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

DOWNLIGHT COMFORT ZIGBEE OPAL | Downlight luminaires with aluminum housing, high luminous efficacy and external Zigbee 3.0 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 DIRECT EASY / VIVARES Zigbee and other Zigbee 3.0 Light Management Systems
- Extended services such as energy monitoring and remote maintenance possible with Zigbee 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 Zigbee 3.0 technology
- Aluminum luminaires with 4 different cut-outs and opal diffuser
- Very homogenous light distribution
- Multi Color function
- Consistent lighting color ≤ 3 SDCM
- Lifetime (L80/B10): 70,000 h (at 25 °C)

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TECHNICAL DATA

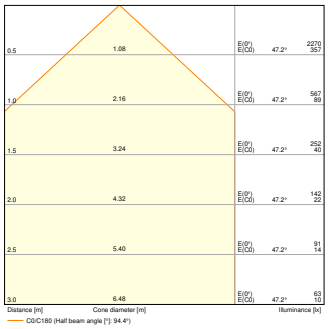
Electrical data

Nominal wattage	13.00 W
Nominal voltage	220…240 V
Mains frequency	0/50/60 Hz
Nominal current	64.000 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
Operating mode	External LED driver
Dimming interface	Zigbee Direct / IoT

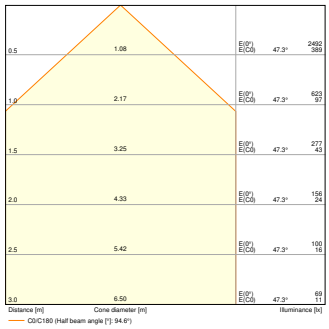
Photometrical data

Luminous flux	1430 lm / 1300 lm
Luminous efficacy	110 lm/W / 100 lm/W
Color temperature	3000 K / 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	RG1
Photobiological safety group acc. to EN62471	RG0
Beam angle	95 °

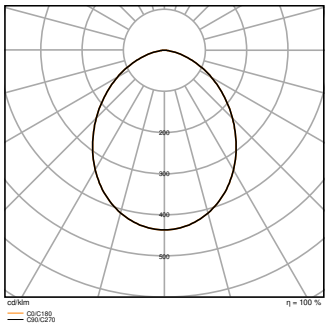
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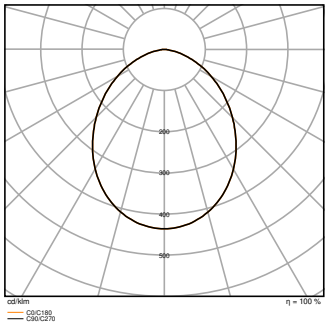
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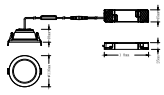
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Dimensions & Weight

Diameter	116.00 mm
Height	48.00 mm
Product weight	300.00 g



DL CMFT ZB D100 P 13W 93040 OP

Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
Body material	Aluminum

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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, 3-POLE (L, N, PE)
Type of protection	IP44/IP20
Protection class IK (shock resistance)	IK03
Dimmable	Yes
Type of dimming	ZIGBEE
IoT ready	Support of Zigbee Data Clusters: 0x0302 (Luminaire Asset Management), 0x0702 (Smart Energy: Metering), 0x0B04 (Electrical Measurement) [1)]
Mounting type	Recessed
Mounting location	Ceiling
Application environment	Indoor
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 mA
ECG - Output ripple current	< 10 %
ECG - Length	178 mm
ECG - Width	45 mm
ECG - Height	25 mm

Emergency lighting

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Type of Emergency Lighting (EL)	EL certified driver (0Hz / DC operation) for central battery operation included
Type of emergency operation test	None
Wattage in emergency operation mode	3 W
Luminous flux in emergency operation mode	339 lm

Certificates & Standards

Standards	CE / UKCA / TÜV
Luminaire with limited surface temperature, "D sign"	No
Ball shot safe	No
Replaceable light source (EPREL)	Not replaceable

Additional product data

Added function	MULTI SELECT / VIVARES

Accessories Optional

Product image	Product name	EAN
	DL CMFT FRAME D100 WT	4099854499906
	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

Components for light control

Components Light Control

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Product image	Product name	EAN
	MANUAL CONTROL UNIT SELECT DIRECT 100-240 TW RGB ZB	4099854476334
	SENSOR DIRECT LS-PD-7 IR CI ZB	4099854476358
	SWITCH KINETIC DIRECT 4B WT M ZB	4099854589799
	SWITCH KINETIC DIRECT 4B WT G ZB	4099854589812
	SWITCH KINETIC DIRECT 4B BK ZB	4099854589836
	SWITCH KINETIC DIRECT 4B GR ZB	4099854589850
	VIVARES ZB CONTROL	4058075427488
	VIVARES ZB L/O SENS 220-240	4058075446182
	VIVARES ZB O SENS 220-240	4058075544222
	VIVARES ZB COUPLER	4058075463806
	VIVARES ZB SENS ADAPTER	4058075650107

EQUIPMENT / ACCESSORIES

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- 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.

DOWNLOAD DATA

	Documents and certificates	Document name
PDF	User instruction / safety instructions	User Instruction G11249410 DL CMFT ZB
PDF	Legal information	App Download guide
PDF	Legal information	Safety Insert G11207793
PDF	Legal information	DL SLIM ALU CMFT
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	DL CMFT ZB
PDF	Declarations of conformity UKCA	DL CMFT ZB
PDF	EU Data Act	SMART ZigBee Lamps and Luminaires

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

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	Photometric and lighting design files	Document name
	UGR file (UGR table)	DL CMFT ZB D100 P 13W 940 OP WT
	Light distribution curve type cone	DL CMFT ZB D100 P 13W 930 OP WT
	Light distribution curve type cone	DL CMFT ZB D100 P 13W 940 OP WT
	Light distribution curve type polar	DL CMFT ZB D100 P 13W 930 OP WT
	Light distribution curve type polar	DL CMFT ZB D100 P 13W 940 OP WT

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

	Tender texts	Document name
	Tender documents	DOWNLIGHT COMFORT ZIGBEE OPAL D100 P 13W 93040 OP WT-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854620119	Folding box 1	185 mm x 185 mm x 100 mm	389.00 g	3.42 dm^3
4099854620126	Shipping box 12	390 mm x 390 mm x 330 mm	5292.00 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

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