

PRODUCT DATASHEET DULUX LED D10 EM & AC MAINS V 5W 840 G24D-1

DULUX LED D 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 $^{\circ}\text{C}$
- 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





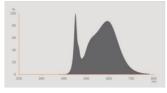
TECHNICAL DATA

Electrical data

Nominal wattage	5 W
Construction wattage	5.00 W
Nominal voltage	220240 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 number on MCB B10 A	45
Max. lamp number on MCB B10 A - CCG without compensation	114
Max. lamp number on MCB B10 A - CCG with compensation	27
Max. lamp number on MCB B16 A	57
Max. lamp number on MCB B16 A - CCG without compensation	183
Max. lamp number on MCB B16 A - CCG with compensation	35
Total harmonic distortion	≤ 30 %
Power factor λ	> 0.90

Photometrical data

Luminous flux	600 lm
Nominal useful luminous flux 90°	600 lm
Luminous efficacy	120 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	80
Light color	840
Standard deviation of color matching	≤6 sdcm
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4



EPREL data spectral diagram PROF LEDr 4000K

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

Capabilities

Dimmable	No

Certificates & Standards

Energy efficiency class	E 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

LOGISTICAL DATA		
Temperature range at storage	-20+80 °C	

DULUX LED D10 E

Energy labelling regulation data acc EU 2019/2015

0.381
0.379
0.00
SPHERE_360
0.90
0.90
No
1404745
AC46413

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 Document name	
PDF	User Instruction	DULUX LED EM VALUE
PDF	Declarations of conformity	DULUX LED
PDF	Declarations Of Conformity UKCA	DULUX LED

Photometric and lighting design files	Document name
IES file (IES)	DULUX LED D10 EM V 5W 840 G24D-1 LEDV
LDT file (Eulumdat)	DULUX LED D10 EM V 5W 840 G24D-1 LEDV
UGR file (UGR table)	DULUX LED D10 EM V 5W 840 G24D-1 LEDV
LDC typ cone	DULUX LED D10 EM V 5W 840 G24D-1 LEDV
LDC typ polar	DULUX LED D10 EM V 5W 840 G24D-1 LEDV
Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075823075	Folding box	37 mm x 37 mm x 113 mm	51.00 g	0.15 dm ³
4058075823082	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.