PRODUCT DATASHEET
HB SEN P 147W 840 70DEG 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
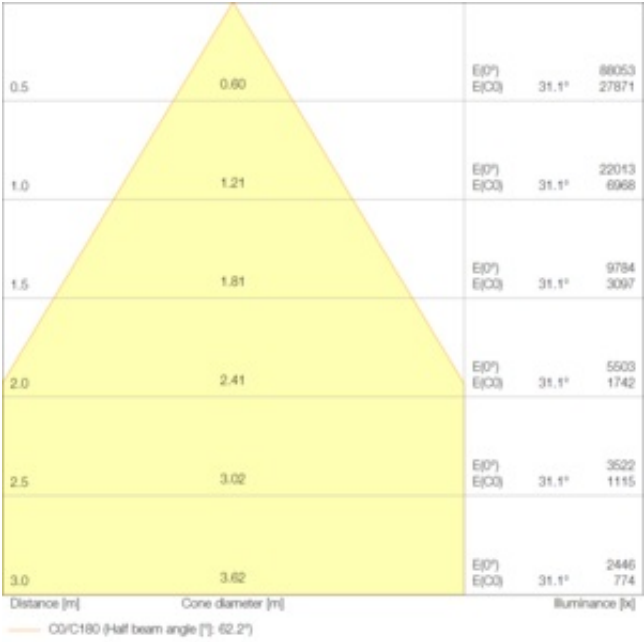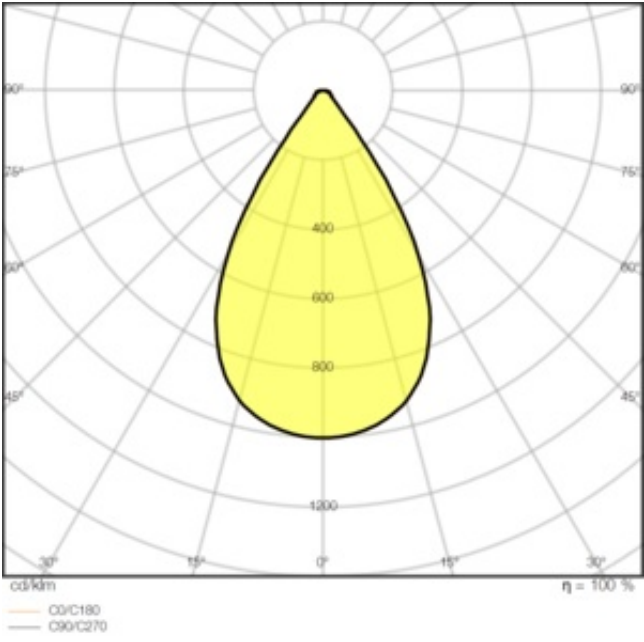
TECHNICAL DATA

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. no. of lum. on circuit break. B16 A	4
Max. no. of lum. on circuit break. C10 A	4
Max. no. of lum. on circuit break. C16 A	6
Power factor λ	> 0.95
Total harmonic distortion	< 20 %
Protection class	I
Operating mode	Mains voltage

Photometrical data

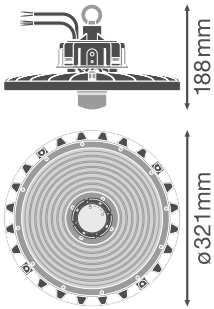|	
Luminous flux	22000 lm
Luminous efficacy	150 lm/W
Color temperature	4000 K
Light color (designation)	Cool White
Color rendering index Ra	≥80
Standard deviation of color matching	< 5 sdcm
Low flicker	Yes
Photobiological safety group acc. to EN62778	RG1
Photobiological safety group acc. to EN62471	RG1
Beam angle	70 °
UGR	≤ 25

LDC typ cone

LDC typ polar

Dimensions & Weight

Diameter	321.00 mm
Height	188.00 mm
Product weight	2690.00 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 %

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

Additional product data

Product remark	

EQUIPMENT / ACCESSORIES

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

DOWNLOAD DATA

	DOWNLOAD DATA
PDF	User instruction UI_HIGHBAY SENSOR
PDF	Addon Technical Information LS Insert HB Sensor P
PDF	Declarations of conformity EC Declaration HB SEN P
	IES file (IES) HB SEN P 147W 840 70DEG IP65
	LDT file (Eulumdat) HB SEN P 147W 840 70DEG IP65
	R3D file (Relux 3D Model) HB P / HB SEN P
	M3D file (3D Model) HB P/ HB SEN P
	UGR file (UGR table) HB SEN P 147W 840 70DEG IP65

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 dm³

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.

References / Links

– For Guarantee see www.ledvance.com/guarantee

DISCLAIMER

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