# PRODUCT DATASHEET
# DULUX LED D18 VT EM & AC MAINS V 7.5W 830 G24D

DULUX LED D VT EM & AC MAINS V | LED replacement for CFLni with 2-pin G24d 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
- Only suitable for vertical application
- Lifetime: up to 30,000 h
- Single-ended two-pin plug-in G24d base
- Type of protection: IP20
- Mercury-free lamps







© 2023, LEDVANCE GmbH. All rights reserved.

## TECHNICAL DATA

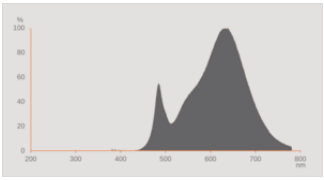
### Electrical data

| | |
|---|---|
| Nominal wattage | 7.5 W |
| Construction wattage | 7.50 W |
| Nominal voltage | 220...240 V |
| Operating mode | CCG, AC Mains |
| Claimed equiv. conventional lamp power | 18 W |
| Nominal current | 38 mA |
| Type of current | AC |
| Inrush current | 4.5 A |
| Operating frequency | 50/60 Hz |
| Mains frequency | 50/60 Hz |
| Max. lamp no. on circuit break. 10 A (B) | 180 |
| Max. lamp no. on circuit break. B10 A - CCG without compensation | 180 |
| Max. lamp no. on circuit break. B10 A - CCG with compensation | 28 |
| Max. lamp no. on circuit break. 16 A (B) | 320 |
| Max. lamp no. on circuit break. B16 A - CCG without compensation | 320 |
| Max. lamp no. on circuit break. B16 A - CCG with compensation | 46 |
| Total harmonic distortion | ≤ 30 % |
| Power factor λ | > 0.90 |

### Photometrical data

| | |
|---|---|
| Luminous flux | 870 lm |
| Nominal useful luminous flux 90° | 870 lm |
| Luminous efficacy | 116 lm/W |
| Lumen main.fact.at end of nom.life time | 0.70 |
| Light color (designation) | Warm White |
| Color temperature | 3000 K |
| Color rendering index Ra | 80 |
| Light color | 830 |
| Standard deviation of color matching | ≤6 sdcm |
| Rated LLMF at 6,000 h | 0.90 |
| Flickering metric (Pst LM) | 1.0 |
| Stroboscope effect metric (SVM) | 0.4 |


© 2023, LEDVANCE GmbH. All rights reserved.



## Light technical data

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

## Dimensions & Weight



| | |
|---|---|
| Overall length | 117.00 mm |
| Diameter | 37.70 mm |
| Tube diameter | 37.7 mm |
| Maximum diameter | 38 mm |
| Product weight | 90.00 g |

## Temperatures & operating conditions

| | |
|---|---|
| Ambient temperature range | -20…+45 °C |
| Maximum temperature at tc test point | 75 °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) | G24d |
| Mercury content | 0.0 mg |


© 2023, LEDVANCE GmbH. All rights reserved.

| | |
|---|---|
| Mercury-free | Yes |
| Design / version | Frosted |

## Capabilities

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

## Certificates & Standards

| | |
|---|---|
| Energy efficiency class | E [1)] |
| Energy consumption | 8.00 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 D18 V |

## 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) | G24d |
| 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 |
| Claim of equivalent power | No |
| Length | 117.00 mm |
| Height | 37.70 mm |
| Width | 37.70 mm |
| Chromaticity coordinate x | 0.440 |
| Chromaticity coordinate y | 0.403 |


© 2023, LEDVANCE GmbH. All rights reserved.

| | |
|---|---|
| R9 Colour rendering index | 0.00 |
| Beam angle correspondence | SPHERE_360 |
| Survival factor | 0,90 |
| Displacement factor | 0,90 |
| LED light source replaces a fluorescent light source | No |
| EPREL ID | 1404740 |
| Model number | AC46428,AC46428 |

## 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 |
| PDF | Declarations Of Conformity CE |
| PDF | Declarations Of Conformity UKCA |

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

## LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4058075821859 | Folding box<br>1 | 41 mm x 41 mm x 124 mm | 101.00 g | 0.21 $dm^3$ |


© 2023, LEDVANCE GmbH. All rights reserved.

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---|---|---|---|---|
| 4099854110139 | Shipping box<br>10 | 217 mm x 96 mm x 146 mm | 1122.00 g | 3.04 $dm^3$ |

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.


© 2023, LEDVANCE GmbH. All rights reserved.