PRODUCT DATASHEET
HB SEN P 147W 840 70DEG IP65

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



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

- Multiple adjustments of sensor range, daylight detection and hold time
- 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

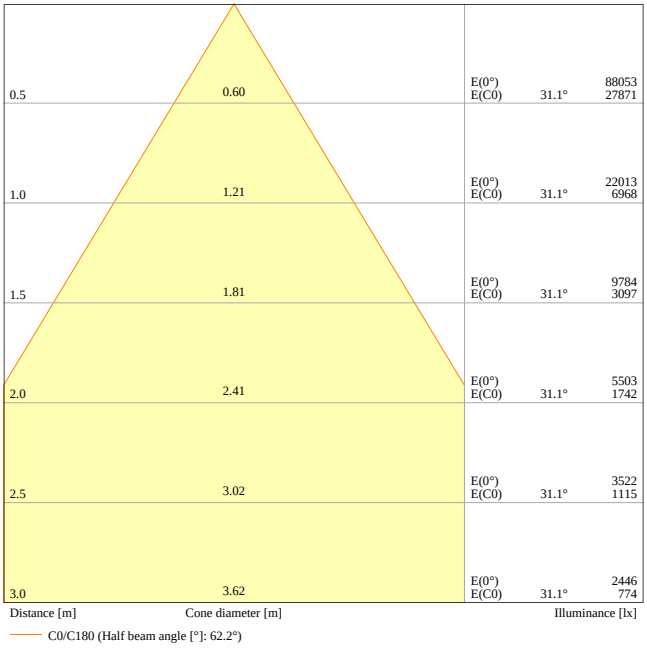
Electrical data

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 µs
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 λ	> 0.95
Maximum total harmonic distortion	< 20 %
Protection class	I
Operating mode	Mains voltage

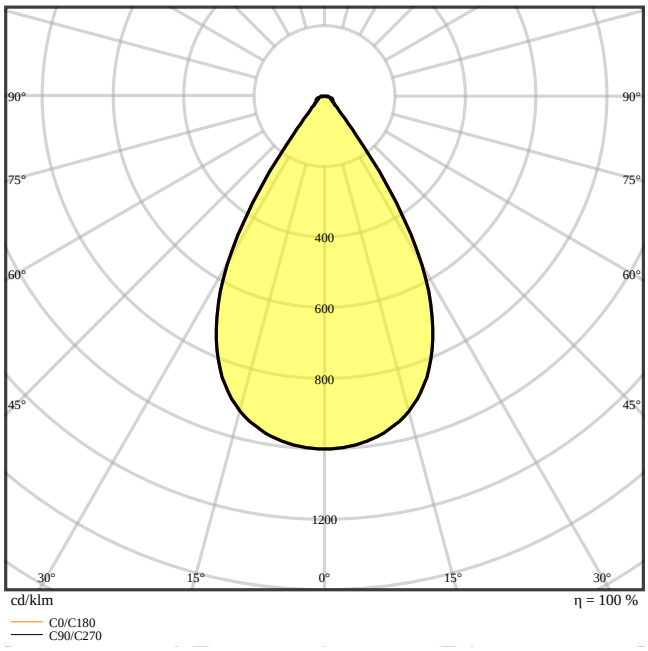
Photometrical data

Luminous flux	22000 lm
Luminous efficacy	150 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	≥80
Standard deviation of color matching	< 5 sdcm
Low flicker	Yes
Beam angle	70 °
UGR	≤ 25

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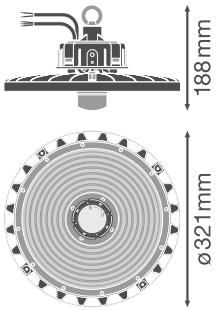
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Dimensions & Weight

Diameter	321.00 mm
Height	188.00 mm
Product weight	2690.00 g
Cable length	1500 mm



HB Sensor_Line drawing with dimensions_Update

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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
With light source	Yes
Replaceable light source	No

Lifespan

Lifespan L70/B50 at 25 °C	80000 h [1)]
Lifespan L80/B10 at 25 °C	50000 h [1)]
Lifespan L80/B50 at 25 °C	50000 h
Lifespan L90/B10 at 25 °C	35000 h [1)]
Number of switching cycles	200000

1) t[h]: L70 / B50 @ 25 °C (Ta), t[h]: L80 / B10 @ 25 °C (Ta), t[h]: L90 / B10 @ 25 °C (Ta)

Control gear

Output ripple current (100 Hz)	< 10 %

Sensor

Type of sensor	Motion / Light
Sensor technology	Microwave
Sensor detection angle	< 150 °
Sensor controlled switching time	30s…10 min

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Detection range of motion sensor	6…15 m
Detection threshold of daylight sensor	100 lx

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
Replaceable light source (EPREL)	Not replaceable

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
PDF	User instruction / safety instructions	HIGHBAY SENSOR
PDF	Legal information	LS Insert HB Sensor P
PDF	Legal information	Legal insert HB SEN P
PDF	Legal information	Informationstext 18 Abs 4 ElektroG
PDF	Declarations of conformity	EC Declaration HB SEN P
PDF	Declarations of conformity UKCA	HB SEN P 840 IP65
PDF	Certificates	ENEC Certificate HB P and HB Sensor P
PDF	EPD	EPD EN HIGH BAY GEN 4 SENSOR

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

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	Photometric and lighting design files	Document name
	ULD file (DIALux)	HB SEN P 147W 840 70DEG IP65
	ROLF file (RELUX)	HB SEN P 147W 840 110DEG IP65
	UGR file (UGR table)	HB SEN P 147W 840 70DEG IP65
	Light distribution curve type cone	HB SEN P 147W 840 70DEG IP65
	Light distribution curve type polar	HB SEN P 147W 840 70DEG IP65

	CAD/BIM files	Document name
	BIM Revit 3D	HB G4
	CAD STEP 3D	HB G4 SEN 147W

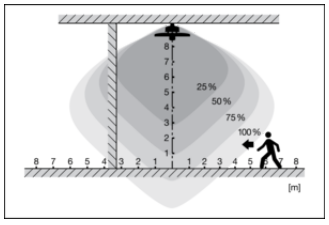
	Tender texts	Document name
	Tender documents	HIGH BAY SENSOR GEN 4 147W 840 70DEG IP65-EN

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4058075603271	Shipping box 1	368 mm x 368 mm x 168 mm	3343.00 g	22.75 dm^3

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

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DISCLAIMER

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

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