Project		Catalog #		Type	
Prepared by		Notes		Date	

McGraw-Edison

TTN TopTier Nano

Parking Garage Luminaire

Product Features

BAA TAA BABA

Interactive Menu

Product Certifications

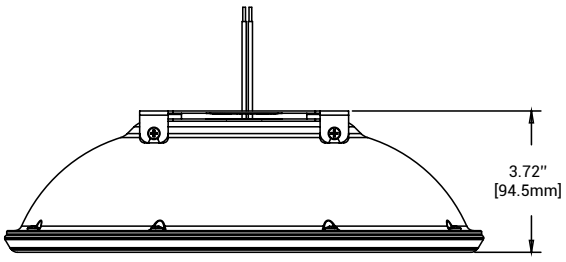
ISTI CERTIFIED · UL CERTIFIED · FC CLASS A · RoHS COMPLIANT · IP66 · 5 YEAR LIMITED WARRANTY · DLC LISTED · DLC LISTED PREMIUM

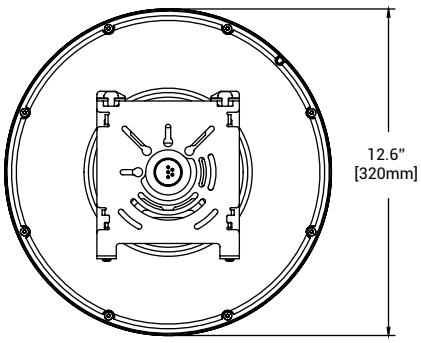
Quick Facts

- Lumen packages range from 1,000 - 7,300
- Efficacies up to 133 lumens per watt
- Patented waveguide technology for maximum visual comfort
- Mounting options: surface, pendant, trunnion, direct conduit, wall, pole and aircraft cable mount

Dimensional Details

Base luminaire weight: 6.4 lbs (2.9 kg)





Ordering Information

SAMPLE NUMBER: **TTN-D1-740-U-WQ-STM-30L-AP**

Product Family [1]	Configuration	Color Temperature	Voltage	Distribution	Mounting [21]	Lead Length [6]	Finish
TTN=TopTier Nano **BAA-TTN**=TopTier Nano, Buy American Act Compliant [18] **TAA-TTN**=TopTier Nano, Trade Agreements Act Compliant [18] **BABAF-TTN**=TopTier Nano, Build America Buy America [18, 25]	**D0**=1,000 Nominal Lumens [17] **D1**=3,000 Nominal Lumens **D2**=5,000 Nominal Lumens **D3**=7,000 Nominal Lumens	**735**=70 CRI, 3500K CCT **740**=70 CRI, 4000K CCT **750**=70 CRI, 5000K CCT **830**=80 CRI, 3000K CCT **AMB**=Amber 590nm [20]	**U**=120-277V **H**=347-480V [2, 17] **8**=480V [2] **9**=347V	**CQ**=Concentrated **MQ**=Medium **WQ**=Wide **RW**=Rectangular Wide **DL**=Drive Lane / Type 4	**[Blank]**=Surface Mount [13] **TMB**=Trunnion Mount with Connection Box **DPM**=Decorative Pendant Mount [4] **STM**=Stem Mount to 1/2" conduit [13] **STM3**=Stem Mount to 3/4" conduit [13] **WM**=Wall Mount **PM**=Pole Mount **ACM**=Aircraft Cable Mount [24]	**[Blank]**=6" **30L**=30" **36L**=36" **48L**=48" **72L**=72" **108L**=108" **120L**=120" **144L**=144"	**NW**=White **AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic

Options (Add as Suffix)		Accessories (Order Separately) [19]
F=Single Fuse (120, 277 or 347V Specify Voltage) **FF**=Double Fuse (208, 240 or 480V Specify Voltage) **ITS**=Integral Transfer Switch [3] **CG**=Clear Glass [7] **SG**=Solite® Glass [8] **UPL1**=Uplight with 300 lumens [5] **UPL2**=Uplight with 600 lumens [5] **UPL3**=Uplight with 900 lumens [5] **TR**=Tamper Resistant Hardware **DALI**=DALI Driver [12]	**MS/DIM-L08**=Dimming Occupancy Sensor (<9' Mounting) [9, 14] **MS/DIM-L20**=Dimming Occupancy Sensor (9' - 20' Mounting) [9, 14] **WLS2WH**=WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting [22, 23] **WLS4WH**=WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting [22, 23] **WPS2WH**=WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting [22, 23] **WPS4WH**=WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable 15' - 40' Mounting [22, 23] **SPB1**=Dimming Motion and Daylight Sensor, Bluetooth Programmable, < 8' Mounting [9, 15] **SPB2**=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 8' - 20' Mounting [9, 15]	**MA1252**=Replacement 10kV Surge Module **TTN/WG**=Wire Guard **DPMS36-XX**=36" Pendant Mount Stem [10, 11] **DPMS48-XX**=48" Pendant Mount Stem [10, 11] **DPMS96-XX**=96" Pendant Mount Stem [10, 11] **DPMST36-XX**=36" Pendant Mount Stem with Tether [10, 11, 21] **DPMST48-XX**=48" Pendant Mount Stem with Tether [10, 11, 21] **DPMST96-XX**=96" Pendant Mount Stem with Tether [10, 11, 21] **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor [14]

NOTES:

1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. 480V not to be used with ungrounded or impedance grounded systems.
3. Max ambient 35°C for MQ, WQ, RW, and DL. Max ambient 25°C for CQ, -CG, and -SG options. Only available with U voltage. UL924 listed component.
4. Order Pendant Mount Stem accessory.
5. UPL not available with H, ITS, WM or PM. Nominal wattages/outputs: UPL1=3W/300lm; UPL2=5W/600lm; UPL3=7W/800lm. Max ambient 45°C for MQ, WQ, RW, and DL. Max ambient 35°C for CQ, -CG, and -SG options.
6. Choose lead length for Surface Mount and Stem Mount only. TMB and DPM lengths predetermined.
7. Not available with CQ.
8. Standard with CQ, option available with WQ only.
9. Includes integral photocell.
10. Specify color in place of XX.
11. Designed for use with Decorative Pendant Mount only.
12. Not available with H voltage or D0 configuration. Not compatible with MS/DIM or SPB sensors.
13. Specify Lead Length for wire harness length.
14. The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay and more.
15. Sensor configuration mobile application required for configuration. See controls page for details.
17. D0 lumen package not available with H voltage option or DALI Driver option.
18. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information.Components shipped separately may be separately analyzed under domestic preference requirements.
19. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
20. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose lumen package D1.
21. For installations in locations such as gymnasiums, arenas, sports complexes, multi-purpose rooms, and any other locations where the fixture potentially will be subject to impacts from external sources, DPM mounting is required, utilizing the stem kit with tether (DPMST*). Surface Mount, Trunnion Mount (TMB), and Stem Mount (STM/STM3) are prohibited in these applications.
22. Cannot be used with other control options.
23. For WaveLinx applications, WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. Not required for WaveLinx LITE Commercial (LC) applications.
24. ACM provided with 60" length cables (4) and SO electrical cord.
25. 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. 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.

Product Specifications

Construction

- Low profile, die-cast aluminum housing provides a clean, symmetric aesthetic

Optics

- Visual comfort in any configuration, utilizing patented waveguide technology
- Four lumen packages, ranging from 1,000 - 7,300 lumens
- Integral uplight option utilizes a dedicated light engine available in three outputs for reduced visual contrast and cave effect

Electrical

- -40C – 50C operating temperature
- Greater than 90% lumen maintenance at 50,000 hours
- IP66 rated
- 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation
- 10kV surge module standard
- 0-10V dimming standard

Mounting

- Surface mount directly to square or octagonal 4" surface junction box using quick mount bracket
- Optional stem mount bracket with set screw for direct 1/2" or 3/4" NPS conduit mounting
- Aircraft cable mount (ACM) includes 60" adjustable length high-tensile strength stainless steel cable, and 60" SO electrical cord
- Trunnion, decorative pendant, wall and pole mount options also available
- For installations in locations such as gymnasiums, arenas, sports complexes, multipurpose rooms, and any other locations where the fixture potentially will be subject to impacts from external sources, the stem kit with tether (DPMST*) is required
- STM, STM3 rated for 3G vibration. All other mounting options 1.5G

Finish

- 2.5 mil nominal TGIC powder coat thickness
- Finishes include white, black, bronze, gray, dark platinum and graphite metallic
- RAL and custom color matches available. Additional charges and lead time apply

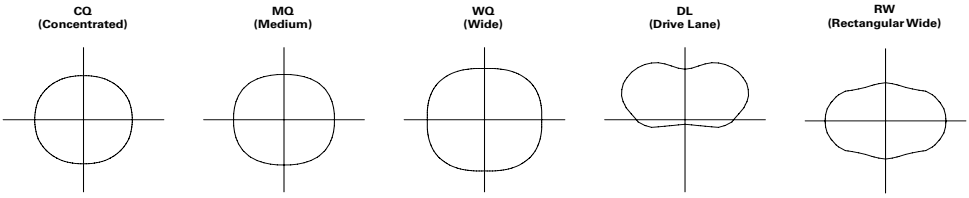
Compliance

- DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details
- BAA / TAA options available, please consult your Cooper Lighting Solutions representative for further details
- 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.
- 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.

Warranty

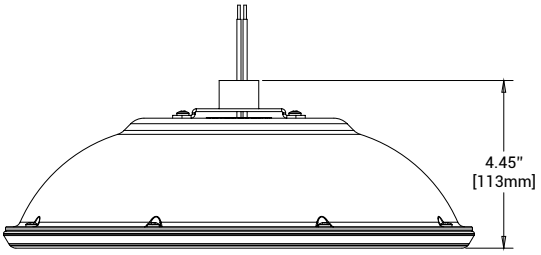
- Five-year limited warranty, consult website for details. www.cooperlighting.com/legal

Optical Distributions

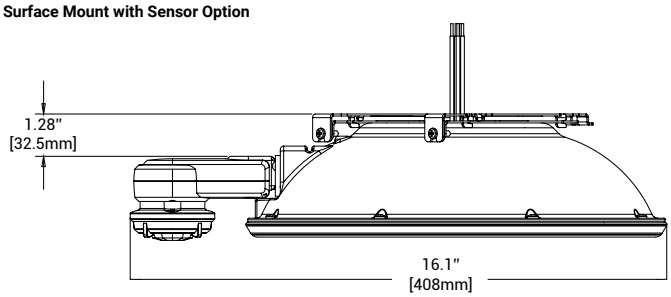


Mounting Details

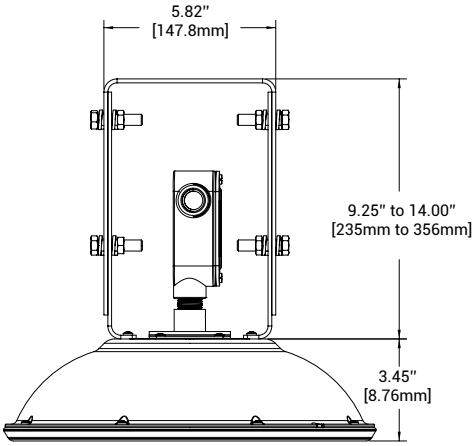
Stem Mount (STM / STM3)



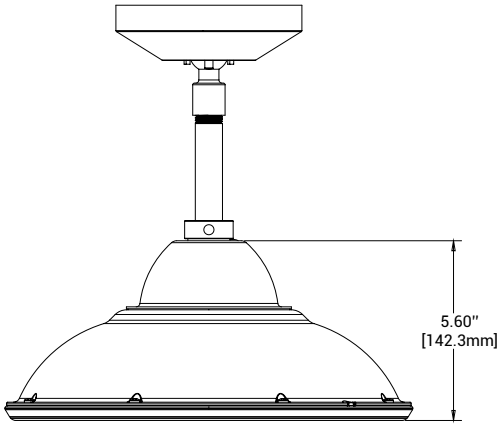
Surface Mount with Sensor Option



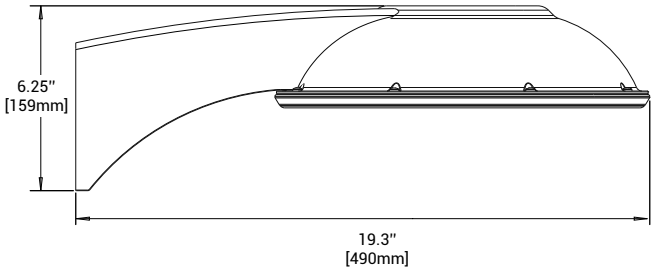
Trunnion Mount (TMB)



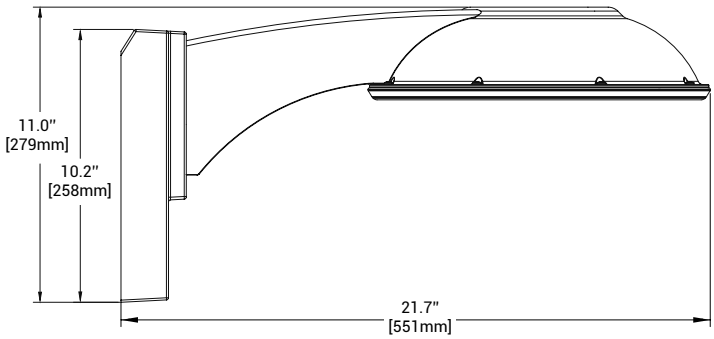
Decorative Pendant Mount (DPM)



Pole Mount (PM)

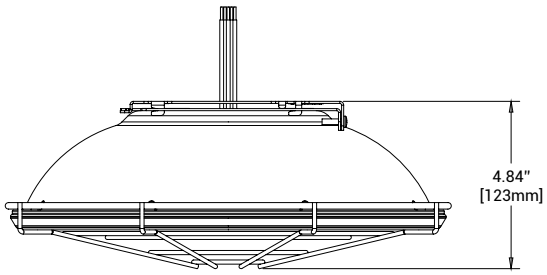


Wall Mount (WM)

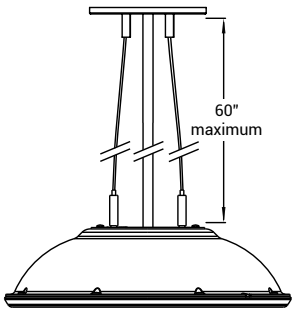


Accessories

Wire Guard (TTN/WG)



Aircraft Cable Mount (ACM)



Energy and Performance Data

View TopTier IES files

Power and Lumens (3000K/3500K/4000K/5000K)

		Lumen Package	D0	D1	D2	D3
		Power (Wattage)	10.7	26.4	42.5	59.2
Distribution						
3000K CCT 80 CRI	CQ Concentrated	Lumens	1,095	3,029	4,764	6,340
		BUG Rating	B1-U0-G0	B1-U0-G1	B2-U0-G1	B2-U0-G1
		Lumens per Watt	102	115	112	107
	MQ Medium	Lumens	1,142	3,158	4,966	6,609
		BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G2
		Lumens per Watt	107	120	117	112
	WQ Wide	Lumens	1,089	3,011	4,736	6,303
		BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B3-U0-G2
		Lumens per Watt	102	114	111	106
	RW Rectangular Wide	Lumens	1,062	2,937	4,619	6,148
		BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G2
		Lumens per Watt	99	111	109	104
	DL Drive Lane / Type 4	Lumens	1,032	2,855	4,491	5,977
		BUG Rating	B0-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
		Lumens per Watt	96	108	106	101
3500K CCT 70 CRI	CQ Concentrated	Lumens	1,158	3,205	5,040	6,708
		BUG Rating	B1-U0-G0	B1-U0-G1	B2-U0-G1	B2-U0-G1
		Lumens per Watt	108	121	119	113
	MQ Medium	Lumens	1,208	3,341	5,254	6,993
		BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G2
		Lumens per Watt	113	127	124	118
	WQ Wide	Lumens	1,152	3,186	5,011	6,669
		BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B3-U0-G2
		Lumens per Watt	108	121	118	113
	RW Rectangular Wide	Lumens	1,123	3,108	4,887	6,505
		BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B3-U0-G2
		Lumens per Watt	105	118	115	110
	DL Drive Lane / Type 4	Lumens	1,092	3,021	4,751	6,323
		BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
		Lumens per Watt	102	114	112	107
4000K/ 5000K CCT 70 CRI	CQ Concentrated	Lumens	1,222	3,380	5,316	7,076
		BUG Rating	B1-U0-G0	B1-U0-G1	B2-U0-G1	B2-U0-G1
		Lumens per Watt	114	128	125	120
	MQ Medium	Lumens	1,274	3,524	5,543	7,377
		BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B3-U0-G2
		Lumens per Watt	119	133	130	125
	WQ Wide	Lumens	1,215	3,361	5,286	7,035
		BUG Rating	B1-U0-G1	B2-U0-G1	B3-U0-G2	B3-U0-G2
		Lumens per Watt	114	127	124	119
	RW Rectangular Wide	Lumens	1,185	3,278	5,155	6,861
		BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B3-U0-G2
		Lumens per Watt	111	124	121	116
	DL Drive Lane / Type 4	Lumens	1,152	3,187	5,012	6,670
		BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G3
		Lumens per Watt	108	121	118	113

Energy and Performance Data

CQ, MQ and WQ Distributions **(Uplight Only)**

Lumen Package	D0	D1	D2	D3	UPL1	UPL2	UPL3
Power (Wattage)	10.7	26.4	42.5	59.2	3.0	5.0	7.0
Input Current @ 120V (A)	0.07	0.22	0.36	0.50	0.02	0.04	0.06
Input Current @ 208V (A)	0.04	0.12	0.19	0.27	0.01	0.02	0.03
Input Current @ 240V (A)	0.04	0.11	0.18	0.25	0.01	0.02	0.03
Input Current @ 277V (A)	0.03	0.10	0.15	0.21	0.01	0.02	0.03
Input Current @ 347V (A)	0.03	0.08	0.12	0.17	0.02	0.02	0.03
Input Current @ 480V (A)	0.03	0.06	0.09	0.12	0.03	0.03	0.03

DL and RW Distribution **(Uplight Only)**

Lumen Package	D0	D1	D2	D3	UPL1	UPL2	UPL3
Power (Wattage)	10.7	26.4	42.5	59.2	3.0	5.0	7.0
Input Current @ 120V (A)	0.08	0.23	0.37	0.52	0.02	0.04	0.06
Input Current @ 208V (A)	0.04	0.12	0.20	0.28	0.01	0.02	0.03
Input Current @ 240V (A)	0.04	0.11	0.18	0.25	0.01	0.02	0.03
Input Current @ 277V (A)	0.03	0.10	0.16	0.22	0.01	0.02	0.03
Input Current @ 347V (A)	0.03	0.08	0.13	0.18	0.02	0.02	0.03
Input Current @ 480V (A)	0.03	0.06	0.09	0.13	0.03	0.03	0.03

Lumen Maintenance

Lumen Package	Ambient Temperature	25,000 hours*	50,000 hours*	60,000 hours*	100,000 hours**	Theoretical L70 hours**
D0-D3	25°C	97.6%	94.3%	93.0%	88.1%	270,000
	40°C	96.7%	92.4%	90.8%	84.4%	200,000
	50°C	96.4%	91.8%	90.0%	83.3%	185,000

* Supported by IES TM-21 standards
**Theoretical values represent estimations commonly used; however, refer to the IES position on LED Product Lifetime Prediction, IES PS-10-18, explaining proper use of IES TM-21 and LM-80.

Lumen Multiplier

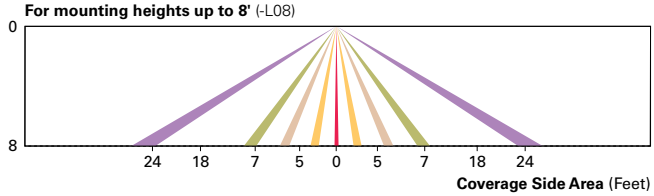
Ambient Temperature	Multiplier
0°C	1.03
10C	1.02
25°C	1.00
40°C	0.98
50°C	0.97

Control Options

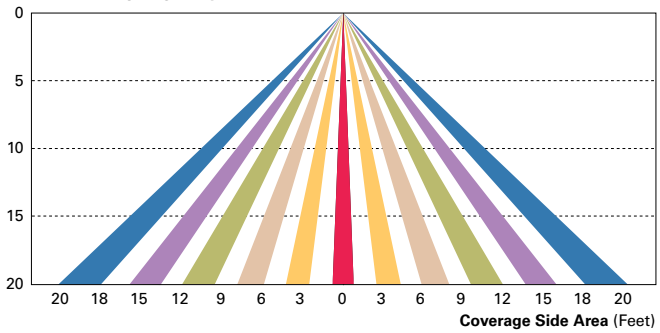
0-10V (D) 0-10V dimming comes standard on all TopTier configurations for use with integrated or external lighting controls.

Dimming Occupancy Sensor (MS/DIM) These sensors are factory installed in the luminaire, dimming to 50% after five minutes of no motion detected. When motion is detected, the luminaire output is 100%. Includes an integral photocell that can be programmed for "dusk-to-dawn" operation. The FSIR-100 programming tool can be utilized to adjust dimming level, time delay, sensitivity and other parameters. Two lens options provide optimal coverage patterns up to 20' mounting height. Sensor offered in white finish as standard.

For mounting heights up to 8' (-L08)



For mounting heights up to 20' (-L20)



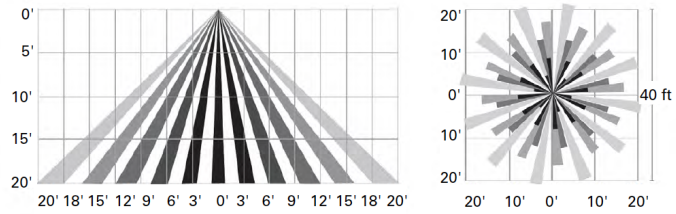
Dimming Occupancy Sensor (SPB)

These passive infrared (PIR) sensors are factory installed in the luminaire housing. When the SPB sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when no motion is detected. After a period of time, the luminaire turns off, and when motion is detected, the luminaire returns to full light output. The SPB sensor default parameters are listed in the table below, and can be configured utilizing the Sensor Configuration mobile application for iOS and Android devices. The SPB/X is configured to control only the specified number of light squares. An integral photocontrol can be activated with the app for "dusk-to-dawn" control or daylight harvesting - the factory default is off. Three sensor lenses are available to optimize the coverage pattern for mounting heights from 8'-40'. Sensor offered in white finish as standard.

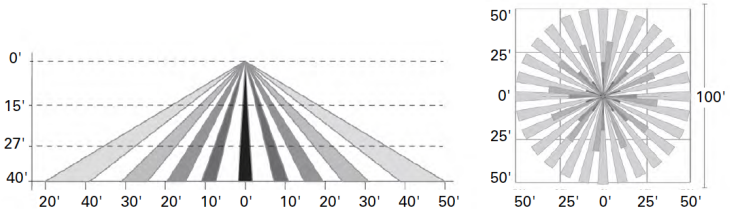
WaveLinx Wireless Control and Monitoring System

Operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. WaveLinx Pro (WPS2 to WPS4) outdoor wireless sensors offer passive infrared (PIR) occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinx mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets). WaveLinx Lite (WLS4 and WLS2) outdoor wireless sensors provide PIR occupancy and photocell for closed loop daylight harvesting, and can be factory or field-installed. Sensors are factory preset to dim down to 50% after 15 minutes of no motion detected. Two lens options are available for mounting heights of 7' to 40'. Use the WaveLinx Lite mobile application for set-up and configuration. WAC not required. WaveLinx Outdoor Control Module (WOLC-7P-10A) accessory provides a photocontrol enabling astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

For mounting heights up to 15' (WPS2 and WLS2)



For mounting heights up to 40' (WPS4 and WLS4)



Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com