

Project		Catalog #		Type	
Prepared by		Notes		Date	




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Streetworks

Archeon Large

Roadway Luminaire

Product Certifications & Features



Product Specifications

OPTICAL

- 5 patented AccuLED high efficiency roadway and area optical distributions
- 7 color temperature options
 - 70 CRI: 2200K, 2700K, 3000K, 3500K, 4000K, 5000K
 - 80 CRI: 2700K
- House side shield for spill light control; available factory-installed or as field-installed accessory.

ELECTRICAL

- 120-277V, 240-480V, 347V, and 480V; 50/60Hz
- Standard 0-10V dimming
- 10kV and 20kV surge protection options with series or parallel configurations
- 40°C to 40°C ambient temperature operating range
- Standard 3-position terminal block
- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels. Comes pre-set to the highest position at the lumen output selected

PHYSICAL CHARACTERISTICS

- Heavy-duty die-cast aluminum housing and door
- Lineman-friendly features standard for easy maintenance. Includes tool-less entry and 3-position terminal block with easy access for service wires
- Four-bolt / two-bracket slipfitter with cast-in pipe stop and 2.5° leveling steps
- Fixed-in-place bird guard seals around 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) mounting arms
- Optional 15" pole mount arm available with round pole adapter and mounting hardware included
- Housing finished in 5-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness
- 5 standard color options. RAL and custom colors also available. (Additional charges and lead time apply)

CONTROLS

- Available with ANSI C136.10 3-pin or C136.41 7-pin control receptacle.
- Optional Field Adjustable Dimming Control (FADC) module allows for manual adjustment of lumen output and power usage; factory preset to highest output level. Enables a single SKU to cover multiple field applications
- Optional 4-pin Zhaga Book 18 receptacle for integration of onboard sensors with DALI- and D4i-enabled drivers

- Fully compatible with CLS Trellix Infrastructure UNB (Ultra Narrow Band) and cellular network lighting controls platforms. Enables wireless collection of luminaire performance and status data and asset management for luminaires installed in the field

COMPLIANCE

- Meets ANSI C136.25 for IP66 optical enclosure rating
- Meets ANSI C136.31 for 3G luminaire vibration. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications
- Meets ANSI C136.15 for luminaire field identification label standard
- Meets ANSI C136.22 internal label standard
- Safety listing - Wet Location UL 1598
- 3,000-hours per ASTM B117, with a scribe rating of 7 per ASTM D1654 for standard color finish
- DarkSky approved for 3000K CCT and warmer, with mounting options less than 10° of tilt.
- BAA domestic preference option meets BAA requirements
- Products that meet BABA Domestic Preference Requirements - This Cooper product is manufactured in the US and meets the BABA cost of components rule. To verify a configured product with specific accessories and options meets BABA Domestic Preference Requirements; submit this catalog number to Cooper Lighting Quotation team for validation by our Engineering and Manufacturing teams. Our BABA designation is based on the minimum compliance requirement for BABA. Individual Government Agencies may have more stringent compliance standards.
- Products that meet BABA through Exemption - Allows any product to satisfy BABA requirements regardless of domestic content manufacturing for projects funded by FHWA through Oct 1st 2025. See notes portion in Ordering Information section for more detail.
- Products that meet BABA through BAA Exemption - FHWA and FTA agencies are utilizing their BAA rules for BABA compliance. Cooper's products with a BAA designation are manufactured in the US and utilize a BAA COTS exemption rule for compliance. To verify a configured product with specific accessories and options meet BABA Domestic Preference Requirements; submit this catalog number to Cooper Lighting Quotation team for validation by our Engineering and Manufacturing teams. See notes portion in Ordering Information section for more detail.

- Please refer to the [DOMESTIC PREFERENCES](#) website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

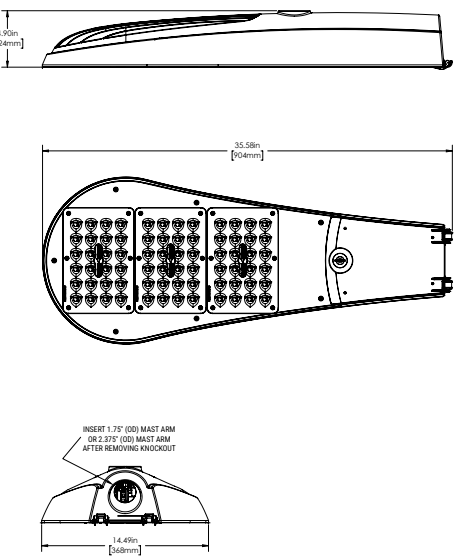
SHIPPING DATA

- Approximate Net Weight: 27 lbs. (12.2 kgs.)
- Effective Projected Area: 0.86 (Sq. Ft.)
- Carton Size: 19.375" x 9.688" x 40.688"
- Pallet Size: 42" x 48"
- Cartons/Pallet: 10

WARRANTY

- Five year limited warranty, consult website for details [www.cooperlighting.com/legal](#)

Dimensional Details



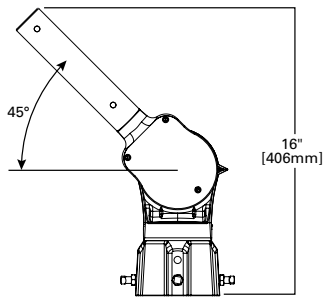
Ordering Information

SAMPLE ORDER NUMBER: ARCH-L-PA3-90-740-U-T2R-A15-AP-10K-PR

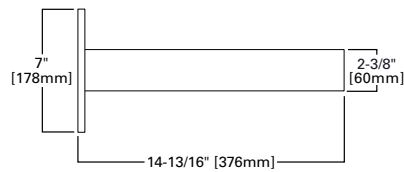
Product Family ^{1,2}	Light Engine	Wattage Bucket	Color Temperature	Voltage	Distribution	Mounting	Finish	
ARCH-L =Archeon Large BAA-ARCH-L =Archeon Large Buy American Act Compliant ²⁶ TAA-ARCH-L =Archeon Large Trade Agreements Act Compliant ²⁶ BABAE-ARCH-L =Build America Buy America Act (FHWA Exception, for projects funded by Oct 1, 2025) ²⁶ BABAF-ARCH-L =Build America Buy America Act (FHWA Exception, for projects funded between Oct 1, 2025 and Oct 1, 2026, and FTA Buy America) ²⁶	PA3 =(3) Direct Mount Rectangle (72 LED)	90 100 110 120 130 140 150 160 170 180	190 200 210 220 230 240 250 260 270 280	722 =70 CRI, 2200K 727 =70 CRI, 2700K 730 =70 CRI, 3000K 735 =70 CRI, 3500K 740 =70 CRI, 4000K 750 =70 CRI, 5000K 827 =80 CRI, 2700K AMB =Amber, 590nm ^{21,22}	U =Universal (120-277V) 8 =480V ⁴ 9 =347V ⁴ DV =277-480V DuraVolt Drivers ^{4,5}	T2R =Type II Roadway T2U =Type II Urban T3 =Type III T4W =Type IV Wide 5WQ =Type V Square Wide	[Blank] =None A15 =15" Straight Mast Arm ASJS15 =Adjustable Slipfitter (Factory set at 15° degrees) ASJS25 =Adjustable Slipfitter (Factory set at 25° degrees) ASJS45 =Adjustable Slipfitter (Factory set at 45° degrees)	AP =Grey BZ =Bronze BK =Black DP =Dark Platinum WH =White
Options (Add as Suffix)				Controls				
10K =Series 10kV UL 1449 Surge Protective Device 20K =Series 20kV UL 1449 Surge Protective Device 20KI =Series 20kV UL 1449 Surge Protective Device with light indicator 10MSP =Parallel 10kV MOV Surge Protective Device 20MSP =Parallel 20kV MOV Surge Protective Device K =Level Indicator HA =50°C High Ambient Temperature ¹⁸ HSS =Factory Install House Side Shield ¹¹ PSC =Photocontrol Shorting Cap NPC =NEMA Photocontrol - Multi-Tap LLPC =Longlife Photocontrol Included FADC =Field Adjustable Dimming Controller ²³ CC =Coastal Construction ²⁴ Dxxxxx =DOT Configuration - Contact Quotes Team ²⁸ Uxxxxx =Utility Configuration - Contact Quotes Team ²⁸				PR =NEMA 3-PIN Twistlock Photocontrol Receptacle ⁶ PR7 =NEMA 7-PIN Twistlock Photocontrol Receptacle SPB1 =Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting ²⁵ SPB2 =Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting ²⁵ SPB4 =Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting ²⁵ MS/DIM-L08 =Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ^{3,7} MS/DIM-L20 =Motion Sensor for Dimming Operation, Maximum 9' - 20' Mounting Height ^{3,7} MS/DIM-L40 =Motion Sensor for Dimming Operation, Maximum 21' - 40' Mounting Height ^{3,7} LWR-LW =Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Heights ^{3,8,9} LWR-LN =Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Heights ^{3,8,9} WPS2-XX =WaveLinX Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{18, 19, 20, 21, 29} WPS4-XX =WaveLinX Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting ^{18, 19, 20, 21, 29} 5LTD =DALI ³				
Accessories (Order Separately) ^{17,27}								
OA / RA1013 =Photocontrol Shorting Cap OA/RA1014 =NEMA Photocontrol - 120V OA/RA1016 =NEMA Photocontrol - Multi-Tap OA/RA1027 =NEMA Photocontrol - 480V OA/RA1201 =NEMA Photocontrol - 347V OA1223 =10kV Surge Module Replacement A15-XX =Arm (15" Straight Arm) ^{12, 14} FSIR-100 =Wireless Configuration Tool for Occupancy Sensor ¹⁵ HS-ARCH =Field Install ARCH House Side Shield ^{11, 13}				VGS-ARCH =Short Vertical Drop Shield VGL-ARCH =Long Vertical Drop Shield ASJS15-XX =Adjustable slipfitter (Factory set at 15 degrees) ¹⁴ ASJS25-XX =Adjustable slipfitter (Factory set at 25 degrees) ¹⁴ ASJS45-XX =Adjustable slipfitter (Factory set at 45 degrees) ¹⁴				
NOTES: 1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. 2. Nominal wattage values will be labeled on fixture as per ANSI C136.15. For specific fixture wattage, refer to Power and Lumen tables. 3. Only available in universal voltage. 4. 480V not to be used with ungrounded or impedance grounded systems. 5. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit, www.signify.com/duravolt for more information. Not available with any motion/occupancy sensor control options except SPB. 6. If "PR" selected, dimming functionality not available, dimming leads will be capped. 7. The FSIR-100 accessory is required to adjust parameters. 8. Enlighted wireless system is not available with photocontrol receptacle (not required). 9. Enlighted wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for Enlighted application information. 10. HA option not available with the following configurations: 250W+, 210W+ if paired with HSS, 5LTD 150W+, or 240W+. 11. HSS not available with 5WQ distribution, 5LTD 270W+. 12. Round pole adapter and mounting hardware included. "M" drill pattern. 13. Requires three house side shields. 14. Replace XX with color designation. 15. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. 16. Utilizes internal step-down transformer when 347V or 480V is selected. 17. Controls system is not available with photocontrol (BPC), photocontrol receptacle (PR or PR7), or other controls systems (MS, LWR, DALI, or DIM). 18. Replace XX with sensor color (WH, BZ or BK). 19. Sensor passive infrared (PIR) may be overly sensitive with operating below -20°C (-4°F). 20. For this device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinX system and software and requires system components to be installed for operation. See website for more WaveLinX application information. 21. Not available with HA option. 22. Amber 590nm +/-5nm for wildlife and observatory use. Supplied in PA3 90 wattage bucket only. 23. Cannot be used with PR7 or other motion response control options. 24. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654. 25. Smart device with Sensor Configuration mobile application by Wattstopper required to change system defaults. See Controls Section for details. 26. Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. BABAE designates the product will meet the standards set for FHWA. As noted these projects must receive Government Funding by October 1, 2025. BABAF designates the product will meet the standards set for FHWA and FTA. As noted these projects must receive Government Funding by October 1, 2026. Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements. 27. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information. 28. Customer specific specifications utilizes standard products with small adjustments to meet unique requirements such as packaging, labels, wattage adjustments, etc. 29. Controls system is not available with photocontrol receptacles (PR, PR7) or other controls systems (FADC, SPBx).								

Mounting Details

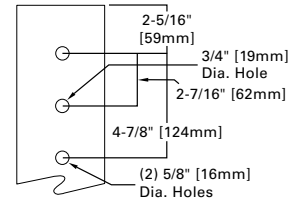
Adjustable Slipfitter Offset Arm



15" Straight Arm



Type "M" - Drilling Pattern



Energy and Performance Data

Power and Lumens (PA3 Light Engine)

[Supplemental Performance Guide](#)

Light Engine - PA3*		PA3-90	PA3-100	PA3-110	PA3-120	PA3-130	PA3-140	PA3-150	PA3-160	PA3-170	PA3-180
Power (Watts)		93	102	113	123	133	143	153	162	173	181
Wattage Label		90	100	110	120	130	140	150	160	170	180
Input Current @ 120V (A)		0.78	0.85	0.94	1.03	1.11	1.19	1.28	1.35	1.44	1.51
Input Current @ 277V (A)		0.34	0.39	0.42	0.45	0.49	0.53	0.56	0.59	0.62	0.68
Input Current @ 347V (A)		0.27	0.31	0.34	0.37	0.39	0.42	0.45	0.48	0.51	0.55
Input Current @ 480V (A)		0.24	0.24	0.26	0.28	0.30	0.32	0.34	0.36	0.38	0.43
Optics											
T2R	4000K/5000K	15,645	16,846	18,414	19,846	21,273	22,632	23,977	25,098	26,301	26,930
	BUG Rating	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
	3000K	14,248	15,341	16,769	18,074	19,372	20,611	21,836	22,855	23,952	24,525
	BUG Rating	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3
T3	4000K/5000K	15,537	16,730	18,287	19,710	21,126	22,476	23,812	24,924	26,119	26,745
	BUG Rating	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	3000K	14,149	15,236	16,654	17,950	19,239	20,469	21,686	22,698	23,788	24,356
	BUG Rating	B2-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4
T4W	4000K/5000K	15,473	16,661	18,212	19,629	21,038	22,383	23,713	24,820	26,011	26,633
	BUG Rating	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	3000K	14,090	15,172	16,584	17,875	19,159	20,384	21,596	22,604	23,688	24,254
	BUG Rating	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
5WQ	4000K/5000K	16,019	17,249	18,854	20,322	21,781	23,174	24,551	25,697	26,930	27,574
	BUG Rating	B4-U0-G3	B4-U0-G3	B4-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
	3000K	14,588	15,709	17,169	18,508	19,836	21,103	22,358	23,403	24,525	25,111
	BUG Rating	B4-U0-G2	B4-U0-G3	B4-U0-G3	B4-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
T2U	4000K/5000K	15,490	16,678	18,232	19,651	21,061	22,409	23,740	24,848	26,040	26,663
	3000K	14,106	15,189	16,603	17,894	19,181	20,407	21,620	22,629	23,714	24,281
	BUG Rating	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

Energy and Performance Data

Power and Lumens (PA3 Light Engine)

Light Engine - PA3*		PA3-190	PA3-200	PA3-210	PA3-220	PA3-230	PA3-240	PA3-250	PA3-260	PA3-270	PA3-280
Power (Watts)		189	201	211	222	229	242	251	261	273	279
Wattage Label		190	200	210	220	230	240	250	260	270	280
Input Current @ 120V (A)		1.58	1.68	1.76	1.85	1.91	2.01	2.10	2.18	2.27	2.33
Input Current @ 277V (A)		0.71	0.75	0.78	0.82	0.85	0.89	0.92	0.96	0.99	1.02
Input Current @ 347V (A)		0.58	0.61	0.64	0.67	0.70	0.73	0.76	0.78	0.81	0.84
Input Current @ 480V (A)		0.44	0.46	0.48	0.50	0.52	0.54	0.57	0.58	0.60	0.62
Optics											
T2R	4000K/5000K	27,868	29,218	30,114	31,168	31,950	33,030	33,790	34,591	35,538	36,067
	BUG Rating	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	3000K	25,380	26,608	27,424	28,384	29,097	30,080	30,772	31,501	32,364	32,846
	BUG Rating	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	4000K/5000K	27,678	29,017	29,906	30,954	31,731	32,804	33,557	34,351	35,294	35,818
	BUG Rating	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
	3000K	25,205	26,425	27,235	28,189	28,896	29,874	30,560	31,283	32,141	32,620
	BUG Rating	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T4W	4000K/5000K	27,562	28,896	29,781	30,825	31,598	32,667	33,417	34,210	35,148	35,670
	BUG Rating	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	3000K	25,100	26,316	27,122	28,072	28,777	29,749	30,433	31,154	32,008	32,484
	BUG Rating	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
5WQ	4000K/5000K	28,535	29,917	30,834	31,913	32,715	33,820	34,598	35,418	36,389	36,929
	BUG Rating	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
	3000K	25,986	27,246	28,080	29,063	29,791	30,801	31,507	32,254	33,138	33,630
	BUG Rating	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
T2U	4000K/5000K	27,592	28,929	29,815	30,858	31,633	32,703	33,454	34,247	35,186	35,709
	3000K	25,128	26,344	27,151	28,103	28,808	29,783	30,467	31,188	32,044	32,519
	BUG Rating	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4

Energy and Performance Data

Lumen Maintenance

Light Engine	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
PA3	Up to 40°C	> 98%	> 800,000

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

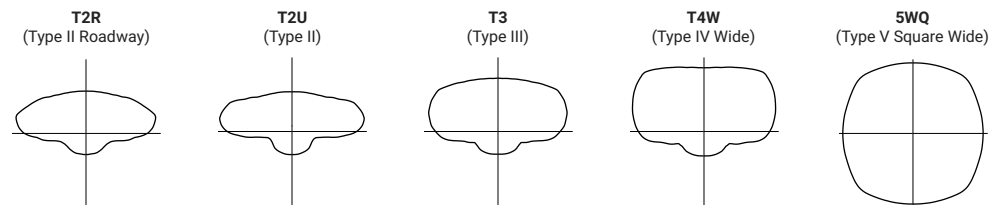
FADC Settings

FADC Position	Percent of Typical Lumen Output
1	25%
2	48%
3	56%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: +/-5% typical value

[View Archeon Large IES files](#)

Optical Distributions



Control Options

Photocontrol (PR and PR7)

Photocontrol receptacles (PR and PR7) provide a flexible solution to enable “dusk-to-dawn” lighting by sensing light levels. Advanced control systems compatible with ANSI C136.41 7-pin standards can be utilized with the PR7 receptacle.

Dimming Occupancy Sensor (SPB, MS/DIM-LXX)

These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.

Enlighted Wireless Control and Monitoring (LWR-LW and LWR-LN)

Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting. For additional details, refer to the Enlighted product guides.