

PRODUCT DATASHEET

BIOLUX HCL DL DN150 S 21W TW DALI

BIOLUX HCL DOWNLIGHT DALI | Downlight luminaires, Tunable White, 105 lm/W, tool-free installation, DALI-2 IoT technology



SUPERIOR
CLASS

Areas of application

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

Product benefits

- Suitable luminaire for VIVARES DALI, VIVARES DALI HCL and other DALI-2 light controls
- Enables an individual Tunable White lighting solution in combination with compatible DALI-2 lighting controls
- Light quality of CRI 90 supports increased well-being in HCL applications
- 7 year system guarantee when operated in a VIVARES DALI system
- Compatible with VIVARES CLOUD SERVICE for energy monitoring
- Through-wiring possible with included cable clamp
- External DALI-2 driver for extended flexibility and easy installation
- Good glare reduction ($UGR \leq 19$)

Product features

- IoT-ready luminaire with DALI-2 technology
- Adjustable color temperature via Tunable White: 2,700...6,500 K
- Very high color rendering index Ra: > 90
- Suitable for central battery emergency installations acc. to EN 60598-2-22



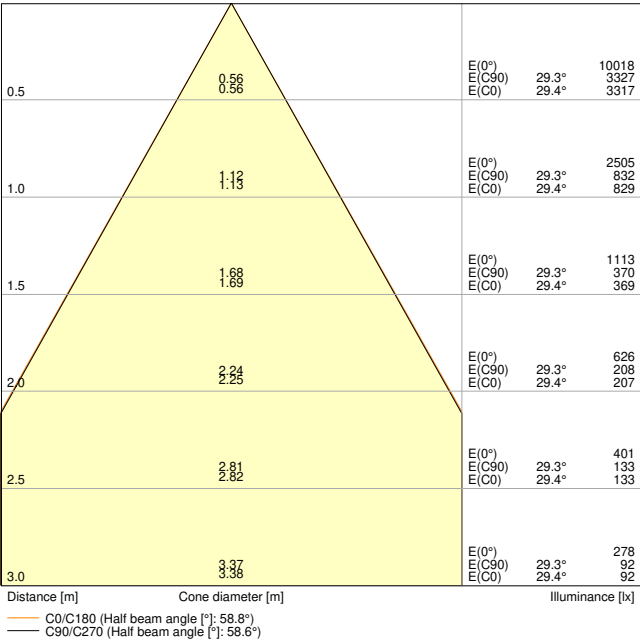
TECHNICAL DATA

Electrical data

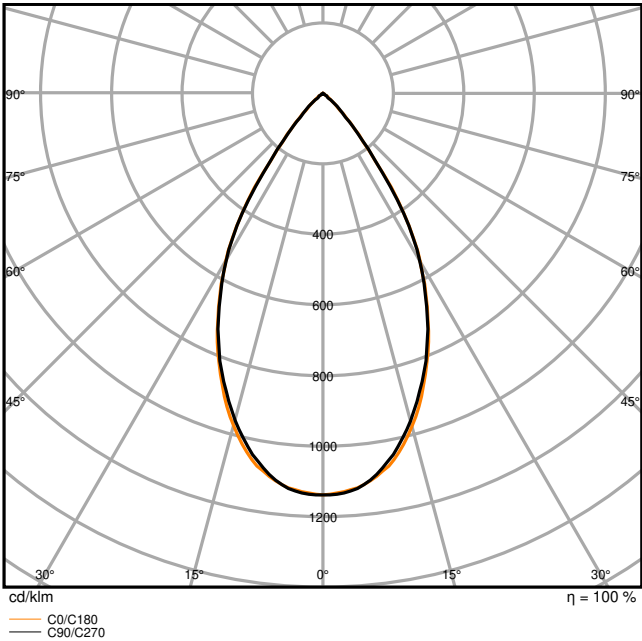
Nominal wattage	21.00 W
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	110.000 mA
Inrush current	19 A
Inrush current time T_{h50}	200 μ s
Max. number of luminaires per miniature circuit breaker B16	23
Max. number of luminaires per miniature circuit breaker C10	23
Max. number of luminaires per miniature circuit breaker C16	36
Power factor λ	0.90
Total harmonic distortion	< 20 %
Protection class	II
Operating mode	External LED driver
Dimming interface	DALI-2 / IoT

Photometrical data

Luminous flux	2200 lm
Luminous efficacy	105 lm/W
Color temperature	2700...6500 K
Light color (designation)	Tunable White
Color rendering index Ra	> 90
Standard deviation of color matching	3 sdcn
Low flicker	Yes
Flickering metric (Pst LM)	≤ 1
Stroboscope effect metric (SVM)	≤ 0.4
Photobiological safety group acc. to EN62778	RG1
Beam angle	60 °
UGR	< 19



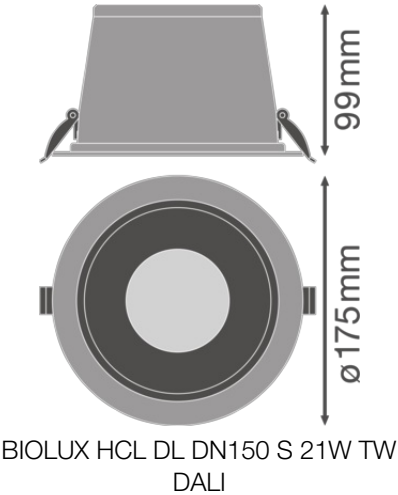
BIOLUX HCL DL DN150 S 21W TW DALI



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Dimensions & Weight

Diameter	175.00 mm
Height	99.00 mm
Product weight	650.00 g



Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9003
Body material	Aluminum
Cover material	Polycarbonate (PC)
Light emitting surface 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 (L, N, PE, DA+, DA-)
Type of protection	IP20
Protection class IK (shock resistance)	IK03
Dimmable	Yes
Type of dimming	DALI2
Dimming range	1...100 %
IoT ready	Support of DALI data type PART 251, 252, 253 ¹⁾
Mounting type	Recessed
Mounting location	Ceiling
Application environment	Indoor
Mounting diameter	160 mm
Mounting depth	125,0 mm
Adjustable	No
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	70000 h ¹⁾
Lifespan L80/B10 at 25 °C	40000 h ¹⁾
Lifespan L80/B50 at 25 °C	40000 h
Lifespan L90/B10 at 25 °C	25000 h
Number of switching cycles	50000

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	550 mA
ECG - Output ripple current	< 1 %
ECG - Length	215 mm
ECG - Width	92 mm
ECG - Height	25 mm

Certificates & Standards

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

Additional product data

Added function	VIVARES / BIOLUX
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EQUIPMENT / ACCESSORIES

- External control gear included
- Cable clamp for through wiring preinstalled

Upgrade and replacement components

Components Light Control		
Product image	Product name	EAN
	MANUAL CONTROL UNIT SELECT DALI-2	4058075837485
	MANUAL CONTROL UNIT SELECT DALI-2 TW	4058075837508
	MANUAL CONTROL UNIT SELECT DALI-2 EXCHANGEABLE COVER TW	4058075837522

Product image	Product name	EAN
	MANUAL CONTROL UNIT TOUCH DALI-2 TW	4058075837560
	MANUAL CONTROL UNIT TOUCH DALI-2	4058075837546
	PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075837584
	SURFACE MOUNT FRAME	4058075843561
	PUSHBUTTON COUPLER DALI-2	4058075837607
	FLEX CONTROL UNIT IOT DALI-2 HCL TW	4058075841888
	FLEX CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075841901
	FLEX CONTROL UNIT DALI-2 TW	4058075843844
	FLEX CONTROL UNIT REAL-TIME-CLOCK DALI-2 HCL TW	4058075841925
	SENSOR DALI-2 LIGHT/PRESENCE-6 INFRARED CEILING INTEGRATION	4058075837621
	SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION	4058075841949

Product image	Product name	EAN
	SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION	4058075843868
	SENSOR DALI-2 LIGHT/PRESENCE-24 INFRARED CEILING MOUNTING	4058075843882
	SENSOR CEILING MOUNTING KIT	4058075843905

DOWNLOAD DATA

Documents and certificates		Document name
	User instruction / safety instructions	UI BIOLUX HCL DL DN150 DALI
	Legal information	LISO Insert BIOLUX HCL DL DN150 DALI
	Legal information	Legal insert BIOLUX HCL DALI
	Legal information	Informationstext 18 Abs 4 ElektroG
	Declarations of conformity	BIOLUX HCL DL
	Declarations of conformity UKCA	BIOLUX HCL DL
	Certificates	BIOLUX HCL DL
	EU Data Act	DALI LED Driver and Luminaires
Photometric and lighting design files		Document name
	IES file (IES)	BIOLUX HCL DL DN150 S 21W TW DALI
	LDT file (Eulumdat)	BIOLUX HCL DL DN150 S 21W TW DALI

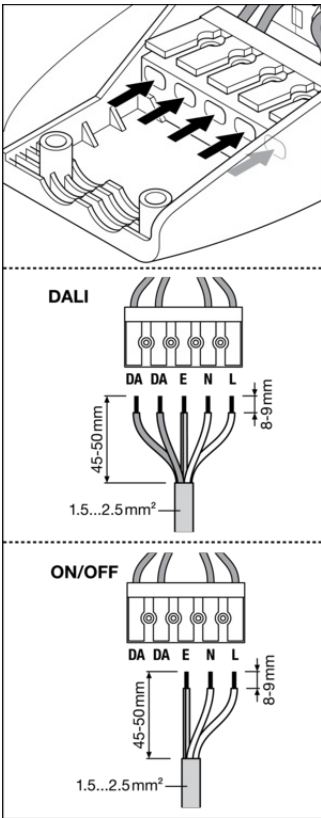
Photometric and lighting design files		Document name
	ULD file (DIALux)	BIOLUX HCL DL DN150 S 21W TW DALI
	ROLF file (RELUX)	BIOLUX HCL DL DALI DN150 S 21W TW
	UGR file (UGR table)	BIOLUX HCL DL DN150 S 21W TW DALI
	Light distribution curve type cone	BIOLUX HCL DL DN150 S 21W TW DALI
	Light distribution curve type polar	BIOLUX HCL DL DN150 S 21W TW DALI
	Spectral power distribution	BIOLUX HCL DL DN150 S 21W TW DALI
CAD/BIM files		Document name
	BIM Revit 3D	Biolux Tunable White Downlight
	CAD STEP 3D	HCL DL
Tender texts		Document name
	Tender documents	BIOLUX HCL DOWNLIGHT DALI DN150 S 21W TW DALI-EN

LOGISTICAL DATA

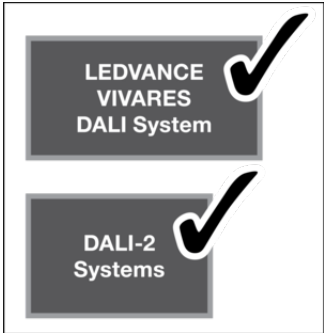
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854140310	Folding box 1	222 mm x 189 mm x 142 mm	901.00 g	5.96 dm³
4099854140327	Shipping box 4	398 mm x 235 mm x 321 mm	3969.00 g	30.02 dm³

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.

ADDITIONAL CATALOG INFORMATION



≤ 16 A	B10	B16	B25	B32	C10	C16	DALI	t _g
BIOLUX HCL DL DN150 S 21W TW DALI	14x	23x	35x	46x	23x	36x	OSRAM DTI DALI 35W 200...240V 145 NTC TW	+15°C



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.