

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



SUPERIOR
CLASS

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

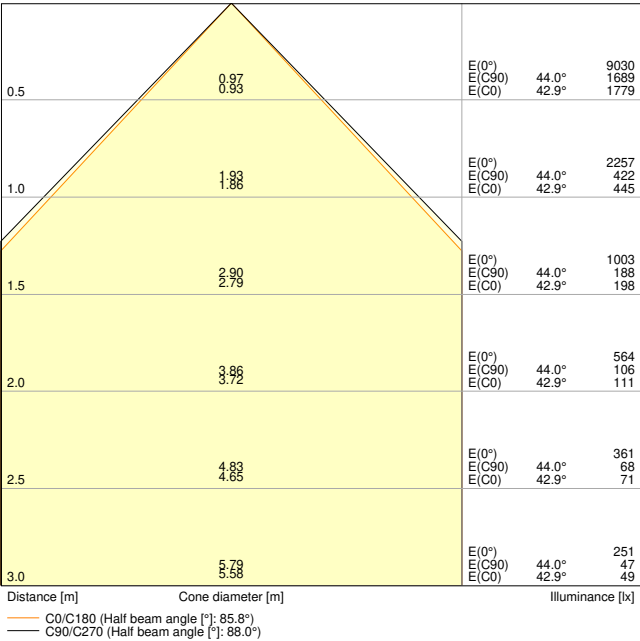
TECHNICAL DATA

Electrical data

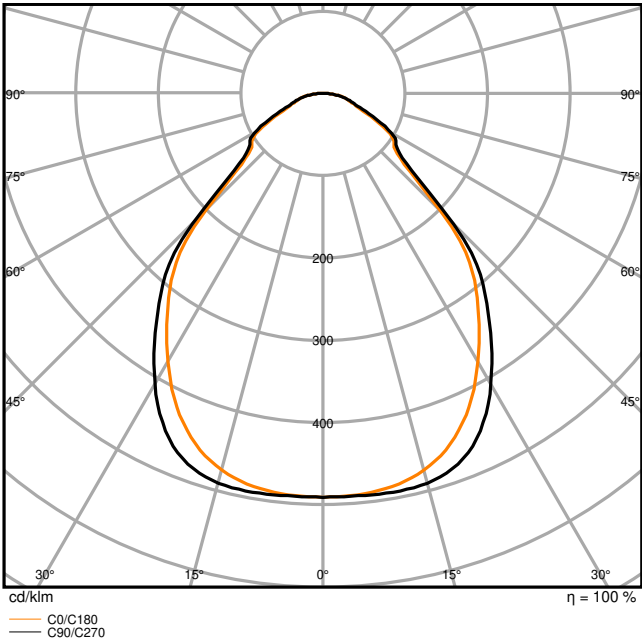
Nominal wattage	40.00 W
Nominal voltage	220...240 V
Mains frequency	0/50/60 Hz
Nominal current	190.000 mA
Inrush current	27 A
Inrush current time T_{h50}	205 μ s
Max. number of luminaires per miniature circuit breaker B16	23
Max. number of luminaires per miniature circuit breaker C10	23
Max. number of luminaires per miniature circuit breaker C16	36
Power factor λ	> 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)	≤ 1
Stroboscope effect metric (SVM)	≤ 0.4
Photobiological safety group acc. to EN62778	RG0
Beam angle	90 °
UGR	< 19



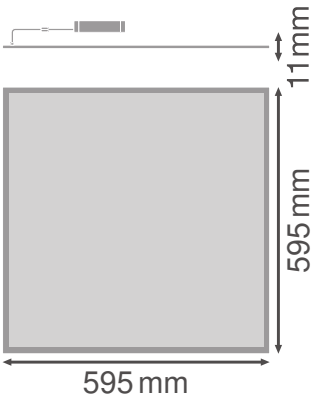
BIOLUX HCL PL 600 S 40W TW DALI



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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
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	DALI2
Dimming range	1...100 %
IoT ready	Support of DALI data type PART 251, 252, 253 ¹⁾
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
Replaceable light source	No

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	70000 h ¹⁾
Lifespan L80/B10 at 25 °C	40000 h ¹⁾
Lifespan L80/B50 at 25 °C	40000 h
Lifespan L90/B10 at 25 °C	25000 h

Number of switching cycles	50000
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1) 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
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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

Product image	Product name	EAN
	PANEL Suspension Kit	4058075402928
	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

Upgrade and replacement components

Components Light Control		
Product image	Product name	EAN
	MANUAL CONTROL UNIT SELECT DALI-2	4058075837485
	MANUAL CONTROL UNIT SELECT DALI-2 TW	4058075837508
	MANUAL CONTROL UNIT SELECT DALI-2 EXCHANGEABLE COVER TW	4058075837522
	MANUAL CONTROL UNIT TOUCH DALI-2 TW	4058075837560

Product image	Product name	EAN
	MANUAL CONTROL UNIT TOUCH DALI-2	4058075837546
	PUSH CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075837584
	SURFACE MOUNT FRAME	4058075843561
	PUSHBUTTON COUPLER DALI-2	4058075837607
	FLEX CONTROL UNIT IOT DALI-2 HCL TW	4058075841888
	FLEX CONTROL UNIT FLUSH MOUNT DALI-2 TW	4058075841901
	FLEX CONTROL UNIT DALI-2 TW	4058075843844
	FLEX CONTROL UNIT REAL-TIME-CLOCK DALI-2 HCL TW	4058075841925
	SENSOR DALI-2 LIGHT/PRESENCE-6 INFRARED CEILING INTEGRATION	4058075837621
	SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION	4058075841949
	SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION	4058075843868

Product image	Product name	EAN
	SENSOR DALI-2 LIGHT/PRESENCE-24 INFRARED CEILING MOUNTING	4058075843882
	SENSOR CEILING MOUNTING KIT	4058075843905

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
 EU Data Act	DALI LED Driver and Luminaires

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
 ULD file (DIALux)	BIOLUX HCL PL 600 S 40W TW DALI
 ROLF file (RELUX)	BIOLUX HCL PL DALI GEN2 600 S 40W TW

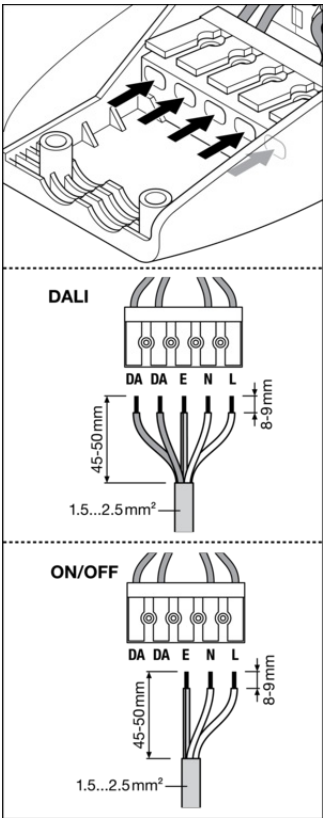
Photometric and lighting design files		Document name
	UGR file (UGR table)	BIOLUX HCL PL 600 S 40W TW DALI
	Light distribution curve type cone	BIOLUX HCL PL 600 S 40W TW DALI
	Light distribution curve type polar	BIOLUX HCL PL 600 S 40W TW DALI
	Spectral power distribution	BIOLUX HCL PL S 40W TW DALI
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

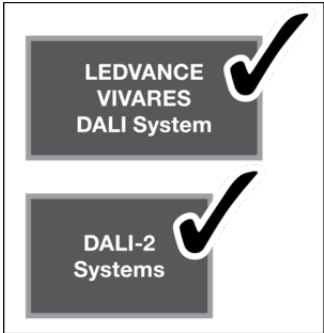
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4099854140068	Folding box 1	698 mm x 51 mm x 651 mm	3772.00 g	23.17 dm ³
4099854140075	Shipping box 2	718 mm x 123 mm x 672 mm	8384.00 g	59.35 dm ³

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 ₉₀
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

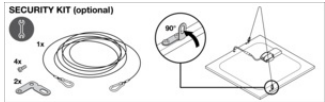


ACCESSORIES

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

D **GB**

Two QR codes are shown, one for the 'D' (Germany) version and one for the 'GB' (Great Britain) version.



References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

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