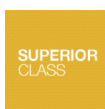


PRODUCT DATASHEET

BIOLUX HCL PL 1200 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
- Broad Tunable White CRI90 light color spectrum for high quality Human Centric Lighting applications
- Offices, conference rooms
- Reception areas, foyers, corridors, elevators
- 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
- Supports LEDVANCE Human Centric Lighting in conjunction with DALI PRO 2 IOT LDVV Controller (4052899627079)
- Compatible with VIVARES CLOUD SERVICE for energy monitoring
- Through-wiring possible with included cable clamp
- Energy savings thanks to high system efficacy: up to 115 lm/W
- External DALI-2 driver for extended flexibility and easy installation
- Low flicker light thanks to special electronic control gear
- Good glare reduction (UGR < 19)
- 5 years guarantee

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

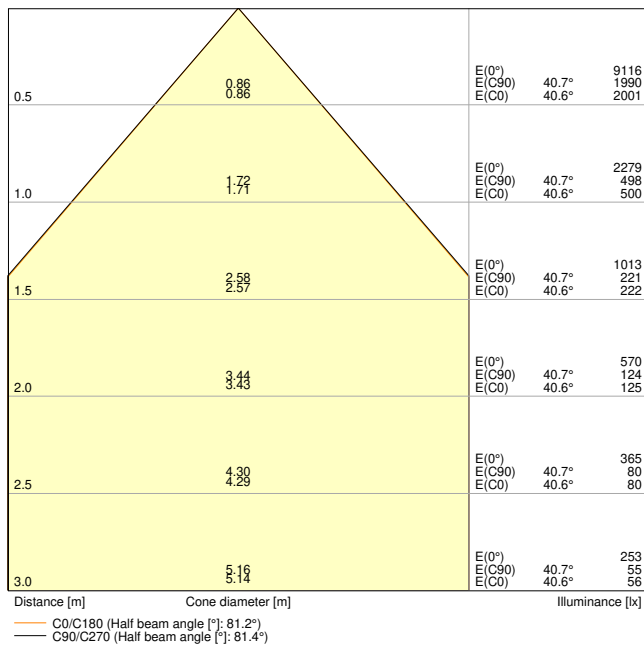
TECHNICAL DATA

Electrical data

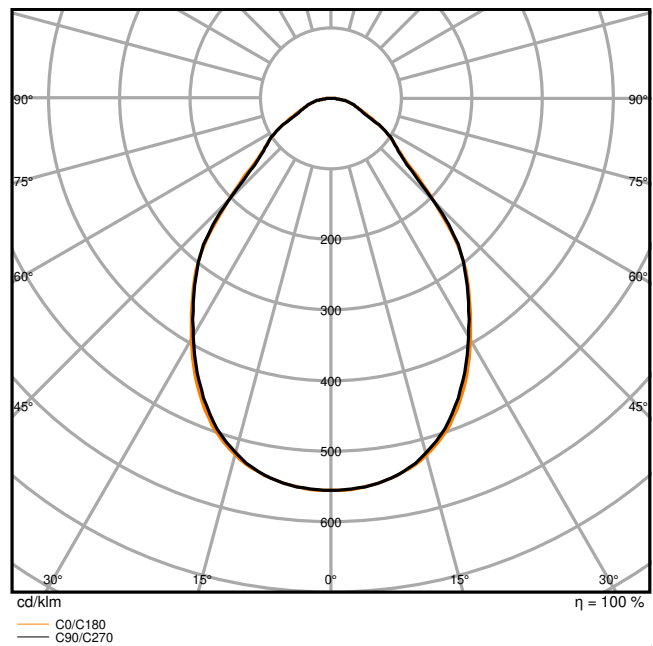
| | |
|---|---------------------|
| Nominal wattage | 40.00 W |
| Nominal voltage | 220...240 V |
| Mains frequency | 0/50/60 Hz |
| Nominal current | 190.000 mA |
| Inrush current | 27 A |
| Inrush current time T_{h50} | 205 μ s |
| Max. number of luminaires per miniature circuit breaker B16 | 23 |
| 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 |

Photometrical data

| | |
|--|--------------------|
| Luminous flux | 4100 lm |
| Luminous efficacy | 102 lm/W |
| Color temperature | 2700...6500 K |
| Light color (designation) | Tunable White |
| Color rendering index Ra | > 90 |
| Standard deviation of color matching | 3 sdc _m |
| 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 |



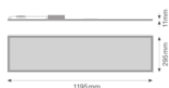
BIOLUX HCL PL 1200 S 40W TW DALI



BIOLUX HCL PL 1200 S 40W TW DALI

Dimensions & Weight

| | |
|----------------|------------|
| Length | 1195.00 mm |
| Width | 295.00 mm |
| Height | 11.00 mm |
| Product weight | 3300.00 g |



BIOLUX HCL PL 1200 S 40W TW DALI

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 | 1190 mm |
| Mounting width | 290 mm |
| Mounting depth | 50,0 mm |
| Adjustable | No |
| LED module replaceable | Not replaceable |
| With light source | Yes |

Lifespan

| | |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C | 70000 h ¹⁾ |
| Lifespan L80/B10 at 25 °C | 40000 h ¹⁾ |
| Lifespan L90/B10 at 25 °C | 25000 h |
| Number of switching cycles | 50000 |

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 |

















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

- 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 | UI BIOLUX HCL PL 1200 DALI |
|  | Addon Technical Information | LISO Insert BIOLUX HCL PL 1200 DALI |
|  | Legal information | Legal insert BIOLUX HCL DALI |
|  | 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 1200 S 40W TW DALI |
|  | LDT file (Eulumdat) | BIOLUX HCL PL 1200 S 40W TW DALI |
|  | ULD file (DIALux) | BIOLUX HCL PL 1200 S 40W TW DALI |
|  | ROLF file (RELUX) | BIOLUX HCL PL DALI GEN2 1200 S 40W TW |
|  | UGR file (UGR table) | BIOLUX HCL PL 1200 S 40W TW DALI |
|  | LDC typ cone | BIOLUX HCL PL 1200 S 40W TW DALI |
|  | LDC typ polar | BIOLUX HCL PL 1200 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 1200 |

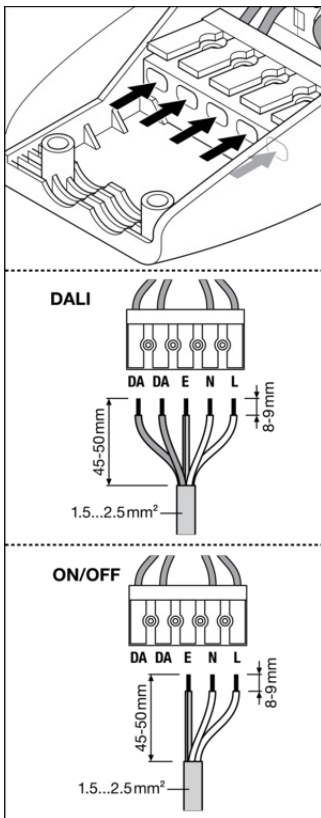
| Tender texts | Document name |
|--|---|
|  Tender documents | BIOLUX HCL PANEL DALI GEN 2 1200 S 40W TW DALI-EN |

LOGISTICAL DATA

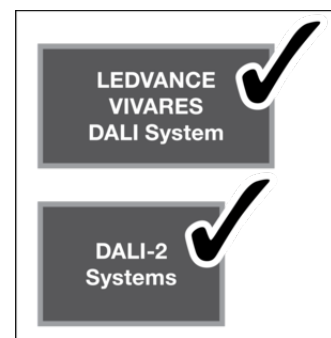
| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854140228 | Folding box 1 | 1,308 mm x 51 mm x 374 mm | 3896.00 g | 24.95 dm ³ |
| 4099854140235 | Shipping box 2 | 1,328 mm x 123 mm x 397 mm | 8742.00 g | 64.85 dm ³ |

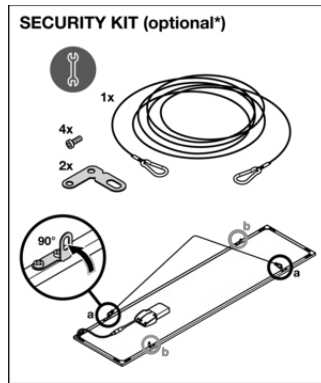
The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

ADDITIONAL CATALOG INFORMATION



| ≤ 16 A | B10 | B16 | B25 | B32 | C10 | C16 | DALI | t _c |
|----------------------------------|-----|-----|-----|-----|-----|-----|--|----------------|
| BIOLUX HCL PL 1200 S 40W TW DALI | 14x | 23x | 35x | 46x | 23x | 35x | CSRAM 075 DALI 150 225_240 144 NFC TW | -75°C |





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.