# PRODUCT DATASHEET
# DULUX LED SQ28 EM & AC MAINS V 13W 835 GR8

DULUX LED SQ EM & AC MAINS V | LED replacement for CFLni with 2-pin GR8 base for CCG and AC mains operation




## Areas of application

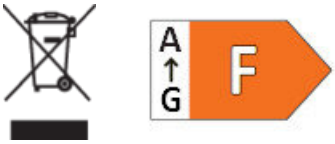
- General illumination within ambient temperatures from -20...+45 °C
- Supermarkets and department stores
- Walkways and corridors
- Hotels, restaurants

## Product benefits

- Easy installation
- Low energy consumption
- Easy relamping thanks to compact design
- Operation directly on 230 V AC mains possible

## Product features

- LED replacement for conventional compact fluorescent lamps for use in CCG luminaires or on AC mains
- Lifetime: up to 30,000 h
- Single-ended two-pin plug-in GR8 base
- Type of protection: IP20
- Mercury-free lamps





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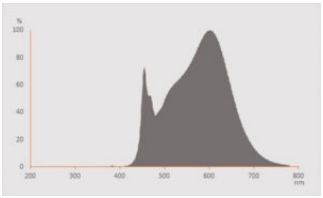
## TECHNICAL DATA

### Electrical data

| | |
|---|---|
| Nominal wattage | 13 W |
| Construction wattage | 13.00 W |
| Nominal voltage | 220...240 V |
| Operating mode | CCG, AC Mains |
| Claimed equiv. conventional lamp power | 28 W |
| Nominal current | 57 mA |
| Type of current | AC |
| Inrush current | 6 A |
| Operating frequency | 50/60 Hz |
| Mains frequency | 50/60 Hz |
| Max. lamp no. on circuit break. 10 A (B) | 75 |
| Max. lamp no. on circuit break. 16 A (B) | 120 |
| Total harmonic distortion | ≤ 30 % |
| Power factor λ | > 0.90 |

### Photometrical data

| | |
|---|---|
| Luminous flux | 1350 lm |
| Nominal useful luminous flux 90° | 1350 lm |
| Luminous efficacy | 103 lm/W |
| Lumen main.fact.at end of nom.life time | 0.70 |
| Light color (designation) | Warm White |
| Color temperature | 3500 K |
| Color rendering index Ra | 80 |
| Light color | 835 |
| Standard deviation of color matching | ≤6 sdcm |
| Flickering metric (Pst LM) | 1.0 |
| Stroboscope effect metric (SVM) | 0.4 |

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## Light technical data

| | |
|---|---|
| Beam angle | 130 ° |
| Warm-up time (60 %) | ‹ 0.50 s |
| Starting time | < 0.5 s |

## Dimensions & Weight



| | |
|---|---|
| Overall length | 204.00 mm |
| Diameter | 202.00 mm |
| Tube diameter | 19,0 mm |
| Maximum diameter | 202 mm |
| Product weight | 140.00 g |

## Temperatures & operating conditions

| | |
|---|---|
| Ambient temperature range | -20…+45 °C |
| Maximum temperature at tc test point | 70 °C |

## Lifespan

| | |
|---|---|
| Lifespan L70/B50 at 25 °C | 30000 h |
| Number of switching cycles | 200000 |
| 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) | GR8 |
| Mercury content | 0.0 mg |
| Mercury-free | Yes |
| Design / version | Frosted |

## Capabilities

| | |
|---|---|
| Dimmable | No |


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## Certificates & Standards

| | |
|---|---|
| Energy efficiency class | F [1)] |
| Energy consumption | 13.00 kWh/1000h |
| Type of protection | IP20 |
| Standards | CE / EAC / UKCA |
| 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 | DULUX LED SQ28 |

## 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) | GR8 |
| 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 | No |
| Length | 204.00 mm |
| Height | 202.00 mm |
| Width | 202.00 mm |
| Chromaticity coordinate x | 0.407 |
| Chromaticity coordinate y | 0.392 |
| R9 Colour rendering index | 0.00 |
| Beam angle correspondence | SPHERE_360 |
| Survival factor | 0.90 |
| Displacement factor | 0.90 |


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| | |
|---|---|
| LED light source replaces a fluorescent light source | No |
| EPREL ID | 1404787 |
| Model number | AC46465 |

## Safety advice

- Not suitable for tandem operation.
- The operating temperature range of DULUX LED is restricted. In case of doubt regarding suitability of the application please measure Tc max temperature on the product prior to installation.

## DOWNLOAD DATA

| | Documents and certificates |
|---|---|
| PDF | User instruction |
| | Addon Technical Information |
| PDF | Declarations Of Conformity CE |
| PDF | Declarations Of Conformity UKCA |

| | Photometric and lighting design files |
|---|---|
| IES | IES file (IES) |
| LDT | LDT file (Eulumdat) |
| | UGR file (UGR table) |
| | LDC typ cone |
| | LDC typ polar |
| | Spectral power distribution |

## LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4058075822597 | Folding box<br>1 | 46 mm x 216 mm x 217 mm | 181.00 g | 2.16 $dm^3$ |


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| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4058075822603 | Shipping box<br>10 | 468 mm x 224 mm x 231 mm | 2053.00 g | 24.22 $dm^3$ |

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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