BENEFITS
— Always fitting light atmosphere by changing light color from warm white to extra warm white with dimming
— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam

AREAS OF APPLICATION
— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

<table>
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<tr>
<th>Product name</th>
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<th>K</th>
<th>CRI</th>
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<td>G 6 1</td>
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¹ Protection class: IP20 ² All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value ³ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee ⁴ L70/B50 ⁵ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LED RELAX and ACTIVE CLASSIC A1,2
LED lamps, classic bulb shape

PRODUCT FEATURES
— Provides color temperatures of 2,700 K and 4,000 K in the same lamp
— Controllable via standard wall switch
— Good quality of light; color rendering index Ra; ≥ 80
— Mercury-free lamps

PRODUCT BENEFITS
— Creates individual atmospheres: Warm White to relax, Cool White for activity
— Easy change of color temperature with double click of wall switch
— Always fitting light due to two light colors in one lamp: Warm White and Cool White
— Supports the biorhythm through activating and relaxing light color
— Long lifetime of up to 15,000 h

AREAS OF APPLICATION
— Supports the bio rhythm when used in bed and children’s room
— Outdoor use in outdoor luminaires only (minimum IP65)

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
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<tr>
<td>ST PLUS ACT/REL CLAS A 60 FIL 7 W/2700/4000K E271</td>
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1 Protection class: IP20 | 2 Non-dimmable | 1 All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. | 1 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 1 L70/B50 | 1 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LED RELAX and ACTIVE CLASSIC B\(^{1,2}\)

LED lamps with two light colors in one lamp

**PRODUCT FEATURES**
- Provides color temperatures of 2,700 K and 4,000 K in the same lamp
- Controllable via standard wall switch
- Good quality of light; color rendering index \(R_\text{a} \geq 80\)
- Mercury-free lamps

**PRODUCT BENEFITS**
- Creates individual atmospheres: Warm White to relax, Cool White for activity
- Easy change of color temperature with double click of wall switch
- Always fitting light due to two light colors in one lamp: Warm White and Cool White
- Supports the biorhythm through activating and relaxing light color
- Long lifetime of up to 15,000 h

**AREAS OF APPLICATION**
- Supports the bio rhythm when used in bed and children’s room
- Outdoor use in outdoor luminaires only (minimum IP65)

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1 Protection class: IP20 | 2 Non-dimmable | 3 All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | 4 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 5 L70/B50 | 6 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LED RELAX and ACTIVE CLASSIC P¹,²
LED lamps with two light colors in one lamp

PRODUCT FEATURES
— Controllable via standard wall switch
— Good quality of light; color rendering index Ra: ≥ 80
— Mercury-free lamps

PRODUCT BENEFITS
— Creates individual atmospheres: Warm White to relax, Cool White for activity
— Easy change of color temperature with double click of wall switch
— Always fitting light due to two light colors in one lamp: Warm White and Cool White
— Supports the biorhythm through activating and relaxing light color
— Low energy consumption

AREAS OF APPLICATION
— Supports the bio rhythm when used in bed and children’s room
— Outdoor use in outdoor luminaires only (minimum IP65)

Product name | GTIN (EAN) | W | lm | K | CRI | T8 | E | ⁴ | L70/B50 | Energy efficiency class (EEC)
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
ST PLUS ACT/REL CLAS P 40 4 W/2700/4000K E14¹ | 405807543745 | 40 | 4 | 470 | 2700/4000 | ≥80 | 78 | 45 | clear | 15 000 | E | 4 | 1

¹ Protection class: IP20 | ² Non-dimmable | ³ All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | ⁴ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ⁵ L70/B50 | ⁶ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
OSRAM LED LAMPS FROM LEDVANCE | LED LAMPS WITH ADDED FUNCTIONS

LED RELAX and ACTIVE PAR16

LED reflector lamps PAR16 with retrofit pin base

PRODUCT FEATURES

— LED alternative to high voltage halogen lamps
— Not dimmable
— Base: GU10
— Lamp made of glass
— Good quality of light; color rendering index R≥ 80

PRODUCT BENEFITS

— Always fitting light due to two light colors in one lamp: Warm White and Cool White
— Quick, simple and safe replacement without rewiring
— Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
— Low maintenance costs thanks to long lifetime
— No UV and near-IR radiation in the light beam

AREAS OF APPLICATION

— Shops and exhibition rooms
— Domestic applications
— Commercial applications
— Accent lighting
— Outdoor use in outdoor luminaires only (minimum IP65)

<table>
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<th>Product name</th>
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<th>K</th>
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<tr>
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</table>

1 Protection class: IP20 | 2 Non-dimmable | 3 All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | 4 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 5 L70/B50 | 6 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LED THREE STEP DIM CLASSIC A¹,²
LED lamps with three-step dimming

PRODUCT FEATURES
— Dimmable in three steps: 100 %, 45 % and 15 %
— Controllable via standard wall switch
— Good quality of light; color rendering index Ra: ≥ 80
— Mercury-free lamps

PRODUCT BENEFITS
— Easy three-step dimming by repeatedly pressing the wall switch
— Easy and cost-effective operation, no dimmer required
— Low energy consumption
— Easy relamping thanks to compact design
— Instant 100 % light, no warm-up time

AREAS OF APPLICATION
— Wherever dimming was originally not planned
— Residential interiors
— Hospitality
— Outdoor use in outdoor luminaires only (minimum IP65)

Product name | GTIN (EAN) | W | Im | K | CRI | 105 | 15000 | E | 4 | 1
---|---|---|---|---|---|---|---|---|---|---
ST PLUS 3XDIM CLAS A 60 7 W 2700K E27¹ | 4058075436787 | 60 | 6.5 | 806 | ≥80 | 105 | 15000 | E | 4 | 1

¹ Protection class: IP20 | ² Non-dimmable | ³ All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | ⁴ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | ⁵ L70/B50 | ⁶ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LED THREE STEP DIM CLASSIC B¹,²

LED lamps with three-step dimming

PRODUCT FEATURES

— Dimmable in three steps: 100 %, 55 % and 10 %
— Controllable via standard wall switch
— Good quality of light; color rendering index Rₐ: ≥ 80
— Mercury-free lamps

PRODUCT BENEFITS

— Easy three-step dimming by repeatedly pressing the wall switch
— Easy and cost-effective operation, no dimmer required
— Low energy consumption
— Easy relamping thanks to compact design
— Instant 100 % light, no warm-up time

AREAS OF APPLICATION

— Wherever dimming was originally not planned
— Residential interiors
— Hospitality
— Outdoor use in outdoor luminaires only (minimum IP65)

Product name | GTIN (EAN) | W | lm | K | CRI | P | ES | RA | IR |
---|---|---|---|---|---|---|---|---|---|
ST PLUS 3xDIM CLAS B 40 4 W/2700K E14³ | 4058075434662 | 40 | 470 | 2700 | ≥80 | 100 | 35 | clear | 15000 | E | 4 | 1

¹ Protection class: IP20 ² Non-dimmable ³ All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. ⁴ You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee ⁵ L70/B50 ⁶ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LED THREE STEP DIM CLASSIC P¹,²

LED lamps with three-step dimming

PRODUCT FEATURES

— Dimmable in three steps: 100 %, 55 % and 10 %
— Controllable via standard wall switch
— Good quality of light; color rendering index \( R_a \geq 80 \)
— Mercury-free lamps

PRODUCT BENEFITS

— Easy three-step dimming by repeatedly pressing the wall switch
— Easy and cost-effective operation, no dimmer required
— Low energy consumption
— Easy relamping thanks to compact design
— Instant 100 % light, no warm-up time

AREAS OF APPLICATION

— Wherever dimming was originally not planned
— Residential interiors
— Hospitality
— Outdoor use in outdoor luminaires only (minimum IP65)

Product name | GTIN (EAN) | W | Im | K | CRI | T °C | E | EEC |
---|---|---|---|---|---|---|---|---|
ST PLUS 3XDIM CLAS P 40 4 W/2700K E14³ | 4058075434448 | 40 | E14 | 4 | 470 | 2700 | ≥80 | 77 | 45 | clear | 15 000 | E | 4 | 1

¹ Protection class: IP20 | ² Non-dimmable | ³ All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value. You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee. L70/B50 ⁴ Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency).
LED THREE STEP DIM PIN G9

LED lamps with three-step dimming

1. Dimmable in three steps: 100 %, 45 % and 15 %
2. Controllable via standard wall switch
3. Good quality of light; color rendering index Rₐ: ≥ 80

PRODUCT FEATURES

PRODUCT BENEFITS

— Easy three-step dimming by repeatedly pressing the wall switch
— Easy and cost-effective operation, no dimmer required
— Very long lifetime of up to 25,000 h
— Four year guarantee

AREAS OF APPLICATION

— Wherever dimming was originally not planned
— Residential interiors
— Hospitality
— Outdoor applications only in suitable luminaires

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
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<td>25000</td>
<td>E</td>
<td>4</td>
<td>1</td>
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</tbody>
</table>

1 Protection class: IP20 | 2 You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | 3 L70/B50 | 4 Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
LED THREE STEP DIM PAR16\(^1,2\)

LED reflector lamps PAR16 with three-step dimming

**PRODUCT FEATURES**
- LED alternative to high voltage halogen lamps
- Dimmable
- Base: GU10
- Lamp made of glass
- Good quality of light; color rendering index \(R_a \geq 80\)

**PRODUCT BENEFITS**
- Easy three-step dimming by repeatedly pressing the wall switch
- Quick, simple and safe replacement without rewiring
- Design, dimensions, luminous flux comparable to an incandescent or halogen lamp
- Low maintenance costs thanks to long lifetime
- No UV and near-IR radiation in the light beam

**AREAS OF APPLICATION**
- Shops and exhibition rooms
- Domestic applications
- Commercial applications
- Accent lighting
- Outdoor use in outdoor luminaires only (minimum IP65)

---

**Product name**

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<tr>
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<td>15000</td>
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</tbody>
</table>

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\(^1\) Protection class: IP20

\(^2\) Non-dimmable

\(^3\) All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value.

You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee

\(^4\) L70/B50

\(^5\) Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
OSRAM LED LAMPS FROM LEDVANCE | LED LAMPS WITH ADDED FUNCTIONS

LED DAYLIGHT SENSOR CLASSIC A\textsuperscript{1,2}

Special LED lamps with daylight sensor, classic bulb shape

PRODUCT FEATURES
- LED alternative to conventional lamps
- High color consistency: ≤ 6 SDCM
- Mercury-free lamps

PRODUCT BENEFITS
- Short payback period thanks to low energy consumption and maintenance costs
- Energy-saving lighting solution because of automatic switch-off at daylight
- Safety through automatic switch-on at darkness
- Low energy consumption
- Easy replacement of classic lamps thanks to compact design

AREAS OF APPLICATION
- Outdoor use in outdoor luminaires only (minimum IP65)
- Wherever constant lighting is necessary at night

| Product name | GTIN (EAN) | W | lm | K | CRI | | | | |
|--------------|------------|---|----|---|-----|---|---|---|
| ST PLUS DS CLAS A 40 W/4000K E27\textsuperscript{1} | 4058075430977 | 40 | E27 | 4 | 470 | 4000 | ≥80 | 105 | 60 | clear | 15000 | E | 4 | 1 |
| ST PLUS DS CLAS A 60 6.5 W/4000K E27\textsuperscript{1} | 4058075435100 | 60 | E27 | 6 | 806 | 4000 | ≥80 | 105 | 60 | clear | 15000 | E | 4 | 1 |

\textsuperscript{1} Protection class: IP20 | \textsuperscript{2} Non-dimmable | \textsuperscript{3} All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | \textsuperscript{4} L70/B50 | \textsuperscript{5} Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
PARATHOM DAYLIGHT SENSOR CLASSIC A

Special LED lamps with daylight sensor, classic bulb shape

PRODUCT FEATURES

- LED alternative to conventional lamps
- Not dimmable
- Good quality of light; color rendering index Rₐ: ≥ 80; constant chromaticity

PRODUCT BENEFITS

- Short payback period thanks to low energy consumption and maintenance costs
- Energy-saving lighting solution thanks to automatic switch off at daylight
- Safety through automatic switch-on at darkness
- Low energy consumption
- Easy replacement of classic lamps thanks to compact design

AREAS OF APPLICATION

- Wherever constant lighting is necessary at night
- Outdoor use in outdoor luminaires only (minimum IP65)

<table>
<thead>
<tr>
<th>Product name</th>
<th>GTIN (EAN)</th>
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<td>ST PLUS DS CLAS A 40 4 W/4000K E27¹</td>
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<td>Daylight Sensor CLA 60 FR 8.8 W/2700K E27¹</td>
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<tr>
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</tbody>
</table>

1 Protection class: IP20 | ² Non-dimmable | ³ All technical parameters apply to the entire lamp. Due to the complex production process for light-emitting diodes, the typical values shown for the technical LED parameters are purely statistical values that do not necessarily match the actual technical parameters of each individual product, which can vary from the typical value | You will find further information and the exact guarantee terms and conditions at www.ledvance.com/guarantee | L70/B50 | Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)
## SHEDDING LIGHT AND SYMBOLS

<table>
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<tr>
<th>Symbol</th>
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<td>Shatter protection</td>
<td>OSRAM LED LAMPS FROM LEDVANCE</td>
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<td>Low-flicker according to EU 2019/2020</td>
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<td>Type of protection</td>
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<td>Dimmable</td>
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<td>Sensor versions</td>
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<td>Glow DIM 2 000K... 2 700 K</td>
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<td>Power in W for conventional technology</td>
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<tr>
<td>Power in W</td>
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<td>Output voltage in V</td>
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<td>Luminous flux in lm</td>
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GOOD LIGHT ALL ROUND
THE FULL LEDVANCE RANGE

LEDVANCE is leading the fight against bad light in every area. That’s good news for you because when it comes to future-proof solutions relating to luminaires and lamps, HCL systems, electronic components, light management and smart residential products, you have a competent partner in LEDVANCE on your side for your complex lighting projects. You can always rely on LEDVANCE for excellent brand quality, professional service and a good price/performance ratio.

AESTHETICALLY FUNCTIONAL LUMINAIRES

The extensive luminaire portfolio covers virtually all professional and residential applications and delivers outstanding quality and functionality. The new BIOLEX HCL system is a winner of the VDE Quality Certificate, and the red dot 2020 Product Design and 2020 German Innovation Awards.

EACH LAMP A LIGHTING SOLUTION

The lamp portfolio includes a wide choice of shapes and base sizes as well as types with additional functions (e.g. sensors), all with outstanding efficiency and durability. Alongside UV-C and LED lamps, LEDVANCE will continue to offer conventional halogen, energy-saving, fluorescent and gas discharge lamps.

FLEXIBLE LED STRIP SYSTEM

The LED Strip System includes a large number of flexible LED strips, drivers and matching accessories. With a wide range of luminous fluxes and light colors, the system allows bespoke lighting solutions to be created for virtually any indoor or outdoor application. Easy to plan, easy to combine and easy to install – that’s the principle here.

VIVARES: LIGHT MANAGEMENT, MORE COMFORTABLE THAN EVER

The future-proof IoT light management system (LMS) from LEDVANCE makes it easier and more flexible than ever to always produce optimal lighting conditions for defined requirements. The system is extremely reliable and compatible and offers all LMS components and matching LED luminaires from one source.

SMART LIGHTING FOR RESIDENTIAL APPLICATIONS

Our smart residential products offer a comprehensive combination of innovation, quality, reliability and user-friendliness. We provide a suitable solution for a variety of requirements that intelligent lighting has to meet.

MORE INFORMATION AND CLEVER TOOLS

For more information on LEDVANCE’s extensive product portfolio and clever apps and tools that will help you in your day-to-day work go to www.ledvance.com
WHENEVER AND WHEREVER: THE ONLINE PORTAL WITH ALL THE INFORMATION, ADVICE AND EXPERTISE

Are you looking for information about our products and services? LEDVANCE always keeps you up to date: at wholesalers, through our sales employees or via our Customer Service Center (email: contact@ledvance.com)
Here you'll find an overview of our competencies, databases and tools.

THE PRODUCT PORTFOLIO FILTERED TO PERFECTION
Type of base, light color, color rendering – use our online filter for targeted searches in our LED lamp portfolio:
ledvance.com/led-lamps

REFERENCES PROVIDE INSPIRATION
A selection of some top lighting projects can be found at:
ledvance.com/projects

LEDVANCE SERVICE-PLUS
Our specialized sales department supports and advises our commercial end customers – including face-to-face. Find out all you need to know at ledvance.com/vam

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A host of application-oriented eLearnings for professional users, practical tips concerning installation, integrated standards check, planning tips, and much more.

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FAST LIGHT CALCULATOR
The light calculation tool – calculate your LED lamp requirement really conveniently, taking account of relevant parameters such as room size or reflection level.1 Available directly in the eCatalog!

LIGHT CALCULATION WITH DIALUX AND RELUX
DIALux and RELUX users can now also integrate LEDVANCE products really easily into their lighting planning. We also support users through consultancy, calculation and after sales support.

1 The Fast Light Calculator is not intended to replace comprehensive, expertly executed light planning with DIALux, RELUX or another professional light planning software. The light distribution of a LED lamp can be influenced by a luminaire.
ABOUT LEDVANCE

With offices in more than 50 countries and business activities in more than 140 countries, LEDVANCE is one of the world’s leading general lighting providers for professional users and end consumers. Having emerged from OSRAM’s general lighting division, LEDVANCE offers a wide-ranging portfolio of LED luminaires for a broad spectrum of applications, intelligent lighting products for Smart Home and Smart Building solutions, one of the most comprehensive ranges of advanced LED lamps in the lighting industry, traditional light sources, an LED Strip System and light management systems.

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