

Product Specifications



USHIBAY450WEGEL

FEATURES

- System Light Efficacy 120 LPW
- · Flexible, Modular Design
- · Easy Installation & Maintenance
- IP66
- Five Years Warranty
- ETL, CE, RoHS, CB, WEEE

TYPICAL APPLICATIONS

- Warehouse/Manufacturing Facilities
- Convention Centers/Sporting Arenas
- Big-Box Retail Stores
- Cold Storage Facilities
- Gymnasiums

SPECIFICATIONS

PERFORMANCE

LED Chip OSRAM
Lumen Output (IES) 54,000 lm
Power Consumption 450 W
Efficacy (IES) 120 lm/W

Beam Angle 70/135°, 30/100°, 90°,110°,150°,

60/100°

Color Temperature 4500~5500K (2500~5500K Optional)

CRI ≥70

Lumen Maintenance L70>100,000 hours

(Calculated Using TM-21 Calculator)

Input Voltage 100-277 VAC (347/480 VAC Optional)

Dimming Optional

Power Factor 0.95 minimum

ENVIRONMENTAL

IP Rating IP66

Operating Temperature $-30 \text{ to } 45^{\circ}\text{C} \text{ (-22 to } 113^{\circ}\text{F)}$ Storing Temperature $-40 \text{ to } 80^{\circ}\text{C} \text{ (-40 to } 167^{\circ}\text{F)}$

Humidity 15% to 95% RH

PHYSICAL

Dimensions (L×W×H) 1065×365×224 mm (41.9×14.4×8.8 in)

(U Bracket)

Weight 21.0 kg (46.3 lbs) (U Bracket)

Mounting Options Hook/Chain Mount, Surface Mount

Universal Hanging Bracket

Fixture Material Aluminum Alloy

WARRANTY 5 Years







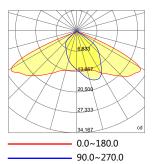


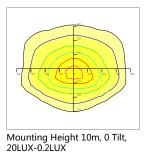




Photometrics

70×135 DEGREE LENS (Forward 5°)







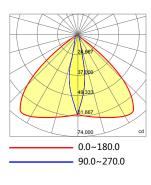
Beam Angle (50% max) 70×135 DEG

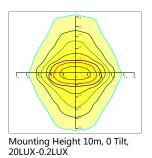
Luminous Flux (IES) 54,000 lm

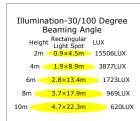
Light Efficacy (IES) 120 lm/W

Cutoff Classification Cutoff

30×100 DEGREE LENS







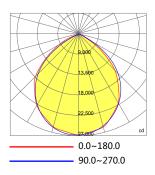
Beam Angle (50% max) 30×100 DEG

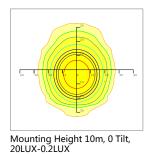
Luminous Flux (IES) 54,000 lm

Light Efficacy (IES) 120 lm/W

Cutoff Classification Cutoff

90 DEGREE LENS





Beam Angle (50% max) 90 DEG

Luminous Flux (IES) 54,000 lm

Light Efficacy (IES) 120 lm/W

Cutoff Classification Cutoff







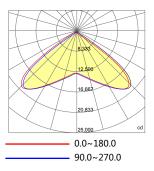


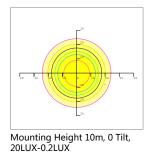




Photometrics

110 DEGREE LENS





Illumination-110 Degree
Beaming Angle
Height Rectangular
Light Spot
2m 4.0×4.3m 3083LUX
4m 8.0×8.6m 771LUX
6m 12.0×13.0m 343LUX
8m 15.9×17.3m 193LUX
10m 19.9×21.6m 123LUX

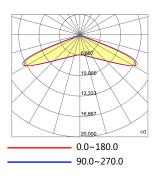
Beam Angle (50% max) 110 DEG

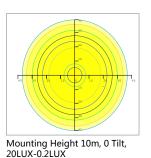
Luminous Flux (IES) 54,000 lm

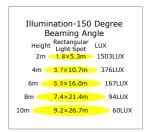
Light Efficacy (IES) 120 lm/W

Cutoff Classification Cutoff

150 DEGREE LENS







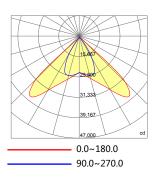
Beam Angle (50% max) 150 DEG

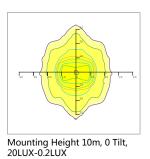
Luminous Flux (IES) 54,000 lm

Light Efficacy (IES) 120 lm/W

Cutoff Classification Cutoff

60 x 100 DEGREE LENS







Beam Angle (50% max) 60x100 DEG

Luminous Flux (IES) 54,000 lm

Light Efficacy (IES) 120 lm/W

Cutoff Classification Cutoff













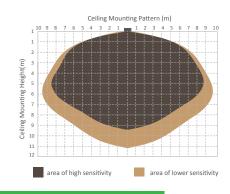
Microwave Sensor & Dimmer Option

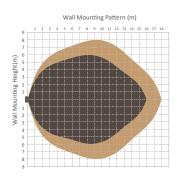






Technical Data						
Operating voltage	120-277V	Standby power	approx. 0.5W			
Switched power	Max.capacitive load: 800W @277V, 400W@120V	Heating time	20s			
Detection area	10/50/75/100%, can be customized	Sensor principle	Microwave motion			
Hold time	5S/30S/1min/5min/10min/20min/30min, can be customized	Microwave frequency	5.8GHz+/-75MHz			
Standby period	0s/10s/1min/5min/10min/30min/1h/+∞can be customized	Microwave power	<0.2mw			
Standby dimming level	10%/20%/30%/50% can be customized	Detection range	Max. (φxH):18m x 10m			
Daylight threshold	2~50lux daylight/twilight/darkness, can be customized	Detection angle	30° ~ 150°			
Operating temperature	-35°C ~ +70°C	Mounting height	Max.10m			
IP rating	IP20, IP65(mounting in Hytronik special box)	Certificate	ETL, FCC			





	De	tectic	n Area	Hold-time			Daylight Sensor		Stand-by Period (Corridor function)			Stand-by Dimming Level						
	1	2		1	2	3		1	2		1	2	3		1	2		
1	•	•	100%	•	•	•	5s	•	•	Disable	•	•	•	0s	•	•	10%	
П	•	0	75%	•	•	0	30s	•	0	50lux	•	•	0	10s	•	0	20%	
Ш	0	•	50%	•	0	•	1min	0	•	10lux	•	0	•	1min	0	•	30%	•
IV	0	0	10%	•	0	0	5min	0	0	2lux	•	0	•	5min	0	0	50%	Ħ
V				0	•	•	10min				0	•	•	10min				ŏ
VI				0	•	0	20min				0	•	0	30min				0
VII				0	0	0	30min				0	0	•	1h				
VIII											0	0	0	+∞				

- Detection can be reduced by selecting the combination on the DIP switches to fit precisely for each specific application.
- area 2 Hold-time means the time period you would like to keep the lamp on 100% after the person has left the detection area.
- threshold can be set on DIP switches, to fit particular for application.
- period you would like to keep at the low light output level before it is completely switched off in the long absence of people. Note: 0 means on/off control; +∞ means 2 steps of dimming control, fixture never switch off.
- daylight 4 This is the time 5 This is the dimmed low light output level you would like to have after the hold-time in the absence of people.













Infrared Sensor & Dimmer Option





Technical Data							
• 120/277 VAC, 50/60Hz	 Sensitivity: None, Low, Med, Max; Default Max 						
- Load @120 VAC 0-800W Ballast or Incandescent	 Setpoint: None, 1-250 fc, Auto; Default 4 fc 						
- Load @277 VAC 0-1200W Ballast	 Ramp up time: None, 1-60 sec.; Default None 						
 230 VAC, 50Hz; Load 0-300W Ballast 	 Fade Down Time: None, 1-60 sec.; Default None 						
 Relay Life Rating: 200,000 Cycles (120/277 VAC); 	 Operating Temperature: -40-167°F (-40-75°C) 						
50,000 Cycles (230 VAC)	Operating Humidity: 20-90%						
High Mode: 0-10 V; Default 10 V	• Weight: 2.8 oz (80 grams)						
Low Mode: Off, 0-9.8 V; Default 1 V	IP66, CE Compliant						
• Time Delay: 30 Sec., 5-30 min.; Default 5 min.	TUV, UL and cUL Listed						
• Cut Off Delay: None, 1-60 min. 1-5 hrs.; Default 1hr.	Five Year Warranty						

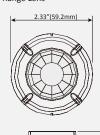
Coverage Pattern

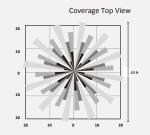
Density and range of the coverage pattern are determined by the type of lens and mounting height

L3: 360° Coverage

L3 has a high density lens that covers a 40^{\prime} diameter area at a height of 20^{\prime} .

FSP-L3 High Density/Reduced Range Lens





Coverage Side View

5
10
12
20
20
18 15 12 9 6 3 0 3 6 9 12 15 18 20

20 18

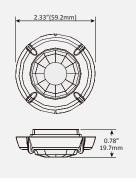
Setting

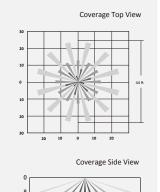
Refer to Dimmer&Remotion operation guidance.

L2: 360° Coverage

L2 lens provides a 44' diameter coverage area when mounted at a height of 8'.

L2 Low Density/Wide Range Lens

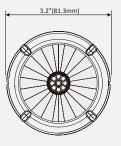


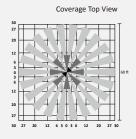


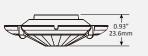
L4: 360° Coverage

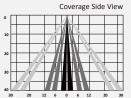
L4 is designed for mounting at heights between 30' to 40'. Its coverage area can be up to 60' in diameter when mounted at 40'.

L4 40 Foot High Bay Lens















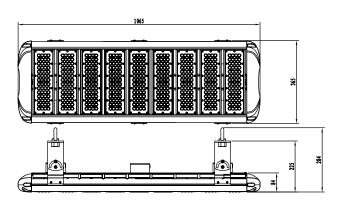






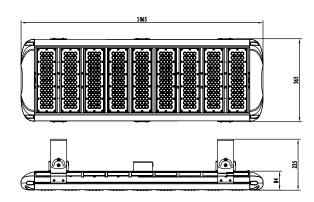
U Bracket+Hanging Ring





U Bracket, Long Axiel Mount





Surface Mount Bracket 310 1065









