

# PRODUCT DATASHEET DULUX LED D18 EM & AC MAINS VALUE 7W 830 G24D-2

DULUX LED D EM & AC MAINS VALUE | 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

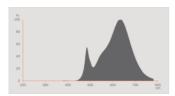
Nominal wattage	7 W
Construction wattage	7.00 W
Nominal voltage	220240 V
Operating mode	CCG, AC Mains
Claimed equiv. conventional lamp power	18 W
Nominal current	32 mA
Type of current	AC
Inrush current	14.4 A
Suitable for DC input	Yes
Input voltage DC	186260 V <sup>1)</sup>
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	32
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	41
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 %
Power factor $\lambda$	> 0.90

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

# Photometrical data

Luminous flux	700 lm
Nominal useful luminous flux 90°	870 lm
Luminous efficacy	100 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

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

# Light technical data

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

# Dimensions & Weight



Overall length	148.00 mm
Diameter	35.00 mm
Tube diameter	27,0 mm
Maximum diameter	38 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
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-2
Mercury content	0.0 mg
Mercury-free	Yes
Design / version	Frosted

# Capabilities

Dimmable	No

#### Certificates & Standards

Energy efficiency class	F 1)
Energy consumption	7.00 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

Temperature range at storage

Order reference	DULUX LED D18 E
LOGISTICAL DATA	

-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
Correlated colour temperature type	SINGLE_VALUE
Standby power	0 W
Claim of equivalent power	No
Length	148.00 mm
Height	35.00 mm
Width	35.00 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	1404748,2206826,2324425
Model number	AC46416,AC71065,AC81485

# 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	LEDVANCE Luminaire conversion checklist	
POF	Legal information	Informationstext 18 Abs 4 ElektroG	
POF	Declarations of conformity	DULUX LED	

	Documents and certificates		Document name	
POF	Declarations of conformity		LEDTUBE	
POF	Declarations of conformity UKC/	A DULUX LED		
PDF	Declarations of conformity UKCA	CA LEDTUBE		
	Photometric and lighting design	files	Document name	
	IES file (IES)		DULUX LED D18 EM V 7W 830 G24D-2 LEDV	
	LDT file (Eulumdat)		DULUX LED D18 EM V 7W 830 G24D-2 LEDV	
	UGR file (UGR table)		DULUX LED D18 EM V 7W 830 G24D-2 LEDV	
	Light distribution curve type cone		DULUX LED D18 EM V 7W 830 G24D-2 LEDV	
	Light distribution curve type polar		DULUX LED D18 EM V 7W 830 G24D-2 LEDV	
	Spectral power distribution		EPREL data spectral diagram PROF LEDr 3000K	
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	Tender texts	Document name		
	Tender documents	DULUX LED D EM	I AC MAINS VALUE 7W 830 G24D 2-en	

#### LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075823136	Folding box	37 mm x 37 mm x 151 mm	65.00 g	0.21 dm <sup>3</sup>
4058075823143	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.