PRODUCT DATASHEET
LED Line 118 177 300° P 20W 830 Clear R7s

LED LINE R7s P | Double-ended special LED lamps

Areas of application

– General illumination within ambient temperatures from -20…+40 °C
– Hospitality
– Domestic applications
– Outdoor use in suitable outdoor luminaires only

PERFOR-MANCE CLASS

Product benefits

– Fits into most R7s luminaires thanks to excentric base
– Good all-around light emission
– Long lifetime of up to 15,000 h
– Lower thermal output (compared with the standard reference product)
– Four year guarantee
– Lower energy consumption than incandescent or halogen lamps

Product features

– LED alternative to conventional R7s lamps
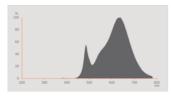– Good quality of light; color rendering index R_a: ≥ 80; constant chromaticity

A↑G **D**

TECHNICAL DATA

Electrical data

Nominal wattage	20 W
Construction wattage	20.00 W
Nominal voltage	220…240 V
Operating mode	AC Mains
Claimed equiv. conventional lamp power	177 W
Nominal current	155 mA
Type of current	AC
Inrush current	12.75 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	37
Max. lamp number on MCB B16 A	47
Total harmonic distortion	≤ 180 %
Power factor λ	≥ 0.50

Photometrical data

Luminous flux	3000 lm
Nominal useful luminous flux 90°	3000 lm
Luminous efficacy	150 lm/W
Lumen main.fact.at end of nom.life time	0.96
Light color (designation)	Warm White
Color temperature	3000 K
Color rendering index Ra	80
Light color	830
Standard deviation of color matching	≤6 sdcm
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4

EPREL data spectral diagram PROF
LEDr 3000K

Light technical data

Beam angle	300 °
Warm-up time (60 %)	‹ 0.50 s
Starting time	< 0.5 s

Dimensions & Weight

Overall length	118.00 mm
Diameter	28.00 mm
Maximum diameter	28 mm
Product weight	90.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+40 °C
Maximum temperature at tc test point	105.1 °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)	R7s
Mercury content	0.0 mg

Mercury-free	Yes
Design / version	Clear
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	D [1]
Energy consumption	20.00 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 LINE118 177

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)	R7s
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	118.00 mm
Height	28.00 mm
Width	28.00 mm
Chromaticity coordinate x	0.434
Chromaticity coordinate y	0.403
R9 Colour rendering index	12
Beam angle correspondence	SPHERE_360
Survival factor	0.9
Displacement factor	0.7
LED light source replaces a fluorescent light source	No
EPREL ID	1856536
Model number	AC58977

Safety advice

– To ensure full light efficiency and product lifetime, it is recommended to detach any glass or cover of the luminaire.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	Declarations of conformity	LED LINE 118 R7S
PDF	Declarations Of Conformity UKCA	LED LINE 118 R7S

	Photometric and lighting design files	Document name
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 3000K

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854249082	Folding box 1	30 mm x 30 mm x 122 mm	95.00 g	0.11 dm³
4099854270697	Shipping box 10	159 mm x 65 mm x 131 mm	977.00 g	1.35 dm³
4099854270703	Shipping box 120	269 mm x 169 mm x 411 mm	11921.00 g	18.68 dm³

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854249105	Shipping box 120	269 mm x 169 mm x 411 mm	11922.00 g	18.68 dm³

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.osram-lamps.com/guarantee

DISCLAIMER

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