

# PRODUCT DATASHEET

## HB DALI 93 W 4000 K 110DEG IP65

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



PERFOR-  
MANCE  
CLASS

### 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)

### 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

### Product features

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



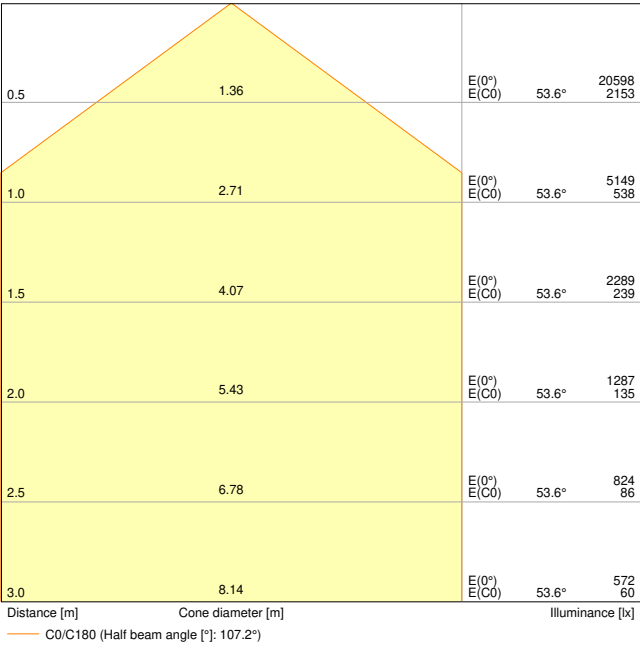
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**TECHNICAL DATA****Electrical data**

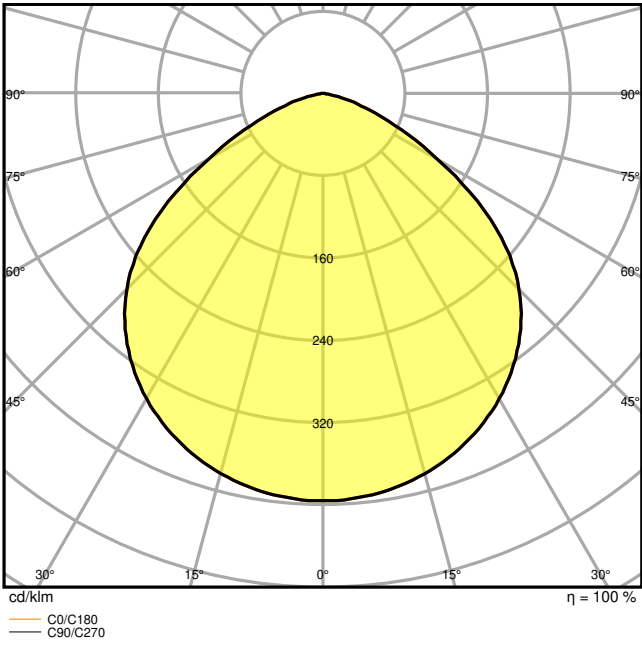
|                                                             |               |
|-------------------------------------------------------------|---------------|
| Nominal wattage                                             | 93.00 W       |
| Nominal voltage                                             | 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 |
| Dimming interface                                           | DALI-2        |

**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       |



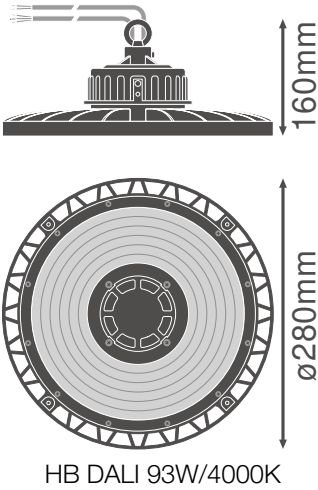
HB-DALI-93W-4000K-110DEG-IP65



HB-DALI-93W-4000K-110DEG-IP65

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                      |
| 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 L80/B50 at 25 °C  | 50000 h               |
| 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 / EPD |
|-----------|--------------------------------------|

|                                                      |                      |
|------------------------------------------------------|----------------------|
| Luminaire with limited surface temperature, "D sign" | Yes                  |
| Ball shot safe                                       | No                   |
| EPD                                                  | LEDV-00021-V01.01-EN |
| Replaceable light source (EPREL)                     | Not replaceable      |

## EQUIPMENT / ACCESSORIES

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

## DOWNLOAD DATA

| Documents and certificates                                                         |                                        | Document name                      |
|------------------------------------------------------------------------------------|----------------------------------------|------------------------------------|
|    | User instruction / safety instructions | UI_High Bay DALI                   |
|    | Legal information                      | LS Insert HB DALI IP65             |
|   | Legal information                      | Legal insert HB DALI               |
|  | Legal information                      | Informationstext 18 Abs 4 ElektroG |
|  | Declarations of conformity             | EC Declaration High Bay DALI       |
|  | Declarations of conformity UKCA        | HB DALI 4000K IP65                 |
| Photometric and lighting design files                                              |                                        | Document name                      |
|  | IES file (IES)                         | HB-DALI-93W-4000K-110DEG-IP65      |
|  | LDT file (Eulumdat)                    | HB DALI 93W 4000K 110DEG IP65      |
|  | ULD file (DIALux)                      | HB DALI 93W-4000K 110DEG           |
|  | ROLF file (RELUX)                      | HB DALI 93W-4000K                  |
|  | UGR file (UGR table)                   | HB 93W4000K 110DEG IP65            |
|  | Light distribution curve type cone     | HB-DALI-93W-4000K-110DEG-IP65      |

| Photometric and lighting design files                                            |                                     | Document name                                  |
|----------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------|
|  | Light distribution curve type polar | HB-DALI-93W-4000K-110DEG-IP65                  |
| CAD/BIM files                                                                    |                                     | Document name                                  |
|  | BIM Revit 3D                        | HB GEN3                                        |
|  | CAD STEP 3D                         | HB Gen3 DA 93W                                 |
| Tender texts                                                                     |                                     | Document name                                  |
|  | Tender documents                    | HIGH BAY DALI GEN 3 93 W 4000 K 110DEG IP65-EN |

## 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)

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