

# PRODUCT DATASHEET

## LB FLEX 1500 DALI P 105W 840 N

LOW BAY FLEX 1500 DALI | Low-bay luminaires with attractive linear design, up to 160 lm/W with DALI-2 technology



### Areas of application

- Replacement for luminaires with mercury vapor or metal halide lamps
- Warehouses
- Logistics halls
- Industrial and storage facilities
- Discounters, supermarkets
- Sports halls
- Indoor sports facilities

PERFOR-  
MANCE  
CLASS

### Product benefits

- Economical thanks to high luminous efficacy up to 160 lm/W
- Easy and quick installation thanks to toolless connector box with 5- and 7-pole terminals
- Modern and robust design
- 5 years guarantee

### Product features

- Different luminous flux and beam angle for mounting heights of ~ 4 m to ~14 m in 4000 K
- Through-wiring cable already installed
- Long Lifetime (L80/B10): up to 100,000 h
- High color consistency:  $\leq 3$  SDCM



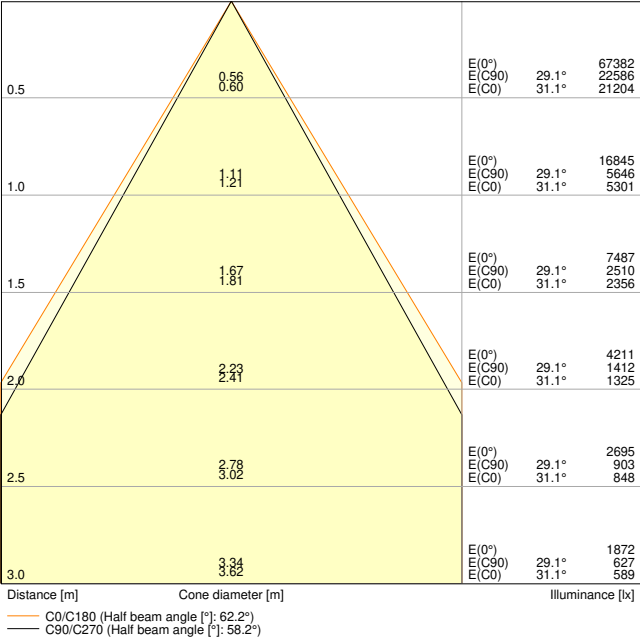
---

**TECHNICAL DATA****Electrical data**

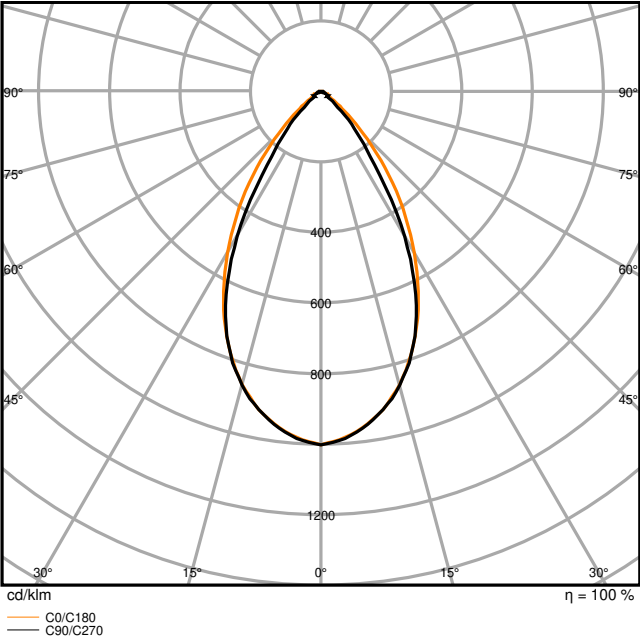
|                                                             |                               |
|-------------------------------------------------------------|-------------------------------|
| Nominal wattage                                             | 105 W                         |
| Nominal voltage                                             | 220...240 V                   |
| Mains frequency                                             | 0/50/60 Hz                    |
| Nominal current                                             | 450 mA                        |
| Inrush current                                              | 17.3 A                        |
| Inrush current time $T_{h50}$                               | 164 $\mu$ s                   |
| Max. number of luminaires per miniature circuit breaker B16 | 27                            |
| Max. number of luminaires per miniature circuit breaker C10 | 17                            |
| Max. number of luminaires per miniature circuit breaker C16 | 28                            |
| Power factor $\lambda$                                      | $\geq 0.90$                   |
| Total harmonic distortion                                   | $\leq 20 \%$                  |
| Protection class                                            | I                             |
| Operating mode                                              | ELECTRONIC CONTROL GEAR (ECG) |
| Dimming interface                                           | DALI-2 / IoT                  |

**Photometrical data**

|                                              |            |
|----------------------------------------------|------------|
| Luminous flux                                | 16800 lm   |
| Luminous efficacy                            | 160 lm/W   |
| Color temperature                            | 4000 K     |
| Light color (designation)                    | Cool White |
| Color rendering index Ra                     | $\geq 80$  |
| Standard deviation of color matching         | < 3 sdcn   |
| Low flicker                                  | Yes        |
| Photobiological safety group acc. to EN62778 | RG1        |
| Photobiological safety group acc. to EN62471 | RG1        |
| Beam angle                                   | 60 °       |



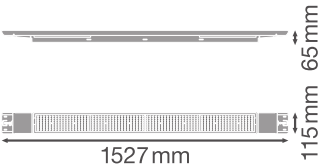
LB FLEX 1500 DALI P 105W 840 N



LB FLEX 1500 DALI P 105W 840 N

Dimensions & Weight

|                |           |
|----------------|-----------|
| Length         | 1527 mm   |
| Width          | 115.00 mm |
| Height         | 65.00 mm  |
| Product weight | 4150.00 g |



LOW BAY FLEX 1500

Materials & Colors

|                                            |                    |
|--------------------------------------------|--------------------|
| Product color                              | White              |
| Housing color                              | White              |
| Body material                              | Steel              |
| Cover material                             | Polycarbonate (PC) |
| Light emitting surface material            | Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 650 °C             |
| Mercury content                            | 0.0 mg             |

### Application & Mounting

|                                        |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Ambient temperature range              | -25...+50 °C                                               |
| Temperature range at storage           | -20...+80 °C                                               |
| Type of connection                     | Screwless terminal                                         |
| Type of protection                     | IP23                                                       |
| Protection class IK (shock resistance) | IK08                                                       |
| Dimmable                               | Yes                                                        |
| Type of dimming                        | DALI2                                                      |
| IoT ready                              | Support of DALI data type PART 251, 252, 253 <sup>1)</sup> |
| Mounting type                          | Surface/Suspended                                          |
| Mounting location                      | Ceiling                                                    |
| Application environment                | Indoor                                                     |
| Adjustable                             | No                                                         |
| With light source                      | Yes                                                        |
| Replaceable light source               | No                                                         |

<sup>1)</sup> 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  | 100000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 100000 h <sup>1)</sup> |
| Lifespan L80/B50 at 25 °C  | 100000 h               |
| Lifespan L90/B10 at 25 °C  | 82000 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 | 460 mA |
|----------------|--------|

|                             |                                         |
|-----------------------------|-----------------------------------------|
| ECG - Output ripple current | < 10 %                                  |
| Recommended control gear    | TRIDONIC/LCI 100/200-850/300 o4a si PRE |

### Emergency lighting

|                                           |         |
|-------------------------------------------|---------|
| Wattage in emergency operation mode       | 18.9 W  |
| Luminous flux in emergency operation mode | 2662 lm |

### Certificates & Standards

|                                                      |                                       |
|------------------------------------------------------|---------------------------------------|
| Standards                                            | CE / CB / ENEC / TÜV SÜD / EAC / UKCA |
| Luminaire with limited surface temperature, "D sign" | No                                    |
| Ball shot safe                                       | No                                    |
| Replaceable light source (EPREL)                     | Not replaceable                       |

### Additional product data

|                |         |
|----------------|---------|
| Added function | VIVARES |
|----------------|---------|

### Accessories Optional

| Product image                                                                       | Product name           | EAN           |
|-------------------------------------------------------------------------------------|------------------------|---------------|
|  | LB FLEX SUSPENSION KIT | 4058075693722 |

### EQUIPMENT / ACCESSORIES

– Suspension kit, ball-proof cover and angulation mounting kit available as separate accessory

### 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 |

| Product image                                                                       | Product name                                                | EAN           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------|
|    | MANUAL CONTROL UNIT SELECT DALI-2 EXCHANGEABLE COVER TW     | 4058075837522 |
|    | MANUAL CONTROL UNIT TOUCH DALI-2 TW                         | 4058075837560 |
|    | 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 |

| Product image                                                                     | Product name                                                   | EAN           |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------|---------------|
|   | SENSOR DALI-2 LIGHT/PRESENCE-8 INFRARED CEILING INTEGRATION    | 4058075841949 |
|   | SENSOR DALI-2 LIGHT/PRESENCE-40X5 INFRARED CEILING INTEGRATION | 4058075843868 |
|   | 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 Lowbay Flex                            |
|  | Legal information                      | Legal Insert LB FLEX DALI                 |
|  | Legal information                      | LS Insert LB FLEX DALI                    |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG        |
|  | Declarations of conformity             | EU Declaration of conformity LB FLEX DALI |
|  | Declarations of conformity UKCA        | LB FLEX DALI 840                          |
|  | EU Data Act                            | DALI LED Driver and Luminaires            |
| Photometric and lighting design files                                              |                                        | Document name                             |
|  | IES file (IES)                         | LB FLEX 1500 DALI P 105W 840 N            |
|  | LDT file (Eulumdat)                    | LB FLEX 1500 DALI P 105W 840 N            |

| Photometric and lighting design files                                             |                                     | Document name                          |
|-----------------------------------------------------------------------------------|-------------------------------------|----------------------------------------|
|   | ULD file (DIALux)                   | LB FLEX 1500 DALI P 105W               |
|   | ROLF file (RELUX)                   | LB FLEX 1500 DALI                      |
|   | UGR file (UGR table)                | LB FLEX 1500 DALI P 105W 840 N         |
|   | Light distribution curve type cone  | LB FLEX 1500 DALI P 105W 840 N         |
|   | Light distribution curve type polar | LB FLEX 1500 DALI P 105W 840 N         |
| CAD/BIM files                                                                     |                                     | Document name                          |
|   | BIM Revit 3D                        | LOW BAY FLEX                           |
|   | CAD STEP 3D                         | LB FLEX 1500                           |
| Tender texts                                                                      |                                     | Document name                          |
|  | Tender documents                    | LOW BAY FLEX 1500 DALI P 105W 840 N-EN |

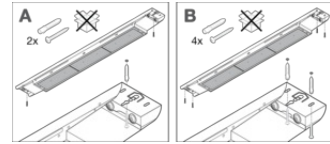
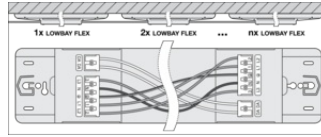
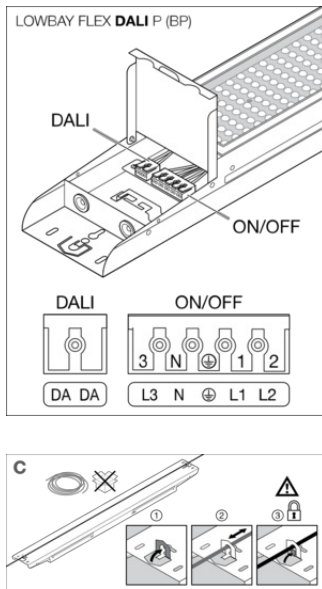
## LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                 |
|---------------|------------------------------|--------------------------------------|--------------|------------------------|
| 4058075676305 | Folding box<br>1             | 106 mm x 1,572 mm x 154 mm           | 4605.00 g    | 25.66 dm <sup>3</sup>  |
| 4058075676312 | Shipping box<br>3            | 1,602 mm x 488 mm x 143 mm           | 16253.00 g   | 111.79 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





## References / Links

– For Guarantee see [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee)

## DISCLAIMER

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