

PRODUCT DATASHEET

DL CMFT DA D100 P 13W ML 93040 OP WT

DOWNLIGHT COMFORT DALI OPAL | Downlight luminaires with aluminum housing, high luminous efficacy and external DALI-2 driver



Areas of application

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

Product benefits

- Suitable luminaire for VIVARES and other DALI-2 Light Management Systems
- Extended services such as energy monitoring and remote maintenance possible with DALI versions
- 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

- IoT-ready luminaire with DALI-2 technology
- 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
- Lifetime (L80/B10): 70,000 h (at 25 °C)

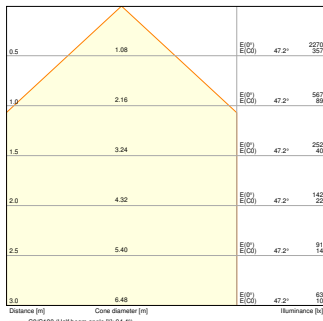
TECHNICAL DATA

Electrical data

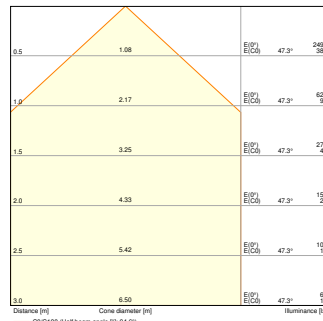
Nominal wattage	13 W / 10 W / 7 W
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	60/51.7/41.6 mA
Inrush current	24.8 A
Inrush current time T_{h50}	6.2 μ s
Max. number of luminaires per miniature circuit breaker B16	30
Max. number of luminaires per miniature circuit breaker C10	24
Max. number of luminaires per miniature circuit breaker C16	38
Power factor λ	≥ 0.90
Total harmonic distortion	$\leq 15\%$
Protection class	II
Operating mode	External LED driver
Dimming interface	DALI-2 / IoT / Push-DIM

Photometrical data

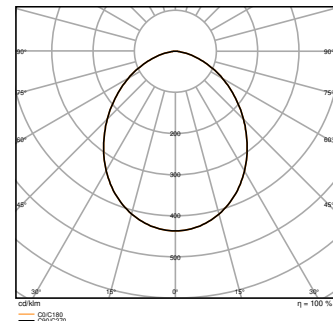
Luminous flux	1430 lm / 1100 lm / 770 lm
Luminous efficacy	110 lm/W
Color temperature	3000 K / 4000 K
Reference control setting of contained light source (Kelvin)	4000 K
Light color (designation)	Warm White / Cool White
Color rendering index Ra	> 90
Standard deviation of color matching	≤ 3 sdc _m
Luminous intensity	-
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 °



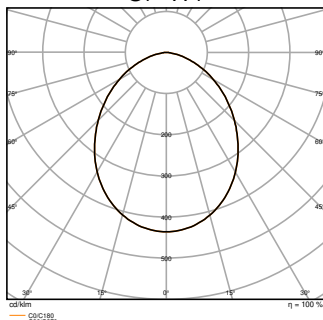
DL CMFT DA D100 P 13W MS 930
OP WT



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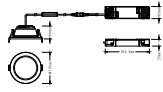
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OP WT

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	280.00 g



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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, 5-Pole
Type of protection	IP44/IP20
Protection class IK (shock resistance)	IK03
Dimmable	Yes
Type of dimming	DALI
IoT ready	Support of DALI data type PART 251, 252, 253 ¹⁾
Mounting type	Recessed
Mounting location	Ceiling
Application environment	Indoor
Mounting width	100 mm
Mounting diameter	100 mm
Mounting depth	48 mm
With light source	Yes
Replaceable light source	No

1) Internet of Things. Supports data transfer via gateway to cloud-based monitoring platforms, such as LEDVANCE VIVARES Cloud

Lifespan

Lifespan L70/B50 at 25 °C	100000 h ¹⁾
Lifespan L80/B10 at 25 °C	70000 h ¹⁾
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	400/300/200 mA
ECG - Output ripple current	≤ 10 %
ECG - Length	164 mm
ECG - Width	45 mm
ECG - Height	25 mm
Recommended control gear	DR DALI-P-30/220-240/700

Emergency lighting

Type of Emergency Lighting (EL)	EL certified driver (0Hz / DC operation) for central battery operation included / 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 / CE / UKCA / EAC / CB
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 / VIVARES
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Accessories Optional

Product image	Product name	EAN
	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 only available for DALI versions D200 and D250 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.



DOWNLOAD DATA


Documents and certificates	Document name
 User instruction / safety instructions	DL CMFT DA

Documents and certificates		Document name
	Legal information	Informationstext 18 Abs 4 ElektroG
	Legal information	DL CMFT DALI
	Legal information	Safety Insert G11207793
	Legal information	EM Insert DL CMFT
	Legal information	Legal insert DL UNIV
	Declarations of conformity	DL CMFT
	Declarations of conformity UKCA	DL CMFT
	EU Data Act	DALI LED Driver and Luminaires
	EPD	ENVIRONMENTAL PRODUCT DECLARATION DOWNLIGHT COMFORT GEN 2

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

Photometric and lighting design files		Document name
	Light distribution curve type cone	DL CMFT DA D100 P 13W MS 940 OP WT
	Light distribution curve type polar	DL CMFT DA D100 P 13W MS 930 OP WT
	Light distribution curve type polar	DL CMFT DA 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 DALI 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
4099854490866	Folding box 1	185 mm x 185 mm x 100 mm	369.00 g	3.42 dm ³
4099854490873	Shipping box 12	390 mm x 390 mm x 330 mm	5052.00 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.