PRODUCT DATASHEET
DULUX LED D18 VT EM & AC MAINS 7.5W 840 G24D

OSRAM DULUX LED D VT EM & AC MAINS | LED replacement for CFLni with 2-pin G24d base for CCG

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
- Only suitable for vertical application
- Lifetime up to 30,000 h
- Single-ended two-pin plug-in G24d base
- Type of protection: IP20
- Mercury-free lamps

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TECHNICAL DATA

Electrical data

Nominal wattage	7.5 W
Construction wattage	7.50 W
Nominal voltage	220…240 V
Operating mode	Conventional control gear (CCG), AC
Claimed equiv. conventional lamp power	18 W
Nominal current	34 mA
Type of current	AC
Inrush current	19.6 A
Suitable for DC input	Yes
Input voltage DC	186…260 V [1)]
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	38
Max. lamp number on MCB B10 A - CCG without compensation	118
Max. lamp number on MCB B10 A - CCG with compensation	8
Max. lamp number on MCB B16 A	48
Max. lamp number on MCB B16 A - CCG without compensation	188
Max. lamp number on MCB B16 A - CCG with compensation	11
Total harmonic distortion	≤ 30 %
Power factor λ	> 0.90

1) Permitted voltage range

Photometrical data

Luminous flux	950 lm
Nominal useful luminous flux 90°	700 lm
Luminous efficacy	126 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

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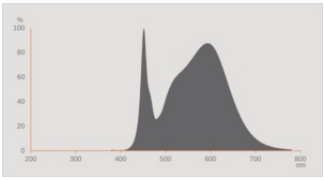
Flickering metric (Pst LM)	1.0
Stroboscope effect metric (SVM)	0.4



EPREL data spectral diagram PROF LEDr 4000K

Light technical data

Beam angle	300 °
Warm-up time (60 %)	‹ 0.50 s
Starting time	< 0.5 s

Dimensions & Weight

Overall length	124.00 mm
Diameter	37.70 mm
Tube diameter	35 mm
Maximum diameter	33 mm
Product weight	85.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+45 °C [1)]
Maximum temperature at tc test point	70 °C

1) Temperature surrounding the lamp - for enclosed luminaires: temperature inside of the luminaire

Lifespan

Lifespan L70/B50 at 25 °C	30000 h

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

Capabilities

Dimmable	No

Certificates & Standards

Energy efficiency class	E [1)]
Energy consumption	8.00 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 D18 V

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
Connected light source (CLS)	No
Color-tuneable light source	No
Envelope	No
High luminance light source	No
Anti-glare shield	No

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Correlated colour temperature type	SINGLE_VALUE
Standby power	0 W
Claim of equivalent power	No
Length	124.00 mm
Height	37.70 mm
Width	37.70 mm
Chromaticity coordinate x	0.380
Chromaticity coordinate y	0.380
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	1404741,1412874,2206855,2324426
Model number	AC46429,AC47825,AC47825,AC71122,AC81515

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.
- Not suitable for emergency lighting.
- Do not touch the lamp if broken.
- Must not be used if outer bulb is defective.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	OSRAM DULUX LED D VERTICAL
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	DULUXLED
PDF	Declarations of conformity	LEDTUBE
PDF	Declarations of conformity UKCA	DULUX LED

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	Documents and certificates	Document name
PDF	Declarations of conformity UKCA	LEDTUBE

	Photometric and lighting design files	Document name
IES	IES file (IES)	DULUX LED D18 VT EM 7.5W 840 G24D
IES	IES file (IES)	DULUX LED D18 VT EM 7.5W 840 G24D OSRAM
LDT	LDT file (Eulumdat)	DULUX LED D18 VT EM 7.5W 840 G24D
LDT	LDT file (Eulumdat)	DULUX LED D18 VT EM 7.5W 840 G24D OSRAM
	UGR file (UGR table)	DULUX LED D18 VT EM 7.5W 840 G24D OSRAM
	Light distribution curve type polar	DULUX LED D18 VT EM 7.5W 840 G24D
	Light distribution curve type polar	DULUX LED D18 VT EM 7.5W 840 G24D OSRAM
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K

	Tender texts	Document name
TXT	Tender documents	OSRAM DULUX LED D VT EM AC MAINS 7.5W 840 G24D-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075824553	Folding box 1	41 mm x 49 mm x 128 mm	98.00 g	0.26 dm^3
4099854109843	Shipping box 10	222 mm x 111 mm x 140 mm	1089.00 g	3.45 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

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