# OSRAM

# PRODUCT DATASHEET
# LED Circolux 100 160° 14.5W 827 Frosted E27

CIRCOLUX LED | Circular LED lamps with E27 screw base

## Areas of application

– LED alternative for applications requiring a high luminous flux
– General illumination
– Large shades and pendant luminaires
– Outdoor use in suitable outdoor luminaires only

## Product benefits

– High luminous flux
– Long lifetime of up to 15,000 h
– Lower energy consumption than incandescent or halogen lamps
– Three year guarantee

## Product features

– Fold out base before first use
– Good quality of light; color rendering index $R_a$: ≥ 80; constant chromaticity
– Not dimmable

## TECHNICAL DATA

### Electrical data

| | |
|---|---|
| Nominal wattage | 14.5 W |
| Construction wattage | 14.50 W |
| Nominal voltage | 220…240 V |
| Operating mode | AC Mains |
| Claimed equiv. conventional lamp power | 100 W |
| Nominal current | 110 mA |
| Type of current | AC |
| Inrush current | 6 A |
| Operating frequency | 50/60 Hz |
| Mains frequency | 50/60 Hz |
| Max. lamp number on MCB B10 A | 23 |
| Max. lamp number on MCB B16 A | 29 |
| Total harmonic distortion | 95 % |
| Power factor λ | > 0.50 |

### Photometrical data

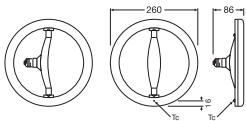| | |
|---|---|
| Luminous flux | 1521 lm |
| Nominal useful luminous flux 90° | 1521 lm |
| Luminous efficacy | 104 lm/W |
| Lumen main.fact.at end of nom.life time | 0.93 |
| Light color (designation) | Warm White |
| Color temperature | 2700 K |
| Color rendering index Ra | ≥80 |
| Light color | 827 |
| Standard deviation of color matching | ≤6 sdcm |
| Rated LLMF at 6,000 h | 0.80 |
| Flickering metric (Pst LM) | 1.0 |
| Stroboscope effect metric (SVM) | 0.4 |

349927_2700K_Evl_5630.eps

## Light technical data

| | |
|---|---|
| Beam angle | 160 ° |
| Warm-up time (60 %) | ‹ 0.50 s |
| Starting time | < 0.5 s |

## Dimensions & Weight



| | |
|---|---|
| Overall length | 86.00 mm |
| Diameter | 260.00 mm |
| Maximum diameter | 260 mm |
| Product weight | 257.00 g |

## Temperatures & operating conditions

| | |
|---|---|
| Ambient temperature range | -20…+40 °C |
| Maximum temperature at tc test point | 90 °C |

## Lifespan

| | |
|---|---|
| Lifespan L70/B50 at 25 °C | 15000 h |
| Number of switching cycles | 100000 |
| Lumen maintenance at end of service lifetime | 0.93 |

| Rated lamp survival factor at 6,000 h | ≥ 0.90 |
|---|---|

## Additional product data

| Base (standard designation) | E27 |
|---|---|
| Mercury content | 0.0 mg |
| Mercury-free | Yes |
| Design / version | Frosted |
| Product remark | 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 |

## Capabilities

| Dimmable | No |
|---|---|

## Certificates & Standards

| Energy efficiency class | F [1] |
|---|---|
| Energy consumption | 15.00 kWh/1000h |
| Type of protection | IP20 |
| Standards | CE / EAC |
| Photobiological safety group acc. to EN62778 | RG0 |

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

## Country-specific categorizations

| Order reference | LED CIRCOLUX 14 |
|---|---|

## LOGISTICAL DATA

| Temperature range at storage | -20…+80 °C |
|---|---|

## Energy labelling regulation data acc EU 2019/2015

| Lighting technology used | LED |
|---|---|
| Non-directional or directional | NDLS |
| Mains or non-mains | MLS |
| Light source cap-type (or other electric interface) | E27 |
| Connected light source (CLS) | No |
| Color-tuneable light source | No |
| Envelope | No |
| High luminance light source | No |

| | |
|---|---|
| Anti-glare shield | No |
| Correlated colour temperature type | SINGLE_VALUE |
| Standby power | 0.00 |
| Networked standby power for CLS | 0 W |
| Claim of equivalent power | Yes |
| Length | 86.00 mm |
| Height | 260.00 mm |
| Width | 260.00 mm |
| Chromaticity coordinate x | 0.458 |
| Chromaticity coordinate y | 0.410 |
| R9 Colour rendering index | 1 |
| Beam angle correspondence | SPHERE_360 |
| Survival factor | 0.90 |
| Displacement factor | 0.70 |
| LED light source replaces a fluorescent light source | No |
| EPREL ID | 522883 |
| Model number | AC32107,AC32107 |

## Safety advice

– Do not touch the lamp if broken.
– Must not be used if outer bulb is defective.

## DOWNLOAD DATA

| | Documents and certificates | Document name |
|---|---|---|
| PDF | Declarations of conformity | Self-ballasted LED lamp |

| | Photometric and lighting design files | Document name |
|---|---|---|
| | IES file (IES) | LED CIRCOLUX 14.5W 827 230V FR E27 F |
| | LDT file (Eulumdat) | LED CIRCOLUX 14.5W 827 230V FR E27 F |
| | Light distribution curve type polar | LED CIRCOLUX 14.5W 827 230V FR E27 F |
| | Spectral power distribution | 349927_2700K_Evl_5630.eps |

## LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4058075606999 | Folding box 1 | 42 mm x 263 mm x 292 mm | 277.00 g | 3.23 dm$^3$ |
| 4058075607002 | Shipping box 4 | 278 mm x 272 mm x 184 mm | 1301.00 g | 13.91 dm$^3$ |

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

## References / Links

– For dimming conformity see www.ledvance.com/dim
– For Guarantee see www.ledvance.com/guarantee

## DISCLAIMER

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