

PRODUCT DATASHEET

DL CMFT HE DA D250 P 36W 840 OP WT

DOWNLIGHT COMFORT HIGH EFFICIENCY DALI OPAL | Downlight luminaires with aluminum housing, high luminous efficacy and external DALI-2 driver including energy monitoring



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 155 lm/W
- Through wiring possible via included connector box
- High grade polycarbonate front frame for reduced overall luminaire weight
- Uniform light with minimized glare thanks to included reflector and diffuser
- Well suited for retrofitting using an extension ring as separate accessory
- DALI-2 certified incl. Parts 251, 252, 253
- Push DIM application for easy control

Product features

- Lifetime (L80/B10): up to 100,000 h (at 25 °C)
- Consistent lighting color ≤ 3 SDCM
- External driver with Multi Lumen function of up to 5580 lm
- Aluminum luminaires with 3 different cut-outs and opal diffuser
- Very homogenous light distribution



TECHNICAL DATA

Electrical data

Nominal wattage	36 W / 30 W / 25 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	160mA / 136mA / 115 mA
Inrush current	25.2 A
Inrush current time T_{h50}	90 μ s
Max. number of luminaires per miniature circuit breaker B16	29
Max. number of luminaires per miniature circuit breaker C10	23
Max. number of luminaires per miniature circuit breaker C16	38
Power factor λ	≥ 0.90
Total harmonic distortion	$\leq 20\%$
Protection class	II
Surge capability (L-N)	1000 V
Dimming interface	DALI-2 / IoT

Photometrical data

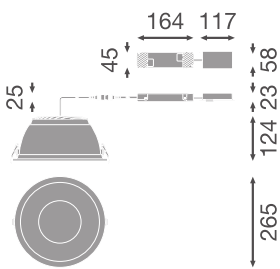
Luminous flux	5580 lm / 4650 lm / 4000 lm
Total luminous flux of contained light sources	4750 lm
Luminous efficacy	155 lm/W / 160 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	> 80
Standard deviation of color matching	3 sdc _m
Luminous intensity	2200 lm / 1840 lm / 1600 lm
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	RG1
Beam angle	100 °

Adjustable attributes

Nominal wattage	Color temperature	Luminous flux	Luminous efficacy
36 W	4000 K	5580 lm	155 lm/W
30 W	4000 K	4650 lm	155 lm/W
25 W	4000 K	4000 lm	160 lm/W

Dimensions & Weight

Diameter	265.00 mm
Height	60.30 mm
Product weight	770.00 g



DL CMFT HE DA D250 P

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	DALI2
IoT ready	Support of DALI data type PART 251, 252, 253 ¹⁾
Mounting location	Ceiling / Wall
Application environment	Indoor
Mounting diameter	250 mm
Mounting depth	124 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	100000 h ¹⁾
Lifespan L80/B50 at 25 °C	100000 h
Lifespan L90/B10 at 25 °C	61000 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	900mA / 750mA / 650 mA
ECG - Output ripple current	≤ 10 %
Recommended control gear	DR DALI-P-42/220-240/1050

Emergency lighting

Type of emergency operation test	None
Wattage in emergency operation mode	3 W
Luminous flux in emergency operation mode	410 lm






Certificates & Standards

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

Additional product data

Product remark	Available from December 2025
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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










EQUIPMENT / ACCESSORIES


- Security rope for luminaire included
- External control gear included
- Connector box with 5-pole terminal included
- Surface mounting frame options only available for DALI versions D200 and D250
- Gray and black exchangeable rings available as separate accessory
- Extension rings are available as separate accessory
- Extension ring D190 for retrofitting D150 luminaire, extension ring D240 for retrofitting D200 luminaire


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	DOWNLIGHT COMFORT HE DALI
	Legal information	Legal Insert G1120030
	Legal information	Safety Insert G11207793
	Legal information	Informationstext 18 Abs 4 ElektroG
	Legal information	LSI G11253078 DL CMFT HE DA
	Declarations of conformity	DL CMFT LUM
	Declarations of conformity UKCA	DL CMFT LUM
	Certificates	ENEC Certificate DL CMFT HE
	EU Data Act	DALI LED Driver and Luminaires

Photometric and lighting design files		Document name
	UGR file (UGR table)	DL CMFT HE DA D250 P 36W ML 840 OP WT

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

Tender texts		Document name
	Tender documents	DOWNLIGHT COMFORT HIGH EFFICIENCY DALI OPAL D250 P 36W 840 OP WT-en

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854687518	Folding box 1	109 mm x 70 mm x 262 mm	853.00 g	2.00 dm ³
4099854687525	Shipping box 8	277 mm x 257 mm x 238 mm	7820.00 g	16.94 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.