

# PRODUCT DATASHEET DULUX LED D18 EM & AC MAINS V 7W 840 G24D-2

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

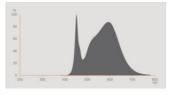
## Electrical data

Nominal wattage	7 W
Construction wattage	7.00 W
Nominal voltage	220240 V
Operating mode	CCG, AC Mains
Nominal current	32 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	125
Max. lamp number on MCB B10 A - CCG with compensation	9
Max. lamp number on MCB B16 A	52
Max. lamp number on MCB B16 A - CCG without compensation	176
Max. lamp number on MCB B16 A - CCG with compensation	11
Total harmonic distortion	≤ 30 %

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

#### Photometrical data

Luminous flux	770 lm
Luminous efficacy	110 lm/W
Light color (designation)	Cool White
Color temperature	4000 K
Color rendering index Ra	80
Light color	840
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 4000K

## Dimensions & Weight



Overall length	148.00 mm
Diameter	35.00 mm
Tube diameter	27,0 mm
Product weight	52.00 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

# Additional product data

Base (standard designation)	G24d-2
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 D18 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-2		
Connected light source (CLS)	No		
Color-tuneable light source	No		
Envelope	No		
High luminance light source	No		
Anti-glare shield	No		
Claim of equivalent power	No		
Length	148.00 mm		
Height	35.00 mm		
Width	35.00 mm		
Chromaticity coordinate x	0.381		
Chromaticity coordinate y	0.379		
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	1404749,2206843,2324448		
Model number	AC46417,AC71066,AC81486		

## 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	
POF	User instruction / safety instructions	DULUX LED EM VALUE	
POF	Extended installation guide	Installation instructions LED TUBE T8, T5 und DULUX LED 2024 10 EN	
POF	Legal information	Informationstext 18 Abs 4 ElektroG	
POF	Declarations of conformity	DULUX LED	
POF	Declarations of conformity	LEDTUBE	
POF	Declarations of conformity UKCA	DULUX LED	
POF	Declarations of conformity UKCA	LEDTUBE	
	Photometric and lighting design files	Document name	
	IES file (IES)	DULUX LED D18 EM V 7W 840 G24D-2 LEDV	
	LDT file (Eulumdat)	DULUX LED D18 EM V 7W 840 G24D-2 LEDV	
	UGR file (UGR table)	DULUX LED D18 EM V 7W 840 G24D-2 LEDV	
	Light distribution curve type cone	DULUX LED D18 EM V 7W 840 G24D-2 LEDV	
	Light distribution curve type polar	DULUX LED D18 EM V 7W 840 G24D-2 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
4058075823150	Folding box 1	37 mm x 37 mm x 151 mm	65.00 g	0.21 dm <sup>3</sup>

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075823167	Shipping box 10	193 mm x 82 mm x 165 mm	709.00 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.