PRODUCT DATASHEET
DULUX F LED EM 18 W/4000 K 200 mm

OSRAM DULUX LED F EM & AC MAINS | LED replacement for CFLni with 4-pin 2G10 base for CCG

Areas of application

– 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
– Single-ended four-pin plug-in 2G10 base
– Type of protection: IP20
– Mercury-free lamps

TECHNICAL DATA

Electrical data

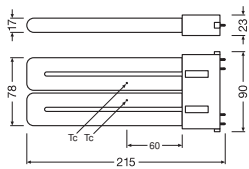|	
Nominal wattage	18 W
Construction wattage	18.00 W
Nominal voltage	220…240 V
Operating mode	AC, Conventional control gear (CCG)
Claimed equiv. conventional lamp power	36 W
Nominal current	82 mA
Type of current	AC
Inrush current	20 A
Operating frequency	50/60 Hz
Mains frequency	50/60 Hz
Max. lamp number on MCB B10 A	100
Max. lamp number on MCB B10 A - CCG without compensation	100
Max. lamp number on MCB B10 A - CCG with compensation	100
Max. lamp number on MCB B16 A	160
Max. lamp number on MCB B16 A - CCG without compensation	160
Max. lamp number on MCB B16 A - CCG with compensation	160
Total harmonic distortion	< 30 %
Power factor λ	> 0.90

Photometrical data

Luminous flux	2500 lm
Nominal useful luminous flux 90°	2500 lm
Luminous efficacy	138 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	0.80

Light technical data

Beam angle	130 °

Warm-up time (60 %)	‹ 0.50 s
Starting time	< 0.5 s

Dimensions & Weight

Overall length	215.00 mm
Diameter	17,0 mm
Maximum diameter	17 mm
Product weight	146.00 g

Temperatures & operating conditions

Ambient temperature range	-20…+50 °C
Maximum temperature at tc test point	70 °C

Lifespan

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)	2G10
Mercury content	0.0 mg
Mercury-free	Yes

Capabilities

Dimmable	No

Certificates & Standards

Energy efficiency class	D [1]
Energy consumption	18.00 kWh/1000h
Type of protection	IP20

Standards	CE
Photobiological safety group acc. to EN62778	RG1

1) Energy efficiency class (EEC) on a scale of A++ (highest efficiency) to E (lowest efficiency)

Country-specific categorizations

Order reference	DULUX F36LED 18

Energy labelling regulation data acc EU 2019/2015

Light source cap-type (or other electric interface)	2G10
Length	215.00 mm
Height	17,0 mm
Width	17,0 mm

Safety advice

– Not suitable for tandem operation.
– Not suitable for operation with electronic 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

	Photometric and lighting design files	Document name
	IES file (IES)	IES File AC23589 DULUX F36 LED 18W840 230V AC MAIN
	LDT file (Eulumdat)	LDT File AC23589 DULUX F36 LED 18W840 230V AC MAIN
	Light distribution curve type polar	DULUX F36 LED 18W840 230V AC MAIN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075408265	Folding box 1	92 mm x 27 mm x 242 mm	189.00 g	0.60 dm^3
4058075408272	Shipping box 10	194 mm x 146 mm x 259 mm	2054.00 g	7.34 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

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.