

# PRODUCT DATASHEET

## HB SEN P 87W 840 110DEG IP65

HIGH BAY SENSOR GEN 4 | High-bay luminaires in IP65 with high frequency sensor



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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

- Multiple adjustments of sensor range, daylight detection and hold time
- High luminous efficacy
- Energy savings of up to 64 % compared to conventional high bay luminaires
- 5 years guarantee
- Suitable for use in dusty and damp locations thanks to high IP rating

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### Product features

- High frequency sensor for daylight and motion detection
- Different luminous flux and beam angle for mounting heights of ~ 6 m to 10 m in 4000 K



## TECHNICAL DATA

### Electrical data

Nominal wattage	87.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	400 mA
Inrush current	44 A
Inrush current time $T_{h50}$	380 $\mu$ s
Max. no. of lum. on circuit break. B16 A	5
Max. no. of lum. on circuit break. C10 A	5
Max. no. of lum. on circuit break. C16 A	8
Power factor $\lambda$	> 0.95
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Mains voltage

### Photometrical data

Luminous flux	13000 lm
Luminous efficacy	150 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
Beam angle	110 °
UGR	$\leq$ 29

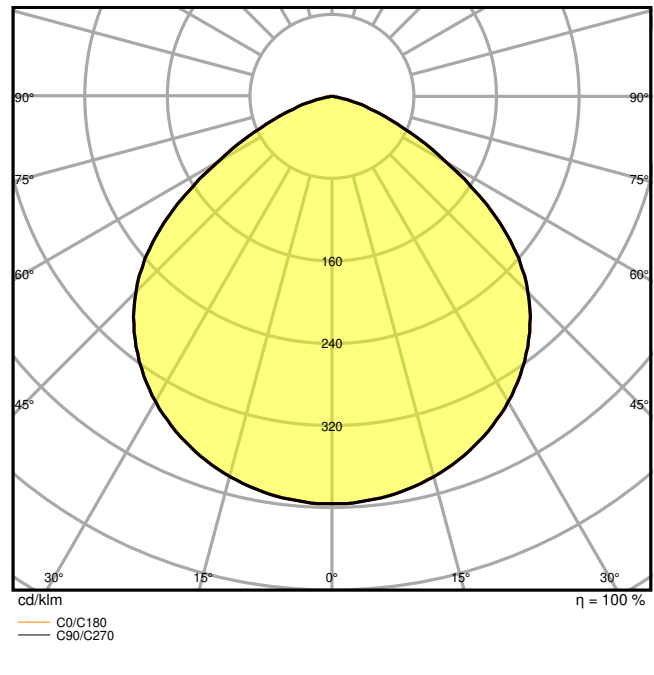


0.5	1.36	E(0°) E(C0)	53.6°	20598 2153
1.0	2.71	E(0°) E(C0)	53.6°	5149 538
1.5	4.07	E(0°) E(C0)	53.6°	2289 239
2.0	5.43	E(0°) E(C0)	53.6°	1287 135
2.5	6.78	E(0°) E(C0)	53.6°	824 86
3.0	8.14	E(0°) E(C0)	53.6°	572 60

Distance [m]                      Cone diameter [m]                      Illuminance [lx]

— C0/C180 (Half beam angle [°]: 107.2°)

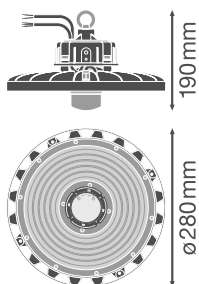
LDC typ cone



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### Dimensions & Weight

Diameter	280.00 mm
Height	190.00 mm
Product weight	2242.00 g
Cable length	1500 mm



### 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	-20...+50 °C
Temperature range at storage	-40...+70 °C
Type of connection	Cables
Type of protection	IP65
Protection class IK (shock resistance)	IK08
Dimmable	No
Mounting type	Surface/Suspended
Mounting location	Ceiling / Wall
Application environment	Indoor
LED module replaceable	Not replaceable
With light source	Yes

### Lifespan

Lifespan L70/B50 at 25 °C	80000 h
Lifespan L80/B10 at 25 °C	50000 h
Lifespan L90/B10 at 25 °C	35000 h
Number of switching cycles	200000

### Control gear

ECG - Output ripple current	< 10 %
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### Sensor

Type of sensor	Motion / Light
Sensor technology	Microwave
Sensor detection angle	< 150 °
Sensor controlled switching time	30s...10 min
Detection range of motion sensor	6...15 m
Detection threshold of daylight sensor	100 lx

### Certificates & Standards














Standards	CE / CB / ENEC / TÜV SÜD / EAC
Luminaire with limited surface temperature, "D sign"	Yes
Ball shot safe	No

**EQUIPMENT / ACCESSORIES**

- Sensor, mounting hook and mounting bracket included
- Reflectors, refractors and remote control available as separate accessory

**DOWNLOAD DATA**

DOWNLOAD DATA	
	User instruction
	Addon Technical Information
	Tender documents
	Certificates
	Declarations of conformity
	IES file (IES)
	LDT file (Eulumdat)
	R3D file (Relux 3D Model)
	M3D file (3D Model)
	ULD file (DIALux)
	UGR file (UGR table)

**LOGISTICAL DATA**

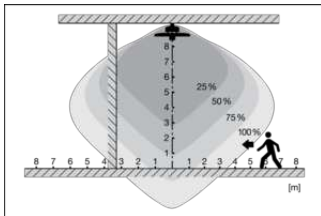
Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
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Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075603257	Shipping box 1	328 mm x 328 mm x 171 mm	2838.00 g	18.40 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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