PRODUCT DATASHEET
LED R80 100 36° DIM P 8.5W 827 E27

LED R80 DIM P | Dimmable LED reflector lamps R80 with retrofit screw base



PERFOR-
MANCE
CLASS

Areas of application

- Shops and exhibition rooms
- Domestic applications
- Commercial applications
- Accent lighting
- Indoors and outdoors
- Outdoor use in suitable outdoor luminaires only

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
- Very high dimmer compatibility, see also www.ledvance.com/dim
- Instant 100 % light, no warm-up time
- Lower energy consumption than incandescent or halogen lamps

Product features

- LED alternative to high voltage halogen lamps
- High color consistency: ≤ 5 sdcm
- Dimmable
- Base: E27
- Lamp made of glass
- Very high color rendering CRI > 90
- Lifetime up to 25,000 h





TECHNICAL DATA

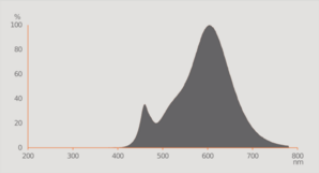
Electrical data

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
Maximum total harmonic distortion	≤ 150 %
Power factor λ	> 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 sdcm
Rated peak intensity	1000 cd
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4

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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

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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 [1)]

1) Check dimmer compatibility at ledvance.com/compatibility

Certificates & Standards

Energy efficiency class	F [1)]
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	LED R8010036 DI

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

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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	1368261,2363500
Model number	AC45657,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
PDF	Declarations of conformity	R63 R80 E27
PDF	Declarations of conformity	LED spot lamp R63 R80
PDF	Declarations of conformity UKCA	LED spot lamp R63 R80

	Photometric and lighting design files	Document name
IES	IES file (IES)	LED R8010036 DIM 8.5W 827 E27 P LEDV
LDT	LDT file (Eulumdat)	LED R8010036 DIM 8.5W 827 E27 P LEDV
	UGR file (UGR table)	LED R8010036 DIM 8.5W 827 E27 P LEDV
	Light distribution curve type polar	LED R8010036 DIM 8.5W 827 E27 P LEDV
	Spectral power distribution	Everlight 67-23ST KKE 2700K

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LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854051258	Folding box 1	82 mm x 82 mm x 118 mm	123.00 g	0.79 dm^3
4099854051265	Shipping box 10	449 mm x 188 mm x 146 mm	1547.00 g	12.32 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 further products and actual information concerning LED lamps see www.ledvance.com/ledlamps
- For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

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