PRODUCT DATASHEET
DL CMFT D100 P 13W ML 93040 OP WT

DOWNLIGHT COMFORT OPAL | Downlight luminaires with aluminum housing and high luminous efficacy



Areas of application

- Direct replacement for recessed luminaires with fluorescent lamps
- Offices, conference rooms
- Reception areas, foyers, corridors, elevators

Product benefits

- Energy savings thanks to high system efficacy: up to 120 lm/W
- Highly versatile due to Multi Select functions
- High color rendering index CRI > 90
- External driver for extended flexibility and easy installation
- Through wiring possible via additional connector box accessory
- Type of protection: IP44
- Easy installation with fast connection
- Further variants with DALI-2 driver, Zigbee driver or Emergency Conversion Kit available

Product features

- Aluminum luminaires with 4 different cut-outs and opal diffuser
- Very homogenous light distribution
- External driver with Multi Lumen function of up to 5000 lm
- Multi Color function
- Consistent lighting color ≤ 3 SDCM



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– Lifetime (L80/B10): 70,000 h (at 25 °C)

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TECHNICAL DATA

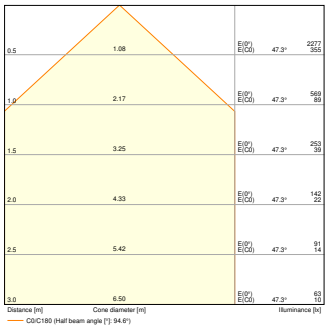
Electrical data

Nominal wattage	13.00 W
Nominal voltage	220…240 V
Mains frequency	50…60 Hz
Nominal current	60 mA
Inrush current	24.8 A
Inrush current time T_{h50}	6.2 µs
Max. number of luminaires per miniature circuit breaker B16	30
Max. number of luminaires per miniature circuit breaker C10	24
Max. number of luminaires per miniature circuit breaker C16	38
Power factor λ	> 0.90
Total harmonic distortion	≤ 15 %
Protection class	II
Surge capability (L/N-Ground)	1000 V
Operating mode	External LED driver

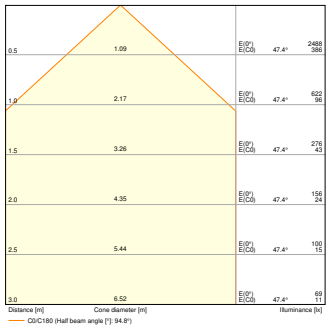
Photometrical data

Luminous flux	1430 lm
Luminous efficacy	110 lm/W
Color temperature	4000 K
Reference control setting of contained light source (Kelvin)	4000 K
Light color (designation)	Warm White / Cool White
Color rendering index Ra	> 90
Standard deviation of color matching	3 sdcm
Low flicker	Yes
Flickering metric (Pst LM)	<1
Stroboscope effect metric (SVM)	<0.4
Photobiological safety group acc. to EN62778	RG0
Photobiological safety group acc. to EN62471	RG0
Beam angle	95 °

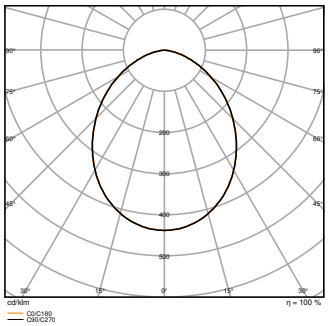
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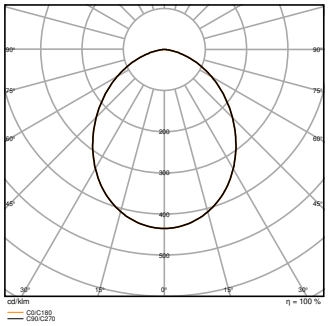
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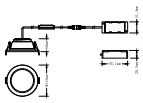
Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
13 W	3000 K	1300 lm	100 lm/W
13 W	4000 K	1430 lm	110 lm/W
10 W	3000 K	1000 lm	100 lm/W
10 W	4000 K	1100 lm	110 lm/W
7 W	3000 K	700 lm	100 lm/W
7 W	4000 K	770 lm	110 lm/W

Dimensions & Weight

Diameter	116.00 mm
Height	48.00 mm
Product weight	220.00 g
Cable length	220 mm

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Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
Body material	Aluminum
Cover material	Polycarbonate (PC)
Glow Wire Test according to IEC 60695-2-12	650 °C
Mercury content	0.0 mg

Application & Mounting

Ambient temperature range	-20…+40 °C
Temperature range at storage	-20…+80 °C
Type of connection	Screwless terminal, 2-Pole (L, N)
Type of protection	IP44/IP20
Protection class IK (shock resistance)	IK03
Dimmable	No
Mounting type	Recessed
Mounting location	Ceiling
Application environment	Indoor
Mounting width	100 mm
Mounting diameter	116,0 mm
Mounting depth	48 mm
With light source	Yes
Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	100000 h [1)]
Lifespan L80/B10 at 25 °C	70000 h [1)]

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Lifespan L80/B50 at 25 °C	70000 h
Lifespan L90/B10 at 25 °C	40000 h
Number of switching cycles	100000

1) t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

Control gear

Output current	400/310/220 mA
ECG - Output ripple current	≤ 10 %
ECG - Length	95 mm
ECG - Width	41 mm
ECG - Height	28,5 mm

Emergency lighting

Type of Emergency Lighting (EL)	Optional EL unit (battery and controller) for decentral operation available separately
Type of emergency operation test	None
Wattage in emergency operation mode	3 W
Luminous flux in emergency operation mode	339 lm

Certificates & Standards

Standards	ENEC / CB / CE / EMC / LVD
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
EPD	LEDV-00053-V01.01-EN
Replaceable light source (EPREL)	Not replaceable

Additional product data

Added function	MULTI SELECT

Accessories Optional

Product image	Product name	EAN
	DL CMFT FRAME D100 WT	4099854499906

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Product image	Product name	EAN
	DL CMFT FRAME D100 GY	4099854499944
	DL CMFT FRAME D100 BK	4099854499920
	DL CMFT EXCH RING D100 GY	4099854515408
	DL CMFT EXCH RING D100 BK	4099854515286
	DL CMFT EXT RING D140 WT	4099854741456
	DL CMFT EXT RING D140 GY	4099854741517
	DL CMFT EXT RING D140 BK	4099854741487

EQUIPMENT / ACCESSORIES

- Surface mounting frame available as separate accessory
- Security rope for luminaire included
- External control gear included
- Suitable for use with separate Emergency Conversion Box
- Gray and black exchangeable rings available as separate accessory
- Extension rings are available as separate accessory

Safety advice

- All electrical connections must be made by a qualified person.
- Caution, risk of electric shock.
- The luminaires are not suitable for covering with thermally insulated material.

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DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	DL CMFT FRAME_EXCH RING
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Legal information	DL CMFT
PDF	Legal information	Safety Insert G11207793
PDF	Legal information	EM Insert DL CMFT
PDF	Legal information	Legal insert G11262490 MW T
PDF	Declarations of conformity	DL CMFT
PDF	Declarations of conformity UKCA	DL CMFT
PDF	EPD	ENVIRONMENTAL PRODUCT DECLARATION DOWNLIGHT COMFORT GEN 2

	Photometric and lighting design files	Document name
IES	IES file (IES)	DL CMFT D100 P 13W MS 930 OP WT
IES	IES file (IES)	DL CMFT D100 P 13W MS 940 OP WT
LDT	LDT file (Eulumdat)	DL CMFT D100 P 13W MS 930 OP WT
LDT	LDT file (Eulumdat)	DL CMFT D100 P 13W MS 940 OP WT
ULD	ULD file (DIALux)	DL CMFT D100 P 13W MS 940 OP WT
ROLF	ROLF file (RELUX)	DL CMFT D100 P 13W MS 940 OP WT
	UGR file (UGR table)	DL CMFT D100 P 13W MS 930 OP WT
	UGR file (UGR table)	DL CMFT D100 P 13W MS 940 OP WT

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	Photometric and lighting design files	Document name
	Light distribution curve type cone	DL CMFT D100 P 13W MS 930 OP WT
	Light distribution curve type cone	DL CMFT D100 P 13W MS 940 OP WT
	Light distribution curve type polar	DL CMFT D100 P 13W MS 930 OP WT
	Light distribution curve type polar	DL CMFT D100 P 13W MS 940 OP WT

	CAD/BIM files	Document name
	BIM Revit 3D	DL CMFT MS
	CAD STEP 3D	DL CMFT D100 MS OP

	Tender texts	Document name
	Tender documents	DOWNLIGHT COMFORT OPAL D100 P 13W MS 940 OP WT-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854490842	Folding box 1	185 mm x 185 mm x 100 mm	309.00 g	3.42 dm^3
4099854490859	Shipping box 12	390 mm x 390 mm x 330 mm	4332.00 g	50.19 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.

References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

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

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