

PRODUCT DATASHEET

BIOLUX HCL PL 600 S 40W TW ZB

ZIGBEE BIOLUX HUMAN CENTRIC LIGHTING | Wireless light management system which is following the course of natural daylight by high-specified artificial light



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
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 λ	> 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

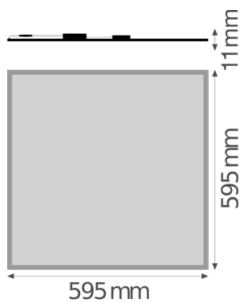
Light technical data

Beam angle	90 °
Starting time	< 0.5 s

Luminaire control gear data

Low flicker	Yes
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Dimensions & Weight



Length	595.00 mm
Width	595.00 mm
Height	11.00 mm
Product weight	3110.00 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
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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
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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
	PANEL 600 SURFACE MOUNT KIT H50	4058075826397

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
	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

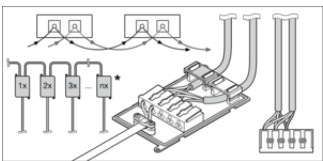
CAD/BIM files		Document name
	CAD STEP 3D	HCL PL 600
Tender texts		Document name
	Tender documents	BIOLUX HCL PANEL ZIGBEE GEN 2 600 S 40W TW ZB-EN

LOGISTICAL DATA

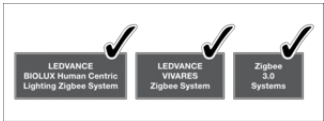
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075724549	Folding box 1	698 mm x 51 mm x 651 mm	3582.00 g	23.17 dm³
4058075724556	Shipping box 2	718 mm x 123 mm x 672 mm	8004.00 g	59.35 dm³

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

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.