

# PRODUCT DATASHEET

## HB SEN P 147W 840 110DEG IP65

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



### 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

- 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

### 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



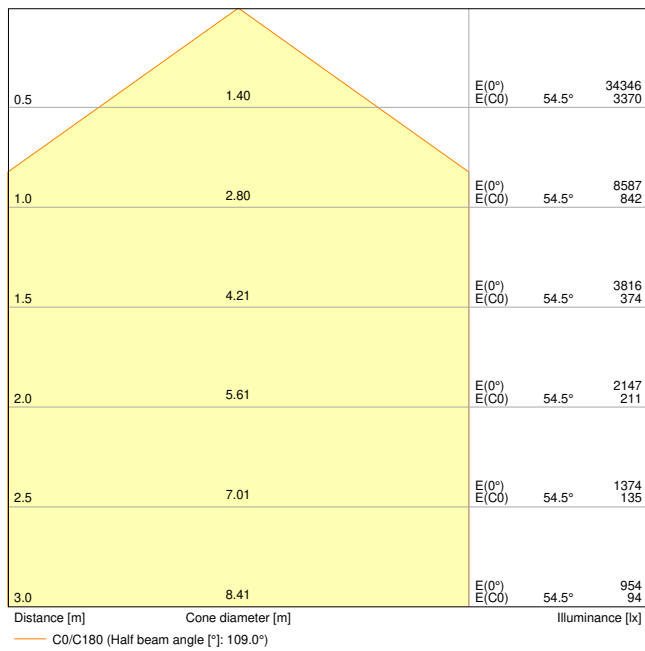
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**TECHNICAL DATA****Electrical data**

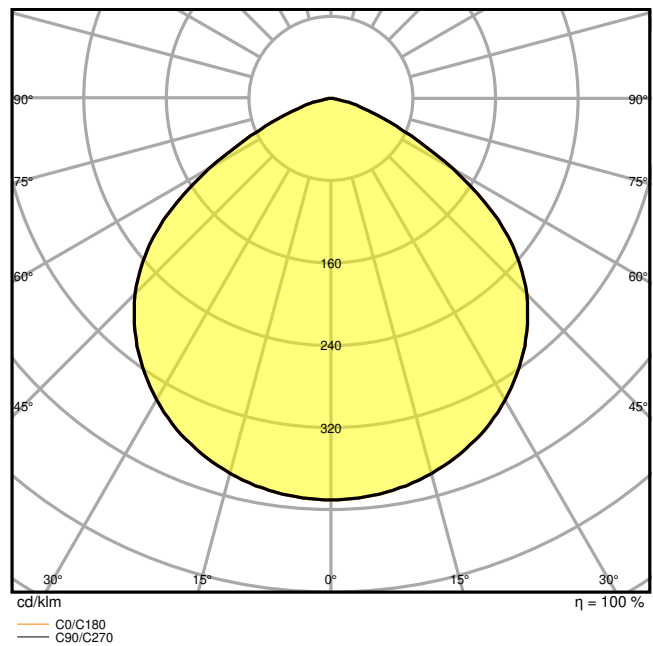
Nominal wattage	147.00 W
Nominal voltage	220...240 V
Mains frequency	50...60 Hz
Nominal current	660 mA
Inrush current	48.8 A
Inrush current time $T_{h50}$	368 $\mu$ s
Max. number of luminaires per miniature circuit breaker B16	4
Max. number of luminaires per miniature circuit breaker C10	4
Max. number of luminaires per miniature circuit breaker C16	6
Power factor $\lambda$	> 0.95
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Mains voltage

**Photometrical data**

Luminous flux	22000 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



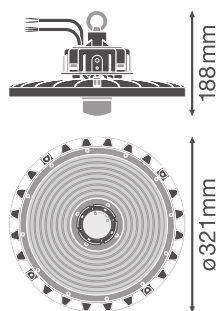
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Dimensions & Weight

Diameter	321.00 mm
Height	188.00 mm
Product weight	2570.00 g
Cable length	1500 mm



HB Sensor\_Line drawing with dimensions\_Update

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 <sup>1)</sup>
Lifespan L80/B10 at 25 °C	50000 h <sup>1)</sup>
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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### 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
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### Certificates & Standards





Standards	CE / CB / ENEC / TÜV SÜD / EAC / EPD
Luminaire with limited surface temperature, "D sign"	Yes
Ball shot safe	No
EPD	LEDV-00024-V01.01-EN




### EQUIPMENT / ACCESSORIES

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


### DOWNLOAD DATA

Documents and certificates		Document name
	User Instruction	HIGHBAY SENSOR
	Addon Technical Information	LS Insert HB Sensor P
	Legal information	Legal insert HB SEN P
	Declarations of conformity	EC Declaration HB SEN P
	Declarations Of Conformity UKCA	HB SEN P 840 IP65
	Certificates	ENEC Certificate HB P and HB Sensor P

Photometric and lighting design files		Document name
	IES file (IES)	HB SEN P 147W 840 110DEG IP65
	LDT file (Eulumdat)	HB SEN P 147W 840 110DEG IP65
	ULD file (DIALux)	HB SEN P 147W 840 110DEG IP65
	ROLF file (RELUX)	HB SEN P 147W 840 70DEG IP65

Photometric and lighting design files		Document name
	UGR file (UGR table)	HB SEN P 147W 840 110DEG IP65
	LDC typ cone	HB SEN P 147W 840 110DEG IP65
	LDC typ polar	HB SEN P 147W 840 110DEG IP65

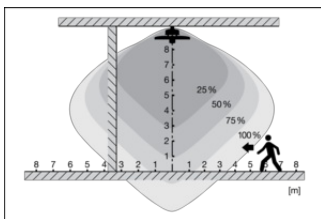
Tender texts		Document name
	Tender documents	HIGH BAY SENSOR GEN 4 147W 840 110DEG IP65-EN

**LOGISTICAL DATA**

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075603264	Shipping box 1	368 mm x 368 mm x 168 mm	3223.00 g	22.75 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**

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