

OWL15

OUTDOOR WALL LIGHT SPECIFICATIONS



WATT/CCT
SELECTABLE



Job Information	
Project Name	
Type	
Location	
Quantity	
Date	

OVERVIEW

- 70W/120W/165W and over 151 lm/W.
- IP65 and IK09 rating.
- High efficiency LED Driver, the wide range input voltage AC120-277V / 277-480V.
- Wireless Bluetooth system and motion sensor control available (Optional).
- Photocell is a standard feature for 70W and 120W only
- 12Vdc auxiliary dimming
- The 0-10V Dimming type is continuous.
- 5 years warranty.
- Dark Sky Approved when $\leq 3000K$

DESCRIPTION

OWL15 is a versatile lighting solution designed for indoor and outdoor use, including wet locations. Ideal for museums, art galleries, shopping malls, and office buildings, these sleek fixtures combine aesthetics with high-performance LED technology. With a focus on energy efficiency, durability, and a stylish design, this product is perfect for enhancing architectural spaces and providing reliable illumination in any environment. Illuminate your surroundings with confidence and efficiency using our LED Architectural Wall Pack series.

PERFORMANCE

WATTAGE	28W	42W	56W	70W	48W	72W	96W	120W	66W	99W	132W	165W
LUMENS	4760lm	6880lm	8601lm	11124lm	7800lm	11288lm	14627lm	18550lm	11435lm	16481lm	21269lm	25339lm
EFFICACY	>151 lm/W				>151 lm/W				>160 lm/W			
CCT	3000K, 4000K, 5000K				4000K, 5000K				3000K, 4000K, 5000K			
CRI	70											
INPUT VOLTAGE	AC120-277V/277-480V											
BEAM ANGLE	Type II/Type III/ Type IV/ Type V											
POWER FACTOR	0.9											
DRIVER EFFICACY	$\geq 89\%$											
FACTORY SETTING	70W & 4000K				120W & 4000K				165W & 4000K			
LUMEN MAINTENANCE	ANSI/IES LM80-15 lumen maintenance L70 51000 HRS L90 102000 HRS											
WORKING TEMPERATURE	-22°F~113°F											
STORAGE TEMPERATURE	-40°F~176°F											
ENVIRONMENT	Wet location, IP65, IK09											
CABLE	3 core, 18AWG (0.3m)											
WARRANTY	5 Years											
DIMMING	1-10V											

PERFORMANCE

28W/42W/46W/70W																		
TYPE	28W (TESTED LIGHT OUTPUT)									42W (TESTED LIGHT OUTPUT)								
POWER	TYPE III			TYPE IV			TYPE V			TYPE III			TYPE IV			TYPE V		
DISTRIBUTION	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
CCT	4566	4760	4734	4498	4727	4688	4519	4741	4703	6452	6880	6746	6411	6816	6700	6424	6831	6715
LUMENS	>160	>170	>165	>157	>170	>163	>158	>170	>164	>152	>168	>158	>151	>166	>157	>151	>166	>157
EFFICACY																		

46W (TESTED LIGHT OUTPUT)																		
TYPE	46W (TESTED LIGHT OUTPUT)						70W (TESTED LIGHT OUTPUT)											
POWER	TYPE III			TYPE IV			TYPE V			TYPE III			TYPE IV			TYPE V		
DISTRIBUTION	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
CCT	4566	4760	4734	4498	4727	4688	4519	4741	4703	6452	6880	6746	6411	6816	6700	6424	6831	6715
LUMENS	7918	8601	8249	7864	8440	8192	7883	8460	8211	9911	11124	10580	9553	10751	10163	9573	10764	10568
EFFICACY	>146	>163	>151	>145	>162	>150	>145	>162	>150	>140	>160	>150	>135	>155	>145	>135	>155	>150

48W/72W/96W/120W													
TYPE	48W (TESTED LIGHT OUTPUT)						72W (TESTED LIGHT OUTPUT)						
POWER	TYPE III		TYPE IV		TYPE V		TYPE III		TYPE IV		TYPE V		
DISTRIBUTION	4000K	5000K	4000K	5000K	4000K	5000K	4000K	5000K	4000K	5000K	4000K	5000K	
CCT	7800	7870	7735	7823	7745	7843	11288	11330	11153	11195	11223	11247	
LUMENS	>158	>156	>157	>155	>158	>156	>155	>151	>153	>149	>154	>150	
EFFICACY													

96W (TESTED LIGHT OUTPUT)													
TYPE	96W (TESTED LIGHT OUTPUT)						120W (TESTED LIGHT OUTPUT)						
POWER	TYPE III		TYPE IV		TYPE V		TYPE III		TYPE IV		TYPE V		
DISTRIBUTION	4000K	5000K	4000K	5000K	4000K	5000K	4000K	5000K	4000K	5000K	4000K	5000K	
CCT	14627	14487	14429	14324	14505	14366	18550	17974	17873	17373	17342	16869	
LUMENS	>151	>143	>149	>142	>150	>142	>155	>150	>150	>145	>145	>140	
EFFICACY													

66W/99W/132W/165W																		
TYPE	66W (TESTED LIGHT OUTPUT)									99W (TESTED LIGHT OUTPUT)								
POWER	TYPE III			TYPE IV			TYPE V			TYPE III			TYPE IV			TYPE V		
DISTRIBUTION	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
CCT	10762	11435	11430	10451	11078	11024	10694	11366	11333	15344	16481	16128	14818	15933	15584	15176	16343	15976
LUMENS	>160	>175	>170	>155	>170	>165	>160	>175	>170	>155	>170	>160	>150	>165	>157	>150	>170	>160
EFFICACY																		

132W (TESTED LIGHT OUTPUT)																	
TYPE	132W (TESTED LIGHT OUTPUT)						165W (TESTED LIGHT OUTPUT)										
POWER	TYPE III		TYPE IV		TYPE V		TYPE III		TYPE IV		TYPE V						
DISTRIBUTION	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K					
CCT	19532	21269	20530	19028	20637	19725	19411	21118	20247	23295	25339	23826					
LUMENS	>145	>165	>153	>143	>160	>150	>145	>160	>150	>140	>160	>140					
EFFICACY																	

85°C , 100mA LUMEN MAINTENANCE

NO OF HOURS	1000 HRS	25000 HRS	50000 HRS	100000 HRS
LUMEN MAINTENANCE FACTOR	1	>0.96	>0.92	>0.85

THD AND PF TEST ACCORDING TO ANSI C82.77 @ 60Hz

CCT SETTING	VOLTAGE	CURRENT	WATTAGE	POWER FACTOR	ITHD (%)
3000K	120	5956	70.63	0.9882	8.74
	277	0.2668	69.2	0.9364	8.81
4000K	120	0.5849	69.34	0.988	8.52
	277	0.2631	68.23	0.9363	8.66
5000K	120	0.5904	70.01	0.9882	8.69
	277	0.2532	69.32	0.9882	8.78
4000K	120	0.9948	119.12	0.9979	2.79
	277	0.4184	110.46	0.953	9.06
5000K	120	0.9995	119.7	0.998	2.57
	277	0.4198	110.83	0.9532	8.92

PRODUCT ORDERING GUIDE

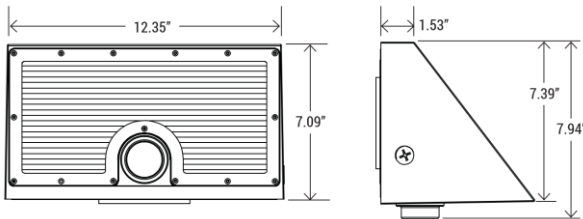
EXAMPLE: OWL15-UNV-70-3C-R3-N-D-B15-BIPR

SERIES	VOLTAGE	WATTAGE (SELECTABLE)	CCT (SELECTABLE)	DISTRIBUTION	CONTROL	FINISH	OPTIONS
OWL15	UNV: 120-277VAC 480: 277-480VAC	70: 28/42/56/70W	3C: 3000/4000/5000K	R2: TYPE II	N: NONE	D: DARK BRONZE	BL15 ☉
		120: 48/72/96/120W	2C: 4000/5000K	R3: TYPE III	M: MOTION SENSOR	W: WHITE	BL20 ☉
		160: 66/99/132/165W	3C: 3000/4000/5000K	R4: TYPE IV R5: TYPE V	P: PHOTOCELL ☉	B: BLACK S: SILVER	BL8LT: LOW VOLTAGE LOW TEMPERATURE BATTERY BACKUP 8W ☉ BL15LT: LOW VOLTAGE LOW TEMPERATURE BATTERY BACKUP 15W ☉ BL20LT: LOW VOLTAGE LOW TEMPERATURE BATTERY BACKUP 20W ☉ B8: BATTERY BACKUP 8W B15: BATTERY BACKUP 15W B20: BATTERY BACKUP 20W B25: BATTERY BACKUP 25W BTMWSR: BLUETOOTH MICROWAVE FIXTURE SENSOR (SILVAIR BLUETOOTH) BTMWGE: BLUETOOTH MICROWAVE FIXTURE SENSOR (GEBE BLUETOOTH) BIMW: BI-LEVEL MICROWAVE SENSOR BIPR: BI-LEVEL PIR MOTION SENSOR RC100: REMOTE CONTROLLER ☉ BRIGE: 4-BUTTON WIRELESS WALL SWITCH ☉ JBX: MOUNTING BASE BOX ☉

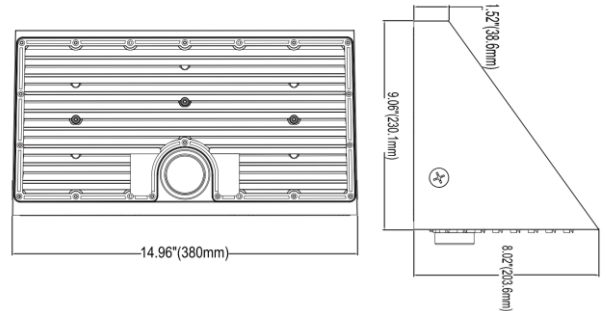
- ☉ No photocell option for 480VAC
- ☉ For 70W/120W Models only
- ☉ CAN BE USED FOR BIMW AND BIPR
- ☉ CAN ONLY BE USED FOR BTMWGE
- ☉ FOR 165W OPTION ONLY

DIMENSIONS

70W, 120W



165W



FEATURES

Optics

Full cut-off design ensures a low UGR outcome and a dark-sky friendly option for outdoor lighting. Excellent optics design, greatly improve the light utilization and evenness.

Electrical

Voltage 120-277Vac / 277-480Vac
THD <20%
Power Factor >0.9

Environment & Certifications

cULus and DLC listed for wet locations

Warranty

5 years limited warranty

Chip

Powered by high efficiency Nichia LED chip.

Finish

The powder-coated finish ensures a uniform appearance, offering long-term durability and superior aesthetics.

Housing Material

Die-cast aluminum housing ensures durability and efficiency, with heat resistance polycarbonate lens.

LED System

CRI With an option of 80 color rendering index (CRI), this product delivers adequate illumination, featuring tight chromatically specifications and a precise color binning process to ensure consistency in CRI and CCT.

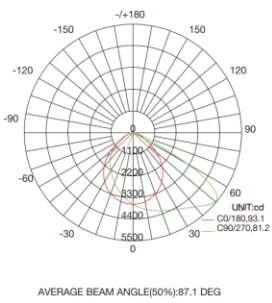
CCT Selectable CCT with excellent color consistency.

Thermal Management Great heat dissipation. High performance, die-cast heat sink transfers heat from the light engine to the environment, drawing heat away from the fixture, and extending the lifespan of the LEDs.

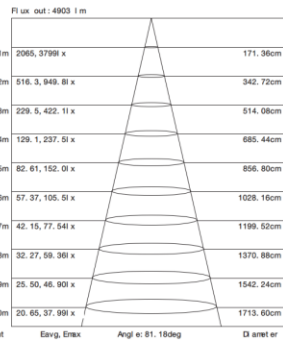
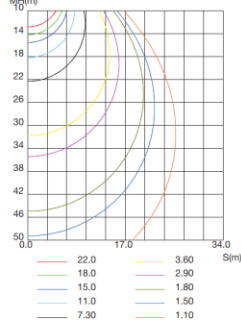
PHOTOMETRIC DIAGRAM

TYPE III, 70W @ 5000K

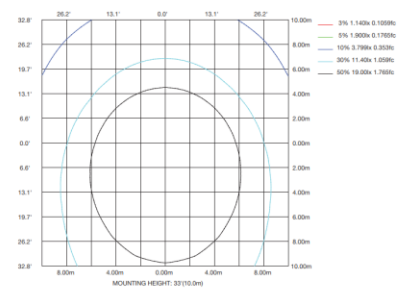
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



CO PLANE ISOLUX DIAGRAM (UNIT:lx)

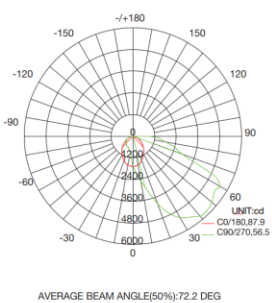


ISOLUX DIAGRAM

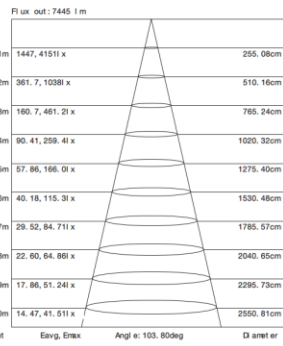
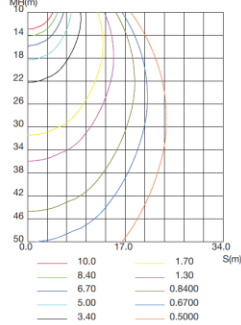


TYPE IV, 70W @ 5000K

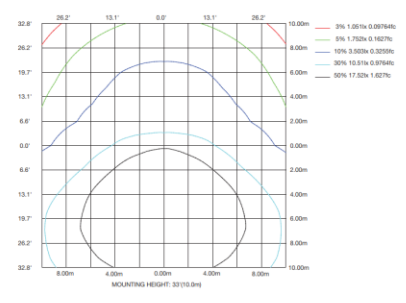
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



CO PLANE ISOLUX DIAGRAM (UNIT:lx)

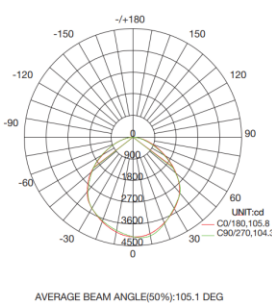


ISOLUX DIAGRAM

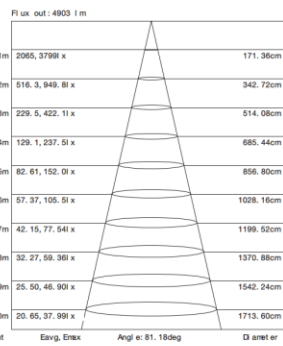
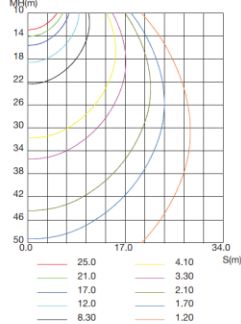


TYPE V, 70W @ 5000K

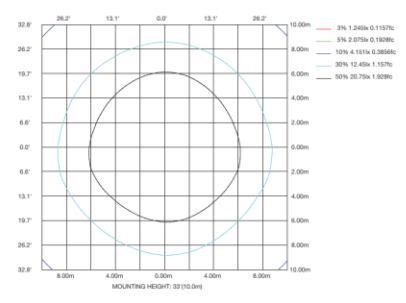
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



CO PLANE ISOLUX DIAGRAM (UNIT:lx)



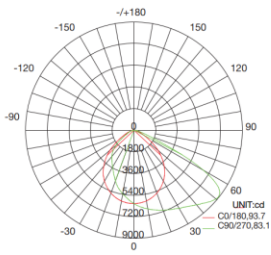
ISOLUX DIAGRAM



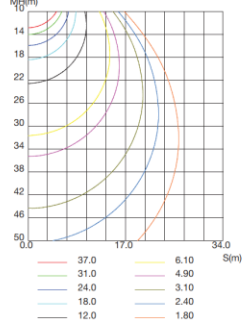
PHOTOMETRIC DIAGRAM

TYPE III, 120W @ 5000K

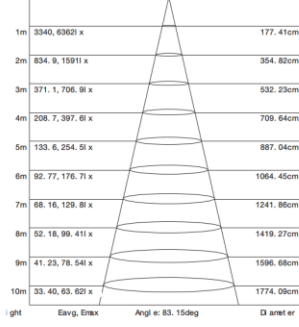
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



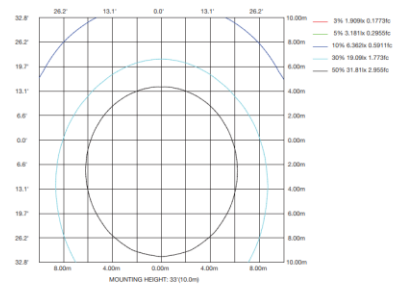
CO PLANE ISOLUX DIAGRAM (UNIT:lx)



Flux out: 8506 l m

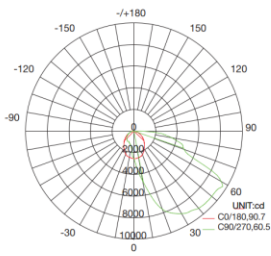


ISOLUX DIAGRAM

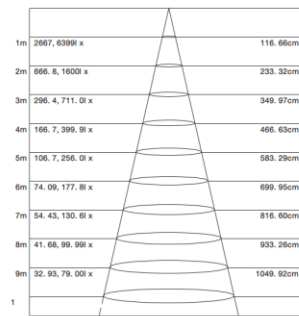
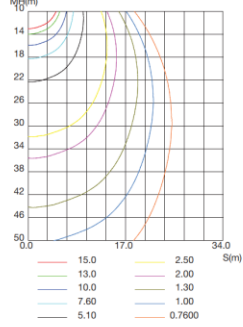


TYPE IV, 120W @ 5000K

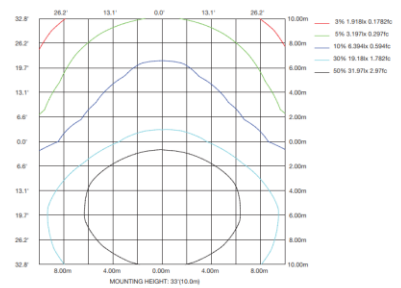
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



CO PLANE ISOLUX DIAGRAM (UNIT:lx)

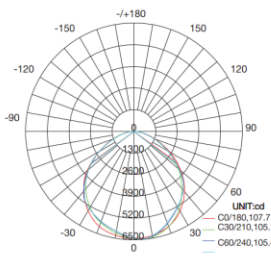


ISOLUX DIAGRAM

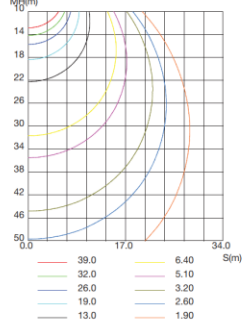


TYPE V, 120W @ 5000K

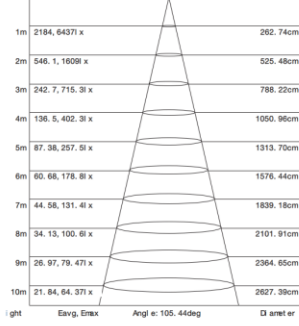
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



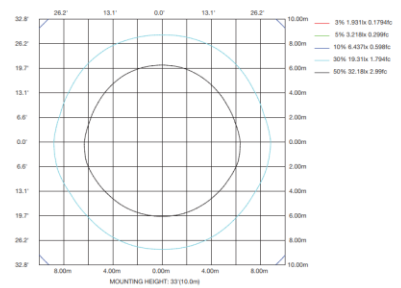
CO PLANE ISOLUX DIAGRAM (UNIT:lx)



Flux out: 12086 l m



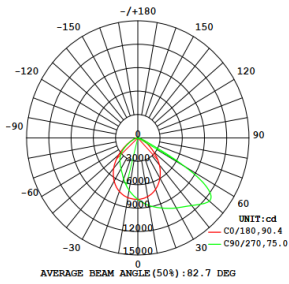
ISOLUX DIAGRAM



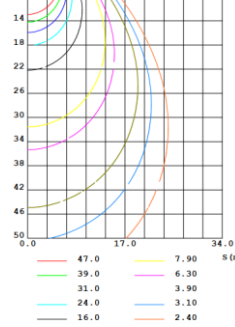
PHOTOMETRIC DIAGRAM

TYPE III, 165W @ 5000K

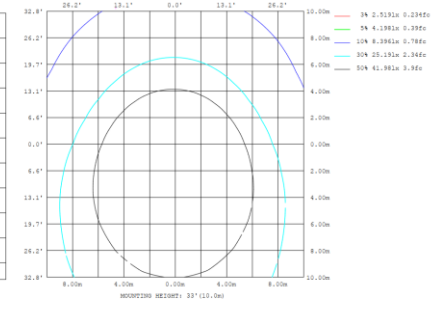
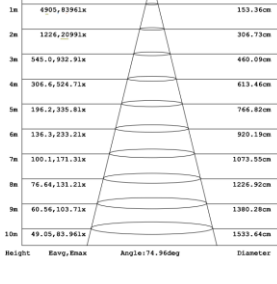
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)

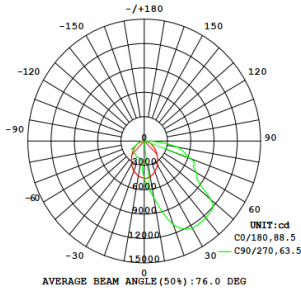


Flux out: 9406 lm

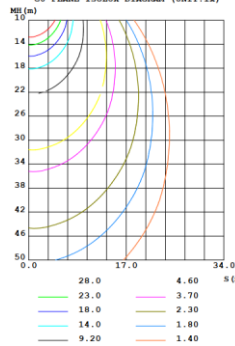


TYPE IV, 165W @ 5000K

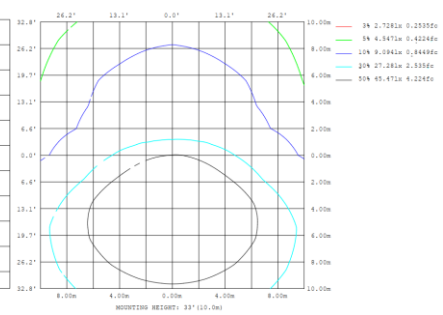
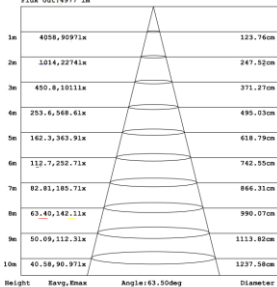
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)

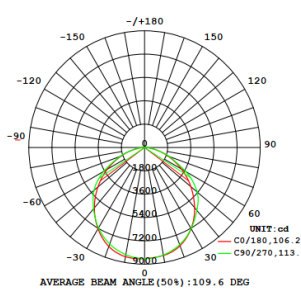


Flux out: 4977 lm

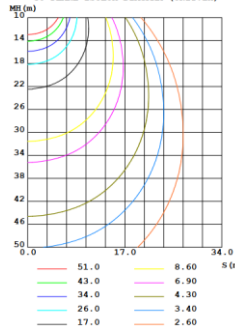


TYPE V, 165W @ 5000K

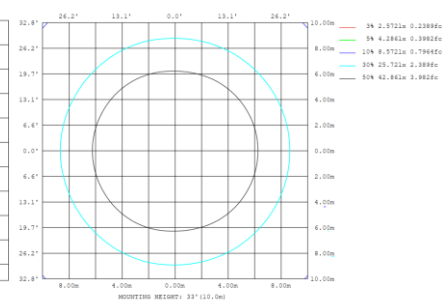
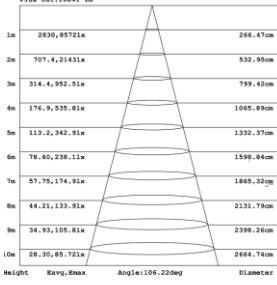
LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



Flux out: 16841 lm



OPTIONS (SOLD SEPARATLY)



BL15/BL20

15W/20W Emergency Backup Battery LED Driver
Low voltage (120-277Vac)
Luminaire models: 70W/120W



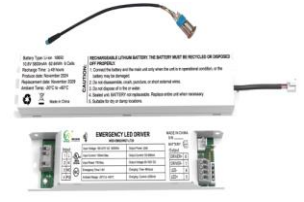
BL8LT

8W Low Temperature Emergency Backup Battery LED Driver
Low voltage (120-277Vac)
Temperature Rating (Ambient)
-20°C to 60°C (-4 °F to 140°F)
Luminaire models: 70W/120W



BL15LT

15W Low Temperature Emergency Backup Battery LED Driver
Low voltage (120-277Vac)
Temperature Rating (Ambient)
-20°C to 60°C (-4 °F to 140°F)
Luminaire models: 70W/120W



BL20LT

20W Low Temperature Emergency Backup Battery LED Driver
Low voltage (120-277Vac)
Temperature Rating (Ambient)
-20°C to 60°C (-4 °F to 140°F)
Luminaire models: 70W/120W



B8

8W Emergency Backup Battery LED Driver
Luminaire models: 70W/120W/165W



B15

15W Emergency Backup Battery LED Driver
Luminaire models: 70W/120W/165W



B20

20W Emergency Backup Battery LED Driver
Luminaire models: 70W/120W/165W



B25

25W Emergency Backup Battery LED Driver
Luminaire models: 70W/120W/165W



BTMWSR

Bluetooth Microwave Fixture Sensor (Silvair Bluetooth)



BTMWGE

Bluetooth Microwave Fixture Sensor (GEBC Bluetooth)



BIMW

Bi-level microwave sensor



BIPR

Bi-PIR motion sensor



RC100

Remote Controller (Can be used for BIMW and BIPR)



BRIGE

4-Button Wireless Wall Switch (Can only be used for BTMWGE)



JBOX

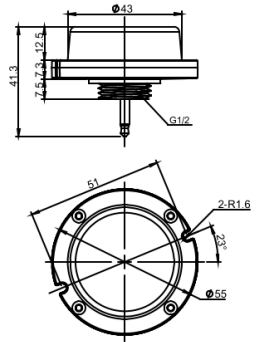
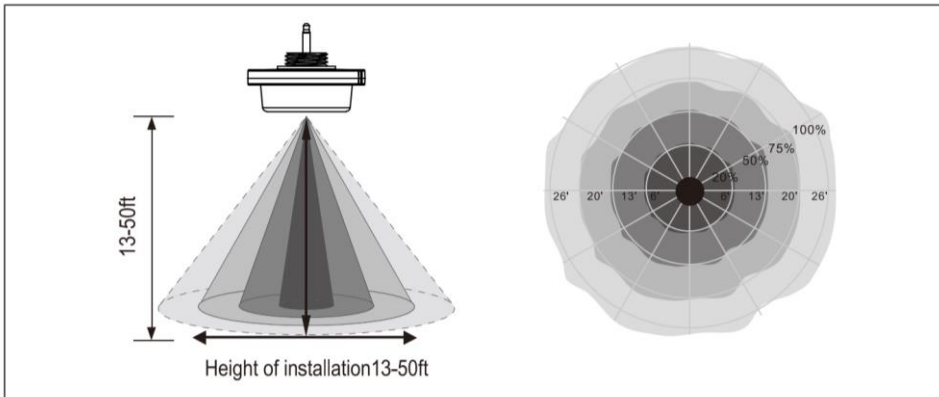
Mounting base box for 165W fixture



Mounting Base Box

Bi-level Microwave Motion Sensor

SENSOR COVERAGE



⚠ WARNING

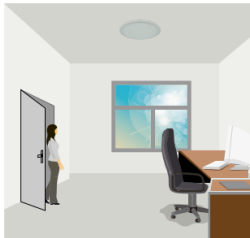
NOTE: Warm up time is 15 seconds. After the sensor connects input power first time, the light will keep on 15 seconds, then go to dimming to work normally.

NOTE: Factory Default Setting: 100% sensitivity, Hold on time: 5 min, Daylight sensor is Kit, Dimming level: 30%, Dimming time: 60 minutes.

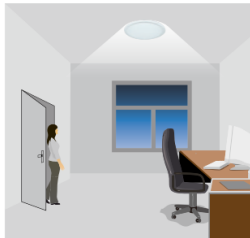
NOTE: Any setting changed by remote control, the led light that sensor connect will on/off as confirm.

CORRIDOR FUNCTION

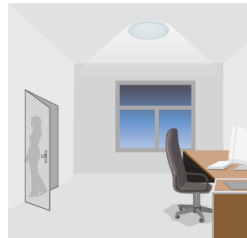
This function inside the motion sensor to achieve tri-level control, for some areas which require a light change notice before switch-off. The sensor offers 3 levels of light: 100% --> dimmed light (natural light is insufficient) --> off; and 2 periods of selectable waiting time: motion hold-time and stand-by period; Selectable daylight threshold and freedom of detection area.



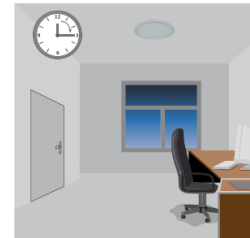
With sufficient natural light the light does not switch on when presence is detected.



With insufficient natural light, the sensor switches on the light automatically when presence is detected.



After hold-time, the light dims to stand-by level if the surrounding natural light is below the daylight threshold.



Light switches off automatically after the stand-by period elapses.

Bi-level Microwave Motion Sensor

DAYLIGHT SENSOR FUNCTION

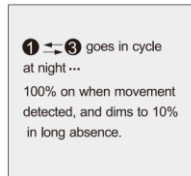
Open the daylight sensor by pushing **Ⓜ** when remote control is in setting condition.



The light switches on at 100% when there is movement detected.

The light dims to stand-by level after the hold-time.

The light remains in dimming level at night.

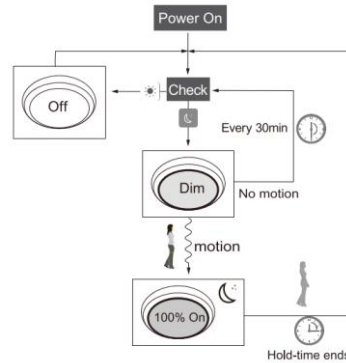


When the natural light level exceeds off set-point, the light will turn off even if when the space is occupied.



The light automatically turns on at 10% when natural light is insufficient (no motion).

Settings on this demonstration:
 Hold-time: 30min
 On Set-point: 50lux
 Off Set-point: 300lux
 Stand-by Dim: 10%
 Stand-by period: +∞
 (when the smart photocell sensor open, the stand-by time is only +∞)



Features and Specifications:

Application:

The OWL15 is versatile and suitable for various outdoor lighting applications. It can be utilized for security lighting along building exteriors and to illuminate the perimeter, enhancing visibility and safety. Additionally, it's ideal for parking lot lighting, walkways, and paths, ensuring safe navigation for pedestrians and vehicles. Moreover, it's well-suited for loading docks and freight yards, providing adequate illumination for operations. Furthermore, it can serve as architectural accent lighting, enhancing the aesthetics of buildings. With medium lumens typically ranging from 3300 to 7100 lm, the OWL15 is commonly used for illuminating these areas effectively and efficiently.

Construction:

A standout feature of the OWL15 is its high-performance die-cast heat sink, effectively transferring heat from the light engine to the surrounding environment. This innovative design not only draws heat away from the fixture but also, significantly extends the lifespan of the LEDs. Crafted from premium die-cast aluminum, this cooling system ensures superior quality and enhanced cooling, maintaining LED junction temperatures below 85°C for optimal performance and durability.

Finish:

The OWL15 boasts a diverse array of finishes including dark bronze, white, black, and silver; providing options to suit various customer tastes. Utilizing advanced powder coating technology, these finishes are meticulously applied to ensure a smooth and beautiful outcome. This attention to detail enhances the aesthetics of the fixtures, elevating the appearance of any space while meeting the discerning preferences of our customers.

Optics:

The OWL15 optical lens, constructed with high-quality polycarbonate (PC) material, is engineered to deliver a soft and uniform lighting pattern. This material is chosen for its durability, clarity, and ability to diffuse light effectively, ensuring optimal performance and longevity of the lens. The light engine integrated into the OWL15 offers versatile lighting options with configurations available in 3000K, 4000K, and 5000K. This flexibility allows users to tailor the lighting to suit different environments, preferences, and tasks. One of the standout features of the OWL15 is its excellent optics design. This design has been meticulously crafted to enhance light utilization and distribution, resulting in improved efficiency and evenness across the illuminated area. By maximizing the utilization of light output, the OWL15 ensures that every corner of the space receives sufficient illumination without any glaring hotspots or shadows.

Electricals:

The OWL15 features LED technology with high luminous efficiency of 140lm/W at 4000K and a long working life of over 50,000 hours. Its high-efficiency LED driver supports wide input voltage (AC120-277V) with 90% efficacy and 0.90 power factor. Additionally, it offers continuous 1-10V dimming for adjustable brightness. This combination ensures reliable, energy-efficient lighting for diverse indoor applications.

Installation:

To install the OWL15 wall pack, start by unpacking and locating the mounting plate with the hook for hanging the luminaire during wire connections. Once found, hang the fixture from the mounting plate hook and connect the AC line, then tighten the mounting plate screws securely. For optimal installation and to prevent water or moisture from penetrating the fixture or electrical box, apply waterproof glue seal where the light encounters the wall. If there's a photocell on the side of the fixture, it can be pulled out or unscrewed. If removed, use the spare cap plug to cover the hole. For wiring guidance, refer to the wiring diagram provided in the datasheet accompanying the fixture. To adjust the wattage and CCT (correlated color temperature), consult the diagram in the datasheet for proper guidance.

Certificates:

The OWL15 proudly carries a UL certificate, providing assurance that the product meets both local and federal environmental and safety regulations. The UL Mark signifies that the manufacturer adheres to rigorous standards for quality and safety, offering peace of mind to consumers. Additionally, the OWL15 is ROHS compliant, holding a certificate that ensures compliance with regulations restricting the use of specific hazardous materials in electrical and electronic products (EEE). The OWL15 is designed as a wet location-rated product, making it an ideal outdoor lighting solution. Its robust construction ensures durability and reliability in various weather conditions. Moreover, the OWL15 holds DLC Premium approval, signifying its ability to offer enhanced energy savings while delivering superior light quality and controllability performance that surpass DLC Standard requirements. This certification highlights the product's efficiency, reliability, and adherence to stringent industry standards, making it an excellent choice for outdoor lighting applications where energy efficiency and performance are paramount. IFAM7 Ref. no. E354939-20220121, CSA C22.2 no. 205021.

Warranty:

Your purchase of the OWL15 includes a 5-year limited warranty and 1 year replacement warranty by distributor. This warranty covers any defects in materials or workmanship under normal use during the warranty period. However, it's important to note that the warranty does not cover failures caused by unprofessional installation or if the product has been installed in an environment other than that recommended by the manufacturer. The warranty period begins from the date of the issued invoice. This ensures that customers have coverage for a substantial period, providing peace of mind regarding the product's quality and reliability.

PLEASE READ ALL INSTRUCTIONS BEFORE ATTEMPTING INSTALLATION

To prevent personal injury or product damage only licensed electricians should install.

To avoid electric shock or component damage disconnect power before attempting installation or servicing.

This product must be installed in accordance with the national electric code (NEC) and all applicable federal, state and local electric codes and safety standards. Disconnect product and allow cooling prior to servicing.

Any alteration or modification of this product is expressly forbidden as it may cause serious personal injury, death, property damage and/or product malfunction.

To prevent product malfunction and/or electrical shock this product must be properly grounded.

This luminaire is designed to operate in ambient temperatures ranging from -30° c to 45° C.

Wall Pack only.

1. Unpacking

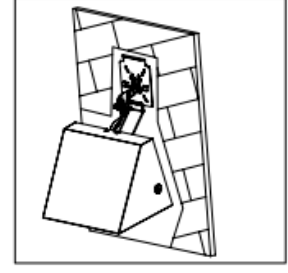
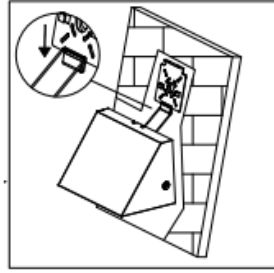
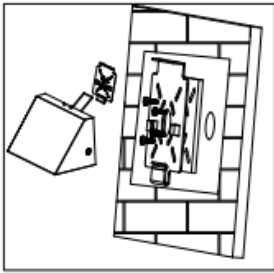
Thoroughly inspect the fixture for freight damage. Freight damage should be reported to the delivery carrier.

2. Installation

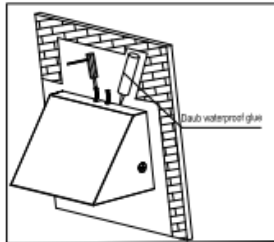
1. Remove the lamp and hook from the mounting plate and fix the mounting plate and waterproof foam on the wall

2. Hang the lamp on the mounting plate.

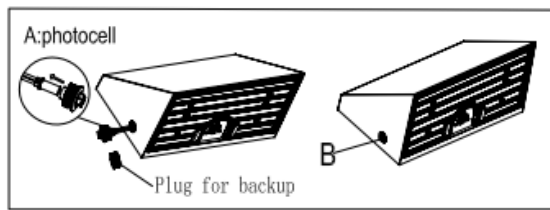
3. Connect the AC line of the lamp.



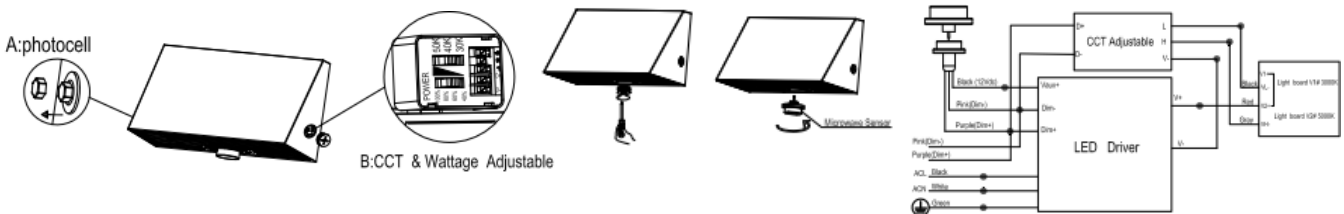
4. After hanging the lamp on the mounting plate and tightening the screws, put a waterproof glue seal between the bottom cover and the wall to prevent water from entering the lamp



5. If the user feels that the light control probe exposed by the bulge of the lamp is not beautiful and does not need the light control function, you can unscrew the light control plug as shown in Figure A, pull out the probe black rubber plug inside the plug and put it back into the lamp to replace the spare flat plug and tighten, as shown in Figure B.



Adjustable CCT, Wattage, and Microwave Installation Instructions



If you need the light photocell function, remove the light control cover B. For adjusting the CCT and the wattage, as shown in above picture, unscrew the plug, adjust wattage and the CCT as desired, and then tighten the plug .