

# PRODUCT DATASHEET

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

BIOLUX HCL DOWNLIGHT ZIGBEE GEN 1 | Downlight luminaires, Tunable White, Zigbee



### 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
- 7 year system guarantee when operated in a BIOLUX HCL or VIVARES ZIGBEE system
- 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



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)      | -                                       |

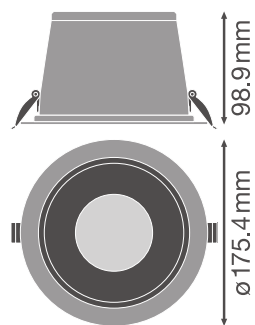
Light technical data

|               |         |
|---------------|---------|
| Beam angle    | 60 °    |
| Starting time | < 0.5 s |

Luminaire control gear data

|             |     |
|-------------|-----|
| Low flicker | Yes |
|-------------|-----|

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 |
| Number of switching cycles | 50000   |

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                 |

### 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 |
|  | Legal information                      | BIOLUX HCL DL          |
|  | Declarations of conformity             | BIOLUX HCL             |

| Documents and certificates                                                         |                                  | Document name                                    |
|------------------------------------------------------------------------------------|----------------------------------|--------------------------------------------------|
|    | 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 |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075400733 | Folding box<br>1             | 189 mm x 189 mm x 141 mm             | 674.00 g     | 5.04 dm <sup>3</sup>  |
| 4058075400740 | Shipping box<br>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.