

PRODUCT DATASHEET

DULUX LED F24 EM & AC MAINS V 12W 830 2G10

DULUX LED F EM & AC MAINS V | LED replacement for flat CFLni with 4-pin 2G10 base for CCG and AC mains operation



VALUE
CLASS

Areas of application

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

Product benefits

- Easy installation
- Low energy consumption
- Not suitable for operation with electronic control gear
- 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 four-pin plug-in 2G10 base
- Type of protection: IP20
- Mercury-free lamps



TECHNICAL DATA

Electrical data

| | |
|--|---------------------------|
| Nominal wattage | 12 W |
| Construction wattage | 12.00 W |
| Nominal voltage | 220...240 V |
| Operating mode | CCG, AC Mains |
| Nominal current | 53 mA |
| Type of current | AC |
| Inrush current | 6 A |
| Suitable for DC input | Yes |
| Input voltage DC | 186...260 V ¹⁾ |
| Operating frequency | 50/60 Hz |
| Mains frequency | 50/60 Hz |
| Max. lamp number on MCB B10 A | 75 |
| Max. lamp number on MCB B10 A - CCG without compensation | 30 |
| Max. lamp number on MCB B10 A - CCG with compensation | 19 |
| Max. lamp number on MCB B16 A | 120 |
| Max. lamp number on MCB B16 A - CCG without compensation | 48 |
| Max. lamp number on MCB B16 A - CCG with compensation | 30 |
| Total harmonic distortion | ≤ 30 % |

¹⁾ Permitted voltage range

Photometrical data

| | |
|---------------------------------|------------|
| Luminous flux | 1350 lm |
| Luminous efficacy | 112 lm/W |
| Light color (designation) | Warm White |
| Color temperature | 3000 K |
| Color rendering index Ra | 80 |
| Light color | 830 |
| Rated LLMF at 6,000 h | 0.90 |
| Flickering metric (Pst LM) | 1.0 |
| Stroboscope effect metric (SVM) | 0.4 |



EPREL data spectral diagram PROF
LEDr 3000K

Dimensions & Weight



| | |
|----------------|-----------|
| Overall length | 169.50 mm |
| Diameter | 89.50 mm |
| Tube diameter | 17,0 mm |
| Product weight | 107.00 g |

Temperatures & operating conditions

| | |
|--------------------------------------|----------------------------|
| Ambient temperature range | -20...+45 °C ¹⁾ |
| Maximum temperature at tc test point | 65 °C |

1) Temperature surrounding the lamp - for enclosed luminaires: temperature inside of the luminaire

Lifespan

| | |
|---------------------------|---------|
| Lifespan L70/B50 at 25 °C | 30000 h |
|---------------------------|---------|

Additional product data

| | |
|-----------------------------|---------|
| Base (standard designation) | 2G10 |
| Mercury-free | Yes |
| Design / version | Frosted |

Certificates & Standards

| | |
|--------------------|-----------------|
| Type of protection | IP20 |
| Standards | CE / EAC / UKCA |

| | |
|--|-----|
| Photobiological safety group acc. to EN62778 | RG0 |
|--|-----|

Country-specific categorizations

| | |
|-----------------|-----------------|
| Order reference | DULUX LED F24 E |
|-----------------|-----------------|

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) | 2G10 |
| Connected light source (CLS) | No |
| Color-tuneable light source | No |
| Envelope | No |
| High luminance light source | No |
| Anti-glare shield | No |
| Standby power | 0 W |
| Claim of equivalent power | No |
| Length | 169.50 mm |
| Height | 89.50 mm |
| Width | 89.50 mm |
| Chromaticity coordinate x | 0.433 |
| Chromaticity coordinate y | 0.403 |
| R9 Colour rendering index | 1 |
| Beam angle correspondence | SPHERE_360 |
| Survival factor | 0.90 |
| Displacement factor | 0.90 |
| LED light source replaces a fluorescent light source | No |
| EPREL ID | 1404772,2206818 |
| Model number | AC46458,AC71217 |

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 temperature on the product prior to installation.

- All electrical connections must be made by a qualified person.
- Lamp not suitable for emergency operation.
- Do not touch the lamp if broken.
- Must not be used if outer bulb is defective.

DOWNLOAD DATA

| Documents and certificates | | Document name |
|--|--|--|
|  | User instruction / safety instructions | DULUX LED F EM V |
|  | Extended installation guide | Installation instructions LED TUBE T8, T5 und DULUX LED 2024 10 EN |
|  | Legal information | Informationstext 18 Abs 4 ElektroG |
|  | Declarations of conformity | DULUX LED |
|  | Declarations of conformity | DULUX LED |
|  | Declarations of conformity UKCA | DULUX LED |
|  | Declarations of conformity UKCA | LEDTUBE |
| Photometric and lighting design files | | Document name |
|  | IES file (IES) | DULUX LED F24 EM V 12W 830 2G10 LEDV |
|  | LDT file (Eulumdat) | DULUX LED F24 EM V 12W 830 2G10 LEDV |
|  | UGR file (UGR table) | DULUX LED F24 EM V 12W 830 2G10 LEDV |
|  | Light distribution curve type cone | DULUX LED F24 EM V 12W 830 2G10 LEDV |
|  | Light distribution curve type polar | DULUX LED F24 EM V 12W 830 2G10 LEDV |
|  | Spectral power distribution | EPREL data spectral diagram PROF LEDr 3000K |

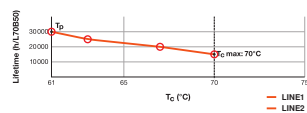
LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|----------|
| 4058075822450 | Folding box 1 | 27 mm x 92 mm x 190 mm | 128.00 g | 0.47 dm³ |

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4058075822467 | Shipping box 10 | 192 mm x 143 mm x 204 mm | 1382.00 g | 5.60 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.

ADDITIONAL CATALOG INFORMATION



DISCLAIMER

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