

PRODUCT DATASHEET

BIOLUX HCL DL DN150 ZB 20W 2700-6500K

BIOLUX HCL DOWNLIGHT ZIGBEE | 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
- 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 luminaries via Zigbee protocol
- Very high color rendering index $R_a > 90$



TECHNICAL DATA

Electrical data

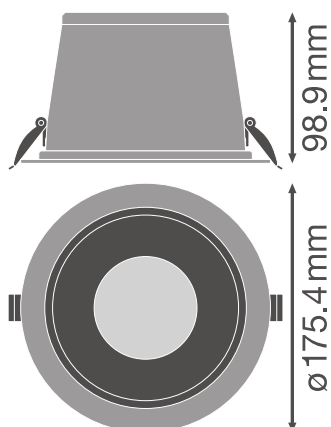
| | |
|--|---------------------|
| Nominal wattage | 20.00 W |
| Nominal voltage | 220...240 V |
| Mains frequency | 50...60 Hz |
| Nominal current | 93 mA |
| Inrush current | 20 A |
| Inrush current time T_{h50} | 500 μ s |
| Max. no. of lum. on circuit break. B16 A | 128 |
| Max. no. of lum. on circuit break. C10 A | 80 |
| Max. no. of lum. on circuit break. C16 A | 128 |
| Power factor λ | ≥ 0.90 |
| Total harmonic distortion | < 20 % |
| Protection class | II |
| Operating mode | External LED driver |

Photometrical data

| | |
|--|---|
| Luminous flux | 1800 lm |
| Luminous efficacy | 90 lm/W |
| Color temperature | 2700...6500 K |
| Light color (designation) | Warm White / Cool White / Cool Daylight |
| Color rendering index Ra | > 90 |
| Standard deviation of color matching | ≤ 3 sdc _m |
| Luminous intensity | - |
| Low flicker | Yes |
| Flickering metric (Pst LM) | - |
| Stroboscope effect metric (SVM) | - |
| Photobiological safety group acc. to EN62778 | RG1 |
| Beam angle | 60 ° |
| UGR | < 19 |

Dimensions & Weight

| | |
|----------------|-----------|
| Diameter | 175.40 mm |
| Height | 98.90 mm |
| Product weight | 550.00 g |



Materials & Colors

| | |
|--|--------------------|
| Product color | White |
| Housing color | White |
| Body material | Aluminum |
| Cover material | Polycarbonate (PC) |
| Light emitting surface material | PMMA |
| Glow Wire Test according to IEC 60695-2-12 | 850 °C |
| Mercury content | 0.0 mg |

Application & Mounting

| | |
|--|-----------------------------|
| Ambient temperature range | -20...+40 °C |
| Type of connection | Terminal, 3-Pole (L, N, PE) |
| Type of protection | IP20 |
| Protection class IK (shock resistance) | IK03 |
| Dimmable | Yes |
| Type of dimming | ZIGBEE |
| Mounting type | Recessed |
| Mounting location | Ceiling |
| Application environment | Indoor |
| Mounting depth | 150 mm |
| LED module replaceable | Not replaceable |
| With light source | Yes |

Lifespan

| | |
|----------------------------|---------|
| Lifespan L70/B50 at 25 °C | 50000 h |
| Lifespan L80/B10 at 25 °C | 40000 h |
| Lifespan L90/B10 at 25 °C | 25000 h |
| Number of switching cycles | 50000 |

Certificates & Standards

| | |
|--|----------------------|
| Standards | CE / CB / ENEC / EAC |
| Luminaire with limited surface temperature, "D sign" | No |
| Ball shot safe | No |







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 | |
|--|-------------------------------|
|  | User instruction |
|  | Addon Technical Information |
|  | Installation guide |
|  | Packaging insert |
|  | Declarations Of Conformity CE |
|  | Certificates |

| Photometric and lighting design files | |
|---|----------------------------------|
|  | IES file (IES) |
|  | IES files (IES, additional) |
|  | LDT file (Eulumdat) |
|  | LDT files (Eulumdat, additional) |
|  | ULD file (DIALux) |
|  | ROLF file (RELUX) |
| CAD/BIM files | |
|  | BIM_Revit_3D |
|  | CAD_STEP_3D |
| Tender texts | |
|  | Tender documents |

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 ³ |
| 4058075400740 | Shipping box 4 | 397 mm x 207 mm x 308 mm | 3175.00 g | 25.31 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

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

DISCLAIMER

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