

# PRODUCT DATASHEET

## HB 93 W 4000 K 110DEG IP65

HIGH BAY GEN 3 | High-bay luminaires up to 140 lm/W and attractive UGR



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

- Improved UGR compared to previous generations, down to  $UGR \leq 22$  in combination with reflector
- High luminous efficacy
- Energy savings of up to 60 % compared to conventional high bay luminaires
- 5 years guarantee
- Optimized weight and size due to compact design

### Product features

- Different luminous flux and beam angle for mounting heights of ~ 6 m to 14 m in 4000 K or 6500 K



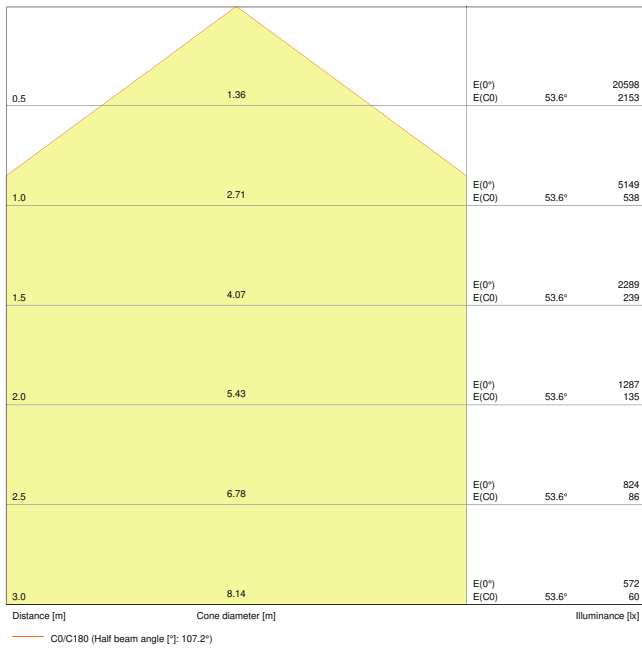
## TECHNICAL DATA

### Electrical data

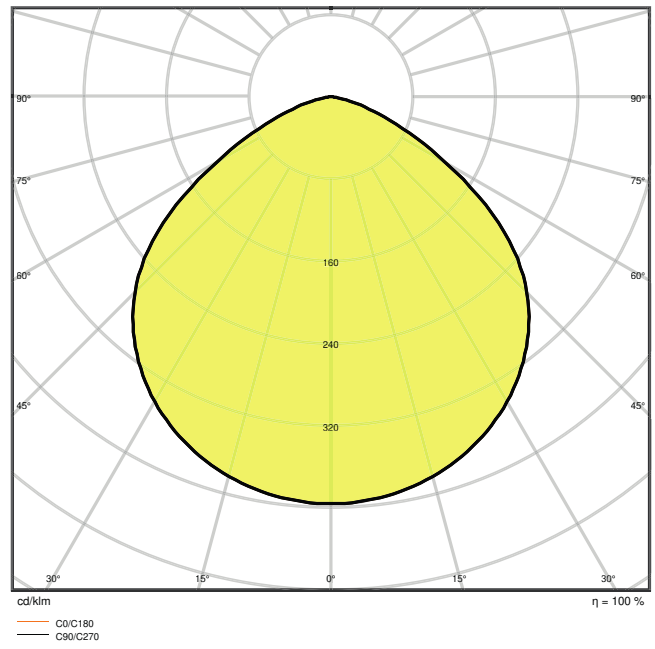
Nominal wattage	93.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	430 mA
Inrush current	44 A
Inrush current time $T_{h50}$	380 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	6
Max. number of luminaires per miniature circuit breaker C10	6
Max. number of luminaires per miniature circuit breaker C16	8
Power factor $\lambda$	> 0.95
Total harmonic distortion	$\leq$ 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 sdc <sub>m</sub>
Low flicker	Yes
Photobiological safety group acc. to EN62778	RG1
Photobiological safety group acc. to EN62471	RG1
Beam angle	110 °



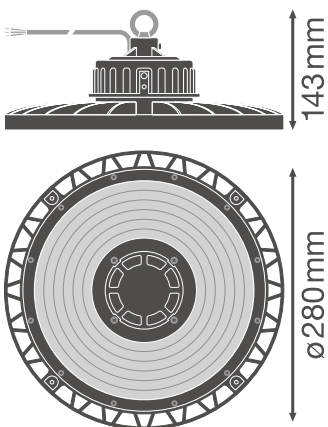
HB PFM 93W4000K 110DEG IP65



HB PFM 93W4000K 110DEG IP65

Dimensions & Weight

Diameter	280.00 mm
Height	143.00 mm
Product weight	1800.00 g
Cable length	1500 mm



HIGHBAY PERFORMANCE

## Materials & Colors

Product color	Black
Housing color	Black
Body material	Aluminum
Cover 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...+55 °C
Temperature range at storage	-40...+70 °C
Type of connection	Cable, 3-pole
Type of protection	IP65
Protection class IK (shock resistance)	IK08
Dimmable	No
Mounting type	Suspended/Surface
Mounting location	Ceiling
Application environment	Indoor
Replaceable light source (EPREL)	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 L80/B50 at 25 °C	50000 h
Lifespan L90/B10 at 25 °C	35000 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
Luminaire with limited surface temperature, "D sign"	Yes



EQUIPMENT / ACCESSORIES

- Mounting hook included
- Mounting brackets, reflectors and refractors available as separate accessory

DOWNLOAD DATA

Documents and certificates		Document name
	User Instruction / Safety Instructions	HIGHBAY Gen3
	Legal information	LSI upload_HB
	Legal information	Legal insert HB P GEN 4 AND HB GEN 3
	Declarations of conformity	HB

Photometric and lighting design files		Document name
	IES file (IES)	HB 93W/4000K 110DEG IP65
	LDT file (Eulumdat)	HB 93W/4000K 110DEG IP65
	UGR file (UGR table)	HB 93W4000K 110DEG IP65
	LDC typ cone	HB PFM 93W4000K 110DEG IP65
	LDC typ polar	HB PFM 93W4000K 110DEG IP65

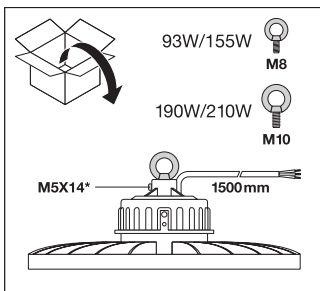
CAD/BIM files		Document name
	BIM_Revit_3D	HB GEN3
	CAD_STEP_3D	High Bay gen3 93W

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075452367	Shipping box 1	337 mm x 337 mm x 152 mm	2497.00 g	17.26 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.

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**ADDITIONAL CATALOG INFORMATION**

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**References / Links**

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

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**DISCLAIMER**

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