

# Long Range High Bay Sensor

*Plug & play Type*



EFS106-BH4-W



EFS106-AUX-W



EFS106-Z10-W

mating receptacle(not included in the product package)



BH4W



SC01-AUX



Zhaga-Z10



## FEATURES

Lumenativ EFS106-BH4-W, EFS106-AUX-W and EFS106-Z10-W sensors are designed for mating with Lumenativ BH4W or SC01 or Zhaga receptacles to enable Bluetooth wireless luminaire level lighting control (LLLC) of commercial outdoor luminaires.

- Daylight harvesting + PIR sensing technology with **AlgoH™** algorithm to maximize detection for high bays up to 40 feet without false triggers
- 4-pin design enables color-tuning
- Replaceable lens
- IP65 waterproof
- Ideal for Outdoor Use/Wet Location
- UV-Protection Nylon Housing
- Black/White Finish
- Enhanced long range antenna, Bluetooth Transmit range: 164ft max.

**Note:**

- Lens NOT included, requires lens such as Keilton HBL1-2-B. Sold separately. Other lenses available.
- Requires Dim-to-Off LED drivers
- Requires Keilton BH4W/SC01/Zhaga receptacle

## SPECIFICATIONS

Input Voltage: DC 12V  
 Input Current: 50mA Max  
 Input Power: 0.6W  
 Output Current: 10mA Max  
 Output Power: 0.1W  
 Dimming: Class 2, 0-10V DC 10mA Max  
 Sinking Current: 10mA Max

Bluetooth Transmit: 164ft Max  
 Radio Frequency: 2.4GHz ± 75MHz

Bluetooth Version: 4.2

Housing Material: UL 94-5VA,

Outdoor Use

Detection Range: 40-80ft

Mounting Height: 20-40ft

Operating Temperature: -30°C to 55°C,  
 -22°F to 131°F

Storage Temperature: -30°C to 85°C,  
 -22°F to 185°F

IP Rating: IP65/Wet Location

Color: White/Black

Warranty: 5 years warranty

Complies to UL8750, UL1376, RoHS

Compliant Standard Interfaces:

Zhaga book 18

Safety: cULus Listed LED Controller  
 E504054

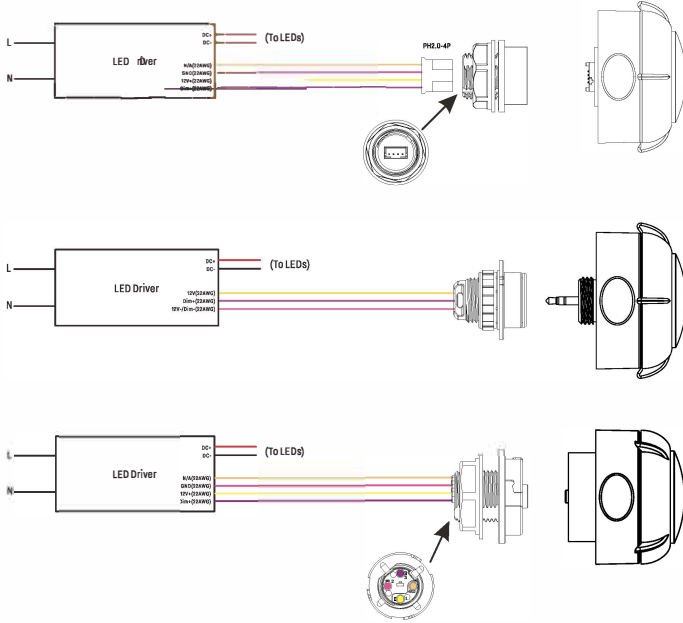
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DID: D057145

DLC: NLTRC5KLOTN

MODEL	DESCRIPTION
EFS106-BH4-W	Long Range Plug and Play High Bay Sensor - BH4 Base
EFS106-AUX-W	Long Range Plug and Play High Bay Sensor - 3.5mm Audio Jack Base
EFS106-Z10-W	Long Range Plug and Play High Bay Sensor - Zhaga Base

**WIRING**



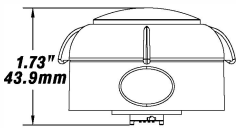
1/2 inch US standard knockout

AMERICAN INCH PRODUCTS		
Size	T.P.I	Major Dia.
R1/2	14	0.825

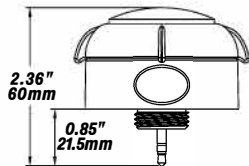
**DIMENSIONS**

Unit:inch/mm

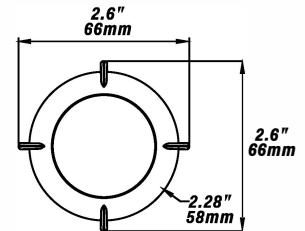
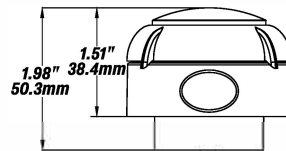
**EFS106-BH4-W**



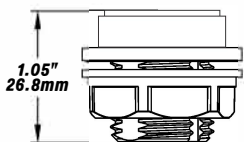
**EFS106-AUX-W**



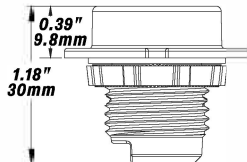
**EFS106-Z10-W**



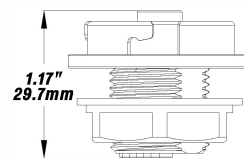
**BH4W**



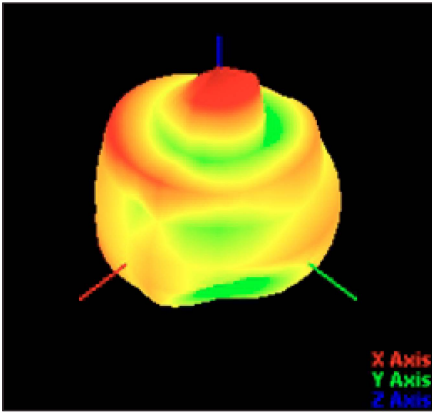
**SC01-AUX**



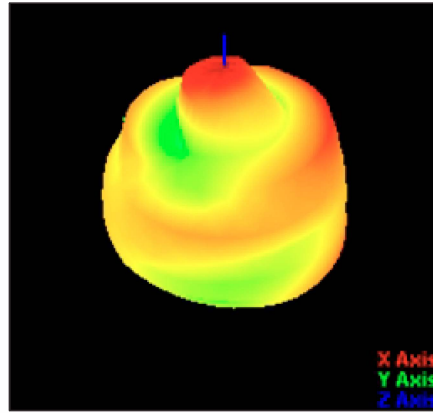
**Z10**



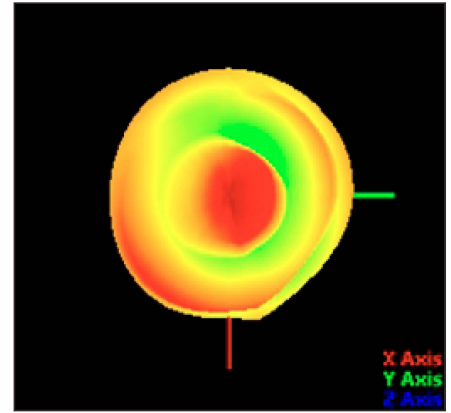
**TRANSMISSION**



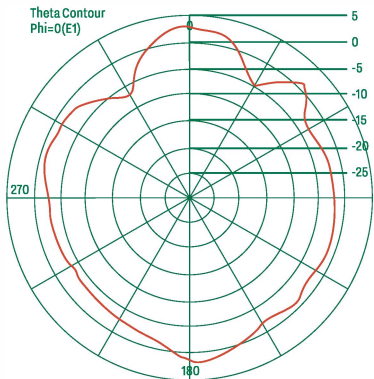
T45-P45



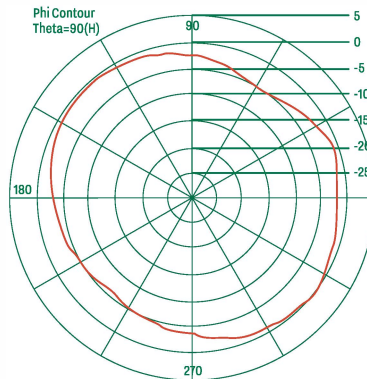
T45-P225



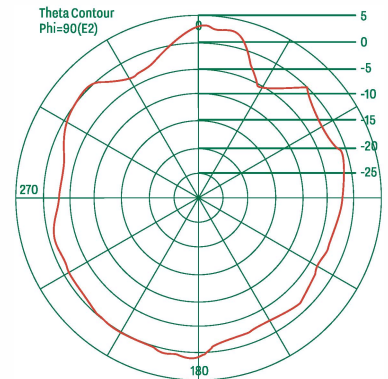
T0-P0



XOZ



XOY



YOZ

Wireless Signal Strength	
Transmission Distance	RSSI(dbm)
32.8ft(10m)	-55
65.6ft(20m)	-65
98.4ft(30m)	-64
131.2ft(40m)	-61
164ft(50m)	-72



3.68  
2.64  
1.59  
0.55  
-0.49  
-1.53  
-2.57  
-3.62  
-4.66  
-5.7  
-6.74  
-7.79  
-8.83  
-9.87  
-10.91  
-11.96  
-13  
-14.04

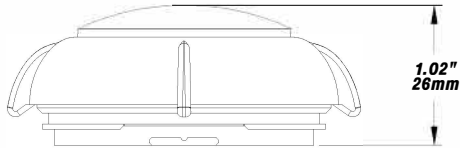
Co ordination System Description:  
Line Colr XYZ Theta-Phi  
Red L. Axis X Theta90-Phio  
Green L. Axis Y Theta90-Phi90  
Blue L. Axis Z Theta0

Note: The test transmission distance of two EFS106-W

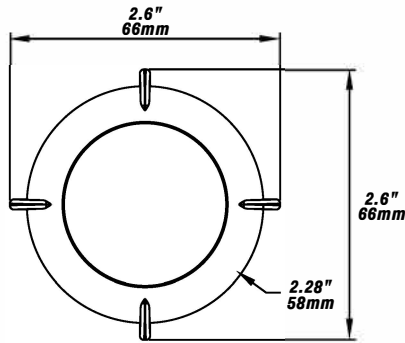
## DIMENSIONS

Unit: inch/mm

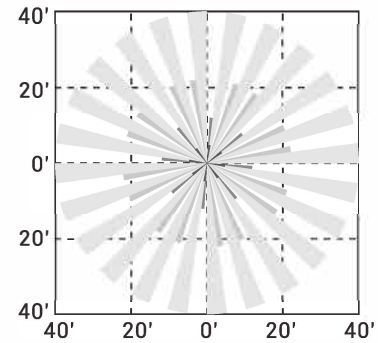
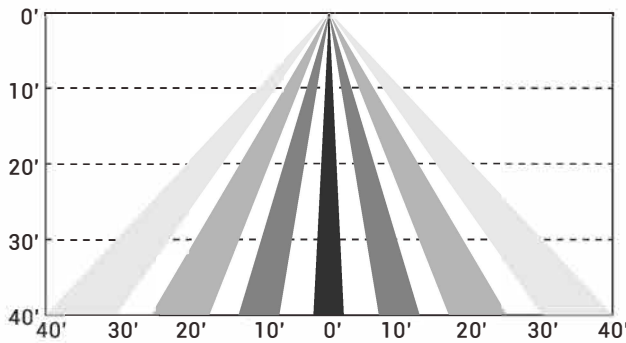
**HBL1**



Coverage Side View

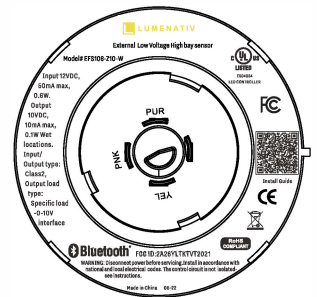
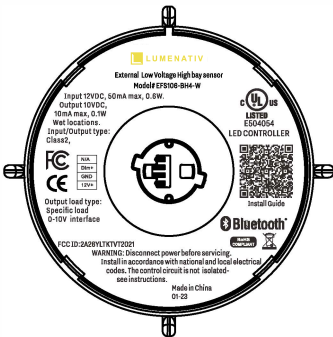


Coverage Top View



Height 40ft

## MARKING



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