



Cutlass LED - Wall Pack

Catalog Number	
Project	Type



SERIES	LENGTH HEIGHT & WIDTH
CTLW 2	11.79" x 6.12" x 12.09"

FEATURES & SPECIFICATIONS

APPLICATION — The high performance luminaire is designed for full cutoff applications where long life, low maintenance, and consistent color rendering are required. Areas with limited accessibility due to fixture location or where heavy pedestrian traffic makes maintenance difficult are ideal applications such as building facade lighting or wall mounted security lighting. The contemporary design style of the luminaire allows it to be seamlessly integrated into existing systems when necessary.

CONSTRUCTION — The heavy duty housing is constructed of die cast aluminum. The optical assemblies are sealed in place using a silicone gasket for weather tight protection. IP66 rating available upon request.

FINISH — A Super Durable Polyester E-coat powder coat finish is electrostatically applied in our state of the art paint facility. Standard colors available: Black, Bronze, US Green, White. Custom colors available upon request.

OPTICAL SYSTEM — Made with a state of the art UV stabilized acrylic high performance refractive optical assemblies that use high transmittance materials to achieve precise photometric distributions. Available in Type II, III, and IV beam configurations. Star Light Friendly (meets or exceeds Dark Sky requirements) in the horizontal position.

ELECTRICAL SYSTEM — Available in a high output LED system in 5000K Cool White (+/- 500K), 4000K Neutral White or 3000K Warm White color. Available with 90-300V 50/60 Hz Class II power supply. LED's rated for over 100,000 hours at 55°C ambient temperature. Available with 120~277V 50/60 Hz power supply. 480V and 347V input option. Built-in surge protection up to 6 kV. Built-in Active PFC Function LED driver conforms to UL8750 standards.

MOUNTING — Quick mount bracket connects to a standard J-Box. The bracket has a unique hanging feature to allow easy wire connections. After connections are made, the fixture swings down and is secured with two retaining screws at the bottom of the fixture.

LISTINGS — LED Driver listed for wet locations. LED bricks ETL listed for wet locations. Meets US and Canadian safety standards. -40°C to 50°C ambient operation.

ORDERING INFORMATION

Choose the bold face options for the appropriate luminaire configuration for your application and enter on the line above each fixture attribute. Accessories may be factory installed, depending on the particular accessory chosen, but still be ordered as a separate line item.

EXAMPLE:

CTLW 2 N 16L T4 1 BZ SCE

CTLW 2						
SERIES	COLOR TEMP/CCT	NOMINAL LUMENS ⁶	OPTICS	VOLTAGE	FINISH	OPTIONS
	C = Cool White (5000K) N = Neutral White (4000K) W = Warm White (3000K)	8L = 8,000 Lumens 10L = 10,000 Lumens 12L = 12,000 Lumens 14L = 14,000 Lumens 16L = 16,000 Lumens 18L⁶ = 18,000 Lumens	T2 = Type II T3 = Type III T4 = Type IV	1 = Multi-Volt ¹ 2 = 347-480V	BZ = Bronze BK = Black GR = US Green WH = White SP = Special ²	SCE = Side Conduit Entry (2 x 3/4"-14 NPS Conduit) IMS³ = Fixture Mount Passive Infrared Motion Sensor (IMS Lenses Below, Ordered Separately) TLWSFSP-L3⁴ = 360° lens, maximum coverage 40' diameter from 20' height (IMS) TLWSFSP-L7⁴ = 360° lens, maximum coverage 100' diameter from 40' height (IMS) PC3⁵ = Button Type Photocell 208-277V (1200W) P1000PC⁵ = Button Type Photocell 120V (1000W) HOEB = LED Battery Pack, 90 min HOEBCWB = LED Cold Weather Rated Battery Pack, 90 min, -20°C BDS12 = Bird-deterrent spikes IMSBTM⁷ = AC Powered Internal Network Wireless PIR & Daylight Harvesting Sensor (IMSBTM Lenses Below, Ordered as a Separate Line Item) WHBL1⁷ = 360° PIR lens, maximum coverage 80' dia. from 40' height (IMSBTM)

ACCESSORIES (Order as separate line items)

TLWSFSIR-100 Remote Handheld Sensor Configuration Tool (For IMS Option)

NOTES

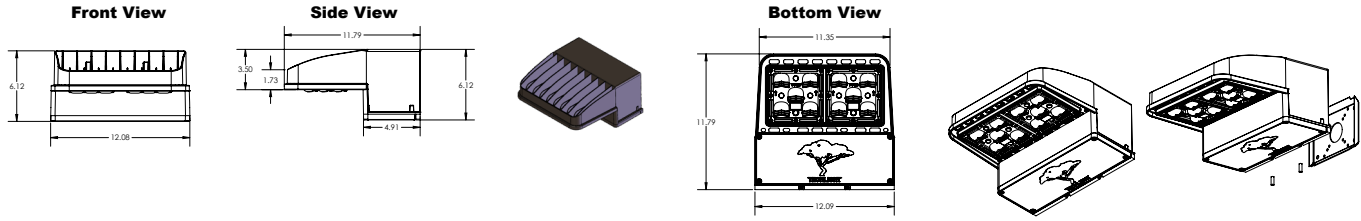
- 1 = Multi-Volt is an auto ranging power supply from 100V to 300V input.
- 2 = Custom RAL color matching is available. Contact your sales representative for additional info.
- 3 = TLWSFSP-L3 or L7 Lens must be ordered along with this sensor.
- 4 = Photo control shield available upon request. Len's must be ordered with IMS option.
- 5 = P1000PC operates at 120V and PC3 operates at 208-277V only.
- 6 = Reference Lumen Chart to identify CCT and Optic Type availability for 18L module. Some combinations may deviate from ordering logic shown above.
- 7 = WHBL1 Lens must be ordered along with the IMSBTM sensor.



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AVAILABLE FIXTURE DIMENSIONS

Dimensions shown are for fixture bodies only. Mounting options must be ordered separately.



LUMINAIRE CHARACTERISTICS

Cool White - 5000K

Output ID	Nominal Lumens	TYPE II			TYPE III			TYPE IV		
		System Lumens	System Watts	Lm/W	System Lumens	System Watts	Lm/W	System Lumens	System Watts	Lm/W
		BUG Rating			BUG Rating			BUG Rating		
8L	8,000	8,063	58	139	8,114	60	135	7,946	53	150
	Bug Rating	B2-U0-G1			B1-U0-G2			B2-U0-G2		
10L	10,000	9,931	73	136	9,927	75	132	9,932	69	144
	Bug Rating	B2-U0-G2			B2-U0-G2			B2-U0-G2		
12L	12,000	12,014	91	132	11,948	93	129	12,147	86	141
	Bug Rating	B2-U0-G2			B2-U0-G2			B2-U0-G2		
14L	14,000	14,041	109	129	13,916	111	125	14,037	102	138
	Bug Rating	B2-U0-G2			B2-U0-G2			B3-U0-G2		
16L	16,000	16,014	127	126	16,065	131	123	16,143	120	135
	Bug Rating	B2-U0-G2			B2-U0-G2			B3-U0-G2		
18L	18,000	17,931	145	124	17,460	145	120	18,190	138	132
	Bug Rating	B2-U0-G2			B2-U0-G2			B3-U0-G2		

Neutral White - 4000K

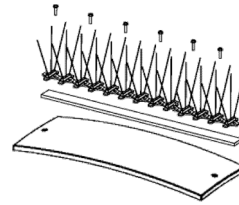
Output ID	Nominal Lumens	TYPE II			TYPE III			TYPE IV		
		System Lumens	System Watts	Lm/W	System Lumens	System Watts	Lm/W	System Lumens	System Watts	Lm/W
		BUG Rating			BUG Rating			BUG Rating		
8L	8,000	8,063	58	138	8,114	60	135	7,946	53	150
	Bug Rating	B2-U0-G1			B1-U0-G2			B2-U0-G2		
10L	10,000	9,931	73	136	9,927	75	132	9,932	69	144
	Bug Rating	B2-U0-G2			B2-U0-G2			B2-U0-G2		
12L	12,000	12,014	91	132	11,948	93	129	12,147	86	141
	Bug Rating	B2-U0-G2			B2-U0-G2			B2-U0-G2		
14L	14,000	14,041	109	129	13,916	111	125	14,037	102	138
	Bug Rating	B2-U0-G2			B2-U0-G2			B3-U0-G2		
16L	16,000	16,014	127	126	16,065	131	123	16,143	120	135
	Bug Rating	B2-U0-G2			B2-U0-G2			B3-U0-G2		
18L	18,000	17,931	145	124	17,460	145	120	18,190	138	132
	Bug Rating	B2-U0-G2			B2-U0-G2			B3-U0-G2		

Warm White - 3000K

Output ID	Nominal Lumens	TYPE II			TYPE III			TYPE IV		
		System Lumens	System Watts	Lm/W	System Lumens	System Watts	Lm/W	System Lumens	System Watts	Lm/W
		BUG Rating			BUG Rating			BUG Rating		
8L	8,000	7,916	60	132	8,204	64	128	8,092	58	140
	Bug Rating	B2-U0-G1			B1-U0-G2			B2-U0-G2		
10L	10,000	9,934	77	129	10,156	82	124	9,967	73	137
	Bug Rating	B2-U0-G2			B2-U0-G2			B2-U0-G2		
12L	12,000	12,141	97	125	12,058	100	121	12,057	91	133
	Bug Rating	B2-U0-G2			B2-U0-G2			B2-U0-G2		
14L	14,000	14,048	115	122	14,135	120	118	14,092	109	129
	Bug Rating	B2-U0-G2			B2-U0-G2			B3-U0-G2		
16L	16,000	16,130	136	119	16,148	140	115	16,072	127	127
	Bug Rating	B2-U0-G2			B2-U0-G2			B3-U0-G2		
18L	18,000	-	-	-	-	-	-	17,996	145	124
	Bug Rating	-			-			B3-U0-G2		

ADDITIONAL FIXTURE OPTIONS & ACCESSORIES

BDS12
Bird-Deterrent Spikes



P1000PC
Button-Type Photocell



LED's rated for over 50,000 hours at 25°C ambient temperature.



System Wattage	L70 @ 55°C	Amperage Draw					
		120V	208V	240V	277V	347V	480V
53	>100K	0.44	0.25	0.22	0.19	0.15	0.11
59	>100K	0.49	0.28	0.25	0.21	0.17	0.12
65	>100K	0.54	0.31	0.27	0.24	0.19	0.14
71	>100K	0.60	0.34	0.30	0.26	0.21	0.15
78	>100K	0.65	0.37	0.32	0.28	0.22	0.16
79	>100K	0.66	0.38	0.33	0.28	0.23	0.16
83	>100K	0.70	0.40	0.35	0.30	0.24	0.17
88	>100K	0.73	0.42	0.37	0.32	0.25	0.18
92	>100K	0.77	0.44	0.39	0.33	0.27	0.19
97	>100K	0.81	0.47	0.40	0.35	0.28	0.20
102	>100K	0.85	0.49	0.42	0.37	0.29	0.21
106	>100K	0.88	0.51	0.44	0.38	0.31	0.22
111	>100K	0.92	0.53	0.46	0.40	0.32	0.23
129	>100K	1.08	0.62	0.54	0.47	0.37	0.27
134	>100K	1.11	0.64	0.56	0.48	0.39	0.28
138	>100K	1.15	0.66	0.58	0.50	0.40	0.29
143	>100K	1.19	0.69	0.6	0.52	0.41	0.30
147	>100K	1.23	0.71	0.61	0.53	0.42	0.31
149	>100K	1.24	0.72	0.62	0.54	0.43	0.31
157	>100K	1.31	0.75	0.65	0.57	0.45	0.33

WARNING: Maintenance performed including the replacement of LED bricks while power is still supplied to the luminaire may result in system failures and will void the warranty



TECHLIGHT
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2707 SATSUMA | DR. DALLAS, TX 75229 | PH: 800.225.0727 | www.techlight.com

Integral Motion Sensor Blue Tooth Module (IMSBTM)

APPLICATION — The IMSBTM is an AC-powered, Integral Motion Sensor Blue Tooth Module, that is highly versatile for various indoor and outdoor lighting fixtures. It provides **360° coverage**, making it optimal for open spaces and aiseways. This sensor is particularly suitable for environments such as parking lots, fuel stations, walkways, and storage facilities. The WHBL1 lens is crafted for fixtures at mounting heights ranging from **20 to 40 feet**, ensuring a coverage span of up to **80 feet in diameter** at the maximum height of **40 feet**. These lenses are designed with multiple cells and tiers, creating a dense pattern of coverage.

- Analog Sensor Built-in
- Replaceable lens options
- 120-277V Line Voltage input
- Daylight harvesting available

OPERATION — Typically, the sensor ramps lighting On to the selected High mode level when motion is detected and the ambient light level is below the hold off setpoint. After the sensor stops detecting movement and the time delay elapses, lights fade to the Low mode level. If there is no motion during the subsequent cut off time delay, the lights will turn Off. For dusk to dawn control, the integral photocell can switch the lights On and Off based on the ambient light level so that lighting remains on overnight even without motion detection.

ADDITIONAL FEATURES

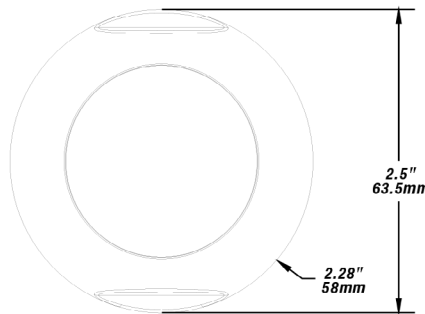
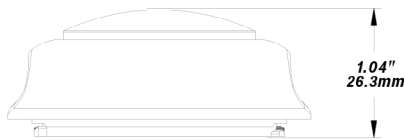
- **Wireless Control System:** Bluetooth® Low Energy Mesh 4.2 & 5.0 protocols. Enables individual or group control of luminaires.
- **Mobile App Operation:** Intuitive interface for easy management.
- **Flexible Commissioning:** Components commissioned via the Mobile App. No need for a gateway during commissioning.
- **Sensor Integration:** Works seamlessly with various sensors. Enhances energy efficiency and responsive lighting.
- **Mesh Network Range:** Wireless communication up to 100 feet or more between devices. Ideal for diverse spatial configurations.
- **Internet Independence:** Commissioning and operation without internet access. Ensures functionality in various environments.
- **Security Measures:** Data encryption for mesh network security. Device access restricted without encrypted QR codes.
- **UL 1376 Verification:** LiteTrace, the manufacturer, has UL 1376 verification. Ensures adherence to stringent security standards.
- **In-House R&D Capabilities:** Full-stack, in-house R&D for networked sensors and controllers. Reflects a high level of control and innovation.
- **Industry Recognition:** One of the first systems listed to DLC's Networked Lighting Controls (NLC5). Compliance with industry standards and specifications.



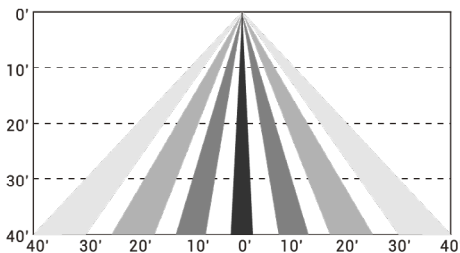
SENSOR LENS FIELD OF VIEW AND DIMENSIONS

Note = WHBL1 Lens must be ordered along with the IMSBTM sensor.

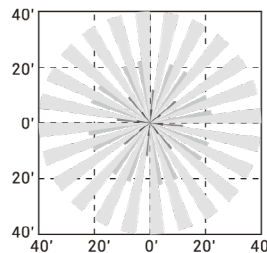
WHBL1



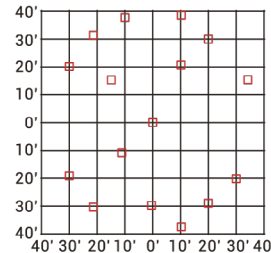
Coverage Side View



Coverage Top View



Detecting Spots For Ref



Network Lighting Control App Instruction Manual

located on the Techlight Website -> Resources Page.
Location shown below, or scan the QR code to the right.
<https://techlight.com/pdf/IMSBTM%20Manual.pdf>



FIXTURE MOUNT SENSOR (IMS)

FEATURES & SPECIFICATIONS

APPLICATION — The sensor is ideal for areas such as parking facilities, gas stations, pedestrian pathways, and warehouses. A choice of four lenses ensures complete coverage for mounting heights up to 40'.

OPERATION — Typically, the sensor ramps lighting On to the selected High mode level when motion is detected and the ambient light level is below the hold off setpoint. After the sensor stops detecting movement and the time delay elapses, lights fade to the Low mode level. If there is no motion during the subsequent cut off time delay, the lights will turn Off. For dusk to dawn control, the integral photocell can switch the lights On and Off based on the ambient light level so that lighting remains on overnight even without motion detection.

FEATURES —

- Provides line voltage On/Off switching
- High and low modes fully adjustable from 0 to 10V
- Time delay from 5 to 30 minutes
- Optional cut off delay
- Adjustable ramp up and fade down times
- Optional daylighting setpoints feature automatic calibration, or permit manual adjustment
- Polycarbonate construction; flame retardant, UV resistant, impact resistant, recyclable

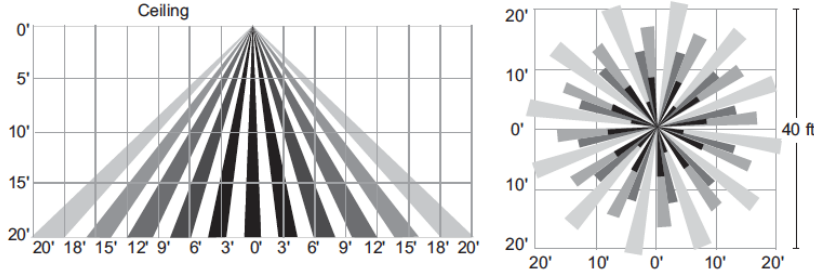
TLWSFSIR-100
Remote Handheld Sensor
Configuration Tool



SENSOR LENSES FIELD OF VIEW

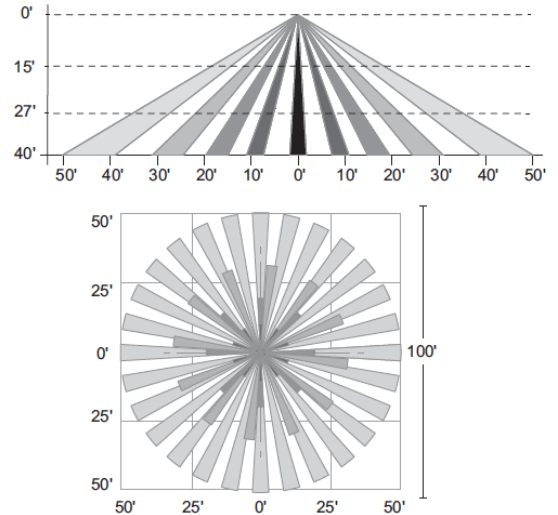
TLWSFSP-L3⁴

360° lens, maximum coverage 40' diameter from 20' height



TLWSFSP-L7⁴

360° lens, maximum coverage 100' diameter from 40' height



⁴ = Black lens cover and Photo control shield available upon request.
Len's must be ordered with IMS option.

WARNING: Maintenance performed including the replacement of LED bricks while power is still supplied to the luminaire may result in system failures and will void the warranty



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