PRODUCT DATASHEET
DULUX LED D10 EM & AC MAINS V 5W 830 G24D-1

DULUX LED D EM & AC MAINS V | LED replacement for CFLni with 2-pin G24d base for CCG and AC mains operation



VALUE CLASS

Areas of application

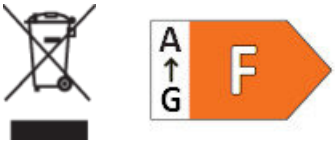
- General illumination within ambient temperatures from -20...+45 °C
- Supermarkets and department stores
- Walkways and corridors
- Hotels, restaurants

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
- Rotatable base around its longitudinal axis (± 90°)
- Single-ended two-pin plug-in G24d base
- Type of protection: IP20
- Mercury-free lamps



© 2024, LEDVANCE GmbH. All rights reserved.

TECHNICAL DATA

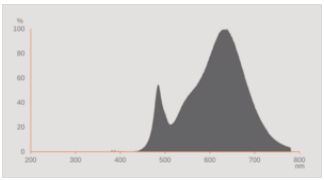
Electrical data

Nominal wattage	5 W
Construction wattage	5.00 W
Nominal voltage	220…240 V
Operating mode	CCG, AC Mains
Claimed equiv. conventional lamp power	10 W
Nominal current	23 mA
Type of current	AC
Inrush current	4 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp no. on circuit break. 10 A (B)	45
Max. lamp no. on circuit break. B10 A - CCG without compensation	114
Max. lamp no. on circuit break. B10 A - CCG with compensation	27
Max. lamp no. on circuit break. 16 A (B)	57
Max. lamp no. on circuit break. B16 A - CCG without compensation	183
Max. lamp no. on circuit break. B16 A - CCG with compensation	35
Total harmonic distortion	≤ 30 %
Power factor λ	> 0.90

Photometrical data

Luminous flux	540 lm
Nominal useful luminous flux 90°	540 lm
Luminous efficacy	108 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
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4

© 2024, LEDVANCE GmbH. All rights reserved.



Light technical data

Beam angle	120 °
Warm-up time (60 %)	‹ 0.50 s
Starting time	< 0.5 s

Dimensions & Weight



Overall length	110.00 mm
Diameter	35.00 mm
Tube diameter	27,0 mm
Maximum diameter	35 mm
Product weight	42.5 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-1

© 2024, LEDVANCE GmbH. All rights reserved.

Mercury content	0.0 mg
Mercury-free	Yes
Design / version	Frosted

Capabilities

Dimmable	No

Certificates & Standards

Energy efficiency class	F [1)]
Energy consumption	5.00 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 D10 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)	G24d-1
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	110.00 mm
Height	35.00 mm
Width	35.00 mm
Chromaticity coordinate x	0.433

© 2024, LEDVANCE GmbH. All rights reserved.

Chromaticity coordinate y	0.403
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	1404744
Model number	AC46412

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	Installation guide
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

© 2024, LEDVANCE GmbH. All rights reserved.

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075823051	Folding box 1	37 mm x 37 mm x 113 mm	51.00 g	0.15 dm^3
4058075823068	Shipping box 10	193 mm x 82 mm x 126 mm	547.00 g	1.99 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.

© 2024, LEDVANCE GmbH. All rights reserved.