

# 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 %



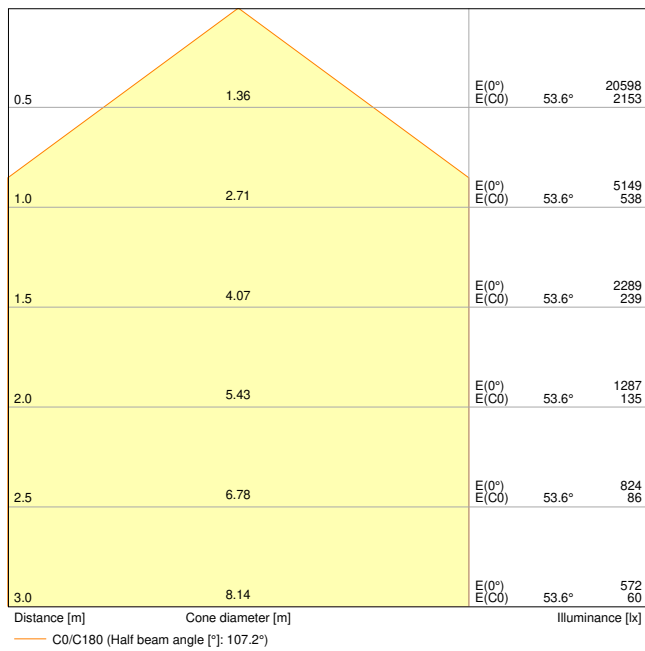
## TECHNICAL DATA

### Electrical data

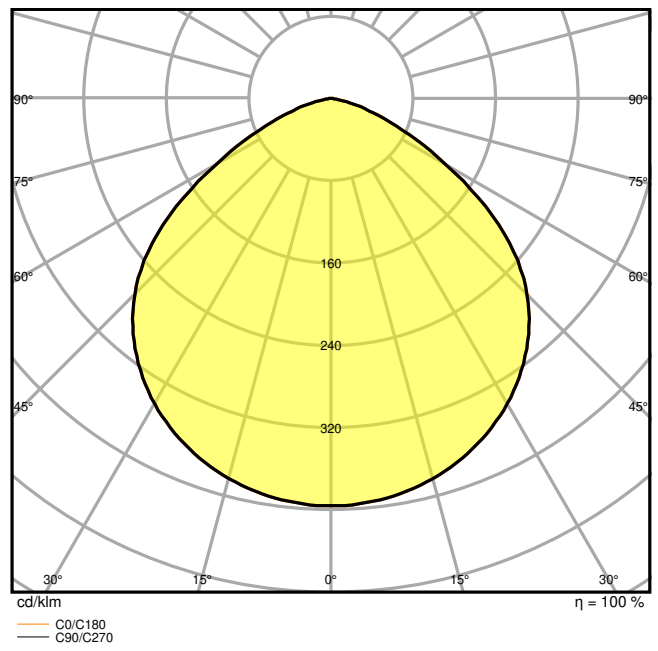
Nominal wattage	93.00 W
Nominal voltage	100...277 V
Mains frequency	50...60 Hz
Nominal current	420 mA
Inrush current	41.2 A
Inrush current time $T_{h50}$	300 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	5
Max. number of luminaires per miniature circuit breaker C10	5
Max. number 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 sdc <sub>m</sub>
Low flicker	Yes
Photobiological safety group acc. to EN62778	RG1
Beam angle	110 °
UGR	< 25



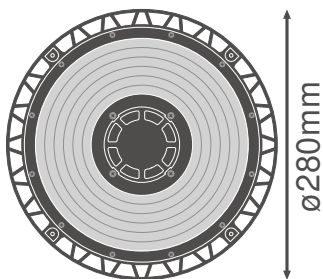
HB-DALI-93W-4000K-110DEG-IP65



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

Dimensions & Weight

Diameter	280.00 mm
Height	160.00 mm
Product weight	2818.00 g



HB DALI 93W/4000K

## 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 %
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## Certificates & Standards













Standards	CE / CB / ENEC / TÜV SÜD / EAC / EPD
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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 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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