

## PRODUCT DATASHEET

### LED Star R80 100 36° 8.5W 827 E27

LED STAR R80 | LED reflector lamps R80 with retrofit screw base



#### Areas of application

- Display cabinets and shop windows
- Museums, art galleries
- Hospitality
- Residential interiors
- As a downlight for marking walkways, doors, stairs, etc.
- Outdoor use in suitable outdoor luminaires only

#### Product benefits

- Long lifetime of up to 15,000 h
- Lower energy consumption than incandescent or halogen lamps
- Easy replacement of halogen lamps thanks to compact design
- Instant 100 % light, no warm-up time

#### Product features

- Professional LED alternative to halogen lamps
- Mercury-free lamps



## TECHNICAL DATA

## Electrical data

|                                        |             |
|----------------------------------------|-------------|
| Nominal wattage                        | 8.5 W       |
| Construction wattage                   | 8.50 W      |
| Nominal voltage                        | 220...240 V |
| Operating mode                         | AC Mains    |
| Claimed equiv. conventional lamp power | 100 W       |
| Nominal current                        | 55 mA       |
| Type of current                        | AC          |
| Inrush current                         | 9.12 A      |
| Operating frequency                    | 50/60 Hz    |
| Mains frequency                        | 50/60 Hz    |
| Max. lamp number on MCB B10 A          | 65          |
| Max. lamp number on MCB B16 A          | 82          |
| Total harmonic distortion              | ≤ 150 %     |
| Power factor $\lambda$                 | > 0.50      |

## Photometrical data

|                                         |            |
|-----------------------------------------|------------|
| Luminous intensity                      | 1000 cd    |
| Luminous flux                           | 670 lm     |
| Nominal useful luminous flux 90°        | 670 lm     |
| Luminous efficacy                       | 78 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 sdcn    |
| Rated peak intensity                    | 1000 cd    |
| Flickering metric (Pst LM)              | 1.0        |
| Stroboscope effect metric (SVM)         | 0.4        |



Everlight 67-23ST KKE 2700K

Light technical data

|                     |          |
|---------------------|----------|
| Beam angle          | 36 °     |
| Warm-up time (60 %) | < 0.50 s |
| Starting time       | < 0.5 s  |

Dimensions & Weight

|                  |           |
|------------------|-----------|
| Overall length   | 105.00 mm |
| Diameter         | 80.00 mm  |
| Maximum diameter | 80 mm     |
| Product weight   | 108.00 g  |

Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+40 °C |
| Maximum temperature at tc test point | 105 °C       |

Lifespan

|                                              |         |
|----------------------------------------------|---------|
| Lifespan L70/B50 at 25 °C                    | 15000 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 | Spot                                                                                                                                                                                                                                                                                                                                         |
| 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 <sup>1)</sup> |
| Energy consumption                           | 9.00 kWh/1000h  |
| Type of protection                           | IP20            |
| Standards                                    | CE / UKCA / EAC |
| Photobiological safety group acc. to EN62778 | RG1             |

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

### Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | LEDSR80100 8,5W |
|-----------------|-----------------|

### 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                      | DLS          |
| 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 W          |
| Claim of equivalent power                           | Yes          |
| Length                                              | 105.00 mm    |

|                                                      |                                         |
|------------------------------------------------------|-----------------------------------------|
| Height                                               | 80.00 mm                                |
| Width                                                | 80.00 mm                                |
| Chromaticity coordinate x                            | 0.4578                                  |
| Chromaticity coordinate y                            | 0.4101                                  |
| R9 Colour rendering index                            | 1                                       |
| Beam angle correspondence                            | NARROW_CONE_90                          |
| Survival factor                                      | 0,9                                     |
| Displacement factor                                  | ≥0.5                                    |
| LED light source replaces a fluorescent light source | No                                      |
| EPREL ID                                             | 1403202,522938,1368216,2363525          |
| Model number                                         | AC32671,AC45624,AC24584,AC45624,AC83985 |

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          | R63 R80 E27                 |
|  | Declarations of conformity          | LED spot lamp R63 R80       |
|  | Declarations of conformity UKCA     | LED spot lamp R63 R80       |
| Photometric and lighting design files                                              |                                     | Document name               |
|  | IES file (IES)                      | R80 M3 100 36 2700K E27     |
|  | LDT file (Eulumdat)                 | R80 M3 100 36 2700K E27     |
|  | Light distribution curve type polar | R80 M3 100 36 2700K E27     |
|  | Spectral power distribution         | Everlight 67-23ST KKE 2700K |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume               |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4058075433267 | Folding box<br>1             | 81 mm x 81 mm x 155 mm               | 127.00 g     | 1.02 dm <sup>3</sup> |
| 4058075616189 | Shipping box<br>6            | 264 mm x 175 mm x 131 mm             | 894.00 g     | 6.05 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.

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### References / Links

- 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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