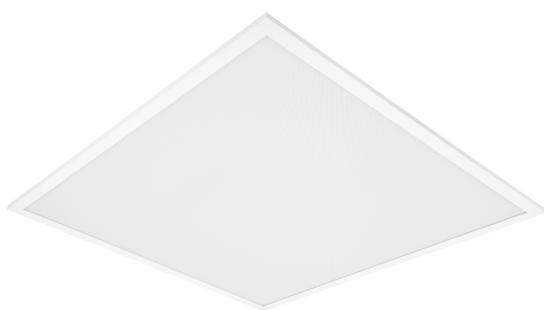


# PRODUCT DATASHEET

## BIOLUX HCL PL 600 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



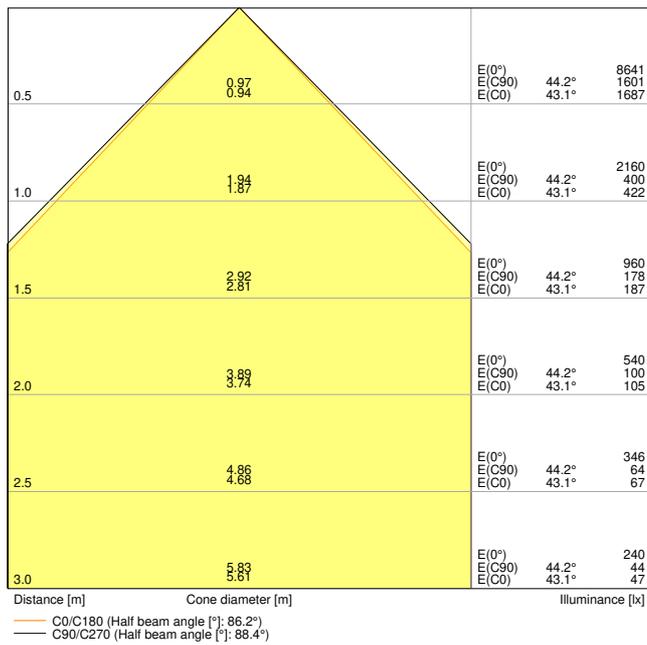
## TECHNICAL DATA

### Electrical data

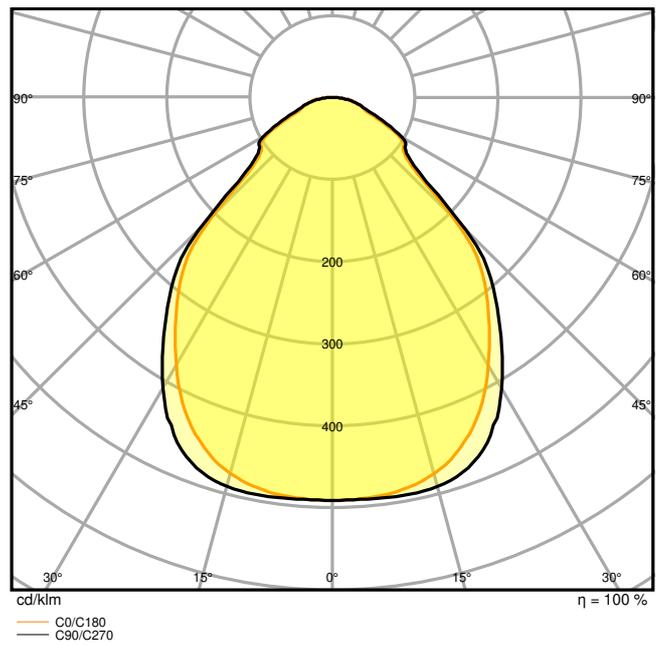
Nominal wattage	40.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	190.000 mA
Inrush current	8.8 A
Inrush current time $T_{h50}$	88 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	74
Max. number of luminaires per miniature circuit breaker C10	46
Max. number of luminaires per miniature circuit breaker C16	74
Power factor $\lambda$	> 0.90
Total harmonic distortion	< 20 %
Protection class	II
Operating mode	External LED driver
Dimming interface	Zigbee 3.0 / IoT

### Photometrical data

Luminous flux	4400 lm
Luminous efficacy	110 lm/W
Color temperature	2700...6500 K
Light color (designation)	Tunable White
Color rendering index Ra	$\geq 90$
Standard deviation of color matching	3 sdc <sub>m</sub>
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



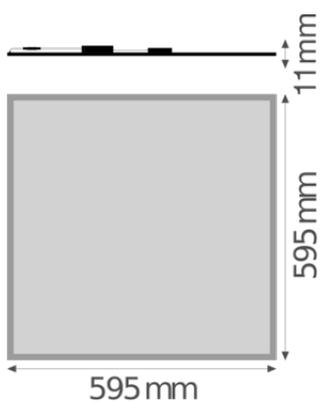
BIOLUX HCL PL 600 S 40W TW ZB



BIOLUX HCL PL 600 S 40W TW ZB

Dimensions & Weight

Length	595.00 mm
Width	595.00 mm
Height	11.00 mm
Product weight	3110.00 g



BIOLUX HCL PANEL

## Materials & Colors

Product color	White
Housing color	White
RAL Color (most similar)	RAL 9016
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	ZIGBEE
Dimming range	0...100 %
IoT ready	Support of DALI data type PART 251, 252, 253 <sup>1)</sup>
Mounting type	Recessed
Mounting location	Ceiling
Application environment	Indoor
Mounting length	575 mm
Mounting width	575 mm
Mounting depth	50,0 mm
Adjustable	No
With light source	Yes

1) Internet of Things. Supports data transfer via gateway to cloud-based monitoring platforms, such as LEDVANCE VIVARES Cloud

## Lifespan

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

Control gear

Output current	1100 mA
ECG - Output ripple current	< 20 %
ECG - Length	160 mm
ECG - Width	70,0 mm
ECG - Height	35 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
	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

## Upgrade and replacement components

Components Light Control

Product image	Product name	EAN
	MANUAL CONTROL UNIT SELECT DIRECT 100-240 TW RGB ZB	4099854476334
	SENSOR DIRECT LS-PD-7 IR CI ZB	4099854476358
	VIVARES ZB CONTROL	4058075427488
	VIVARES ZB L/O SENS 220-240	4058075446182
	VIVARES ZB O SENS 220-240	4058075544222
	VIVARES ZB COUPLER	4058075463806
	VIVARES ZB SENS ADAPTER	4058075650107

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

Documents and certificates		Document name
	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
	EU Data Act	SMART ZigBee Lamps and Luminaires

Photometric and lighting design files		Document name
	IES file (IES)	BIOLUX HCL PL 600 S 40W TW ZB
	LDT file (Eulumdat)	BIOLUX HCL PL 600 S 40W TW ZB
	ULD file (DIALux)	BIOLUX HCL PL 600
	ROLF file (RELUX)	BIOLUX HCL PL 600 S
	UGR file (UGR table)	BIOLUX HCL PL 600 S 40W TW ZB
	Light distribution curve type cone	BIOLUX HCL PL 600 S 40W TW ZB
	Light distribution curve type polar	BIOLUX HCL PL 600 S 40W TW ZB

CAD/BIM files		Document name
	BIM Revit 3D	Biolux Tunable White Panel G2
	CAD STEP 3D	HCL PL 600

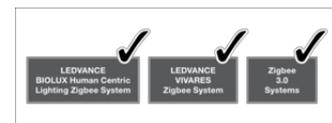
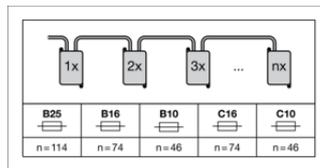
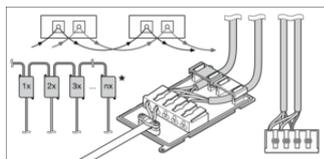
Tender texts	Document name
 Tender documents	BIOLUX HCL PANEL ZIGBEE GEN 2 600 S 40W TW ZB-EN

**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075724549	Folding box 1	698 mm x 51 mm x 651 mm	3582.00 g	23.17 dm <sup>3</sup>
4058075724556	Shipping box 2	718 mm x 123 mm x 672 mm	8004.00 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**



**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.