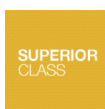


# PRODUCT DATASHEET

## BIOLUX HCL PL 1200 S 37W 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
- 5 years BIOLUX HCL system guarantee when operated as part of a BIOLUX HCL 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



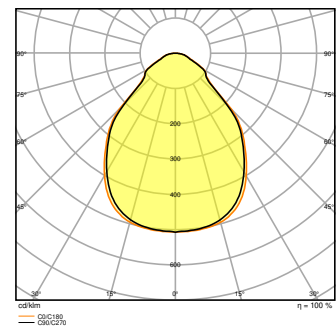
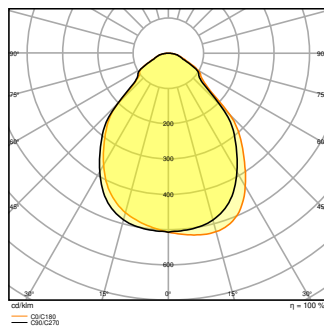
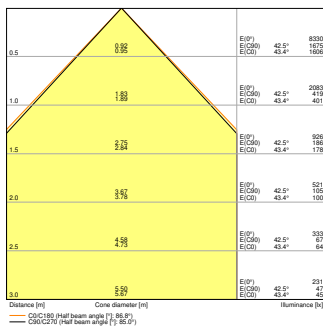
## TECHNICAL DATA

### Electrical data

Nominal wattage	37.00 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

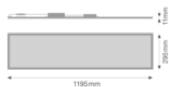
### Photometrical data

Luminous flux	4100 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



### Dimensions & Weight

Length	1195.00 mm
Width	295.00 mm
Height	11.00 mm
Product weight	3220.00 g



### 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	ZIGBEE
Dimming range	0...100 %
Mounting type	Recessed
Mounting location	Ceiling
Application environment	Indoor
Mounting length	1190 mm
Mounting width	290,0 mm
Mounting depth	50,0 mm
Adjustable	No
LED module replaceable	Not replaceable
With light source	Yes

### Lifespan

Lifespan L70/B50 at 25 °C	50000 h <sup>1)</sup>
Lifespan L80/B10 at 25 °C	40000 h <sup>1)</sup>
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	< 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

### Accessories Optional

Product image	Product name	EAN
	PANEL 1200x300 RECESSED MOUNT FRAME	4058075472976
	PANEL 1200 Surface Mount Kit	4058075108820
	PANEL RECESSED MOUNT CLIPS VAL 4x	4058075409859
	PANEL Suspension Kit	4058075402928
	PANEL 1200 X 300 SF MOUNT KIT H70 VAL	4099854018497
	PANEL SECURITY KIT 4x	4058075472990

## 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**

User instruction



Addon Technical Information



Packaging insert



Declarations Of Conformity CE



Declarations Of Conformity UKCA

**Photometric and lighting design files**

IES file (IES)



LDT file (Eulumdat)



ULD file (DIALux)



ROLF file (RELUX)



UGR file (UGR table)



LDC typ cone



LDC typ polar

**CAD/BIM files**

BIM\_Revit\_3D



CAD\_STEP\_3D

**Tender texts**

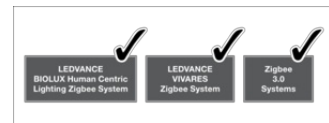
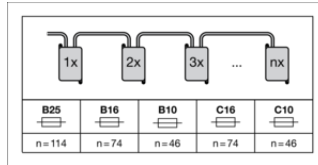
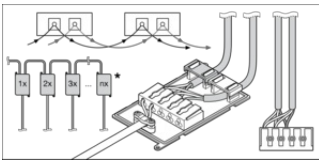
Tender documents

**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075724587	Folding box 1	1,308 mm x 51 mm x 374 mm	3816.00 g	24.95 dm <sup>3</sup>
4058075724594	Shipping box 2	1,328 mm x 123 mm x 397 mm	8582.00 g	64.85 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.