

# PRODUCT DATASHEET

## BIOLUX HCL PL 600 S 40W TW DALI

BIOLUX HCL PANEL DALI GEN 2 | Recessed panel luminaires, Tunable White, 115 lm/W, tool-free installation, DALI-2 IoT technology



### Areas of application

- Direct replacement for luminaires with fluorescent lamps
- Offices, conference rooms
- Reception areas, foyers and corridors
- Available for grid size of 600 mm x 600 mm, 625 mm x 625 mm and 1200 x 300 mm

### 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 < 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
- High quality extruded aluminum frame



- Version available with pre-mounted Wago-connector (Item No: WAGO 771-9985/206-301) for Panel 625 CSW
- Suitable for central battery emergency installations acc. to EN 60598-2-22

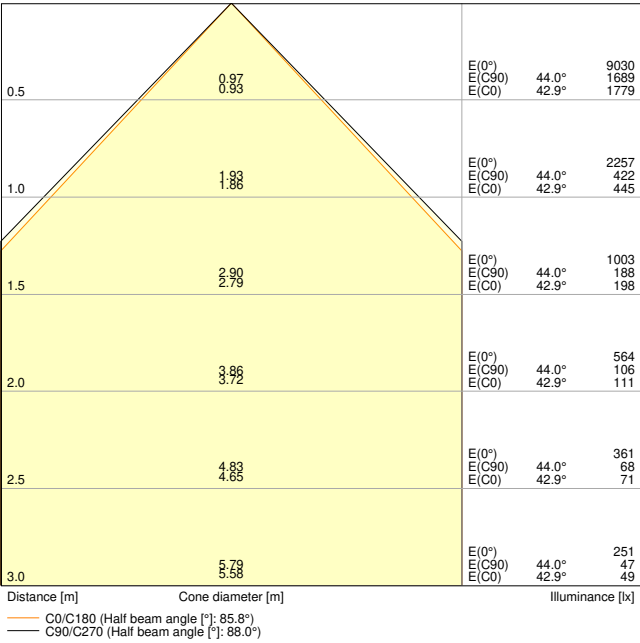
## TECHNICAL DATA

### Electrical data

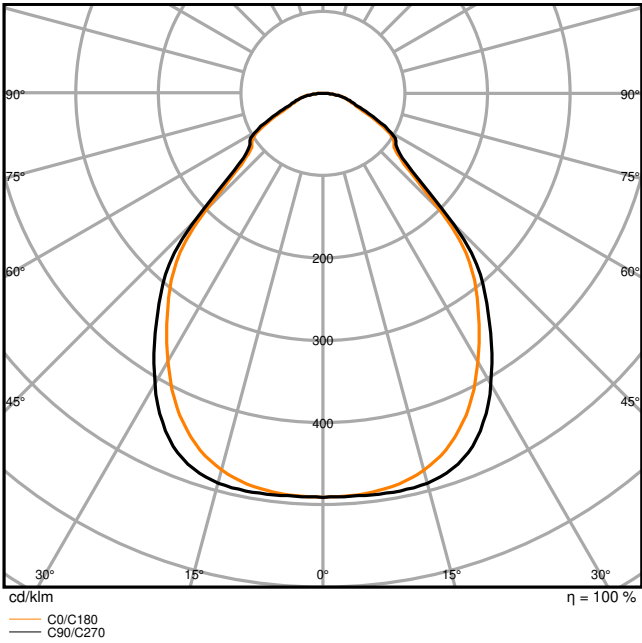
|                                                             |                     |
|-------------------------------------------------------------|---------------------|
| Nominal wattage                                             | 40.00 W             |
| Nominal voltage                                             | 220...240 V         |
| Mains frequency                                             | 0/50/60 Hz          |
| Nominal current                                             | 190.000 mA          |
| Inrush current                                              | 27 A                |
| Inrush current time $T_{h50}$                               | 205 $\mu$ 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 $\lambda$                                      | > 0.90              |
| Total harmonic distortion                                   | < 20 %              |
| Protection class                                            | II                  |
| Operating mode                                              | External LED driver |
| Dimming interface                                           | DALI-2 / IoT        |

### Photometrical data

|                                              |               |
|----------------------------------------------|---------------|
| Luminous flux                                | 4600 lm       |
| Luminous efficacy                            | 115 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)                   | $\leq 1$      |
| Stroboscope effect metric (SVM)              | $\leq 0.4$    |
| Photobiological safety group acc. to EN62778 | RG0           |
| Beam angle                                   | 90 °          |
| UGR                                          | < 19          |



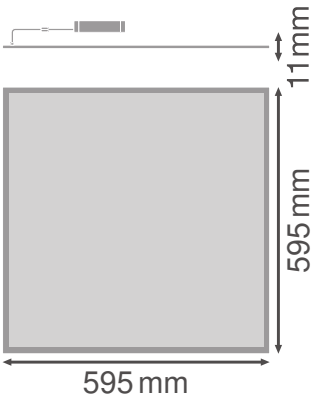
BIOLUX HCL PL 600 S 40W TW DALI



BIOLUX HCL PL 600 S 40W TW DALI

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 595.00 mm |
| Width          | 595.00 mm |
| Height         | 11.00 mm  |
| Product weight | 3300.00 g |



BIOLUX HCL PL 600 ZB 43W

## Materials & Colors

|                                            |                               |
|--------------------------------------------|-------------------------------|
| Product color                              | White                         |
| Housing color                              | White                         |
| Body material                              | Aluminum                      |
| Cover material                             | Polymethylmethacrylate (PMMA) |
| Light emitting surface material            | PMMA                          |
| 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/IP20                                       |
| Protection class IK (shock resistance) | IK02                                            |
| Dimmable                               | Yes                                             |
| Type of dimming                        | DALI2                                           |
| Dimming range                          | 1...100 %                                       |
| Mounting type                          | Recessed                                        |
| Mounting location                      | Ceiling / Wall                                  |
| Application environment                | Indoor                                          |
| Mounting length                        | 575 mm                                          |
| Mounting width                         | 575 mm                                          |
| Mounting depth                         | 50,0 mm                                         |
| Adjustable                             | No                                              |
| With light source                      | Yes                                             |

## Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 70000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 40000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 40000 h               |
| Lifespan L90/B10 at 25 °C  | 25000 h               |
| 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)

## Control gear

|                             |         |
|-----------------------------|---------|
| Output current              | 1100 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 |
|----------------|------------------|

Accessories Optional

| Product image                                                                       | Product name                        | EAN           |
|-------------------------------------------------------------------------------------|-------------------------------------|---------------|
|  | PANEL 600 SURFACE MOUNT KIT H75     | 4058075472914 |
|  | PANEL RECESSED MOUNT CLIPS VAL 4x   | 4058075409859 |
|  | PANEL 600 SURFACE MOUNT KIT H70 VAL | 4058075402843 |
|   | PANEL 600 RECESSED MOUNT FRAME      | 4058075402881 |
|  | PANEL Suspension Kit                | 4058075402928 |

| Product image                                                                     | Product name                    | EAN           |
|-----------------------------------------------------------------------------------|---------------------------------|---------------|
|  | PANEL 600 SURFACE MOUNT KIT H50 | 4058075826397 |
|   | PANEL SECURITY KIT 4x           | 4058075472990 |

## EQUIPMENT / ACCESSORIES

- Accessories for several mounting options available
- External control gear included
- Security kit (security wire and brackets) included
- Cable clamp for through wiring preinstalled

## DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                      |
|------------------------------------------------------------------------------------|----------------------------------------|------------------------------------|
|  | User instruction / safety instructions | UI BIOLUX HCL PL DALI              |
|  | Legal information                      | LISO Insert BIOLUX HCL PL DALI     |
|  | Legal information                      | Legal insert BIOLUX HCL DALI       |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG |
|  | Declarations of conformity             | BIOLUX HCL PL                      |
|  | Declarations of conformity UKCA        | BIOLUX HCL PL                      |
|  | Certificates                           | BIOLUX HCL PL                      |
| Photometric and lighting design files                                              |                                        | Document name                      |
|  | IES file (IES)                         | BIOLUX HCL PL 600 S 40W TW DALI    |
|  | LDT file (Eulumdat)                    | BIOLUX HCL PL 600 S 40W TW DALI    |

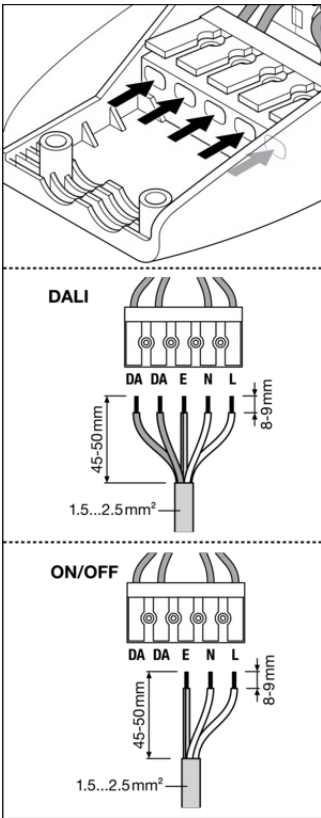
| Photometric and lighting design files                                              |                                     | Document name                                    |
|------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------------------|
|    | ULD file (DIALux)                   | BIOLUX HCL PL 600 S 40W TW DALI                  |
|    | ROLF file (RELUX)                   | BIOLUX HCL PL DALI GEN2 600 S 40W TW             |
|    | UGR file (UGR table)                | BIOLUX HCL PL 600 S 40W TW DALI                  |
|    | Light distribution curve type cone  | BIOLUX HCL PL 600 S 40W TW DALI                  |
|    | Light distribution curve type polar | BIOLUX HCL PL 600 S 40W TW DALI                  |
|    | Spectral power distribution         | BIOLUX HCL PL S 40W TW DALI                      |
| CAD/BIM files                                                                      |                                     | Document name                                    |
|    | BIM Revit 3D                        | Biolux Tunable White Panel G2                    |
|    | CAD STEP 3D                         | HCL PL 600                                       |
| Tender texts                                                                       |                                     | Document name                                    |
|  | Tender documents                    | BIOLUX HCL PANEL DALI GEN 2 600 S 40W TW DALI-EN |

## LOGISTICAL DATA

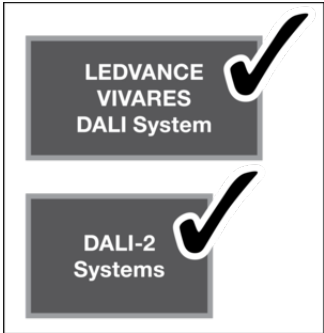
| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854140068 | Folding box<br>1             | 698 mm x 51 mm x 651 mm              | 3772.00 g    | 23.17 dm <sup>3</sup> |
| 4099854140075 | Shipping box<br>2            | 718 mm x 123 mm x 672 mm             | 8384.00 g    | 59.35 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.

## ADDITIONAL CATALOG INFORMATION



| ≤ 16 A                          | B10 | B16 | B25 | B32 | C10 | C16 | DALI         | t <sub>90</sub> |
|---------------------------------|-----|-----|-----|-----|-----|-----|--------------|-----------------|
| BIOLUX HCL PL 600 S 40W TW DALI | 14x | 23x | 35x | 46x | 23x | 36x | CSRAM        | < 75°C          |
| BIOLUX HCL PL 600 S 40W TW DALI | 14x | 23x | 35x | 46x | 23x | 36x | QTI DALI 800 | < 75°C          |
| BIOLUX HCL PL 600 S 40W TW DALI | 14x | 23x | 35x | 46x | 23x | 36x | 14x NFC TW   | < 75°C          |

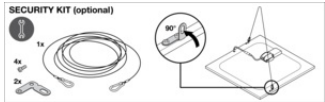


**ACCESSORIES**

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

**(D)** **(GB)**

Two QR codes are provided, one for the German (D) version and one for the Great Britain (GB) version, linking to the accessory information.



References / Links

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

DISCLAIMER

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