

# PRODUCT DATASHEET DULUX LED D13 EM & AC MAINS V 6W 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

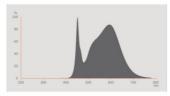
Nominal wattage	6 W
Construction wattage	6.00 W
Nominal voltage	220240 V
Operating mode	CCG, AC Mains
Claimed equiv. conventional lamp power	13 W
Nominal current	29 mA
Type of current	AC
Inrush current	14.4 A
Suitable for DC input	Yes
Input voltage DC	186260 V <sup>1)</sup>
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	41
Max. lamp number on MCB B10 A - CCG without compensation	138
Max. lamp number on MCB B10 A - CCG with compensation	10
Max. lamp number on MCB B16 A	51
Max. lamp number on MCB B16 A - CCG without compensation	221
Max. lamp number on MCB B16 A - CCG with compensation	12
Total harmonic distortion	≤ 30 %

<sup>1)</sup> Permitted voltage range

#### Photometrical data

Luminous flux	660 lm
Luminous efficacy	110 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
Rated LLMF at 6,000 h	0.90
Flickering metric (Pst LM)	1.0

Stroboscope effect metric (SVM)	0.4
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EPREL data spectral diagram PROF LEDr 4000K

## Light technical data

## Dimensions & Weight



Overall length	138.00 mm
Diameter	35.00 mm
Tube diameter	27,0 mm
Product weight	50.00 g

## Temperatures & operating conditions

Ambient temperature range	-20+45 °C <sup>1)</sup>
Maximum temperature at tc test point	73 °C

<sup>1)</sup> Temperature surrounding the lamp - for enclosed luminaires: temperature inside of the luminaire

## Lifespan

Lifespan L70/B50 at 25 °C	30000 h
Lumen maintenance at end of service lifetime	0.70

## Additional product data

Base (standard designation)	G24d-1
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Mercury content	0.0 mg
Mercury-free	Yes
Design / version	Frosted

# Capabilities

#### Certificates & Standards

Energy efficiency class	E 1)
Energy consumption	6.00 kWh/1000h
Type of protection	IP20
Standards	CE / EAC / UKCA
Photobiological safety group acc. to EN62778	RG0

<sup>1)</sup> Energy efficiency class (EEC) on a scale of A (highest efficiency) to G (lowest efficiency)

## Country-specific categorizations

## LOGISTICAL DATA

Temperature range at storage	-20+80 °C
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# 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
Standby power	0 W
Claim of equivalent power	No
Length	138.00 mm
Height	35.00 mm
Width	35.00 mm

Chromaticity coordinate x	0.381
Chromaticity coordinate y	0.379
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	1404747,2206797,2324413
Model number	AC46415,AC71063,AC81483

## 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.
- Do not touch the lamp with bare fingers.
- Must not be used if outer bulb is defective.
- Lamp not suitable for emergency operation.

#### DOWNLOAD DATA

	Documents and certificates	Document name	
PDF	User instruction / safety instructions	DULUX LED EM VALUE	
PDF	Legal information	Informationstext 18 Abs 4 ElektroG	
PDF	Declarations of conformity	DULUX LED	
PDF	Declarations of conformity	LEDTUBE	
POF	Declarations of conformity UKCA	DULUX LED	
PDF	Declarations of conformity UKCA	LEDTUBE	
	Photometric and lighting design files	Document name	
	IES file (IES)	DULUX LED D13 EM V 6W 840 G24D-1 LEDV	

Photometric and lighting design files	Document name
LDT file (Eulumdat)	DULUX LED D13 EM V 6W 840 G24D-1 LEDV
UGR file (UGR table)	DULUX LED D13 EM V 6W 840 G24D-1 LEDV
Light distribution curve type cone	DULUX LED D13 EM V 6W 840 G24D-1 LEDV
Light distribution curve type polar	DULUX LED D13 EM V 6W 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
4058075823112	Folding box 1	37 mm x 37 mm x 151 mm	63.00 g	0.21 dm <sup>3</sup>
4058075823129	Shipping box 10	193 mm x 82 mm x 165 mm	689.00 g	2.61 dm <sup>3</sup>

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.