

## PRODUCT DATASHEET

### LED Superstar Classic A 100 DIM 14W 827 Frosted E27

LED SUPERSTAR PCR DIM LAMP WITH CLASSIC A | LED lamps with recycled plastic



#### Areas of application

- Domestic applications
- General illumination
- Outdoor use in suitable outdoor luminaires only

#### Product benefits

- Lower energy consumption than incandescent or halogen lamps
- High color consistency thanks to narrow binning
- Easy replacement of classic lamps thanks to compact design
- Instant 100 % light, no warm-up time

#### Product features

- LED alternative to conventional lamps
- Good quality of light; color rendering index CRI 80; constant chromaticity
- High color consistency:  $\leq 6$  SDCM
- Dimmable (with many common dimmers, see also [www.osram-lamps.com/dim](http://www.osram-lamps.com/dim))
- Mercury-free lamps



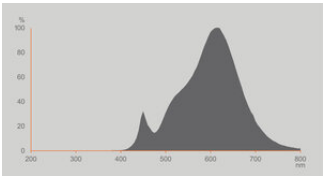
TECHNICAL DATA

Electrical data

|                                        |             |
|----------------------------------------|-------------|
| Nominal wattage                        | 14 W        |
| Construction wattage                   | 14.00 W     |
| Nominal voltage                        | 220...240 V |
| Operating mode                         | AC Mains    |
| Claimed equiv. conventional lamp power | 100 W       |
| Nominal current                        | 70 mA       |
| Type of current                        | AC          |
| Inrush current                         | 1.04 A      |
| Operating frequency                    | 50...60 Hz  |
| Mains frequency                        | 50...60 Hz  |
| Max. lamp number on MCB B10 A          | 85          |
| Max. lamp number on MCB B16 A          | 122         |
| Total harmonic distortion              | 19.9 %      |
| Power factor $\lambda$                 | 0.94        |

Photometrical data

|                                         |                     |
|-----------------------------------------|---------------------|
| Luminous flux                           | 1521 lm             |
| Luminous efficacy                       | 108 lm/W            |
| Lumen main.fact.at end of nom.life time | 0.96                |
| Light color (designation)               | Warm White          |
| Color temperature                       | 2700 K              |
| Color rendering index Ra                | 80                  |
| Light color                             | 827                 |
| Standard deviation of color matching    | ≤6 sdc <sub>m</sub> |
| Flickering metric (Pst LM)              | 1.0                 |
| Stroboscope effect metric (SVM)         | 0.4                 |



Spectral graphic classic B P 2700K  
DIM

## Light technical data

|                     |         |
|---------------------|---------|
| Beam angle          | 200 °   |
| Warm-up time (60 %) | 0.50 s  |
| Starting time       | < 0.5 s |

## Dimensions &amp; Weight

|                  |           |
|------------------|-----------|
| Overall length   | 118.00 mm |
| Diameter         | 60.00 mm  |
| Maximum diameter | 60 mm     |
| Product weight   | 40.00 g   |

## Temperatures &amp; operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+40 °C |
| Maximum temperature at tc test point | 82.8 °C      |

## Lifespan

|                                              |         |
|----------------------------------------------|---------|
| Lifespan L70/B50 at 25 °C                    | 25000 h |
| Number of switching cycles                   | 100000  |
| Lumen maintenance at end of service lifetime | 0.96    |

## 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 | Yes <sup>1)</sup> |
|----------|-------------------|

<sup>1)</sup> Check dimmer compatibility at [ledvance.com/compatibility](https://www.ledvance.com/compatibility)

## Certificates &amp; Standards

|                                              |                 |
|----------------------------------------------|-----------------|
| Energy efficiency class                      | F 1)            |
| Energy consumption                           | 14.00 kWh/1000h |
| Type of protection                           | IP20            |
| Standards                                    | CE / EAC / UKCA |
| 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 | LEDSCLA100D 14W |
|-----------------|-----------------|

### 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 W       |
| Claim of equivalent power                            | Yes          |
| Length                                               | 118.00 mm    |
| Height                                               | 60.00 mm     |
| Width                                                | 60.00 mm     |
| Chromaticity coordinate x                            | 0.4578       |
| Chromaticity coordinate y                            | 0.4101       |
| R9 Colour rendering index                            | 1            |
| Beam angle correspondence                            | SPHERE_360   |
| Survival factor                                      | 0.90         |
| Displacement factor                                  | 0.95         |
| LED light source replaces a fluorescent light source | No           |

|              |                                 |
|--------------|---------------------------------|
| EPREL ID     | 1403219,523283,1338695,2190101  |
| Model number | AC31125,AC45053,AC24703,AC69368 |

### 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                          |
|-------------------------------------------------------------------------------------|---------------------------------|----------------------------------------|
|     | Declarations of conformity      | Classic lamps add value                |
|     | Declarations of conformity      | Declaration of conformity CE           |
|     | Declarations of conformity UKCA | UKCA declaration LED stick             |
| Photometric and lighting design files                                               |                                 | Document name                          |
|  | Spectral power distribution     | Spectral graphic classic B P 2700K DIM |

### LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4058075433823 | Folding box<br>1             | 60 mm x 60 mm x 162 mm               | 56.00 g      | 0.58 dm <sup>3</sup> |
| 4058075585744 | Shipping box<br>6            | 208 mm x 135 mm x 137 mm             | 420.00 g     | 3.85 dm <sup>3</sup> |

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](http://www.ledvance.com/dim)
- For further products and actual information concerning LED lamps see [www.ledvance.com/ledlamps](http://www.ledvance.com/ledlamps)
- For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

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