



## Frost

### LED lamp

The lamps in the Frost range are specifically designed for cold environments. The LED frost lamp does not release unnecessary waste heat and maintains reliable operation all year round. The operating temperature range is exceptionally wide, from  $-40^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ . Technical specifications are clearly presented on the packaging. Standard bulb models (A60) are available in warm white 2800 K or cool white 4000 K. The cylindrical Tubular lamps (TUB37) are ideal for slim outdoor luminaires. Tubular lamps emit white light at 3000 K or cool white light at 4000 K.

Opal classic LED lamp for cold conditions,  $-40^{\circ}\text{C}$ , 4.9W 2800K E27 470lm 25000h 60x106mm, cardboard packing. Supply frequency ~50/60Hz.

Stocked: Yes

| PRODUCT CODE | CODE    | KG    | PRODUCT FAMILY |
|--------------|---------|-------|----------------|
| 4711394      | 4711394 | 0.046 | Frost          |



## EC001959 LED Lamp

| Electrotechnical data      |       |
|----------------------------|-------|
| Nominal voltage (min) (V)  | 220 V |
| Nominal voltage (max) (V)  | 240 V |
| Nominal current (min) (mA) | 49 mA |
| Nominal current (max) (mA) | 49 mA |
| Power factor               | 0.5   |
| Lamp power (min) (W)       | 4.9 W |
| Lamp power (max) (W)       | 4.9 W |
| Voltage type               | AC    |

| ETIM                                                         |             |
|--------------------------------------------------------------|-------------|
| Suitable for electronic ballast                              | No          |
| Suitable for magnetic ballast                                | No          |
| Rated luminous flux according to IEC 62612 (lm)              | 470 lm      |
| Lamp efficacy (lm/W)                                         | 96 lm/W     |
| Lamp shape                                                   | Round/globe |
| Filament lamp                                                | No          |
| Type of glass/cover                                          | Opal        |
| Cap                                                          | E27         |
| Energy efficiency class according to EU regulation 2019/2015 | F           |
| Lamp designation                                             | A-type      |
| Min. number of switching cycles                              | 1000000     |
| Weighted energy consumption in 1,000 hours (kWh)             | 5 kWh       |
| Average nominal lifespan (h)                                 | 25000 h     |

| Photometric data                             |              |
|----------------------------------------------|--------------|
| Luminous flux (min) (lm)                     | 470 lm       |
| Luminous flux (max) (lm)                     | 470 lm       |
| Colour rendering index (CRI/Ra)              | 80-89        |
| Colour of light acc. EN 12464-1              | Warm <3300 K |
| Colour temperature (min) (K)                 | 2800 K       |
| Colour temperature (max) (K)                 | 2800 K       |
| Beam angle (min) (°)                         | 240 °        |
| Beam angle (max) (°)                         | 240 °        |
| Colour consistency (McAdam ellipse)          | SDCM6        |
| Photobiological safety according to EN 62471 | RG0          |

| Structure              |         |
|------------------------|---------|
| Material of light bulb | Plastic |
| Colour                 | White   |
| Housing colour         | White   |

| Dimming and control              |     |
|----------------------------------|-----|
| Dimmable                         | No  |
| Dimming Touch and Dim            | No  |
| Dimming Zigbee                   | No  |
| Dimming Bluetooth                | No  |
| Dimming Wi-Fi                    | No  |
| No dimming function              | Yes |
| Remote operation possible        | No  |
| With movement sensor             | No  |
| With remote control              | No  |
| With twilight switch             | No  |
| Compatible with Apple HomeKit    | No  |
| Compatible with Google Assistant | No  |
| Compatible with Amazon Alexa     | No  |
| IFTTT support available          | No  |

| Measurements  |        |
|---------------|--------|
| Diameter (mm) | 60 mm  |
| Length (mm)   | 106 mm |

| Mounting                  |      |
|---------------------------|------|
| Degree of protection (IP) | IP20 |