

# PRODUCT DATASHEET

## BIOLUX HCL DL DN150 ZB 20W 2700-6500K

ZIGBEE BIOLUX HUMAN CENTRIC LIGHTING | Wireless light management system which is following the course of natural daylight by high-specified artificial light



### Areas of application

- Lighting solution for up to 40 BIOLUX HCL luminaires - BIOLUX HCL LED strips combined mit BIOLUX HCL control unit
- Open-plan office solution for up to 200 BIOLUX HCL luminaires combined with VIVARES ZIGBEE control unit
- Hotel and office rooms with little daylight

### Product benefits

- Enables an individual lighting solution in combination with compatible Zigbee HCL lighting controls
- Biologically optimized lighting by adapting artificial light to natural daylight course
- 5 years BIOLUX HCL system guarantee when operated as part of a BIOLUX HCL system (BIOLUX HCL- - VIVARES ZIGBEE control unit in combination with BIOLUX HCL luminaire(s) - BIOLUX HCL LED strips)
- Can support working with more concentration
- Good glare reduction ( $UGR \leq 19$ )

### Product features

- Zigbee 3.0 certified Tunable White luminaires - LED strips for simple integration into partner systems
- Ready for connection to BIOLUX HCL and VIVARES ZIGBEE control unit
- Adjustable color temperature via Tunable White: 2,700...6,500 K
- Wireless communication between control unit and luminaires via Zigbee protocol
- Very high color rendering index Ra:  $> 90$



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## TECHNICAL DATA

### Electrical data

Nominal wattage	20.00 W
Nominal voltage	220...240 V
Input voltage range	220...240 V
Type of current	AC
Nominal current	93 mA
Inrush current	20 A
Mains frequency	50...60 Hz
Total harmonic distortion	< 20 %
Power factor $\lambda$	$\geq 0.90$

### Photometrical data

Luminous efficacy	90 lm/W
Luminous flux	1800 lm
Luminous intensity	-
Color temperature	2700...6500 K
Color rendering index Ra	> 90
Light color (designation)	Warm White / Cool White / Cool Daylight
Standard deviation of color matching	$\leq 3$ sdc <sub>m</sub>
Flickering metric (Pst LM)	-
Stroboscope effect metric (SVM)	-

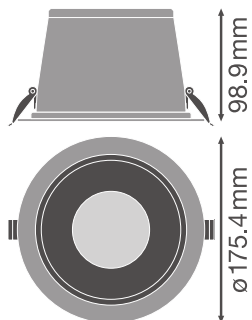
### Light technical data

Beam angle	60 °
Starting time	< 0.5 s

### Luminaire control gear data

Low flicker	Yes
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### Dimensions & Weight



Height	98.90 mm
Diameter	175.40 mm
Product weight	550.00 g

### Colors & materials

Product color	White
Body material	Aluminum
Cover material	Polycarbonate (PC)

### Temperatures & operating conditions

Ambient temperature range	-20...+40 °C
Temperature range in operation	-20...+40 °C

### Lifespan

Lifespan L70/B50 at 25 °C	50000 h <sup>1)</sup>
Number of switching cycles	50000

<sup>1)</sup> t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

### Additional product data

Mounting location	Ceiling
Low flicker	Yes


### Capabilities

Dimmable	Yes
Dimming interface	Zigbee 3.0
Suitable for emergency lighting	No

Certificates & Standards

Standards	CE / CB / ENEC / EAC
Protection class	II
Type of protection	IP20
ID of contained light source	AC36216

Accessories Optional

Product image	Product name	EAN
	CONNECTOR BOX 5POLE L/N 4x	4058075473010






EQUIPMENT / ACCESSORIES

















- LEDVANCE BIOLUX app required for commissioning of the BIOLUX HCL system only (available for Android and iOS)
- LEDVANCE VIVARES app for project planning and required for commissioning of the VIVARES ZIGBEE system only (available for Android and iOS)

Safety advice

- Important operating notice and legal disclaimer: This product is exclusively intended for operation as part of a BIOLUX HCL system (BIOLUX HCL- or VIVARES ZIGBEE control unit in combination with BIOLUX HCL-Luminaire(s) / BIOLUX HCL LED strips including built-in or supplied firmware/software). LEDVANCE GmbH assumes no responsibility, liability, warranty or guarantee for the operation of the product in combination or conjunction with third-party products or other products that are not BIOLUX HCL- / VIVARES ZIGBEE system products.

DOWNLOAD DATA

Documents and certificates	Document name
 User Instruction / Safety Instructions	BIOLUX HCL DL DN150 ZB
 Extended installation guide	BIOLUX HCL SYSTEM EN
 Extended installation guide	BIOLUX HCL SYSTEM DE
 Extended installation guide	BIOLUX HCL FR
 Legal information	BIOLUX HCL DL DN150 ZB

Documents and certificates		Document name
	Legal information	BIOLUX HCL DL
	Declarations of conformity	BIOLUX HCL
	Certificates	VDE BIOLUX HCL
	Certificates	VDE BIOLUX HCL
	Certificates	VDE BIOLUX HCL
Photometric and lighting design files		Document name
	IES file (IES)	BIOLUX HCL DL DN150 ZB 20W 6500K
	IES files (IES, additional)	BIOLUX HCL DL DN150 ZB 20W 2700K
	IES files (IES, additional)	BIOLUX HCL DL DN150 ZB 20W 4000K
	LDT file (Eulumdat)	BIOLUX HCL DL DN150 ZB 20W 6500K
	LDT files (Eulumdat, additional)	BIOLUX HCL DL DN150 ZB 20W 2700K
	LDT files (Eulumdat, additional)	BIOLUX HCL DL DN150 ZB 20W 4000K
	ULD file (DIALux)	BIOLUX HCL DL DN150 ZB 20W TW
	ROLF file (RELUX)	BIOLUX HCL DL DN150 ZB
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 ZIGBEE ZB 20W 2700-6500K-EN

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## LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075400733	Folding box 1	189 mm x 189 mm x 141 mm	674.00 g	5.04 dm <sup>3</sup>
4058075400740	Shipping box 4	397 mm x 207 mm x 308 mm	3175.00 g	25.31 dm <sup>3</sup>

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.

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## References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

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## Legal advice

– The use of the LEDVANCE BIOLUX- / VIVARES-app is exclusively subject to the LEDVANCE BIOLUX- - VIVARES-app Terms of Use, which are displayed during installation of the app and are available in the app

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## DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.