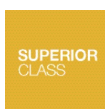
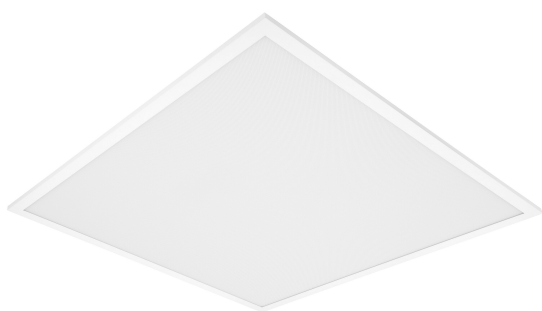


# PRODUCT DATASHEET

## BIOLUX HCL PL 625 S 40W TW ZB

BIOLUX HCL PANEL ZIGBEE GEN 2 | Recessed panel luminaires, Tunable White, 110 lm/W, tool-free installation, Zigbee 3.0



### Areas of application

- Available for grid sizes of 600 x 600 mm, 625 x 625 mm and 1200 x 300 mm
- BIOLUX HCL system: Lighting solution for single office areas with up to 48 BIOLUX HCL products
- VIVARES Zigbee system: Open-plan office solution for up to 200 BIOLUX HCL products
- Hotel and office rooms with little daylight
- Nursery and elderly homes

### Product benefits

- Suitable luminaire for BIOLUX, VIVARES and other Zigbee 3.0 light management systems for simple integration into partner systems
- Compatible with VIVARES cloud services
- Through-wiring possible with included connector box
- Good glare reduction ( $UGR \leq 19$ )
- Low flicker light thanks to special electronic control gear
- 7 year system guarantee when operated in a BIOLUX HCL or VIVARES ZIGBEE system

### Product features

- Adjustable color temperature via Tunable White: 2,700...6,500 K
- Very high color rendering index Ra: > 90
- Initial color consistency: 3 SDCM
- High luminous efficacy: up to 110 lm/W



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## TECHNICAL DATA

### Electrical data

|                           |             |
|---------------------------|-------------|
| Nominal wattage           | 40.00 W     |
| Nominal voltage           | 220...240 V |
| Type of current           | AC          |
| Nominal current           | 190.000 mA  |
| Inrush current            | 8.8 A       |
| Mains frequency           | 50...60 Hz  |
| Total harmonic distortion | < 20 %      |
| Power factor $\lambda$    | > 0.90      |

### Photometrical data

|                                      |               |
|--------------------------------------|---------------|
| Luminous efficacy                    | 110 lm/W      |
| Luminous flux                        | 4400 lm       |
| Color temperature                    | 2700...6500 K |
| Color rendering index Ra             | ≥90           |
| Light color (designation)            | Tunable White |
| Standard deviation of color matching | 3 sdcn        |
| Flickering metric (Pst LM)           | ≤1            |
| Stroboscope effect metric (SVM)      | ≤ 0.4         |

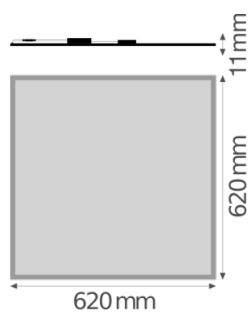
### Light technical data

|               |         |
|---------------|---------|
| Beam angle    | 90 °    |
| Starting time | < 0.5 s |

### Luminaire control gear data

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

### Dimensions & Weight



|                |           |
|----------------|-----------|
| Length         | 620.00 mm |
| Width          | 620.00 mm |
| Height         | 11.00 mm  |
| Product weight | 3350.00 g |

Colors & materials

|                |                               |
|----------------|-------------------------------|
| Product color  | White                         |
| Body material  | Aluminum                      |
| Cover material | Polymethylmethacrylate (PMMA) |

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              |
| Added function    | VIVARES / BIOLUX |

Capabilities

|                   |                  |
|-------------------|------------------|
| Dimmable          | Yes              |
| Dimming interface | Zigbee 3.0 / IoT |
| Dimming range     | 0...100 %        |

|                                 |    |
|---------------------------------|----|
| Suitable for emergency lighting | No |
|---------------------------------|----|

Certificates & Standards

|                    |                             |
|--------------------|-----------------------------|
| Standards          | CE / CB / ENEC / UKCA / EAC |
| Protection class   | II                          |
| Type of protection | IP20/IP20                   |

LOGISTICAL DATA

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -20...+80 °C |
|------------------------------|--------------|

Accessories Optional

| Product image                                                                       | Product name                        | EAN           |
|-------------------------------------------------------------------------------------|-------------------------------------|---------------|
|    | PANEL 625 SURFACE MOUNT KIT H70 VAL | 4058075402867 |
|    | PANEL 625 RECESSED MOUNT FRAME      | 4058075402904 |
|  | PANEL Suspension Kit                | 4058075402928 |
|  | PANEL RECESSED MOUNT CLIPS VAL 4x   | 4058075409859 |
|  | PANEL 625 SURFACE MOUNT KIT H75     | 4058075472938 |
|  | PANEL 625 SURFACE MOUNT KIT H50     | 4058075826403 |

| Product image                                                                      | Product name                 | EAN           |
|------------------------------------------------------------------------------------|------------------------------|---------------|
|    | PANEL SECURITY KIT 4x        | 4058075472990 |
|    | BIOLUX HCL CONTROL UNIT S ZB | 4058075724624 |
|    | ZIGBEE 3.0 DALI CONV LI      | 4062172044776 |
|    | VIVARES ZB O SENS 220-240    | 4058075544222 |
|    | VIVARES ZB CONTROL           | 4058075427488 |
|  | VIVARES ZB COUPLER           | 4058075463806 |
|  | VIVARES ZB L/O SENS 220-240  | 4058075446182 |

## EQUIPMENT / ACCESSORIES

- Connector box with 5-pole terminal included
- External control gear included
- 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)
- Accessories for several mounting options available

## Safety advice

- Important operating notice and legal disclaimer: This product is 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 CONTROL UNIT                        |
|    | User instruction / safety instructions | BIOLUX HCL PL 600/625 S 40W TW ZB              |
|    | Legal information                      | BIOLUX HCL                                     |
|    | Legal information                      | BIOLUX HCL PL 600/625 S 40W TW ZB              |
|    | Legal information                      | Informationstext 18 Abs 4 ElektroG             |
|    | Declarations of conformity             | Biolux HCL Panel                               |
|    | Declarations of conformity             | Biolx HCL Panel Declaration of conformity UKCA |
|   | Declarations of conformity UKCA        | BIOLUX HCL PL TW ZB                            |
| Photometric and lighting design files                                              |                                        | Document name                                  |
|  | IES file (IES)                         | BIOLUX HCL PL 625 S 40W TW ZB                  |
|  | LDT file (Eulumdat)                    | BIOLUX HCL PL 625 S 40W TW ZB                  |
|  | ULD file (DIALux)                      | BIOLUX HCL PL 625                              |
|  | ROLF file (RELUX)                      | BIOLUX HCL PL 625 S                            |
|  | UGR file (UGR table)                   | BIOLUX HCL PL 625 S 40W TW ZB                  |
|  | Light distribution curve type cone     | BIOLUX HCL PL 625 S 40W TW ZB                  |
|  | Light distribution curve type polar    | BIOLUX HCL PL 625 S 40W TW ZB                  |
| CAD/BIM files                                                                      |                                        | Document name                                  |
|  | BIM Revit 3D                           | Biolux Tunable White Panel G2                  |
|  | CAD STEP 3D                            | HCL PL 625                                     |

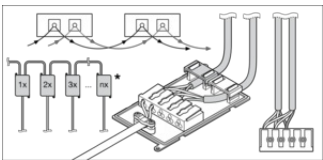
| Tender texts                                                                                       | Document name                                    |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------|
|  Tender documents | BIOLUX HCL PANEL ZIGBEE GEN 2 625 S 40W TW ZB-EN |

LOGISTICAL DATA

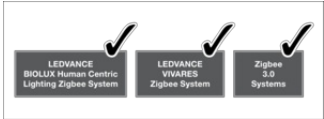
| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume    |
|---------------|------------------------------|--------------------------------------|--------------|-----------|
| 4058075724563 | Folding box<br>1             | 723 mm x 51 mm x 676 mm              | 3976.00 g    | 24.93 dm³ |
| 4058075724570 | Shipping box<br>2            | 743 mm x 123 mm x 698 mm             | 8838.00 g    | 63.79 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



|       |      |      |      |      |
|-------|------|------|------|------|
| 1x    | 2x   | 3x   | ...  | nx   |
| B25   | B16  | B10  | C16  | C10  |
| n=114 | n=74 | n=46 | n=74 | n=46 |



ACCESSORIES

- SURFACE MOUNT KIT
- SURFACE MOUNT KIT VALUE
- SUSPENSION KIT
- RECESSED MOUNT FRAME
- RECESSED MOUNT CLIPS
- SECURITY BRACKETS
- SECURITY KIT



References / Links

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