

## PRODUCT DATASHEET

# LED Superstar R80 100 36° DIM 8.5W 827 E27

LED SUPERSTAR R80 | Dimmable 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

- Very long lifetime of up to 25,000 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
- Dimmable (with many common dimmers, see also [www.ledvance.com/dim](http://www.ledvance.com/dim))
- 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	51 mA
Type of current	AC
Inrush current	9.8 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	61
Max. lamp number on MCB B16 A	76
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	105.00 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	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	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	Yes <sup>1)</sup>
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<sup>1)</sup> Check dimmer compatibility at [ledvance.com/compatibility](https://www.ledvance.com/compatibility)

### 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

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

### Country-specific categorizations

Order reference	LEDSR80100D 8,5
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### LOGISTICAL DATA

Temperature range at storage	-20...+80 °C
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### 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	1403200,522939,1368261,2363500
Model number	AC32669,AC45657,AC24582,AC45657,AC83981

**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 100 dim 36 CRI80 2700 E27
	LDT file (Eulumdat)	R80 100 dim 36 CRI80 2700 E27
	LDT file (Eulumdat)	R80 M2 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
4058075433281	Folding box 1	81 mm x 81 mm x 155 mm	124.00 g	1.02 dm <sup>3</sup>
4058075616196	Shipping box 6	264 mm x 175 mm x 131 mm	876.00 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.

**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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