PRODUCT DATASHEET
DL CMFT ZB D250 P 42W 93040 OP WT

DOWNLIGHT COMFORT ZIGBEE OPAL | Downlight luminaires with aluminum housing, high luminous efficacy and external Zigbee 3.0 driver



PERFOR-
MANCE
CLASS

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	42.00 W
Nominal voltage	220…240 V
Mains frequency	0/50/60 Hz
Nominal current	189.000 mA
Inrush current	26.4 A
Inrush current time T_{h50}	189 µs
Max. number of luminaires per miniature circuit breaker B16	14
Max. number of luminaires per miniature circuit breaker C10	12
Max. number of luminaires per miniature circuit breaker C16	19
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	5000 lm / 4600 lm
Luminous efficacy	120 lm/W / 110 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	100 °

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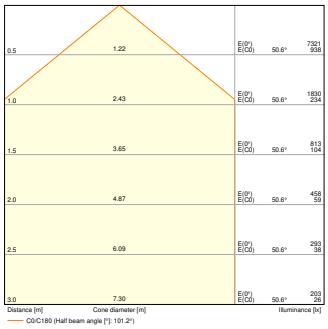

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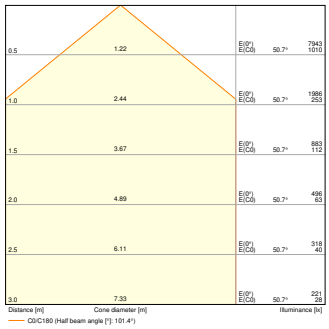

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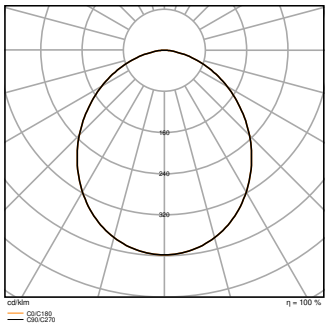

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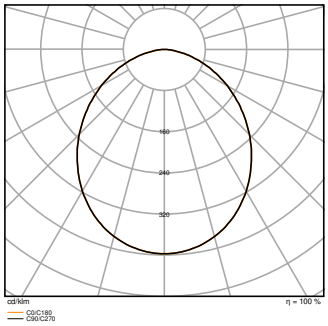

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Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
42W	3000K	4600lm	110lm/W
42W	4000K	5000lm	120lm/W

Dimensions & Weight

Diameter	265.00 mm
Height	60.00 mm
Product weight	800.00 g

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

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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	250 mm
Mounting depth	60 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	1050 mA
ECG - Output ripple current	< 10 %
ECG - Length	178 mm
ECG - Width	45 mm
ECG - Height	25 mm

Emergency lighting

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	379 lm

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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 D250 WT	4099854500145
	DL CMFT FRAME D250 GY	4099854500183
	DL CMFT FRAME D250 BK	4099854500169
	DL CMFT EXCH RING D250 GY	4099854515491
	DL CMFT EXCH RING D250 BK	4099854515378

Components for light control

Components Light Control

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

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Product image	Product name	EAN
	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

- 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

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– 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 D250 P 42W 930 OP WT
IES	IES file (IES)	DL CMFT ZB D250 P 42W 940 OP WT
LDT	LDT file (Eulumdat)	DL CMFT ZB D250 P 42W 930 OP WT
LDT	LDT file (Eulumdat)	DL CMFT ZB D250 P 42W 940 OP WT
	UGR file (UGR table)	DL CMFT ZB D250 P 42W 930 OP WT
	UGR file (UGR table)	DL CMFT ZB D250 P 42W 940 OP WT
	Light distribution curve type cone	DL CMFT ZB D250 P 42W 930 OP WT
	Light distribution curve type cone	DL CMFT ZB D250 P 42W 940 OP WT
	Light distribution curve type polar	DL CMFT ZB D250 P 42W 930 OP WT
	Light distribution curve type polar	DL CMFT ZB D250 P 42W 940 OP WT

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	CAD/BIM files	Document name
	CAD STEP 3D	DL CMFT D250 MS OP

	Tender texts	Document name
	Tender documents	DOWNLIGHT COMFORT ZIGBEE OPAL D250 P 42W 93040 OP WT-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854620355	Folding box 1	285 mm x 285 mm x 90 mm	1011.00 g	7.31 dm^3
4099854620362	Shipping box 8	590 mm x 585 mm x 205 mm	9532.00 g	70.76 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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