

Catalog Number

Project

Type

FEATURES & SPECIFICATIONS

APPLICATION — The Cutlass Series of high output LED luminaires are designed for new outdoor parking area lighting and to be a replacement for HID area lights. They are optimal for lighting applications where long life, low maintenance, and consistent color rendering is required. The high efficient/lumen output allows the fixture to be used for parking, restaurant, quick service, shopping centers, or general area lighting applications.

CONSTRUCTION — The heavy-duty housing is constructed of cast aluminum with heat dissipating fins. The optical assemblies are sealed in place using a silicone gasket for weather tight protection. ETL listed for wet locations (IP65). Each fixture can accommodate advanced wireless control, management and reporting systems for outdoor lighting when ordered with the optional accessories (verify compatibility if using controls supplied by others) such as CTLARM mounting (required).

FINISH — A corrosion-resistant epoxy E-Coat layer that forms a uniform and all-encompassing protective barrier is applied to the fixtures prior to electrostatically applying a super durable powder coat finish. 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, IV, Automotive Frontline Wide, IV Tennis, V Medium and V Wide beam configurations. Star Light Friendly (meets or exceeds Dark Sky requirements) in the horizontal position. Full Cutoff Luminaire.

ELECTRICAL SYSTEM — Available in up to 65,000 LED lumens in most optical distributions with either 5000K Cool White (+/- 500K), 4000K Neutral White or 3000K Warm White color temperatures. 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 options. 0-10V dimming is standard. Built-in surge protection up to 10 kV. Built-in Active PFC Function LED driver conforms to UL8750 standards.

MOUNTING — Proprietary slide-on mounting system allows for quick installation. The CTL can be ordered with an aesthetically pleasing arm mount (CTL ARM [XX]) — required for integrating dynamic control systems), a 2-3/8" ID Adjustable Slip Fitter (CTL 2AF) for mounting on top of a standard 2-3/8" OD tenon. An entire complement of pole brackets with integrated quick mount technology can be used. CTL SM for direct mounting to poles in single (1 @ 90°) or D180 (2 @ 180°).

CTL SERIES

High Lumen Output Cutlass LED Area Light

Fixture and dimensions presented represent the CTL 40L w/ CTLARM

ETL LISTED US

STAR LIGHT FRIENDLY

RoHS COMPLIANT

MADE IN THE USA

DIMMABLE

FIXTURE WEIGHTS (APPROX)			
Fixture Configuration	2 Module	4 Module	6 Module
Weight (lbs)	14 lbs	20 lbs	28 lbs

SERIES	HOUSING HEIGHT	LENGTH & WIDTH	EPA (FT³)
CTL	4.44"	17.25" x 12.00"	See Chart

LISTINGS — Complies with UL8750. ETL listed for wet locations. Meets US and Canadian safety standards. -40°C to 50°C ambient operation. RoHS Compliant.

WARRANTY — The complete luminaire is covered by a 5-year limited warranty.

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:
CTL C 45L T5M 1 BZ LRBTC

CTL							
SERIES	COLOR TEMP		NOMINAL LUMENS	OPTICS	VOLTAGE	FINISH	FACTORY INSTALLED OPTIONS
	C = Cool White (5000K) N = Neutral White (4000K) W = Warm White (3000K)	2 Modules	5L = 5,000 Lumens 8L = 8,000 Lumens 10L = 10,000 Lumens 12L = 12,000 Lumens 14L = 14,000 Lumens 17L = 17,000 Lumens 20L = 20,000 Lumens	T2 = Type II T3 = Type III T4 = Type IV FAW = Frontline Auto Wide T4T = Type IV Tennis T5M = Type V Medium T5W = Type V Wide	1 = Multi-Volt¹ 3 = 277-480V(HV)	BZ = Bronze BK = Black GR = US Green WH = White SP = Special²	CTL2AF ⁶,⁷ = 2-3/8" ID Adjustable Slip Fitter HOEB ⁹ = LED Battery Pack, .90 mins
		4 Modules	25L = 25,000 Lumens 30L = 30,000 Lumens 35L = 35,000 Lumens 40L = 40,000 Lumens				
		6 Modules	45L = 45,000 Lumens 50L = 50,000 Lumens 55L = 55,000 Lumens 60L = 60,000 Lumens 65L = 65,000 Lumens				

ACCESSORIES (Order as separate line items)

CTL SM(XX)⁵,⁶ Slide Mount Adaptor

CTL B15(XX)⁵,⁷ Adjustable Yoke Mount w/CTL SM

CTL ARM(XX)⁶ Decorative Arm Mount - Square Pole (0.3 EPA, 3.5 lbs)

132848(XX)⁶ 2" SSA-Extension Mount - Square Pole

CTL ARM R(XX)⁶ Decorative Arm Mount - Round Poles (0.3 EPA, 3.7 lbs)

132847(XX)⁶ 2" SSA-Extension Mount - Round Pole

(XX = Finish) Substitute XX w/ Finish Codes w/in part #'s above

SHIELDS (Order as separate line items)

S215⁴ Angled Back Light Shield

S220 Side Shield

S221 Back and Side Shield

S288 3-Sided Shield

CTL HT238 Horizontal 2-3/8" ID Tenon Mount

WALL ADAPTORS (Order as separate line items)

CTL QMB WM Quick Mount Bracket - Wall Mount

VBWM Wall Mount Adaptor

OTHER MOUNTING OPTIONS See page 3

(CONTROLS & SENSORS) FACTORY INSTALLED OPTIONS - CONT.

Bluetooth Networked Controls – (Keilton) System A (Fixture-level sensing and scheduling w/Techlight Bluetooth control devices which are Keilton-based)

LRBTC = Bluetooth network controller for wireless grouping, scheduling, and control (120-277V).

LRBTC480 = Bluetooth network controller for wireless grouping, scheduling, and control (277-480V).

CTL ARM (R) IMSBTM = Networked Bluetooth motion & daylight sensor and controller integrated w/in CTL ARM; includes WHBL1 lens.

Infrastructure (Non-Control)→(Order separately as Accessory, not Factory Installed)

105141 = Bluetooth Timekeeper with Enclosure and Antenna.

Bluetooth Networked Controls – (Casambi) System B (Wireless grouping, scheduling, and scene control via Casambi mobile app.)

BTEC = Integrated Bluetooth control module for Casambi wireless grouping and control.

Infrastructure (Non-Control)→(Order separately as Accessory, not Factory Installed)

CER100 = Wireless Repeater extends Bluetooth mesh network range >100' between devices.

Standalone IMS (Non-Networked) Controls

CTL ARM (R) IMS = PIR motion sensor integrated w/in CTL ARM; local control only; (1 of 3) lens below required & ordered separately.

TLWSFSP-L2 = 360° PIR lens for IMS; approx. 48' coverage diameter at 8' mounting height.

TLWSFSP-L3 = 360° PIR lens for IMS; approx. 40' coverage diameter at 20' mounting height.

TLWSFSP-L7 = 360° PIR lens for IMS; approx. 100' coverage diameter at 40' mounting height.

Infrastructure (Non-Control)→(Order separately as Accessory, not Factory Installed)

TLWSFSIR-100 = Remote Handheld Sensor Configuration Tool for IMS.

Photocell Receptacles & Accessories

PCR7⁵ = 7-pin ANSI C136.41 twist-lock photocell receptacle for photocells or control nodes with Shorting Cap.

PC7 = Multi-tap (105-285V) twist-lock photocell receptacle for dusk-to-dawn control. (Order separately as Accessory, not Factory Installed)

PC2 = 480V twist-lock photocell receptacle for dusk-to-dawn control. (Order separately as Accessory, not Factory Installed)

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 = Slide mount adaptor for direct pole mounts cannot be used when mounting fixtures at 90° increments.
- ⁴ = Requires one S215 for 5L-20L units; (2) S215 for 25L-40L units; (3) S215 for 45L-65L units.
- ⁵ = PCR7 photocell receptacle must be oriented in the field so that the light sensor on the control is facing North. When used with the CTL2AF, the fixture must be in a downward facing position (<90° tilt). Use of the PCR7 with a fixture in an upward facing position will void warranty.
- ⁶ = Accessory mounting device must be ordered for each cutlass luminaire to provide mounting means.
- ⁷ = Do not tilt the CTL more than 75 degrees upward from horizontal when using the CTL2AF & CTLB15.
- ⁸ = Only available in 5L, 8L, 10L, 12L and 14L.

Control, Infrastructure & Sensor NOTES

System A (Keilton) Bluetooth Network Requirement: When option 105141 is required for BT scheduling or time-based control → each fixture **must also** include one of the "System A" network controls: IMSBTM, LRBTC, or LRBTC480

IMSBTM ORDERING: includes a factory-installed WHBL1 lens. ¹(CTL ARM – required for integrating dynamic control systems. Include the letter (R) for Round Pole Mounting "CTL ARM R IMS" or "CTL ARM R IMSBTM")²

System B (Casambi) Compatibility: Bluetooth devices from different systems are **not compatible** and cannot be combined within the same installation. CER100 is compatible with Casambi (System B) systems only. CER100 is not a control or sensor device and does not affect fixture operation or IP rating.

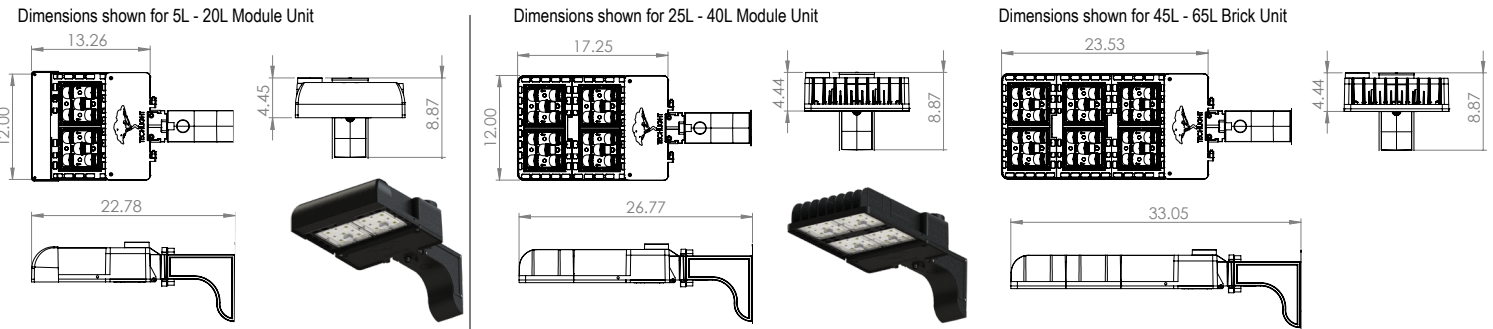
Non-Networked (IMS) Controls Sensor Requirements: IMS standalone motion sensors require a lens to be ordered separately.

Photocell Receptacles: Photo control shield available upon request. Photocell receptacles are independent of Bluetooth control systems and may be used with compatible control options. PCR7 photocell receptacle must be oriented in the field so that the light sensor on the control is facing North. When used with the CTL2AF, the fixture must be in a downward-facing position (<90° tilt). Use of the PCR7 with a fixture in an upward-facing position will void the warranty.

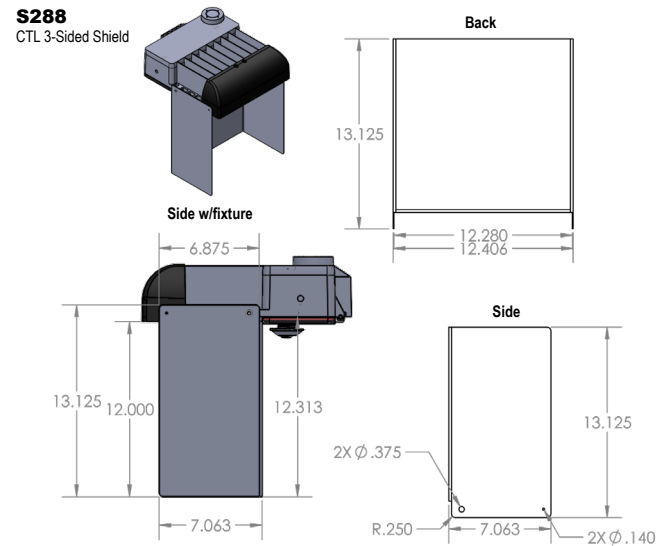
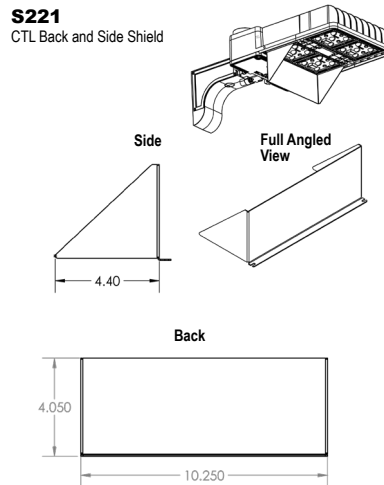
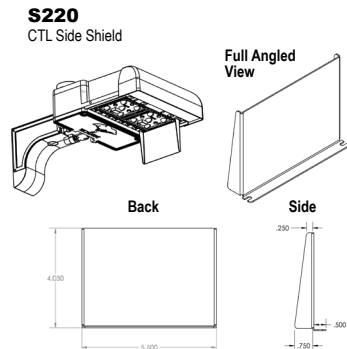
CTL High Lumen Output Cutlass LED Area Light

AVAILABLE FIXTURE DIMENSIONS

Dimensions shown are for fixture bodies only. Mounting options must be ordered separately. Fixture shown with arm sold separately.

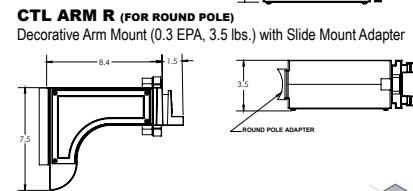
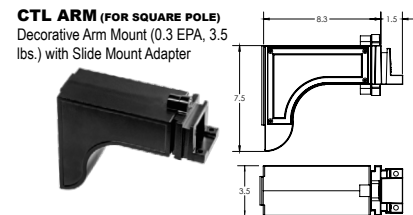


SHIELDS



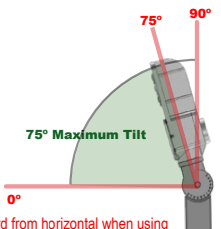
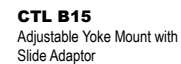
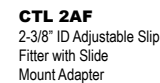
MOUNTING ACCESSORIES

An accessory mounting device must be ordered for each cutlass luminaire to provide mounting means.

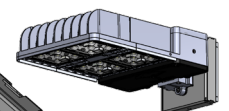
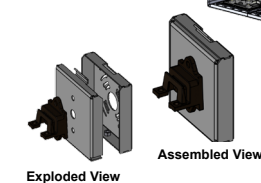
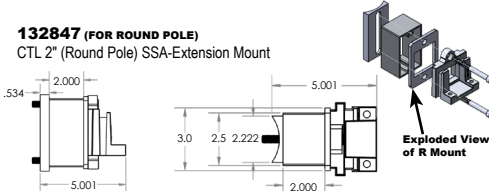
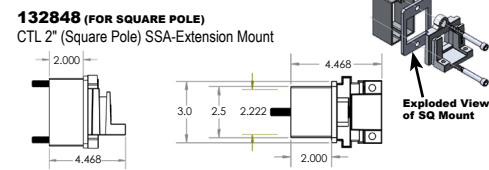


CTLARM MOUNT EPA's			
Fixture Configuration	2 Module	4 Module	6 Module
1 @ 90°	0.8	0.9	1.1
2 @ 180°	1.5	1.7	2.1
2 @ 90°	1.4	1.5	1.7
3 @ 90°	2.1	2.3	2.6
4 @ 90° or 4 @ 70°	2.2	2.5	2.9

EPA's shown include both the fixture and the mounting apparatus.



Do not tilt the CTL more than 75 degrees upward from horizontal when using the CTL2AF or CTLB15



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All dimensions and specifications are subject to change without notice.

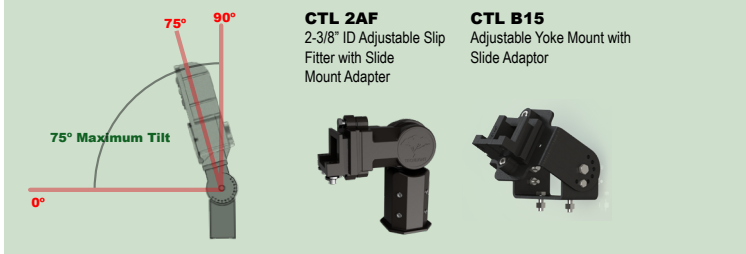
REV: 20260701-22

CTL High Lumen Output Cutlass LED Area Light

EPA RATINGS (ft²)

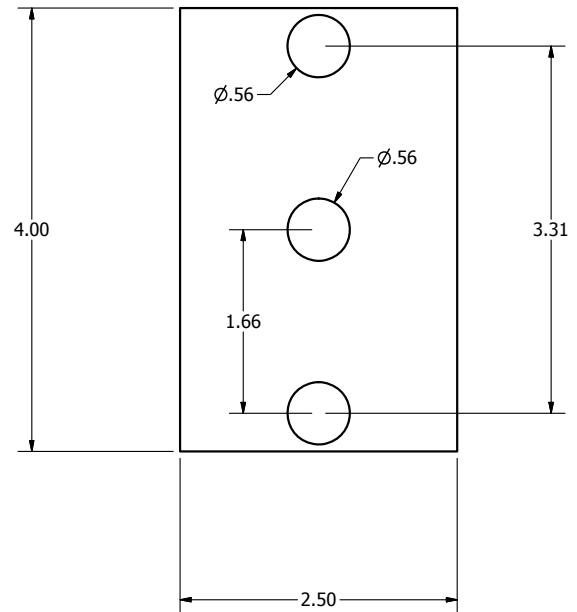
Angle*		FRONT	SIDE	EPA at 60	TVAX	TV2	TV3	TV3120	TV4	TVC4	BH2180	BH3180	BH3120	BH4180	BH490	TVAXR	RV2	RV3	RV3120	RV4	RVC4
CUTLASS 2 MODULE	0	0.38	0.44	0.44	0.5	1.9	3.1	2.3	4.3	3	1.4	2.1	1.8	3	2.3	0.5	1.3	2.1	1.7	2.9	2.2
	20	0.63	0.44	0.6	0.7	2.2	3.7	2.8	5.1	3.4	1.7	2.7	2.4	3.7	2.8	0.7	1.7	2.7	2.3	3.6	2.7
	30	0.76	0.44	0.66	0.8	2.5	4.1	3.1	5.6	3.7	2	3.1	2.6	4.3	3.1	0.8	2	3.1	2.5	4.2	3
	45	0.94	0.44	0.75	1	2.9	4.6	3.5	6.3	4.1	2.4	3.6	3	5	3.5	1	2.3	3.6	2.9	4.9	3.3
CUTLASS 4 MODULE	0	0.38	0.57	0.54	0.6	2.1	3.5	2.5	4.9	3.2	1.6	2.5	2	3.5	2.6	0.6	1.6	2.5	1.9	3.4	2.5
	20	0.75	0.57	0.75	0.8	2.5	4	3.3	5.6	4	2	3	2.8	4.2	3.4	0.8	1.9	3	2.7	4.1	3.2
	30	0.95	0.57	0.85	1	2.9	4.6	3.7	6.4	4.3	2.4	3.6	3.2	5	3.7	1	2.3	3.6	3.1	4.9	3.6
	45	1.19	0.57	0.97	1.2	3.4	5.4	4.1	7.3	4.8	2.9	4.4	3.7	6	4.2	1.2	2.8	4.3	3.6	5.9	4.1
CUTLASS 6 MODULE	0	0.39	0.77	0.68	0.8	2.5	4.1	2.8	5.7	3.6	2	3.1	2.7	4.3	3	0.8	2	3.1	2.2	4.2	2.9
	20	0.93	0.77	0.98	1	2.8	4.6	3.9	6.3	4.7	2.4	3.6	3.4	5	4.1	1	2.3	3.6	3.3	4.8	4
	30	1.21	0.77	1.12	1.3	3.4	5.4	4.5	7.4	5.3	2.9	4.4	4	6.1	4.7	1.3	2.9	4.4	3.9	5.9	4.5
	45	1.56	0.77	1.29	1.6	4.1	6.5	5.2	8.8	6	3.6	5.5	4.7	7.5	5.4	1.6	3.6	5.5	4.6	7.4	5.2

* = Do not tilt the CTL more than 45 degrees upward from horizontal when using the CTL2AF & CTLB15

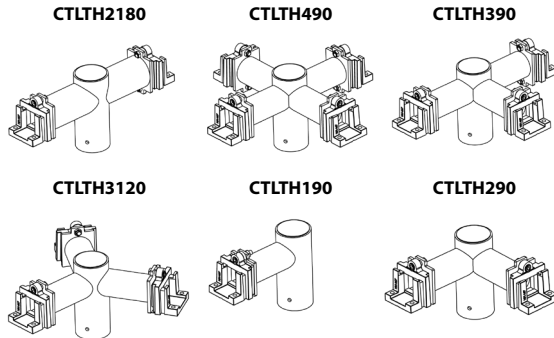


DRILL TEMPLATE

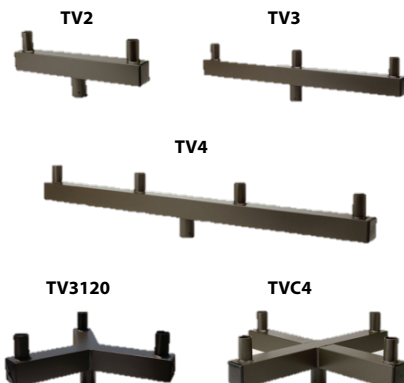
CTL - Not to Scale



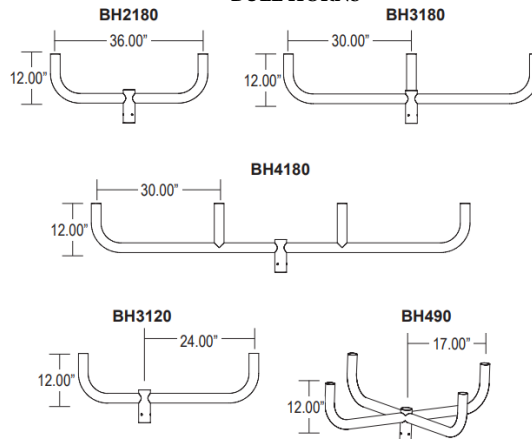
HORIZONTAL TENONS with Slide Mount Adaptor



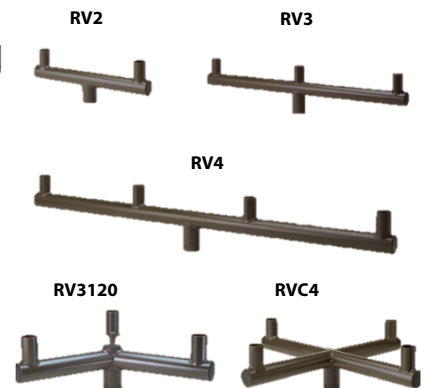
SQUARE STRAIGHT BULL HORNS



ROUND CURVED BULL HORNS



ROUND STRAIGHT BULL HORNS



CTL High Lumen Output Cutlass LED Area Light

BLUETOOTH NETWORKED CONTROLS - SYSTEM A

LRBTC

Bluetooth Controller with Long-Range Antenna (120V-277V)



Bluetooth Transmit: 1640ft Max
Operating Temperature: -22°F to 131°F
IP Rating: IP65
Compliance: UL1376

LRBTC480

Bluetooth Controller with Long-Range Antenna (277-480V)

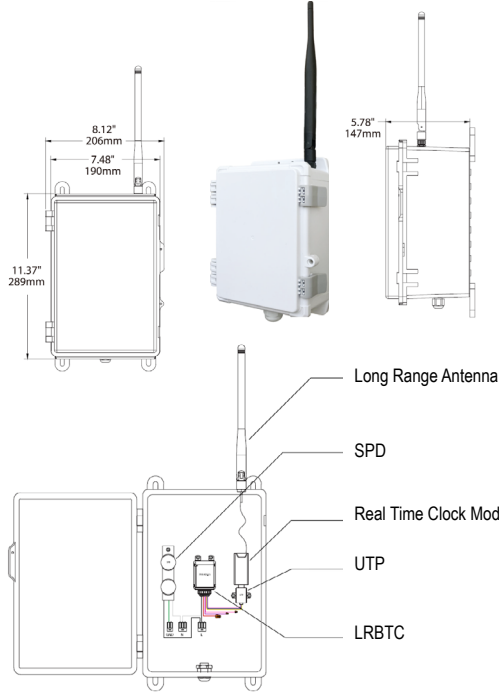


Bluetooth Transmit: 328ft Max
Operating Temperature: -22°F to 149°F
IP Rating: IP65
Compliance: UL8750, UL1376

105141*

Bluetooth Timekeeper with Enclosure and Antenna (Ordered separately)
Cannot be used with any other Photocell or time switch device.

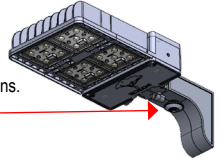
* When Bluetooth scheduling or time-based control is required (105141); each fixture must also include one **System A** network device: **IMSBTM, LRBTC, or LRBTC480.**



CTL ARM IMSBTM (FOR SQUARE POLE)

CTL ARM R IMSBTM (FOR ROUND POLE)

AC Powered Internal Network Wireless PIR & Daylight Harvesting Sensor. Includes WHBL1 lens.
(Factory installed within CTL Arm)



WHBL1 360° PIR lens, maximum coverage 80' dia. from 40' height.
WHBL1 lens is included with the IMSBTM and is not available as a standalone option.



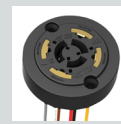
Network Lighting Control App Instruction Manual
located on the Techlight Website -> Resources Page. Follow HyperLink below, or scan the QR code shown above.

<https://techlight.com/pdf/IMSBTM%20Manual.pdf>

Photocell Receptacles

PCR7⁵

7-Pin Twist-Lock Photocell Receptacle ANSI C136.41 and Receptacle Shorting Cap



PC7

Multi-Tap (105-285V) Twist-Lock Photocell



PC2

480V Twist-Lock Photocell



PCR7 photocell receptacle must be oriented in the field so that the light sensor on the control is facing North. When used with the CTL2AF, the fixture must be in a downward facing position (<90° tilt).
Use of the PCR7 with a fixture in an upward facing position will void warranty.

Standalone (Non-Networked) Controls

IMS - FIXTURE MOUNT - MOTION SENSOR

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
- 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
- UL244A and UL508

TLWSFSIR-100

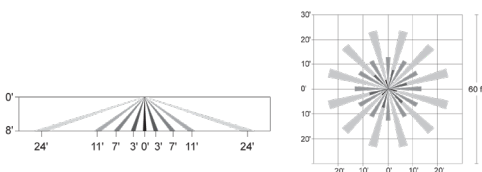
Remote Handheld Sensor Configuration Tool for IMS
(Ordered separately)



LENSES FIELD OF VIEW (1 of 3) lens below required with IMS & ordered separately.

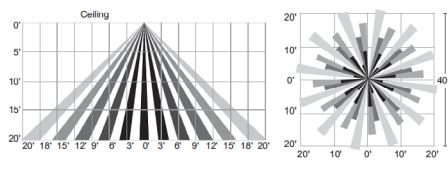
TLWSFSP-L2

360° lens, maximum coverage 48' diameter from 8' height



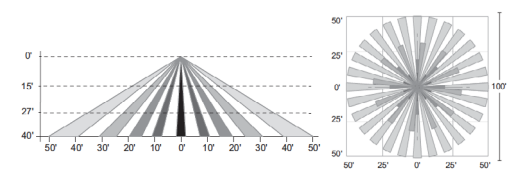
TLWSFSP-L3

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



TLWSFSP-L7

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



LUMINAIRE CHARACTERISTICS (5000K & 4000K - CCT)

Nominal Lumens	System Wattage	Delivered Lumens, BUG Rating, & Lumen Per Watt/Optic Type														System Wattage	L70 @ 25°C	Amperage Draw				
		TYPE II		TYPE III		TYPE IV		T4T		TYPE 5M		TYPE 5W		FAW				120V	208V	277V	347V	480V
		Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W							
5L	33W	5148 B1-U0-G1	156	5172 B1-U0-G3	155	5280 B01-U0-G2	160	5445 B1-U0-G1	165	5455 B2-U0-G0	165	5470 B3-U0-G2	166	5229 B1-U0-G1	158	33W	>50K Hrs.	0.28	0.16	0.12	0.10	0.07
8L	53W	8054 B2-U0-G2	152	8002 B1-U0-G4	151	8265 B1-U0-G3	156	8530 B2-U0-G1	161	8526 B3-U0-G1	161	8585 B3-U0-G3	162	8165 B2-U0-G2	154	53W	>50K Hrs.	0.44	0.25	0.19	0.15	0.11
10L	68W	10064 B2-U0-G2	148	9990 B2-U0-G5	147	10335 B2-U0-G3	152	10670 B2-U0-G1	157	10678 B3-U0-G1	157	10740 B4-U0-G3	158	10220 B2-U0-G2	150	68W	>50K Hrs.	0.57	0.33	0.25	0.20	0.14
12L	82W	11756 B2-U0-G2	144	11725 B2-U0-G5	143	12135 B2-U0-G3	148	12545 B2-U0-G2	153	12540 B3-U0-G1	153	12620 B4-U0-G3	154	11982 B2-U0-G2	146	82W	>50K Hrs.	0.68	0.39	0.30	0.24	0.17
14L	100W	13988 B2-U0-G2	140	13925 B2-U0-G5	139	14395 B2-U0-G3	144	14890 B3-U0-G2	149	14885 B3-U0-G1	149	14980 B4-U0-G4	150	14198 B2-U0-G3	142	100W	>50K Hrs.	0.83	0.48	0.36	0.29	0.21
17L	126W	17120 B3-U0-G3	136	17020 B3-U0-G5	135	17630 B2-U0-G4	140	18265 B3-U0-G2	145	18260 B4-U0-G1	145	18390 B5-U0-G4	146	17385 B3-U0-G3	138	126W	>50K Hrs.	1.05	0.61	0.46	0.36	0.26
20L	156W	20592 B3-U0-G3	132	20440 B3-U0-G5	131	21220 B3-U0-G4	136	21996 B3-U0-G3	141	21980 B4-U0-G1	141	22155 B5-U0-G5	142	20905 B3-U0-G3	134	156W	>50K Hrs.	1.30	0.75	0.56	0.45	0.33
25L	179W	25385 B3-U0-G3	142	25235 B3-U0-G5	141	26134 B3-U0-G5	146	27020 B3-U0-G3	151	27015 B4-U0-G1	151	27201 B5-U0-G5	152	25780 B3-U0-G3	144	179W	>50K Hrs.	1.49	0.86	0.65	0.52	0.37
30L	220W	30360 B3-U0-G3	138	30145 B3-U0-G5	137	31240 B3-U0-G5	142	32340 B4-U0-G3	147	32325 B5-U0-G1	147	32540 B5-U0-G5	148	30850 B3-U0-G3	140	220W	>50K Hrs.	1.83	1.06	0.79	0.63	0.46
35L	262W	35105 B3-U0-G3	134	34856 B3-U0-G5	133	36155 B3-U0-G5	138	37455 B4-U0-G3	143	37400 B5-U0-G1	143	37720 B5-U0-G5	144	35640 B4-U0-G3	136	262W	>50K Hrs.	2.18	1.26	0.95	0.76	0.55
40L	308W	40020 B4-U0-G4	130	39725 B3-U0-G5	130	41270 B3-U0-G5	134	42810 B4-U0-G3	139	42795 B5-U0-G2	139	43120 B5-U0-G5	140	40656 B4-U0-G4	132	308W	>50K Hrs.	2.57	1.48	1.11	0.89	0.64
45L	310W	44025 B4-U0-G4	142	44020 B4-U0-G5	142	45250 B3-U0-G5	146	46800 B4-U0-G3	151	46810 B5-U0-G2	151	47010 B5-U0-G5	152	44640 B4-U0-G4	144	310W	>50K Hrs.	2.58	1.49	1.12	0.90	0.65
50L	347W	48233 B4-U0-G4	139	48239 B4-U0-G5	139	49620 B4-U0-G5	143	51350 B4-U0-G3	148	51299 B5-U0-G2	148	51700 B5-U0-G5	149	49020 B4-U0-G5	141	347W	>50K Hrs.	2.89	1.67	1.25	1.00	0.72
55L	390W	53040 B4-U0-G4	136	53055 B4-U0-G5	136	54600 B4-U0-G5	140	56540 B4-U0-G4	145	56550 B5-U0-G2	145	56895 B5-U0-G5	146	53890 B4-U0-G5	138	390W	>50K Hrs.	3.25	1.88	1.41	1.12	0.81
60L	433W	57560 B4-U0-G4	133	57620 B4-U0-G5	133	59320 B4-U0-G5	137	61480 B4-U0-G4	142	61488 B5-U0-G2	142	61910 B5-U0-G5	143	58455 B5-U0-G5	135	433W	>50K Hrs.	3.61	2.08	1.56	1.25	0.90
65L	476W	61900 B4-U0-G4	130	61925 B4-U0-G5	130	63950 B4-U0-G5	134	66120 B4-U0-G4	139	66160 B5-U0-G2	139	66590 B5-U0-G5	140	62901 B5-U0-G5	132	476W	>50K Hrs.	3.97	2.29	1.72	1.37	0.99

LUMINAIRE CHARACTERISTICS (3000K - CCT)

Nominal Lumens	System Wattage	Delivered Lumens, BUG Rating, & Lumen Per Watt/Optic Type														System Wattage	L70 @ 25°C	Amperage Draw				
		TYPE II		TYPE III		TYPE IV		T4T		TYPE 5M		TYPE 5W		FAW				120V	208V	277V	347V	480V
		Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W							
5L	33W	4950 B1-U0-G1	150	4915 B1-U0-G3	149	5082 B01-U0-G2	154	5240 B1-U0-G1	159	5247 B2-U0-G0	159	5280 B3-U0-G2	160	5020 B1-U0-G1	152	33W	>50K Hrs.	0.28	0.16	0.12	0.10	0.07
8L	53W	7738 B2-U0-G2	146	7680 B1-U0-G4	145	7956 B1-U0-G3	150	8215 B2-U0-G1	155	8216 B3-U0-G0	155	8265 B3-U0-G3	156	7845 B2-U0-G2	148	53W	>50K Hrs.	0.44	0.25	0.19	0.15	0.11
10L	68W	9656 B2-U0-G2	142	9588 B2-U0-G4	141	9920 B2-U0-G3	146	10265 B2-U0-G1	151	10265 B3-U0-G1	151	10330 B4-U0-G3	152	9795 B2-U0-G2	144	68W	>50K Hrs.	0.57	0.33	0.25	0.20	0.14
12L	82W	11310 B2-U0-G2	138	11235 B2-U0-G5	137	11644 B2-U0-G3	142	12054 B2-U0-G2	147	12035 B3-U0-G1	147	12130 B4-U0-G3	148	11500 B2-U0-G2	140	82W	>50K Hrs.	0.68	0.39	0.30	0.24	0.17
14L	100W	13400 B2-U0-G2	134	13300 B2-U0-G5	133	13810 B2-U0-G3	138	14280 B3-U0-G2	144	14275 B3-U0-G1	143	14380 B4-U0-G4	144	13620 B2-U0-G2	136	100W	>50K Hrs.	0.83	0.48	0.36	0.29	0.21
17L	126W	16254 B3-U0-G3	130	16250 B3-U0-G5	129	16880 B2-U0-G4	134	17510 B3-U0-G2	139	17525 B4-U0-G1	139	17640 B5-U0-G4	140	16350 B3-U0-G3	132	126W	>50K Hrs.	1.05	0.61	0.46	0.36	0.26
20L	156W	19840 B3-U0-G3	127	19754 B3-U0-G5	126	20520 B3-U0-G4	131	21330 B3-U0-G3	126	21325 B4-U0-G1	136	21480 B5-U0-G5	137	20225 B3-U0-G3	129	156W	>50K Hrs.	1.30	0.75	0.56	0.45	0.33
25L	179W	24340 B3-U0-G3	136	24168 B3-U0-G5	135	25060 B3-U0-G4	140	25955 B3-U0-G3	145	25950 B4-U0-G1	145	26130 B5-U0-G5	146	24722 B3-U0-G3	138	179W	>50K Hrs.	1.49	0.86	0.65	0.52	0.37
30L	220W	29040 B3-U0-G3	132	28825 B3-U0-G5	131	29920 B3-U0-G5	136	31020 B3-U0-G3	141	31015 B5-U0-G1	141	31233 B5-U0-G5	142	29480 B3-U0-G3	134	220W	>50K Hrs.	1.83	1.06	0.79	0.63	0.46
35L	262W	33530 B3-U0-G3	128	33275 B3-U0-G5	127	34580 B3-U0-G5	132	35885 B4-U0-G3	137	35920 B5-U0-G1	137	36152 B5-U0-G5	138	34060 B3-U0-G3	130	262W	>50K Hrs.	2.18	1.26	0.95	0.76	0.55
40L	308W	38192 B4-U0-G4	124	37885 B3-U0-G5	123	39424 B3-U0-G5	128	40950 B4-U0-G3	133	40975 B5-U0-G2	133	41271 B5-U0-G5	134	38810 B4-U0-G4	126	308W	>50K Hrs.	2.57	1.48	1.11	0.89	0.64
45L	310W	42470 B4-U0-G4	137	42485 B4-U0-G5	137	43715 B3-U0-G5	141	45260 B4-U0-G3	146	45270 B5-U0-G2	146	45570 B5-U0-G5	147	43098 B4-U0-G4	139	310W	>50K Hrs.	2.58	1.49	1.12	0.90	0.65
50L	347W	46520 B4-U0-G4	134	46520 B4-U0-G5	134	47890 B4-U0-G5	138	49621 B4-U0-G3	143	49610 B5-U0-G2	143	49968 B5-U0-G5	144	47195 B4-U0-G4	136	347W	>50K Hrs.	2.89	1.67	1.25	1.00	0.72
55L	390W	51110 B4-U0-G4	131	51115 B4-U0-G5	131	52655 B4-U0-G5	135	54620 B4-U0-G4	140	54590 B5-U0-G2	140	54995 B5-U0-G5	141	51880 B4-U0-G5	133	390W	>50K Hrs.	3.25	1.88	1.41	1.12	0.81
60L	433W	55450 B4-U0-G4	128	55500 B4-U0-G5	128	56720 B4-U0-G5	132	59325 B4-U0-G4	137	59315 B5-U0-G2	137	59758 B5-U0-G5	138	56290 B4-U0-G5	130	433W	>50K Hrs.	3.61	2.08	1.56	1.25	0.90
65L	476W	59560 B4-U0-G4	125	59600 B4-U0-G5	125	61450 B4-U0-G5	129	63308 B4-U0-G4	134	63290 B5-U0-G2	134	64260 B5-U0-G5	135	60452 B5-U0-G5	127	476W	>50K Hrs.	3.97	2.29	1.72	1.37	0.99