PRODUCT DATASHEET
VALUE CLAS A 100 FR 13 W/6500 K E27

LED VALUE CLASSIC A | LED lamps, classic bulb shape

Areas of application

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

Product benefits

- Lower energy consumption than incandescent or halogen lamps
- Can be easily fitted instead of ordinary light bulbs

Product features

- LED alternative to conventional lamps
- Not dimmable
- Good color rendering CRI ≥ 80 and color stability throughout the life of the lamp

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TECHNICAL DATA

Electrical data

Nominal wattage	13 W
Construction wattage	13.00 W
Nominal voltage	220…240 V
Claimed equiv. conventional lamp power	100 W
Nominal current	105 mA
Type of current	AC
Inrush current	10 A
Operating frequency	50…60 Hz
Mains frequency	50…60 Hz
Max. lamp number on MCB B10 A	80
Max. lamp number on MCB B16 A	128
Total harmonic distortion	106.70 %
Power factor λ	> 0.50

Photometrical data

Luminous flux	1521 lm
Nominal useful luminous flux 90°	1521 lm
Luminous efficacy	117 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool Daylight
Color temperature	6500 K
Color rendering index Ra	≥80
Light color	865
Standard deviation of color matching	≤6 sdcm
Rated LLMF at 6,000 h	0.80
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.9

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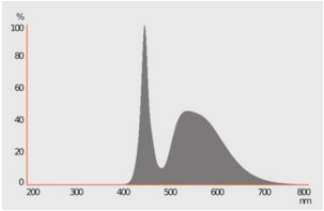
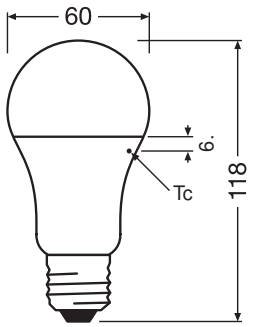


LISO spectral power distribution
6500K CRI80 v2

Light technical data

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

Dimensions & Weight



Overall length	118.00 mm
Diameter	60.00 mm
Maximum diameter	60 mm
Product weight	33.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+40 °C
Maximum temperature at tc test point	91 °C

Lifespan

Lifespan L70/B50 at 25 °C	10000 h

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Number of switching cycles	100000
Lumen maintenance at end of service lifetime	0.70
Rated lamp survival factor at 6,000 h	≥ 0.90

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	No

Certificates & Standards

Energy efficiency class	F [1)]
Energy consumption	13.00 kWh/1000h
Type of protection	IP20
Standards	ROHS 2.0 / REACH / CE / CB / ERP
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	VALUECLA100 13W

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

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Envelope	No
High luminance light source	No
Anti-glare shield	No
Correlated colour temperature type	SINGLE_VALUE
Standby power	0.00
Claim of equivalent power	Yes
Length	118.00 mm
Height	60.00 mm
Width	60.00 mm
Chromaticity coordinate x	0.312
Chromaticity coordinate y	0.328
R9 Colour rendering index	1
Beam angle correspondence	SPHERE_360
Survival factor	0.90
Displacement factor	0.70
LED light source replaces a fluorescent light source	No
EPREL ID	1403222,523301,1381375,1857039,1855174,2187369
Model number	AC31143,AC44924,AC24706,AC55991,AC56443,AC70647

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	EC Declaration of Conformity CLA Non Dim AC31141-56 AC31177-9 AC34531-3
PDF	Declarations of conformity UKCA	LED CLASSIC A_P NON-DIM

	Photometric and lighting design files	Document name
IES	IES file (IES)	AC08357_CLA100 13W 230VFRE27
LDT	LDT file (Eulumdat)	AC08357_CLA100 13W 230VFRE27

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	Photometric and lighting design files	Document name
	Light distribution curve type polar	VALUECLA100 13W 865 230VFR E27 FS1 OSRAM
	Spectral power distribution	LISO spectral power distribution 6500K CRI80 v2

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4052899971042	Folding box 1	60 mm x 60 mm x 127 mm	50.00 g	0.46 dm^3
4052899971134	Shipping box 10	315 mm x 132 mm x 141 mm	660.00 g	5.86 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.

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.

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