PRODUCT DATASHEET
DULUX LED L18 HF & AC MAINS 8W 840 2G11

OSRAM DULUX LED L HF & AC MAINS | LED replacement for CFLni with 4-pin 2G11 base for ECG

Areas of application

- General illumination within ambient temperatures from -20…+45 °C
- Offices, public buildings
- Shops
- Hotels, restaurants
- Industry

Product benefits

- Easy installation
- Low energy consumption
- Not suitable for operation with conventional control gear
- 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 ECG luminaires or on AC mains
- Lifetime up to 30,000 h
- Single-ended four-pin plug-in 2G11 base
- Type of protection: IP20
- Mercury-free lamps

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TECHNICAL DATA

Electrical data

Nominal wattage	8 W
Construction wattage	8.00 W
Nominal voltage	220…240 V
Operating mode	ECG, AC Mains [1)]
Claimed equiv. conventional lamp power	18 W
Nominal current	38 mA
Type of current	AC
Inrush current	5 A
Suitable for DC input	Yes
Input voltage DC	186…260 V [2)]
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	230
Max. lamp number on MCB B16 A	370
Total harmonic distortion	≤ 30 %
Power factor λ	> 0.90

1) Check ECG compatibility at ledvance.com/compatibility

2) Permitted voltage range

Photometrical data

Luminous flux	1000 lm
Luminous efficacy	125 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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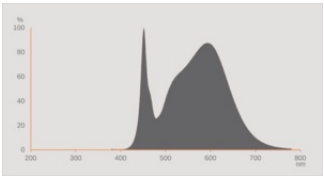

EPREL data spectral diagram PROF LEDr 4000K

Light technical data

Beam angle	140 °
Starting time	< 0.5 s

Dimensions & Weight

Overall length	229.50 mm
Diameter	44.00 mm
Tube diameter	17,0 mm
Product weight	80.00 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
Number of switching cycles	200000
Lumen maintenance at end of service lifetime	0.70

Additional product data

Base (standard designation)	2G11
Mercury content	0.0 mg
Mercury-free	Yes

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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 L18 H

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)	2G11
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	229.50 mm
Height	44.00 mm
Width	44.00 mm
Chromaticity coordinate x	0.381
Chromaticity coordinate y	0.379

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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	604661,1412850,2206811
Model number	AC35195,AC47841,AC71207

Safety advice

- Always check the latest update of the compatibility list available on www.ledvance.com/ecg-compatibility.
- Not suitable for operation with conventional control gear.
- 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	DULUX LED L HF
PDF	Extended installation guide	Installation instructions LED TUBE T8, T5 und DULUX LED 2024 10 EN
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	DULUX LED
PDF	Declarations of conformity	DULUX LED
PDF	Declarations of conformity UKCA	DULUX LED
PDF	Declarations of conformity UKCA	DULUX LED

	Photometric and lighting design files	Document name
IES	IES file (IES)	DULUX L18LED 8W840 230VHF 2G11

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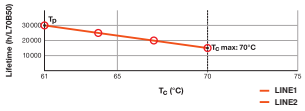
	Photometric and lighting design files	Document name
	LDT file (Eulumdat)	DULUX L18LED 8W840 230VHF 2G11
	Light distribution curve type polar	DULUX L18LED 8W840 230VHF 2G11
	Spectral power distribution	EPREL data spectral diagram PROF LEDr 4000K

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075557499	Folding box 1	27 mm x 42 mm x 310 mm	100.00 g	0.35 dm^3
4058075557505	Shipping box 10	322 mm x 288 mm x 62 mm	1230.00 g	5.75 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.

ADDITIONAL CATALOG INFORMATION



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