

## 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  $\geq 80$  and color stability throughout the life of the lamp



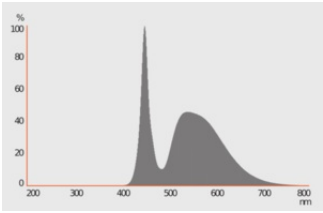
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**TECHNICAL DATA****Electrical data**

|                                        |             |
|----------------------------------------|-------------|
| 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 $\lambda$                 | > 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 sdcn       |
| Rated LLMF at 6,000 h                   | 0.80          |
| Flickering metric (Pst LM)              | 1.0           |
| Stroboscope effect metric (SVM)         | 0.9           |

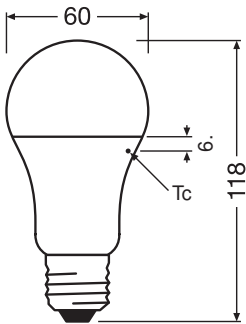


LISO spectral power distribution  
6500K CRI80 v2

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 |
|---------------------------|---------|

|                                              |        |
|----------------------------------------------|--------|
| 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 <sup>1)</sup>                  |
| 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   |

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

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

| 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<br>1             | 60 mm x 60 mm x 127 mm               | 50.00 g      | 0.46 dm <sup>3</sup> |
| 4052899971134 | Shipping box<br>10           | 315 mm x 132 mm x 141 mm             | 660.00 g     | 5.86 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.

DISCLAIMER

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