

# PRODUCT DATASHEET

## HB DALI 93 W 4000 K 110DEG IP65

HIGH BAY DALI GEN 3 | LED high-bay luminaires with DALI interface



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### Areas of application

- Replacement for high bay luminaires with mercury vapor or metal halide lamps
- Warehouses
- Logistics halls
- Industry
- High ceiling (e.g. in shopping malls, airports, commercial buildings, lobbies)

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### Product benefits

- High compatibility thanks to DALI-2 certification
- DALI 2.0 interface for dimming and sensor operations
- Low flicker light thanks to special electronic control gear
- High luminous efficacy
- Energy savings of up to 90 % compared to conventional high bay luminaires
- 5 years guarantee

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### Product features

- Pre-configured DALI driver included
- Luminous efficacy: up to 140 lm/W
- Type of protection: IP65
- Dimming range (DALI): 10...100 %



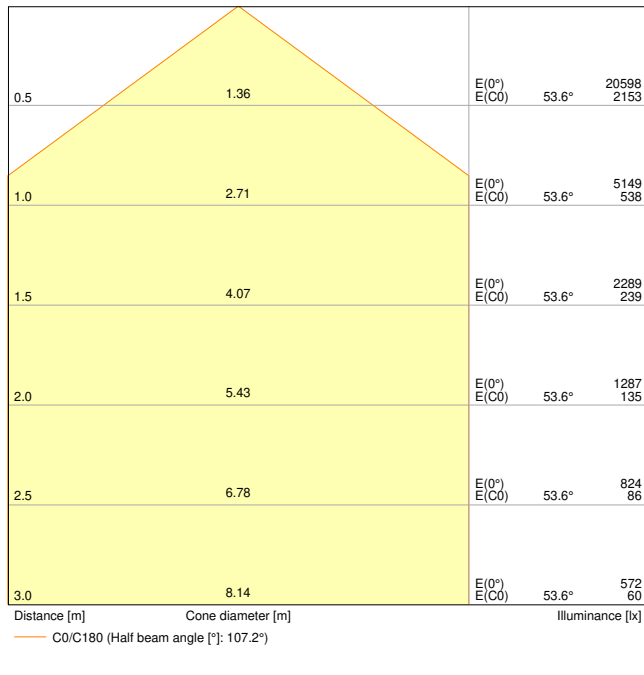
## TECHNICAL DATA

### Electrical data

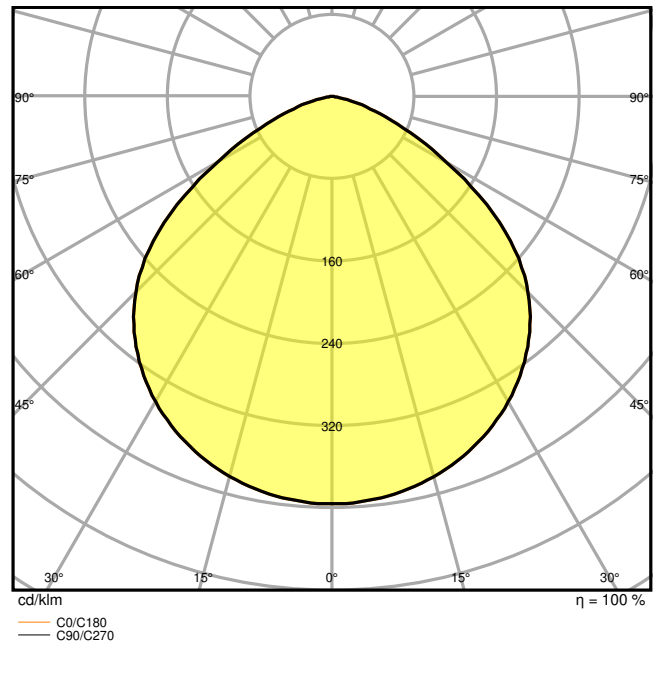
|   |               |
|---|---------------|
| Nominal wattage   | 93.00 W       |
| Nominal voltage   | 100...277 V   |
| Mains frequency   | 50...60 Hz    |
| Nominal current   | 420 mA        |
| Inrush current  | 41.2 A        |
| Inrush current time $T_{h50}$                               | 300 $\mu$ s   |
| Max. number of luminaires per miniature circuit breaker B16 | 5             |
| Max. number of luminaires per miniature circuit breaker C10 | 5             |
| Max. number of luminaires per miniature circuit breaker C16 | 8             |
| Power factor $\lambda$                                      | $\geq 0.95$   |
| Total harmonic distortion                                   | < 20 %        |
| Protection class  | I             |
| Operating mode  | Mains voltage |

### Photometrical data

|  |            |
|--|------------|
| Luminous flux                                | 13000 lm   |
| Luminous efficacy                            | 140 lm/W   |
| Color temperature                            | 4000 K     |
| Light color (designation)                    | Cool White |
| Color rendering index Ra                     | $\geq 80$  |
| Standard deviation of color matching         | < 5 sdcn   |
| Low flicker                                  | Yes        |
| Photobiological safety group acc. to EN62778 | RG1        |
| Beam angle                                   | 110 °      |
| UGR  | < 25       |



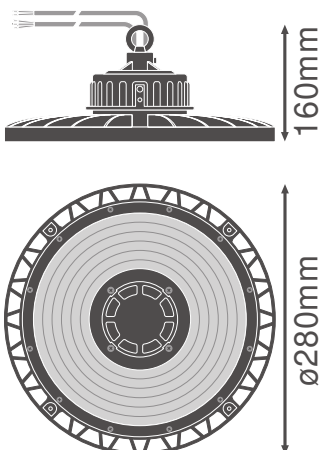
LDC typ cone



LDC typ polar

### Dimensions & Weight

|                |           |
|----------------|-----------|
| Diameter       | 280.00 mm |
| Height         | 160.00 mm |
| Product weight | 2818.00 g |



## Materials & Colors

|  |                    |
|--|--------------------|
| Product color                              | Black              |
| Housing color                              | Black              |
| Body material                              | Aluminum           |
| Cover material                             | Polycarbonate (PC) |
| Light emitting surface material            | Polycarbonate (PC) |
| Glow Wire Test according to IEC 60695-2-12 | 850 °C             |
| Mercury content                            | 0.0 mg             |

## Application & Mounting

|  |                          |
|--|--------------------------|
| Ambient temperature range              | -30...+50 °C             |
| Temperature range at storage           | -40...+70 °C             |
| Type of connection                     | 2 Cables (2-pole/3-pole) |
| Type of protection                     | IP65                     |
| Protection class IK (shock resistance) | IK08                     |
| Dimmable                               | Yes                      |
| Type of dimming                        | DALI                     |
| Mounting type                          | Suspended/Surface        |
| Mounting location                      | Ceiling / Wall           |
| Application environment                | Indoor                   |
| Adjustable                             | Yes                      |
| LED module replaceable                 | Not replaceable          |
| With light source                      | Yes                      |

## Lifespan

|                            |                       |
|----------------------------|-----------------------|
| Lifespan L70/B50 at 25 °C  | 80000 h <sup>1)</sup> |
| Lifespan L80/B10 at 25 °C  | 50000 h <sup>1)</sup> |
| Lifespan L90/B10 at 25 °C  | 30000 h               |
| Number of switching cycles | 200000                |

<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

|                             |        |
|-----------------------------|--------|
| ECG - Output ripple current | < 10 % |
|-----------------------------|--------|

## Certificates & Standards















|           |                                |
|-----------|--------------------------------|
| Standards | CE / CB / ENEC / TÜV SÜD / EAC |
|-----------|--------------------------------|

|  |     |
|--|-----|
| Luminaire with limited surface temperature, "D sign" | Yes |
| Ball shot safe                                       | No  |

## EQUIPMENT / ACCESSORIES

- Mounting hook and brackets included
- Reflectors and refractors as separate accessory available

## 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                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4058075543904 | Shipping box<br>1            | 317 mm x 317 mm x 180 mm             | 3381.00 g    | 18.09 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**

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