



LED WATTAGE CHART

Drive Current	Star Power Low Glare Optics			Silicone Micro Optics		
	32L	48L	64L	32L	48L	64L
350 milliamps	-	51W (5,151 - 5,865 Lumens)	66W (6,666 - 7,590 Lumens)	36W (3,555 - 5,256 Lumens)	51W (5,037 - 7,752 Lumens)	66W (6,469 - 9,768 Lumens)
530 milliamps	-	80W (8,080 - 9,200 Lumens)	102W (10,302 - 11,730 Lumens)	54W (4,935 - 7,344 Lumens)	80W (7,370 - 11,440 Lumens)	102W (9,322 - 14,178 Lumens)
700 milliamps	71W (7,100 - 7,952 Lumens)	104W (10,504 - 11,960 Lumens)	137W (13,837 - 15,755 Lumens)	71W (5,965 - 8,946 Lumens)	104W (8,815 - 13,832 Lumens)	137W (11,510 - 17,673 Lumens)
1050 milliamps	106W (10,600 - 11,872 Lumens)	156W (15,756 - 17,940 Lumens)	205W (20,705 - 23,575 Lumens)	109W (9,028 - 13,530 Lumens)	156W (12,985 - 20,380 Lumens)	203W (16,742 - 25,781 Lumens)

The beautiful and simple CAL Family's LED Pedestrian Luminaires depict not only the California lifestyle, but the architecture of California as well. This ornamental piece is a delightful sight to see and a great model to illuminate any urban, rural, retail, or park, or campus setting.

The different caps and shades depict different California styles and a touch of California's historic Spanish mission era. The CAL Family is the perfect selection to combine both design and efficiency in light performance. Designed, tooled, manufactured and assembled in the USA.

CONSTRUCTION

- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP67 level seal around each PCB
- Optics are IK10 Rated for Tamper/Vandalism/Impact Protection

FINISH

- 3-5 mils electrostatic powder coat
- NLS' standard high-quality finishes prevent corrosion, protects against extreme environmental conditions

WARRANTY

- Five-year limited warranty for drivers and LEDs

BUY AMERICAN

To ensure the latest BAA/TAA/BABA Standards are being met, please select BAA, TAA, or BABA in the options section. Please contact the factory before placing an order for any NLS products requesting BAA (Buy American Act), TAA (Trade American Act), or BABA (Build America, Buy America).



STAR POWER™ OPTICAL SYSTEM

The Star Power™ reflector is an excellent system which provides great value and performance. Star Power Patent number: 10168023

Type:

CAL-1 ORDERING GUIDE

Cat#	Top	Shade	Light Dist.	# of LEDs	Drive Current	Color Temp/CRI	
CAL-1 25" Diameter (CAL-1)	Top 1 (TP1)	Shade 1 (S1)	<u>Standard Silicone Micro Optics</u>		32 LED's (32L)	350mA (35)	Amber LED 595nm Dominant Wavelength Standard Turtle Friendly (AMBER) ^{1,8,10}
	Top 2 (TP2)	Shade 2 (S2)	Type 2 (T2)		48 LED's (48L)	530mA (53)	Amber LED Phosphor Converted (AMBER/PC) ^{1,8,10}
	Top 3 (TP3)	Shade 4 (S4)	Type 3 (T3)		64 LED's (64L)	700mA (7)	2700K, 70 CRI (27K7) ^{2,5}
	Top 4 Luminous Element (TP4) ¹⁹		Shade 5 (S5)	<u>Performance Silicone Micro Optics</u>			2700K, 80 CRI (27K8) ^{2,5}
				Type 4 Forward Throw Wide (T4FTW)			3000K, 70 CRI (30K7) ^{2,5}
			Shade 6 (S6)	Type 5 Wide (T5W)			3000K, 80 CRI (30K8) ^{2,5}
				<u>Star Power Optical System</u>			3500K, 80 CRI (35K8) ²
			Shade 7 (S7)	Type 2 Low Glare (T2LG)			4000K, 70 CRI (40K7) ²
				Type 3 Low Glare (T3LG)			4000K, 80 CRI (40K8) ²
			Shade 8 (S8)	Type 4 Low Glare (T4LG)			5000K, 70 CRI (50K7) ²
				Type 5 Low Glare (T5LG)			5000K, 80 CRI (50K8) ²

Voltage	Mounting	Color	Controls		Options
120V-277V (UNV)	Architectural Arm Mount (AM) ³	Bronze Textured (BRZ)	Photocell + Receptacle (PCR) ⁴	FSP-211 with Motion Sensor/Photocell (120/277VAC, 230-240VAC) 8' Height (FSP211-8) ^{11, 13}	Bird Spikes (BS)
347V-480V (HV)	Mast Arm Mount (MA)	White Textured (WHT)	Nema 7-Pin Receptacle (PE7) ⁴		House Side Shield (HSS) ¹⁴
	Wall Mount (WM)	Smooth White Gloss (SWT)	Receptacle + Shorting Cap (PER) ⁴	9'-20' Heights (FSP211-20) ^{11, 13}	Glass Lens (GL) ^{15, 17}
	Architectural Arm Wall Mount (AAWM) ⁶	Silver Metallic (SVR)	Custom Controls Integration (CCI) ⁷	21'-40' Heights (FSP211-40) ^{11, 13}	Diffused Polycarbonate Visual Comfort Lens (DPCL) ^{17, 18}
		Black Textured (BLK)	FSP Remote (FSIR) ¹³	FSP-221 with Motion Sensor/Photocell (100/347VAC, 208/230/480VAC) 8' Height (FSP-HV-8) ^{12, 13}	HAL Lens (HAL) ^{16, 17}
		Smooth Black Gloss (SBK)	Button Photocell (PC) ⁴	9'-20' Heights (FSP-HV-20) ^{12, 13}	Marine Grade Finish (MGF)
		Graphite Textured (GPH)		21'-40' Heights (FSP-HV-40) ^{12, 13}	Buy American Act (BAA) ⁹
		Grey Textured (GRY)			Trade Agreement Act (TAA) ⁹
		Custom (CS)			Build America Buy American (BABA) ⁹

NOTES:

1. Consult Factory for Lead Time
2. Consult Factory for 90 CRI Requests
3. For Arm Mount, please select from the available arm mounts and enter it as a separate line item
4. Universal Voltage 120V-277V
5. 3000K or lower must be selected to meet International Dark Sky Association Certification
6. For AAWM, please select an Architectural arm (AA**-WM) separately
7. Please contact Factory for Custom Control Integration requests (nLight, NX, WaveLinx, Crestron, DMX/RDM, Synapse, Casambi, DALI II or other control systems)
8. Turtle Safe - Not available over 530mA
9. Consult Factory for all BAA/TAA/BABA requests
10. Consult Factory for Lead Time and Estimated performance data
11. FSP-211, 120V-277V, 230-240VAC (single phase), 50/60Hz
12. FSP-221, 100V-347V, 208/230/480VAC (phase to phase)
13. Projects with sensors require Qty. 1 FSIR per project
14. Not available with T5 or T5W
15. Glass Lens: Low Iron Glass, fully tempered per ANSI C1047 (QCH-2201-37)
16. HAL Lens: Yellow Polycarbonate Lens – less than 2% Blue Light Content
17. Maximum of 700mA available with Lens options
18. Diffused Polycarbonate Visual Comfort Lens
19. Maximum of 700mA available with Top 4

PRODUCT SPECIFICATIONS

HOUSING

Heavy Duty Marine Grade Cast and Spun Aluminum with 4 shade options and 3 cap options

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver
- Driver power factor at maximum load is $\geq .95$, THD maximum load is 15%
- LED Drivers Ambient Temp. Min is -40°C and Ambient Temp. Max ranges from 50°C to 55°C and, in some cases, even higher. Consult the factory for revalidation by providing the fixture catalog string before quoting and specifying it.
- All internal wiring UL certified for 600 VAC and 105°C
- CRI 70, 80 or 90
- Color temperatures: Amber, 2700K, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KA supplies as standard.

OPTIONS

- BIRD SPIKES (BS)—offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations.
- MARINE GRADE FINISH (MGF)—A multi-step process creating protective finishing coat against harsh environments.
 - Chemically washed in a 5 stage cleaning system.
 - Pre-baked
 - Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer.
 - 1-2 feet inside pole coverage top and bottom.
 - Oven Baked.
 - Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- SHIELDS (HSS)—House Side Shield (HSS) is designed for full property line cut-off.

CONTROL OPTIONS

- **FSP-211 w/Motion Sensor/Photocell (120/277VAC, 230-240VAC)**
(FSP-X) - Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution. Standard white finish.
- **FSP-221 w/Motion Sensor/Photocell (100-347VAC, 208/230/480VAC)**
(FSP-HV-X) - Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - FSP-8 mounting heights 8 feet and below
 - FSP-20 mounting heights 9-20 feet
 - FSP-40 mounting heights 21-40 feet
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.
 - FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- Controls Agnostic: Please contact factory for your preferred controls option. (nLight, NX, WaveLinx, Crestron, DMX/RDM, Synapse, Casambi, Dali II, or other control systems)
- NEMA 7-PIN RECEPTACLE (PE7)—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.
- PHOTOCCELL + RECEPTACLE (PCR)—7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.
- RECEPTACLE + SHORTING CAP (PER)—7-Pin Receptacle and Shorting Cap.

FINISH

5 mils Powder Coat

WARRANTY

Standard Warranty is 5 years for Driver and LEDs

LISTINGS

- UL Listed in compliance with UL 1598, the Standard for Safety of Luminaires, including the applicable wet location requirements
- IDA Dark Sky Approved

BUY AMERICAN OPTION

While all of the NLS Lighting products listed in this document qualify for the Buy America(n) Act of 1933, we reserve the right to change our listings without notice.

The information provided above is for general informational purposes only. We encourage you to consult legal professionals for advice particular to your projects concerning BAA, TAA, BABA or Buy America.

Additional NLS Products that meet BAA, TAA standards can be found at the following link:

[https://nslighting.com/wp-content/uploads/cs/NLS_BuyAmerica\(n\).pdf](https://nslighting.com/wp-content/uploads/cs/NLS_BuyAmerica(n).pdf)



The information and specifications on this document are subject to change without any notification. All values are design, nominal, typical or prorated values when measured under internal and external laboratory conditions.



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Call Us Today (310) 341-2037

nslighting.com

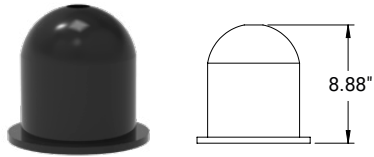
PRODUCT SPECIFICATIONS

PRODUCT CONFIGURATION

TOPS

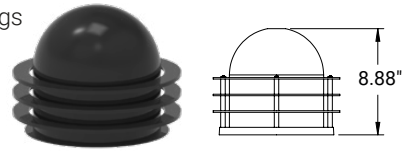
TOP 1

Smooth

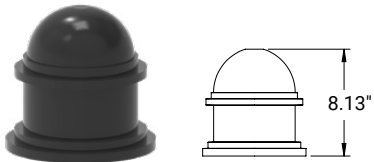


TOP 2

Alum. Rings

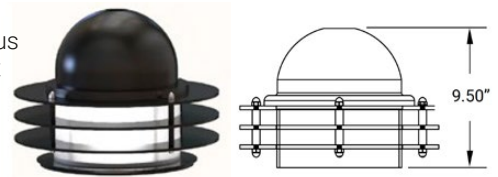


TOP 3

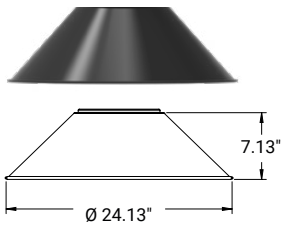


TOP 4

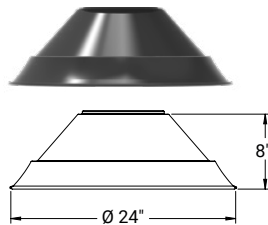
Luminous Element



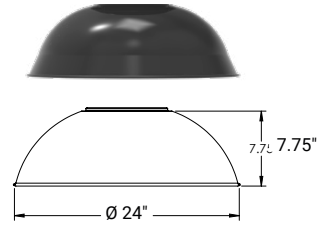
SHADES



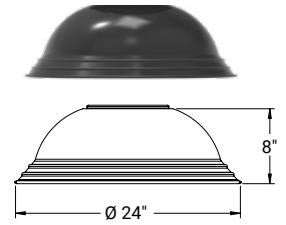
SHADE 1



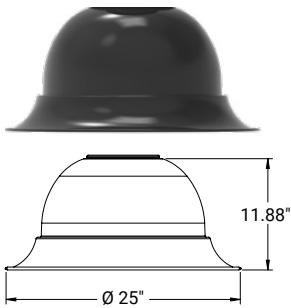
SHADE 2



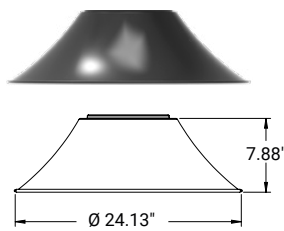
SHADE 4



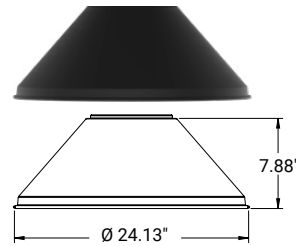
SHADE 5



SHADE 6



SHADE 7



SHADE 8

CAL-1 FIXTURE CONFIGURATIONS - TOP 1

FIXTURE	CAL-1-TP1-S1	CAL-1-TP1-S2	CAL-1-TP1-S4	CAL-1-TP1-S5	CAL-1-TP1-S6	CAL-1-TP1-S7	CAL-1-TP1-S8
EPA	0.61	0.66	0.72	0.69	0.87	0.64	0.78
WEIGHT (LBS)	28	28	28	28	28	28	28

CAL-1 FIXTURE CONFIGURATIONS - TOP 2 & TOP 4

FIXTURE	CAL-1-TP2*-S1	CAL-1-TP2*-S2	CAL-1-TP2*-S4	CAL-1-TP2*-S5	CAL-1-TP2*-S6	CAL-1-TP2*-S7	CAL-1-TP2*-S8
EPA	0.62	0.67	0.73	0.70	0.88	0.65	0.79
WEIGHT (LBS)	28	28	28	28	28	28	28

CAL-1 FIXTURE CONFIGURATIONS - TOP 3

FIXTURE	CAL-1-TP3-S1	CAL-1-TP3-S2	CAL-1-TP3-S4	CAL-1-TP3-S5	CAL-1-TP3-S6	CAL-1-TP3-S7	CAL-1-TP3-S8
EPA	0.57	0.62	0.68	0.66	0.83	0.60	0.74
WEIGHT (LBS)	28	28	28	28	28	28	28

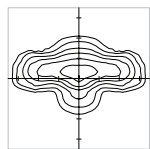
* Measurements are the same for Top 4

PRODUCT SPECIFICATIONS

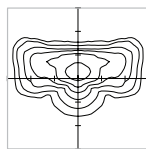
OPTICS

Silicone optics high photothermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

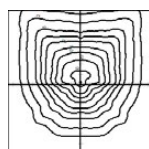
IES Types



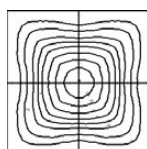
TYPE II (T2)



TYPE III (T3)



TYPE IV FORWARD
THROW WIDE
(T4FTW)

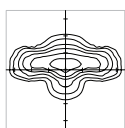


TYPE V WIDE
(T5W)

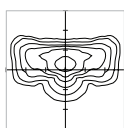
OPTICS

Star Power T2, T3, T4 and T5

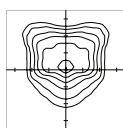
- IES Types



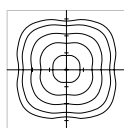
TYPE II (T2)



TYPE III (T3)

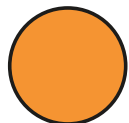


TYPE IV (T4)

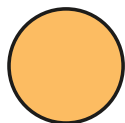


TYPE V (T5)

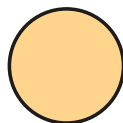
LED KELVIN RANGE



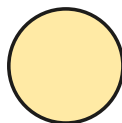
AMBER
585-600 nm



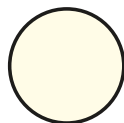
2700K 70 CRI



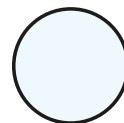
3000K 70 CRI



3500K 80 CRI



4000K 70 CRI



5000K 70 CRI

Color	Dominant or Peak Wavelength Range (nm)	
	Minimum	Maximum
Amber	585	600

Lumen Maintenance Data							
Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours**
25°C	Up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	1050mA	48,000	143,000	94.3%	89.5%	87.2%	78.5%
*Reported extrapolations per IESNA TM-21				**Projected extrapolations per IESNA TM-21			

Performance Plus Solution

What is "Performance Plus"?

Light Pattern Optimization + Lumen Maintenance Longevity + High Efficacy + Visual Comfort

Performance Plus solutions combine Performance Silicone Micro Optics with maximum LED count at lower drive currents. This strategy enhances luminaire efficiency, visual comfort, and the reduced maintenance costs already associated with NLS's Performance Silicone Micro Optics. It can also deliver an additional 20% in savings for both new construction and retrofit projects.



Performance Series Silicone Micro Optics

Maximum LED Count at Lower Drive Current

Do More With Less

New Construction:

Saves tens-to-hundreds of thousands of dollars in upfront project cost

Performance Silicone Micro Optics save end users thousands in material and installation costs by reducing the fixtures by an average of 15%. Efficient and precise Performance Silicone Micro Optics materially improve fixture spacing without sacrificing light levels.

Retrofit:

Saves tens-to-hundreds of thousands of dollars in project life cycle energy

Performance Silicone Micro Optics provide substantial energy savings, while markedly outperforming industry benchmarks for light output depreciation and illumination quality.



PRODUCT SPECIFICATIONS

LUMEN CHARTS

STAR POWER OPTICS									
PART NUMBER	T2	LM/W	T3	LM/W	T4	LM/W	T5	LM/W	WATTAGE
CAL-1-32L-7-30K7	7242	102	7313	103	7384	104	7100	100	71
CAL-1-32L-7-40K7	7526	106	7597	107	7597	107	7313	103	71
CAL-1-32L-7-50K7	7952	112	7881	111	7952	112	7526	106	71
CAL-1-32L-1-30K7	10812	102	10918	103	11024	104	10600	100	106
CAL-1-32L-1-40K7	11236	106	11342	107	11342	107	10918	103	106
CAL-1-32L-1-50K7	11872	112	11766	111	11872	112	11236	106	106
CAL-1-48L-35-30K7	5202	102	5304	104	5406	106	5151	101	51
CAL-1-48L-35-40K7	5406	106	5508	108	5661	111	5355	105	51
CAL-1-48L-35-50K7	5610	110	5712	112	5865	115	5457	107	51
CAL-1-48L-53-30K7	8160	102	8320	104	8480	106	8080	101	80
CAL-1-48L-53-40K7	8480	106	8640	108	8880	111	8400	105	80
CAL-1-48L-53-50K7	8800	110	8960	112	9200	115	8560	107	80
CAL-1-48L-7-30K7	10608	102	10816	104	11024	106	10504	101	104
CAL-1-48L-7-40K7	11024	106	11232	108	11544	111	10920	105	104
CAL-1-48L-7-50K7	11440	110	11648	112	11960	115	11128	107	104
CAL-1-48L-1-30K7	15912	102	16224	104	16536	106	15756	101	156
CAL-1-48L-1-40K7	16536	106	16848	108	17316	111	16380	105	156
CAL-1-48L-1-50K7	17160	110	17472	112	17940	115	16692	107	156
CAL-1-64L-35-30K7	6732	102	6864	104	6996	106	6666	101	66
CAL-1-64L-35-40K7	6996	106	7128	108	7326	111	6930	105	66
CAL-1-64L-35-50K7	7260	110	7392	112	7590	115	7062	107	66
CAL-1-64L-53-30K7	10404	102	10608	104	10812	106	10302	101	102
CAL-1-64L-53-40K7	10812	106	11016	108	11322	111	10710	105	102
CAL-1-64L-53-50K7	11220	110	11424	112	11730	115	10914	107	102
CAL-1-64L-7-30K7	13974	102	14248	104	14522	106	13837	101	137
CAL-1-64L-7-40K7	14522	106	14796	108	15207	111	14385	105	137
CAL-1-64L-7-50K7	15070	110	15344	112	15755	115	14659	107	137
CAL-1-64L-1-30K7	20910	102	21320	104	21730	106	20705	101	205
CAL-1-64L-1-40K7	21730	106	22140	108	22755	111	21525	105	205
CAL-1-64L-1-50K7	22550	110	22960	112	23575	115	21935	107	205

3000k or warmer must be selected to meet International Dark-Sky Association certification.

SILICONE MICRO OPTICS - 32 LED									
PART NUMBER	T2	LPW	T3	LPW	T4FTW	LPW	T5W	LPW	WATTAGE
CAL-1-32L-35-27K7	4355	121	4294	119	4052	113	4415	123	36
CAL-1-32L-35-27K8	3821	106	3768	105	3555	99	3874	108	36
CAL-1-32L-35-30K7	5054	140	4984	138	4703	131	5125	142	36
CAL-1-32L-35-30K8	4023	112	3967	110	3743	104	4079	113	36
CAL-1-32L-35-35K8	4147	115	4090	114	3859	107	4205	117	36
CAL-1-32L-35-40K7	5184	144	5112	142	4824	134	5256	146	36
CAL-1-32L-35-40K8	4303	120	4243	118	4004	111	4362	121	36
CAL-1-32L-35-50K7	5184	144	5112	142	4824	134	5256	146	36
CAL-1-32L-35-50K8	4303	120	4243	118	4004	111	4362	121	36
CAL-1-32L-53-27K7	6078	113	6033	112	5625	104	6169	114	54
CAL-1-32L-53-27K8	5333	99	5293	98	4935	91	5413	100	54
CAL-1-32L-53-30K7	7055	131	7002	130	6529	121	7160	133	54
CAL-1-32L-53-30K8	5615	104	5573	103	5196	96	5699	106	54
CAL-1-32L-53-35K8	5789	107	5746	106	5357	99	5875	109	54
CAL-1-32L-53-40K7	7236	134	7182	133	6696	124	7344	136	54
CAL-1-32L-53-40K8	6006	111	5961	110	5558	103	6096	113	54
CAL-1-32L-53-50K7	7236	134	7182	133	6696	124	7344	136	54
CAL-1-32L-53-50K8	6006	111	5961	110	5558	103	6096	113	54
CAL-1-32L-7-27K7	7395	104	7336	103	6799	96	7515	106	71
CAL-1-32L-7-27K8	6489	91	6436	91	5965	84	6593	93	71
CAL-1-32L-7-30K7	8584	121	8515	120	7892	111	8722	123	71
CAL-1-32L-7-30K8	6832	96	6777	95	6281	88	6942	98	71
CAL-1-32L-7-35K8	7043	99	6986	98	6475	91	7157	101	71
CAL-1-32L-7-40K7	8804	124	8733	123	8094	114	8946	126	71
CAL-1-32L-7-40K8	7307	103	7248	102	6718	95	7425	105	71
CAL-1-32L-7-50K7	8804	124	8733	123	8094	114	8946	126	71
CAL-1-32L-7-50K8	7307	103	7248	102	6718	95	7425	105	71
CAL-1-32L-1-27K7	11151	102	11054	101	10289	94	11365	104	109
CAL-1-32L-1-27K8	9784	90	9699	89	9028	83	9972	91	109
CAL-1-32L-1-30K7	12943	119	12831	118	11943	110	13192	121	109
CAL-1-32L-1-30K8	10301	95	10212	94	9505	87	10499	96	109
CAL-1-32L-1-35K8	10620	97	10528	97	9799	90	10824	99	109
CAL-1-32L-1-40K7	13275	122	13160	121	12249	112	13530	124	109
CAL-1-32L-1-40K8	11018	101	10923	100	10167	93	11230	103	109
CAL-1-32L-1-50K7	13275	122	13160	121	12249	112	13530	124	109
CAL-1-32L-1-50K8	11018	101	10923	100	10167	93	11230	103	109



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PRODUCT SPECIFICATIONS

LUMEN CHARTS

SILICONE MICRO OPTICS - 48 LED									
PART NUMBER	T2	LPW	T3	LPW	T4FTW	LPW	T5W	LPW	WATTAGE
CAL-1-48L-35-27K7	6469	127	6297	123	5741	113	6512	128	51
CAL-1-48L-35-27K8	5676	111	5525	108	5037	99	5713	112	51
CAL-1-48L-35-30K7	7508	147	7310	143	6663	131	7558	148	51
CAL-1-48L-35-30K8	5976	117	5818	114	5303	104	6016	118	51
CAL-1-48L-35-35K8	6161	121	5998	118	5467	107	6202	122	51
CAL-1-48L-35-40K7	7701	151	7497	147	6834	134	7752	152	51
CAL-1-48L-35-40K8	6392	125	6223	122	5672	111	6434	126	51
CAL-1-48L-35-50K7	7701	151	7497	147	6834	134	7752	152	51
CAL-1-48L-35-50K8	6392	125	6223	122	5672	111	6434	126	51
CAL-1-48L-53-27K7	9542	119	9274	116	8400	105	9610	120	80
CAL-1-48L-53-27K8	8372	105	8136	102	7370	92	8431	105	80
CAL-1-48L-53-30K7	11076	138	10764	135	9750	122	11154	139	80
CAL-1-48L-53-30K8	8815	110	8567	107	7760	97	8877	111	80
CAL-1-48L-53-35K8	9088	114	8832	110	8000	100	9152	114	80
CAL-1-48L-53-40K7	11360	142	11040	138	10000	125	11440	143	80
CAL-1-48L-53-40K8	9429	118	9163	115	8300	104	9495	119	80
CAL-1-48L-53-50K7	11360	142	11040	138	10000	125	11440	143	80
CAL-1-48L-53-50K8	9429	118	9163	115	8300	104	9495	119	80
CAL-1-48L-7-27K7	11532	111	11182	108	10046	97	11619	112	104
CAL-1-48L-7-27K8	10118	97	9811	94	8815	85	10194	98	104
CAL-1-48L-7-30K7	13385	129	12979	125	11661	112	13486	130	104
CAL-1-48L-7-30K8	10653	102	10330	99	9281	89	10734	103	104
CAL-1-48L-7-35K8	10982	106	10650	102	9568	92	11066	106	104
CAL-1-48L-7-40K7	13728	132	13312	128	11960	115	13832	133	104
CAL-1-48L-7-40K8	11394	110	11049	106	9927	95	11481	110	104
CAL-1-48L-7-50K7	13728	132	13312	128	11960	115	13832	133	104
CAL-1-48L-7-50K8	11394	110	11049	106	9927	95	11481	110	104
CAL-1-48L-1-27K7	17094	110	16469	106	14800	95	17119	110	156
CAL-1-48L-1-27K8	14998	96	14450	93	12985	83	15020	96	156
CAL-1-48L-1-30K7	19841	127	19116	123	17179	110	19871	127	156
CAL-1-48L-1-30K8	15792	101	15214	98	13672	88	15815	101	156
CAL-1-48L-1-35K8	16280	104	15685	101	14095	90	16304	105	156
CAL-1-48L-1-40K7	20350	130	19606	126	17619	113	20380	131	156
CAL-1-48L-1-40K8	16891	108	16273	104	14624	94	16915	108	156
CAL-1-48L-1-50K7	20350	130	19606	126	17619	113	20380	131	156
CAL-1-48L-1-50K8	16891	108	16273	104	14624	94	16915	108	156

PRODUCT SPECIFICATIONS

LUMEN CHARTS

SILICONE MICRO OPTICS - 64 LED									
PART NUMBER	T2	LPW	T3	LPW	T4FTW	LPW	T5W	LPW	WATTAGE
CAL-1-64L-35-27K7	8150	123	8039	122	7374	112	8205	124	66
CAL-1-64L-35-27K8	7150	108	7053	107	6469	98	7199	109	66
CAL-1-64L-35-30K7	9459	143	9331	141	8559	130	9524	144	66
CAL-1-64L-35-30K8	7529	114	7426	113	6812	103	7580	115	66
CAL-1-64L-35-35K8	7762	118	7656	116	7022	106	7814	118	66
CAL-1-64L-35-40K7	9702	147	9570	145	8778	133	9768	148	66
CAL-1-64L-35-40K8	8053	122	7943	120	7286	110	8107	123	66
CAL-1-64L-35-50K7	9702	147	9570	145	8778	133	9768	148	66
CAL-1-64L-35-50K8	8053	122	7943	120	7286	110	8107	123	66
CAL-1-64L-53-27K7	11824	116	11652	114	10624	104	11910	117	102
CAL-1-64L-53-27K8	10374	102	10224	100	9322	91	10449	102	102
CAL-1-64L-53-30K7	13724	135	13525	133	12332	121	13824	136	102
CAL-1-64L-53-30K8	10923	107	10765	106	9815	96	11002	108	102
CAL-1-64L-53-35K8	11261	110	11098	109	10118	99	11342	111	102
CAL-1-64L-53-40K7	14076	138	13872	136	12648	124	14178	139	102
CAL-1-64L-53-40K8	11683	115	11514	113	10498	103	11768	115	102
CAL-1-64L-53-50K7	14076	138	13872	136	12648	124	14178	139	102
CAL-1-64L-53-50K8	11683	115	11514	113	10498	103	11768	115	102
CAL-1-64L-7-27K7	14730	108	14500	106	13119	96	14845	108	137
CAL-1-64L-7-27K8	12924	94	12722	93	11510	84	13025	95	137
CAL-1-64L-7-30K7	17098	125	16830	123	15228	111	17231	126	137
CAL-1-64L-7-30K8	13608	99	13395	98	12120	88	13714	100	137
CAL-1-64L-7-35K8	14029	102	13810	101	12494	91	14138	103	137
CAL-1-64L-7-40K7	17536	128	17262	126	15618	114	17673	129	137
CAL-1-64L-7-40K8	14555	106	14327	105	12963	95	14669	107	137
CAL-1-64L-7-50K7	17536	128	17262	126	15618	114	17673	129	137
CAL-1-64L-7-50K8	14555	106	14327	105	12963	95	14669	107	137
CAL-1-64L-1-27K7	21563	106	21144	104	19081	94	21656	107	203
CAL-1-64L-1-27K8	18919	93	18552	91	16742	82	19001	94	203
CAL-1-64L-1-30K7	25028	123	24543	121	22148	109	25136	124	203
CAL-1-64L-1-30K8	19920	98	19533	96	17628	87	20006	99	203
CAL-1-64L-1-35K8	20536	101	20138	99	18173	90	20625	102	203
CAL-1-64L-1-40K7	25670	126	25172	124	22716	112	25781	127	203
CAL-1-64L-1-40K8	21306	105	20893	103	18854	93	21398	105	203
CAL-1-64L-1-50K7	25670	126	25172	124	22716	112	25781	127	203
CAL-1-64L-1-50K8	21306	105	20893	103	18854	93	21398	105	203

PRODUCT SPECIFICATIONS

BUG CHARTS

SILICONE MICRO OPTICS - 32 LED				
PART NUMBER	T2	T3	T4FTW	T5W
CAL-1-32L-35-27K7	B1-U0-G1	B1-U0-G1	B1-U0-G2	B3-U0-G2
CAL-1-32L-35-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G2	B3-U0-G1
CAL-1-32L-35-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G2	B3-U0-G2
CAL-1-32L-35-30K8	B1-U0-G1	B1-U0-G1	B1-U0-G2	B3-U0-G2
CAL-1-32L-35-35K8	B1-U0-G1	B1-U0-G1	B1-U0-G2	B3-U0-G2
CAL-1-32L-35-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G2	B3-U0-G2
CAL-1-32L-35-40K8	B1-U0-G1	B1-U0-G1	B1-U0-G2	B3-U0-G2
CAL-1-32L-35-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G2	B3-U0-G2
CAL-1-32L-35-50K8	B1-U0-G1	B1-U0-G1	B1-U0-G2	B3-U0-G2
CAL-1-32L-53-27K7	B1-U0-G1	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-32L-53-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G3	B3-U0-G2
CAL-1-32L-53-30K7	B2-U0-G2	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-32L-53-30K8	B1-U0-G1	B1-U0-G1	B1-U0-G3	B3-U0-G2
CAL-1-32L-53-35K8	B1-U0-G1	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-32L-53-40K7	B2-U0-G2	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-32L-53-40K8	B1-U0-G1	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-32L-53-50K7	B2-U0-G2	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-32L-53-50K8	B1-U0-G1	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-32L-7-27K7	B2-U0-G2	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-32L-7-27K8	B1-U0-G1	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-32L-7-30K7	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G2
CAL-1-32L-7-30K8	B2-U0-G2	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-32L-7-35K8	B2-U0-G2	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-32L-7-40K7	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G2
CAL-1-32L-7-40K8	B2-U0-G2	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-32L-7-50K7	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G2
CAL-1-32L-7-50K8	B2-U0-G2	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-32L-1-27K7	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-32L-1-27K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-32L-1-30K7	B2-U0-G2	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-32L-1-30K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-32L-1-35K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-32L-1-40K7	B2-U0-G2	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-32L-1-40K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-32L-1-50K7	B2-U0-G2	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-32L-1-50K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3

SILICONE MICRO OPTICS - 48 LED				
PART NUMBER	T2	T3	T4FTW	T5W
CAL-1-48L-35-27K7	B1-U0-G1	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-48L-35-27K8	B1-U0-G1	B1-U0-G1	B1-U0-G3	B3-U0-G2
CAL-1-48L-35-30K7	B2-U0-G2	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-48L-35-30K8	B1-U0-G1	B1-U0-G1	B1-U0-G3	B3-U0-G2
CAL-1-48L-35-35K8	B1-U0-G1	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-48L-35-40K7	B2-U0-G2	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-48L-35-40K8	B1-U0-G1	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-48L-35-50K7	B2-U0-G2	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-48L-35-50K8	B1-U0-G1	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-48L-53-27K7	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-48L-53-27K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3
CAL-1-48L-53-30K7	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-48L-53-30K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-48L-53-35K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-48L-53-40K7	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-48L-53-40K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-48L-53-50K7	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-48L-53-50K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-48L-7-27K7	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-48L-7-27K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-48L-7-30K7	B2-U0-G2	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-48L-7-30K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-48L-7-35K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-48L-7-40K7	B2-U0-G2	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-48L-7-40K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-48L-7-50K7	B2-U0-G2	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-48L-7-50K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-48L-1-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G3
CAL-1-48L-1-27K8	B3-U0-G3	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-48L-1-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G5	B5-U0-G4
CAL-1-48L-1-30K8	B3-U0-G3	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-48L-1-35K8	B3-U0-G3	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-48L-1-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G5	B5-U0-G4
CAL-1-48L-1-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G3
CAL-1-48L-1-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G5	B5-U0-G4
CAL-1-48L-1-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G4	B4-U0-G3

PRODUCT SPECIFICATIONS

BUG CHARTS

SILICONE MICRO OPTICS - 64 LED				
PART NUMBER	T2	T3	T4FTW	T5W
CAL-1-64L-35-27K7	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G2
CAL-1-64L-35-27K8	B2-U0-G2	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-64L-35-30K7	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-64L-35-30K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G2
CAL-1-64L-35-35K8	B2-U0-G2	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-64L-35-40K7	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-64L-35-40K8	B2-U0-G2	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-64L-35-50K7	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-64L-35-50K8	B2-U0-G2	B2-U0-G2	B1-U0-G3	B3-U0-G2
CAL-1-64L-53-27K7	B2-U0-G2	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-64L-53-27K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-64L-53-30K7	B2-U0-G2	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-64L-53-30K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-64L-53-35K8	B2-U0-G2	B2-U0-G2	B2-U0-G3	B4-U0-G3
CAL-1-64L-53-40K7	B3-U0-G3	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-64L-53-40K8	B2-U0-G2	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-64L-53-50K7	B3-U0-G3	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-64L-53-50K8	B2-U0-G2	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-64L-7-27K7	B3-U0-G3	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-64L-7-27K8	B2-U0-G2	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-64L-7-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
CAL-1-64L-7-30K8	B2-U0-G2	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-64L-7-35K8	B3-U0-G3	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-64L-7-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
CAL-1-64L-7-40K8	B3-U0-G3	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-64L-7-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G4	B5-U0-G3
CAL-1-64L-7-50K8	B3-U0-G3	B3-U0-G3	B2-U0-G4	B4-U0-G3
CAL-1-64L-1-27K7	B3-U0-G3	B3-U0-G3	B3-U0-G5	B5-U0-G4
CAL-1-64L-1-27K8	B3-U0-G3	B3-U0-G3	B3-U0-G5	B5-U0-G3
CAL-1-64L-1-30K7	B3-U0-G3	B3-U0-G3	B3-U0-G5	B5-U0-G4
CAL-1-64L-1-30K8	B3-U0-G3	B3-U0-G3	B3-U0-G5	B5-U0-G4
CAL-1-64L-1-35K8	B3-U0-G3	B3-U0-G3	B3-U0-G5	B5-U0-G4
CAL-1-64L-1-40K7	B3-U0-G3	B3-U0-G3	B3-U0-G5	B5-U0-G4
CAL-1-64L-1-40K8	B3-U0-G3	B3-U0-G3	B3-U0-G5	B5-U0-G4
CAL-1-64L-1-50K7	B3-U0-G3	B3-U0-G3	B3-U0-G5	B5-U0-G4
CAL-1-64L-1-50K8	B3-U0-G3	B3-U0-G3	B3-U0-G5	B5-U0-G4

PRODUCT SPECIFICATIONS

CAL - 1 ARM OPTIONS



ARCHITECTURAL ARM 1



ARCHITECTURAL ARM 2



ARCHITECTURAL ARM 3



ARCHITECTURAL ARM 4



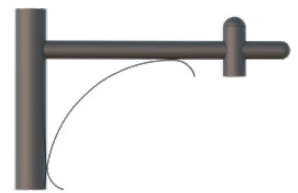
ARCHITECTURAL ARM 5



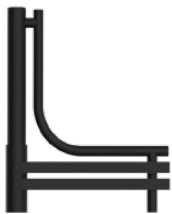
ARCHITECTURAL ARM 6



ARCHITECTURAL ARM 7



ARCHITECTURAL ARM 8



ARCHITECTURAL ARM 10



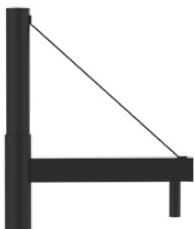
ARCHITECTURAL ARM 15



ARCHITECTURAL ARM 16



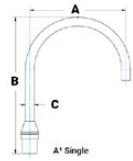
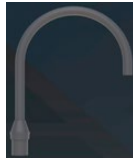
ARCHITECTURAL ARM 17



ARCHITECTURAL ARM 18

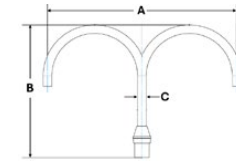
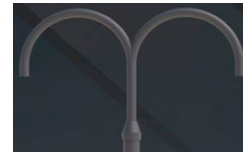
PRODUCT SPECIFICATIONS

CAL - 1 ARM OPTIONS



SINGLE ARMS

MODEL	A	B	C	EPA	WEIGHT (lbs)
A1-L-SGL	26"	38"	2-3/8"	0.82	8.98
A2-L-SGL	26"	38"	2-3/8"	0.59	13.75
A3-L-SGL	26"	38"	2-3/8"	0.64	21.45
A4-L-SGL	26"	38"	2-3/8"	0.61	13.85
A5-L-SGL	26"	38"	2-3/8"	0.65	11.02
A6-L-SGL	26"	38"	2-3/8"	0.60	10.63
A7-L-SGL	26"	38"	2-3/8"	0.82	11.60
A8-S-SGL	20"	18"	2-3/8"	0.40	9.37
A8-L-SGL	26"	23"	-	0.53	11.65
A10-S-SGL	21.5"	30"	-	0.40	29.25
A10-L-SGL	26"	36"	-	1.11	24.08
A11-SGL	24"	40"	-	1.00	20.18
A13-L-SGL	16"	12"	-	0.35	8.45
A14-S-SGL-3.5	17"	15"	-	0.39	6.60
A14-S-SGL-4	17"	15"	-	0.39	6.60
A14-S-SGL-4.5	17"	15"	-	0.39	6.60
A14-S-SGL-5	17"	15"	-	0.39	6.60
A14-L-SGL-3.5	26"	18"	-	0.51	8.03
A14-L-SGL-4	26"	18"	-	0.51	8.03
A14-L-SGL-4.5	26"	18"	-	0.51	8.03
A14-L-SGL-5	26"	18"	-	0.51	8.03
A15-S-SGL-3.5	48"	28"	-	0.68	12.48
A15-S-SGL-4	48"	28"	-	0.68	12.48
A15-S-SGL-4.5	48"	28"	-	0.68	12.48
A15-S-SGL-5	48"	28"	-	0.68	12.48
A15-L-SGL-3.5	60"	28"	-	0.82	14.57
A15-L-SGL-4	60"	28"	-	0.82	14.57
A15-L-SGL-4.5	60"	28"	-	0.82	14.57
A15-L-SGL-5	60"	28"	-	0.82	14.57
A16-S-SGL	48"	28"	-	0.60	10.42
A16-L-SGL	60"	28"	-	0.74	12.81
A16-XL-SGL	72"	28"	-	0.82	14.18
A16-XXL-SGL	84"	28"	-	0.94	13.80
A17-S-SGL	17"	20"	-	0.60	11.34
A17-L-SGL	26"	38"	-	0.95	17.70
A18-S-SGL	21.5"	30"	-	0.72	12.21
A18-L-SGL	26"	36"	-	1.01	18.58

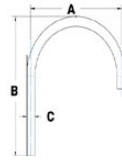
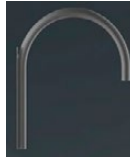


DOUBLE ARMS

MODEL	A	B	C	EPA	WEIGHT (lbs)
A1-L-D180 (1-1/2" SCH40)	52"	38"	2-3/8"	1.27	14.10
A2-L-D180 (1-1/2" SCH40)	52"	38"	2-3/8"	1.03	27.51
A3-L-D180 (1-1/2" SCH40)	52"	38"	2-3/8"	1.11	32.76
A4-L-D180 (1-1/2" SCH40)	52"	38"	2-3/8"	0.95	22.62
A5-L-D180 (1-1/2" SCH40)	52"	38"	2-3/8"	1.03	17.45
A6-L-D180	52"	38"	2-3/8"	0.93	18.14
A7-L-D180	52"	38"	2-3/8"	1.27	20.28
A8-S-D180	40"	18"	2-3/8"	1.27	18.75
A8-L-D180	52"	23"	-	1.27	16.46
A10-S-D180	43"	30"	-	0.86	49.88
A10-L-D180	52"	36"	-	1.78	59.09
A11-L-D180	48"	40"	-	1.33	40.27
A13-L-D180	32"	12"	-	0.56	17.84
A14-S-D180-3.5	34	15"	-	0.59	13.16
A14-S-D180-4	34	15"	-	0.59	13.16
A14-S-D180-4.5	34	15"	-	0.59	13.16
A14-S-D180-5	34	15"	-	0.59	13.16
A14-L-D180-3.5	52	18"	-	0.78	16.09
A14-L-D180-4	52	18"	-	0.78	16.09
A14-L-D180-4.5	52	18"	-	0.78	16.09
A14-L-D180-5	52	18"	-	0.78	16.09
A15-S-D180-3.5	96"	28"	-	1.13	20.48
A15-S-D180-4	96"	28"	-	1.13	20.48
A15-S-D180-4.5	96"	28"	-	1.13	20.48
A15-S-D180-5	96"	28"	-	1.13	20.48
A15-L-D180-3.5	120"	28"	-	1.37	24.18
A15-L-D180-4	120"	28"	-	1.37	24.18
A15-L-D180-4.5	120"	28"	-	1.37	24.18
A15-L-D180-5	120"	28"	-	1.37	24.18
A16-S-D180	96"	28"	-	0.97	16.99
A16-L-D180	120"	28"	-	1.21	21.01
A16-XL-D180	144"	28"	-	1.37	24.00
A16-XXL-D180	168"	28"	-	1.57	22.64
A17-S-D180	34"	20"	-	0.93	18.31
A17-L-D180	52"	38"	-	1.41	26.90
A18-S-D180	43"	30"	-	1.03	16.29
A18-L-D180	52"	36"	-	1.41	24.02

PRODUCT SPECIFICATIONS

CAL - 1 ARM OPTIONS

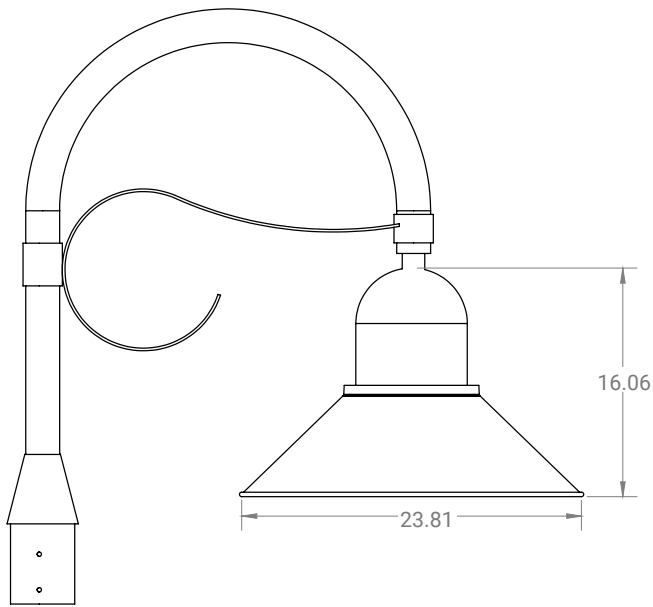


WALL MOUNT

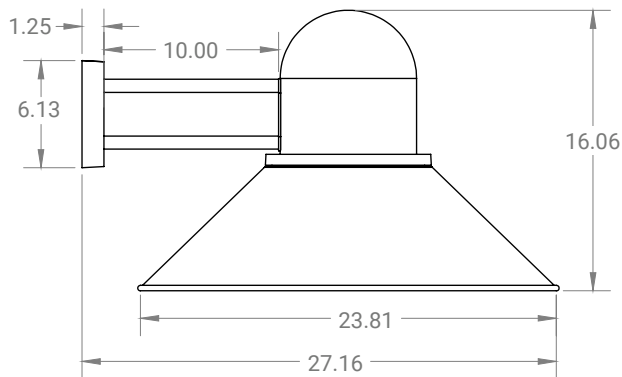
MODEL	A	B	C	EPA	WEIGHT (lbs)
A1-L-WM	26"	38"	2-3/8"	1.00	9.45
A2-L-WM	26"	38"	2-3/8"	0.56	10.59
A3-L-WM	26"	38"	2-3/8"	0.67	26.23
A4-L-WM	26"	38"	2-3/8"	0.53	12.77
A5-L-WM	26"	38"	2-3/8"	0.53	12.77
A6-L-WM	26"	38"	2-3/8"	0.52	11.51
A7-L-WM	26"	38"	2-3/8"	0.53	20.28
A8-S-WM	20"	18"	2-3/8"	0.32	7.68
A8-L-WM	26"	23"	-	0.53	8.07
A10-S-WM	21..5"	30"	-	0.32	27.95
A10-L-WM	26"	36"	-	0.73	31.40
A11-WM	24"	40"	-	0.73	9.05
A13-L-WM	16"	12"	-	0.73	8.40
A14-S-WM	17"	15"	-	0.22	5.67
A14-L-WM	26"	18"	-	0.73	8.45
A15-S-WM	48"	28"	-	0.43	10.58
A15-L-WM	60"	28"	-	0.82	8.98
A16-S-WM	48"	28"	-	0.60	10.42
A17-S-WM	17"	20"	-	0.43	10.58
A17-L-WM	26"	38"	-	0.82	14.18
A18-S-WM	21.5"	30"	-	0.34	9.12
A18-L-WM	26"	36"	-	0.47	12.04

PRODUCT SPECIFICATIONS

CAL - 1 ARM MOUNT



CAL - 1 WALL MOUNT



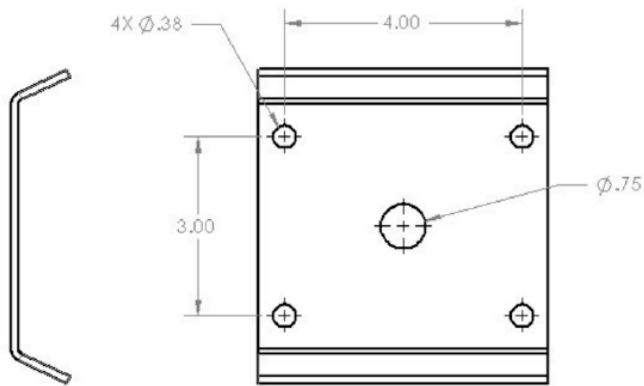
CAL - 1 SENSOR LOCATION



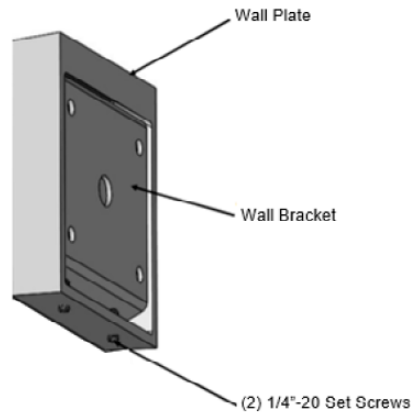
PRODUCT SPECIFICATIONS

MOUNTING INSTRUCTION

WALL MOUNTING BRACKET



WALL MOUNTING BRACKET



- Secure the Wall Mounting Bracket to the wall.
- Connect input wires per the National Electrical/ Local Codes.
- Tilt up the Luminaire then hang it on the Wall Mounting Bracket
- Tighten the (2) 1/4" - 20 Set Screws to secure the Luminaire.

PRODUCT SPECIFICATIONS

CAL - 1 FIXTURE/ARM COMBINATIONS

[illegible]

PRODUCT SPECIFICATIONS

CAL - 1 FIXTURE/ARM COMBINATIONS

A1-L

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S1-A1-L-WM
CAL-1-TP1-S2-A1-L-WM
CAL-1-TP1-S3-A1-L-WM
CAL-1-TP1-S4-A1-L-WM
CAL-1-TP1-S5-A1-L-WM
CAL-1-TP1-S6-A1-L-WM
CAL-1-TP1-S7-A1-L-WM
CAL-1-TP1-S8-A1-L-WM
CAL-1-TP2-S1-A1-L-WM
CAL-1-TP2-S2-A1-L-WM
CAL-1-TP2-S3-A1-L-WM
CAL-1-TP2-S4-A1-L-WM
CAL-1-TP2-S5-A1-L-WM
CAL-1-TP2-S6-A1-L-WM
CAL-1-TP2-S7-A1-L-WM
CAL-1-TP2-S8-A1-L-WM
CAL-1-TP3-S1-A1-L-WM
CAL-1-TP3-S2-A1-L-WM
CAL-1-TP3-S3-A1-L-WM
CAL-1-TP3-S4-A1-L-WM
CAL-1-TP3-S5-A1-L-WM
CAL-1-TP3-S6-A1-L-WM
CAL-1-TP3-S7-A1-L-WM
CAL-1-TP3-S8-A1-L-WM

A2-L

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S1-A2-L-WM
CAL-1-TP1-S2-A2-L-WM
CAL-1-TP1-S3-A2-L-WM
CAL-1-TP1-S4-A2-L-WM
CAL-1-TP1-S5-A2-L-WM
CAL-1-TP1-S6-A2-L-WM
CAL-1-TP1-S7-A2-L-WM
CAL-1-TP1-S8-A2-L-WM
CAL-1-TP2-S1-A2-L-WM
CAL-1-TP2-S2-A2-L-WM
CAL-1-TP2-S3-A2-L-WM
CAL-1-TP2-S4-A2-L-WM
CAL-1-TP2-S5-A2-L-WM
CAL-1-TP2-S6-A2-L-WM
CAL-1-TP2-S7-A2-L-WM
CAL-1-TP2-S8-A2-L-WM
CAL-1-TP3-S1-A2-L-WM
CAL-1-TP3-S2-A2-L-WM
CAL-1-TP3-S3-A2-L-WM
CAL-1-TP3-S4-A2-L-WM
CAL-1-TP3-S5-A2-L-WM
CAL-1-TP3-S6-A2-L-WM
CAL-1-TP3-S7-A2-L-WM
CAL-1-TP3-S8-A2-L-WM

A3-L

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S1-A3-L-WM
CAL-1-TP1-S2-A3-L-WM
CAL-1-TP1-S3-A3-L-WM
CAL-1-TP1-S4-A3-L-WM
CAL-1-TP1-S5-A3-L-WM
CAL-1-TP1-S6-A3-L-WM
CAL-1-TP1-S7-A3-L-WM
CAL-1-TP1-S8-A3-L-WM
CAL-1-TP2-S1-A3-L-WM
CAL-1-TP2-S2-A3-L-WM
CAL-1-TP2-S3-A3-L-WM
CAL-1-TP2-S4-A3-L-WM
CAL-1-TP2-S5-A3-L-WM
CAL-1-TP2-S6-A3-L-WM
CAL-1-TP2-S7-A3-L-WM
CAL-1-TP2-S8-A3-L-WM
CAL-1-TP3-S1-A3-L-WM
CAL-1-TP3-S2-A3-L-WM
CAL-1-TP3-S3-A3-L-WM
CAL-1-TP3-S4-A3-L-WM
CAL-1-TP3-S5-A3-L-WM
CAL-1-TP3-S6-A3-L-WM
CAL-1-TP3-S7-A3-L-WM
CAL-1-TP3-S8-A3-L-WM

A4-L

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S1-A4-L-WM
CAL-1-TP1-S2-A4-L-WM
CAL-1-TP1-S3-A4-L-WM
CAL-1-TP1-S4-A4-L-WM
CAL-1-TP1-S5-A4-L-WM
CAL-1-TP1-S6-A4-L-WM
CAL-1-TP1-S7-A4-L-WM
CAL-1-TP1-S8-A4-L-WM
CAL-1-TP2-S1-A4-L-WM
CAL-1-TP2-S2-A4-L-WM
CAL-1-TP2-S3-A4-L-WM
CAL-1-TP2-S4-A4-L-WM
CAL-1-TP2-S5-A4-L-WM
CAL-1-TP2-S6-A4-L-WM
CAL-1-TP2-S7-A4-L-WM
CAL-1-TP2-S8-A4-L-WM
CAL-1-TP3-S1-A4-L-WM
CAL-1-TP3-S2-A4-L-WM
CAL-1-TP3-S3-A4-L-WM
CAL-1-TP3-S4-A4-L-WM
CAL-1-TP3-S5-A4-L-WM
CAL-1-TP3-S6-A4-L-WM
CAL-1-TP3-S7-A4-L-WM
CAL-1-TP3-S8-A4-L-WM

A5-L

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S1-A5-L-WM
CAL-1-TP1-S2-A5-L-WM
CAL-1-TP1-S3-A5-L-WM
CAL-1-TP1-S4-A5-L-WM
CAL-1-TP1-S5-A5-L-WM
CAL-1-TP1-S6-A5-L-WM
CAL-1-TP1-S7-A5-L-WM
CAL-1-TP1-S8-A5-L-WM
CAL-1-TP2-S1-A5-L-WM
CAL-1-TP2-S2-A5-L-WM
CAL-1-TP2-S3-A5-L-WM
CAL-1-TP2-S4-A5-L-WM
CAL-1-TP2-S5-A5-L-WM
CAL-1-TP2-S6-A5-L-WM
CAL-1-TP2-S7-A5-L-WM
CAL-1-TP2-S8-A5-L-WM
CAL-1-TP3-S1-A5-L-WM
CAL-1-TP3-S2-A5-L-WM
CAL-1-TP3-S3-A5-L-WM
CAL-1-TP3-S4-A5-L-WM
CAL-1-TP3-S5-A5-L-WM
CAL-1-TP3-S6-A5-L-WM
CAL-1-TP3-S7-A5-L-WM
CAL-1-TP3-S8-A5-L-WM

PRODUCT SPECIFICATIONS

CAL - 1 FIXTURE/ARM COMBINATIONS

A6-L	A7-L	A8-S	A8-L	A10-S
FIXTURE/ARM CONFIGURATIONS	FIXTURE/ARM CONFIGURATIONS	FIXTURE/ARM CONFIGURATIONS	FIXTURE/ARM CONFIGURATIONS	FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S1-A6-L-SGL	CAL-1-TP1-S1-A7-L-SGL	CAL-1-TP1-S1-A8-S-SGL	CAL-1-TP1-S1-A8-L-SGL	CAL-1-TP1-S1-A10-S-SGL
CAL-1-TP1-S2-A6-L-SGL	CAL-1-TP1-S2-A7-L-SGL	CAL-1-TP1-S2-A8-S-SGL	CAL-1-TP1-S2-A8-L-SGL	CAL-1-TP1-S2-A10-S-SGL
CAL-1-TP1-S3-A6-L-SGL	CAL-1-TP1-S3-A7-L-SGL	CAL-1-TP1-S3-A8-S-SGL	CAL-1-TP1-S3-A8-L-SGL	CAL-1-TP1-S3-A10-S-SGL
CAL-1-TP1-S4-A6-L-SGL	CAL-1-TP1-S4-A7-L-SGL	CAL-1-TP1-S4-A8-S-SGL	CAL-1-TP1-S4-A8-L-SGL	CAL-1-TP1-S4-A10-S-SGL
CAL-1-TP1-S5-A6-L-SGL	CAL-1-TP1-S5-A7-L-SGL	CAL-1-TP1-S5-A8-S-SGL	CAL-1-TP1-S5-A8-L-SGL	CAL-1-TP1-S5-A10-S-SGL
CAL-1-TP1-S6-A6-L-SGL	CAL-1-TP1-S6-A7-L-SGL	CAL-1-TP1-S6-A8-S-SGL	CAL-1-TP1-S6-A8-L-SGL	CAL-1-TP1-S6-A10-S-SGL
CAL-1-TP1-S7-A6-L-SGL	CAL-1-TP1-S7-A7-L-SGL	CAL-1-TP1-S7-A8-S-SGL	CAL-1-TP1-S7-A8-L-SGL	CAL-1-TP1-S7-A10-S-SGL
CAL-1-TP1-S8-A6-L-SGL	CAL-1-TP1-S8-A7-L-SGL	CAL-1-TP1-S8-A8-S-SGL	CAL-1-TP1-S8-A8-L-SGL	CAL-1-TP1-S8-A10-S-SGL
CAL-1-TP2-S1-A6-L-SGL	CAL-1-TP2-S1-A7-L-SGL	CAL-1-TP2-S1-A8-S-SGL	CAL-1-TP2-S1-A8-L-SGL	CAL-1-TP2-S1-A10-S-SGL
CAL-1-TP2-S2-A6-L-SGL	CAL-1-TP2-S2-A7-L-SGL	CAL-1-TP2-S2-A8-S-SGL	CAL-1-TP2-S2-A8-L-SGL	CAL-1-TP2-S2-A10-S-SGL
CAL-1-TP2-S3-A6-L-SGL	CAL-1-TP2-S3-A7-L-SGL	CAL-1-TP2-S3-A8-S-SGL	CAL-1-TP2-S3-A8-L-SGL	CAL-1-TP2-S3-A10-S-SGL
CAL-1-TP2-S4-A6-L-SGL	CAL-1-TP2-S4-A7-L-SGL	CAL-1-TP2-S4-A8-S-SGL	CAL-1-TP2-S4-A8-L-SGL	CAL-1-TP2-S4-A10-S-SGL
CAL-1-TP2-S5-A6-L-SGL	CAL-1-TP2-S5-A7-L-SGL	CAL-1-TP2-S5-A8-S-SGL	CAL-1-TP2-S5-A8-L-SGL	CAL-1-TP2-S5-A10-S-SGL
CAL-1-TP2-S6-A6-L-SGL	CAL-1-TP2-S6-A7-L-SGL	CAL-1-TP2-S6-A8-S-SGL	CAL-1-TP2-S6-A8-L-SGL	CAL-1-TP2-S6-A10-S-SGL
CAL-1-TP2-S7-A6-L-SGL	CAL-1-TP2-S7-A7-L-SGL	CAL-1-TP2-S7-A8-S-SGL	CAL-1-TP2-S7-A8-L-SGL	CAL-1-TP2-S7-A10-S-SGL
CAL-1-TP2-S8-A6-L-SGL	CAL-1-TP2-S8-A7-L-SGL	CAL-1-TP2-S8-A8-S-SGL	CAL-1-TP2-S8-A8-L-SGL	CAL-1-TP2-S8-A10-S-SGL
CAL-1-TP3-S1-A6-L-SGL	CAL-1-TP3-S1-A7-L-SGL	CAL-1-TP3-S1-A8-S-SGL	CAL-1-TP3-S1-A8-L-SGL	CAL-1-TP3-S1-A10-S-SGL
CAL-1-TP3-S2-A6-L-SGL	CAL-1-TP3-S2-A7-L-SGL	CAL-1-TP3-S2-A8-S-SGL	CAL-1-TP3-S2-A8-L-SGL	CAL-1-TP3-S2-A10-S-SGL
CAL-1-TP3-S3-A6-L-SGL	CAL-1-TP3-S3-A7-L-SGL	CAL-1-TP3-S3-A8-S-SGL	CAL-1-TP3-S3-A8-L-SGL	CAL-1-TP3-S3-A10-S-SGL
CAL-1-TP3-S4-A6-L-SGL	CAL-1-TP3-S4-A7-L-SGL	CAL-1-TP3-S4-A8-S-SGL	CAL-1-TP3-S4-A8-L-SGL	CAL-1-TP3-S4-A10-S-SGL
CAL-1-TP3-S5-A6-L-SGL	CAL-1-TP3-S5-A7-L-SGL	CAL-1-TP3-S5-A8-S-SGL	CAL-1-TP3-S5-A8-L-SGL	CAL-1-TP3-S5-A10-S-SGL
CAL-1-TP3-S6-A6-L-SGL	CAL-1-TP3-S6-A7-L-SGL	CAL-1-TP3-S6-A8-S-SGL	CAL-1-TP3-S6-A8-L-SGL	CAL-1-TP3-S6-A10-S-SGL
CAL-1-TP3-S7-A6-L-SGL	CAL-1-TP3-S7-A7-L-SGL	CAL-1-TP3-S7-A8-S-SGL	CAL-1-TP3-S7-A8-L-SGL	CAL-1-TP3-S7-A10-S-SGL
CAL-1-TP3-S8-A6-L-SGL	CAL-1-TP3-S8-A7-L-SGL	CAL-1-TP3-S8-A8-S-SGL	CAL-1-TP3-S8-A8-L-SGL	CAL-1-TP3-S8-A10-S-SGL
CAL-1-TP1-S1-A6-L-D180	CAL-1-TP1-S1-A7-L-D180	CAL-1-TP1-S1-A8-S-D180	CAL-1-TP1-S1-A8-L-D180	CAL-1-TP1-S1-A10-S-D180
CAL-1-TP1-S2-A6-L-D180	CAL-1-TP1-S2-A7-L-D180	CAL-1-TP1-S2-A8-S-D180	CAL-1-TP1-S2-A8-L-D180	CAL-1-TP1-S2-A10-S-D180
CAL-1-TP1-S3-A6-L-D180	CAL-1-TP1-S3-A7-L-D180	CAL-1-TP1-S3-A8-S-D180	CAL-1-TP1-S3-A8-L-D180	CAL-1-TP1-S3-A10-S-D180
CAL-1-TP1-S4-A6-L-D180	CAL-1-TP1-S4-A7-L-D180	CAL-1-TP1-S4-A8-S-D180	CAL-1-TP1-S4-A8-L-D180	CAL-1-TP1-S4-A10-S-D180
CAL-1-TP1-S5-A6-L-D180	CAL-1-TP1-S5-A7-L-D180	CAL-1-TP1-S5-A8-S-D180	CAL-1-TP1-S5-A8-L-D180	CAL-1-TP1-S5-A10-S-D180
CAL-1-TP1-S6-A6-L-D180	CAL-1-TP1-S6-A7-L-D180	CAL-1-TP1-S6-A8-S-D180	CAL-1-TP1-S6-A8-L-D180	CAL-1-TP1-S6-A10-S-D180
CAL-1-TP1-S7-A6-L-D180	CAL-1-TP1-S7-A7-L-D180	CAL-1-TP1-S7-A8-S-D180	CAL-1-TP1-S7-A8-L-D180	CAL-1-TP1-S7-A10-S-D180
CAL-1-TP1-S8-A6-L-D180	CAL-1-TP1-S8-A7-L-D180	CAL-1-TP1-S8-A8-S-D180	CAL-1-TP1-S8-A8-L-D180	CAL-1-TP1-S8-A10-S-D180
CAL-1-TP2-S1-A6-L-D180	CAL-1-TP2-S1-A7-L-D180	CAL-1-TP2-S1-A8-S-D180	CAL-1-TP2-S1-A8-L-D180	CAL-1-TP2-S1-A10-S-D180
CAL-1-TP2-S2-A6-L-D180	CAL-1-TP2-S2-A7-L-D180	CAL-1-TP2-S2-A8-S-D180	CAL-1-TP2-S2-A8-L-D180	CAL-1-TP2-S2-A10-S-D180
CAL-1-TP2-S3-A6-L-D180	CAL-1-TP2-S3-A7-L-D180	CAL-1-TP2-S3-A8-S-D180	CAL-1-TP2-S3-A8-L-D180	CAL-1-TP2-S3-A10-S-D180
CAL-1-TP2-S4-A6-L-D180	CAL-1-TP2-S4-A7-L-D180	CAL-1-TP2-S4-A8-S-D180	CAL-1-TP2-S4-A8-L-D180	CAL-1-TP2-S4-A10-S-D180
CAL-1-TP2-S5-A6-L-D180	CAL-1-TP2-S5-A7-L-D180	CAL-1-TP2-S5-A8-S-D180	CAL-1-TP2-S5-A8-L-D180	CAL-1-TP2-S5-A10-S-D180
CAL-1-TP2-S6-A6-L-D180	CAL-1-TP2-S6-A7-L-D180	CAL-1-TP2-S6-A8-S-D180	CAL-1-TP2-S6-A8-L-D180	CAL-1-TP2-S6-A10-S-D180
CAL-1-TP2-S7-A6-L-D180	CAL-1-TP2-S7-A7-L-D180	CAL-1-TP2-S7-A8-S-D180	CAL-1-TP2-S7-A8-L-D180	CAL-1-TP2-S7-A10-S-D180
CAL-1-TP2-S8-A6-L-D180	CAL-1-TP2-S8-A7-L-D180	CAL-1-TP2-S8-A8-S-D180	CAL-1-TP2-S8-A8-L-D180	CAL-1-TP2-S8-A10-S-D180
CAL-1-TP3-S1-A6-L-D180	CAL-1-TP3-S1-A7-L-D180	CAL-1-TP3-S1-A8-S-D180	CAL-1-TP3-S1-A8-L-D180	CAL-1-TP3-S1-A10-S-D180
CAL-1-TP3-S2-A6-L-D180	CAL-1-TP3-S2-A7-L-D180	CAL-1-TP3-S2-A8-S-D180	CAL-1-TP3-S2-A8-L-D180	CAL-1-TP3-S2-A10-S-D180
CAL-1-TP3-S3-A6-L-D180	CAL-1-TP3-S3-A7-L-D180	CAL-1-TP3-S3-A8-S-D180	CAL-1-TP3-S3-A8-L-D180	CAL-1-TP3-S3-A10-S-D180
CAL-1-TP3-S4-A6-L-D180	CAL-1-TP3-S4-A7-L-D180	CAL-1-TP3-S4-A8-S-D180	CAL-1-TP3-S4-A8-L-D180	CAL-1-TP3-S4-A10-S-D180
CAL-1-TP3-S5-A6-L-D180	CAL-1-TP3-S5-A7-L-D180	CAL-1-TP3-S5-A8-S-D180	CAL-1-TP3-S5-A8-L-D180	CAL-1-TP3-S5-A10-S-D180
CAL-1-TP3-S6-A6-L-D180	CAL-1-TP3-S6-A7-L-D180	CAL-1-TP3-S6-A8-S-D180	CAL-1-TP3-S6-A8-L-D180	CAL-1-TP3-S6-A10-S-D180
CAL-1-TP3-S7-A6-L-D180	CAL-1-TP3-S7-A7-L-D180	CAL-1-TP3-S7-A8-S-D180	CAL-1-TP3-S7-A8-L-D180	CAL-1-TP3-S7-A10-S-D180
CAL-1-TP3-S8-A6-L-D180	CAL-1-TP3-S8-A7-L-D180	CAL-1-TP3-S8-A8-S-D180	CAL-1-TP3-S8-A8-L-D180	CAL-1-TP3-S8-A10-S-D180

PRODUCT SPECIFICATIONS

CAL - 1 FIXTURE/ARM COMBINATIONS

A6-L

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S1-A6-L-WM
CAL-1-TP1-S2-A6-L-WM
CAL-1-TP1-S3-A6-L-WM
CAL-1-TP1-S4-A6-L-WM
CAL-1-TP1-S5-A6-L-WM
CAL-1-TP1-S6-A6-L-WM
CAL-1-TP1-S7-A6-L-WM
CAL-1-TP1-S8-A6-L-WM
CAL-1-TP2-S1-A6-L-WM
CAL-1-TP2-S2-A6-L-WM
CAL-1-TP2-S3-A6-L-WM
CAL-1-TP2-S4-A6-L-WM
CAL-1-TP2-S5-A6-L-WM
CAL-1-TP2-S6-A6-L-WM
CAL-1-TP2-S7-A6-L-WM
CAL-1-TP2-S8-A6-L-WM
CAL-1-TP3-S1-A6-L-WM
CAL-1-TP3-S2-A6-L-WM
CAL-1-TP3-S3-A6-L-WM
CAL-1-TP3-S4-A6-L-WM
CAL-1-TP3-S5-A6-L-WM
CAL-1-TP3-S6-A6-L-WM
CAL-1-TP3-S7-A6-L-WM
CAL-1-TP3-S8-A6-L-WM

A7-L

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S1-A7-L-WM
CAL-1-TP1-S2-A7-L-WM
CAL-1-TP1-S3-A7-L-WM
CAL-1-TP1-S4-A7-L-WM
CAL-1-TP1-S5-A7-L-WM
CAL-1-TP1-S6-A7-L-WM
CAL-1-TP1-S7-A7-L-WM
CAL-1-TP1-S8-A7-L-WM
CAL-1-TP2-S1-A7-L-WM
CAL-1-TP2-S2-A7-L-WM
CAL-1-TP2-S3-A7-L-WM
CAL-1-TP2-S4-A7-L-WM
CAL-1-TP2-S5-A7-L-WM
CAL-1-TP2-S6-A7-L-WM
CAL-1-TP2-S7-A7-L-WM
CAL-1-TP2-S8-A7-L-WM
CAL-1-TP3-S1-A7-L-WM
CAL-1-TP3-S2-A7-L-WM
CAL-1-TP3-S3-A7-L-WM
CAL-1-TP3-S4-A7-L-WM
CAL-1-TP3-S5-A7-L-WM
CAL-1-TP3-S6-A7-L-WM
CAL-1-TP3-S7-A7-L-WM
CAL-1-TP3-S8-A7-L-WM

A8-S

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S1-A8-S-WM
CAL-1-TP1-S2-A8-S-WM
CAL-1-TP1-S3-A8-S-WM
CAL-1-TP1-S4-A8-S-WM
CAL-1-TP1-S5-A8-S-WM
CAL-1-TP1-S6-A8-S-WM
CAL-1-TP1-S7-A8-S-WM
CAL-1-TP1-S8-A8-S-WM
CAL-1-TP2-S1-A8-S-WM
CAL-1-TP2-S2-A8-S-WM
CAL-1-TP2-S3-A8-S-WM
CAL-1-TP2-S4-A8-S-WM
CAL-1-TP2-S5-A8-S-WM
CAL-1-TP2-S6-A8-S-WM
CAL-1-TP2-S7-A8-S-WM
CAL-1-TP2-S8-A8-S-WM
CAL-1-TP3-S1-A8-S-WM
CAL-1-TP3-S2-A8-S-WM
CAL-1-TP3-S3-A8-S-WM
CAL-1-TP3-S4-A8-S-WM
CAL-1-TP3-S5-A8-S-WM
CAL-1-TP3-S6-A8-S-WM
CAL-1-TP3-S7-A8-S-WM
CAL-1-TP3-S8-A8-S-WM

A8-L

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S1-A8-L-WM
CAL-1-TP1-S2-A8-L-WM
CAL-1-TP1-S3-A8-L-WM
CAL-1-TP1-S4-A8-L-WM
CAL-1-TP1-S5-A8-L-WM
CAL-1-TP1-S6-A8-L-WM
CAL-1-TP1-S7-A8-L-WM
CAL-1-TP1-S8-A8-L-WM
CAL-1-TP2-S1-A8-L-WM
CAL-1-TP2-S2-A8-L-WM
CAL-1-TP2-S3-A8-L-WM
CAL-1-TP2-S4-A8-L-WM
CAL-1-TP2-S5-A8-L-WM
CAL-1-TP2-S6-A8-L-WM
CAL-1-TP2-S7-A8-L-WM
CAL-1-TP2-S8-A8-L-WM
CAL-1-TP3-S1-A8-L-WM
CAL-1-TP3-S2-A8-L-WM
CAL-1-TP3-S3-A8-L-WM
CAL-1-TP3-S4-A8-L-WM
CAL-1-TP3-S5-A8-L-WM
CAL-1-TP3-S6-A8-L-WM
CAL-1-TP3-S7-A8-L-WM
CAL-1-TP3-S8-A8-L-WM

A10-S

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S1-A10-S-WM
CAL-1-TP1-S2-A10-S-WM
CAL-1-TP1-S3-A10-S-WM
CAL-1-TP1-S4-A10-S-WM
CAL-1-TP1-S5-A10-S-WM
CAL-1-TP1-S6-A10-S-WM
CAL-1-TP1-S7-A10-S-WM
CAL-1-TP1-S8-A10-S-WM
CAL-1-TP2-S1-A10-S-WM
CAL-1-TP2-S2-A10-S-WM
CAL-1-TP2-S3-A10-S-WM
CAL-1-TP2-S4-A10-S-WM
CAL-1-TP2-S5-A10-S-WM
CAL-1-TP2-S6-A10-S-WM
CAL-1-TP2-S7-A10-S-WM
CAL-1-TP2-S8-A10-S-WM
CAL-1-TP3-S1-A10-S-WM
CAL-1-TP3-S2-A10-S-WM
CAL-1-TP3-S3-A10-S-WM
CAL-1-TP3-S4-A10-S-WM
CAL-1-TP3-S5-A10-S-WM
CAL-1-TP3-S6-A10-S-WM
CAL-1-TP3-S7-A10-S-WM
CAL-1-TP3-S8-A10-S-WM

PRODUCT SPECIFICATIONS

CAL - 1 FIXTURE/ARM COMBINATIONS

[illegible]

PRODUCT SPECIFICATIONS

CAL - 1 FIXTURE/ARM COMBINATIONS

A15-S

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S2-A15-S-WM
CAL-1-TP1-S3-A15-S-WM
CAL-1-TP1-S4-A15-S-WM
CAL-1-TP1-S5-A15-S-WM
CAL-1-TP1-S6-A15-S-WM
CAL-1-TP1-S7-A15-S-WM
CAL-1-TP1-S8-A15-S-WM
CAL-1-TP2-S1-A15-S-WM
CAL-1-TP2-S2-A15-S-WM
CAL-1-TP2-S3-A15-S-WM
CAL-1-TP2-S4-A15-S-WM
CAL-1-TP2-S5-A15-S-WM
CAL-1-TP2-S6-A15-S-WM
CAL-1-TP2-S7-A15-S-WM
CAL-1-TP2-S8-A15-S-WM
CAL-1-TP3-S1-A15-S-WM
CAL-1-TP3-S2-A15-S-WM
CAL-1-TP3-S3-A15-S-WM
CAL-1-TP3-S4-A15-S-WM
CAL-1-TP3-S5-A15-S-WM
CAL-1-TP3-S6-A15-S-WM
CAL-1-TP3-S7-A15-S-WM
CAL-1-TP3-S8-A15-S-WM
CAL-1-TP3-S8-A15-S-WM

A15-L

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S2-A15-L-WM
CAL-1-TP1-S3-A15-L-WM
CAL-1-TP1-S4-A15-L-WM
CAL-1-TP1-S5-A15-L-WM
CAL-1-TP1-S6-A15-L-WM
CAL-1-TP1-S7-A15-L-WM
CAL-1-TP1-S8-A15-L-WM
CAL-1-TP2-S1-A15-L-WM
CAL-1-TP2-S2-A15-L-WM
CAL-1-TP2-S3-A15-L-WM
CAL-1-TP2-S4-A15-L-WM
CAL-1-TP2-S5-A15-L-WM
CAL-1-TP2-S6-A15-L-WM
CAL-1-TP2-S7-A15-L-WM
CAL-1-TP2-S8-A15-L-WM
CAL-1-TP3-S1-A15-L-WM
CAL-1-TP3-S2-A15-L-WM
CAL-1-TP3-S3-A15-L-WM
CAL-1-TP3-S4-A15-L-WM
CAL-1-TP3-S5-A15-L-WM
CAL-1-TP3-S6-A15-L-WM
CAL-1-TP3-S7-A15-L-WM
CAL-1-TP3-S8-A15-L-WM
CAL-1-TP3-S8-A15-L-WM

A16-S

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S2-A16-S-WM
CAL-1-TP1-S3-A16-S-WM
CAL-1-TP1-S4-A16-S-WM
CAL-1-TP1-S5-A16-S-WM
CAL-1-TP1-S6-A16-S-WM
CAL-1-TP1-S7-A16-S-WM
CAL-1-TP1-S8-A16-S-WM
CAL-1-TP2-S1-A16-S-WM
CAL-1-TP2-S2-A16-S-WM
CAL-1-TP2-S3-A16-S-WM
CAL-1-TP2-S4-A16-S-WM
CAL-1-TP2-S5-A16-S-WM
CAL-1-TP2-S6-A16-S-WM
CAL-1-TP2-S7-A16-S-WM
CAL-1-TP2-S8-A16-S-WM
CAL-1-TP3-S1-A16-S-WM
CAL-1-TP3-S2-A16-S-WM
CAL-1-TP3-S3-A16-S-WM
CAL-1-TP3-S4-A16-S-WM
CAL-1-TP3-S5-A16-S-WM
CAL-1-TP3-S6-A16-S-WM
CAL-1-TP3-S7-A16-S-WM
CAL-1-TP3-S8-A16-S-WM
CAL-1-TP3-S8-A16-S-WM

A16-L

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S2-A16-L-WM
CAL-1-TP1-S3-A16-L-WM
CAL-1-TP1-S4-A16-L-WM
CAL-1-TP1-S5-A16-L-WM
CAL-1-TP1-S6-A16-L-WM
CAL-1-TP1-S7-A16-L-WM
CAL-1-TP1-S8-A16-L-WM
CAL-1-TP2-S1-A16-L-WM
CAL-1-TP2-S2-A16-L-WM
CAL-1-TP2-S3-A16-L-WM
CAL-1-TP2-S4-A16-L-WM
CAL-1-TP2-S5-A16-L-WM
CAL-1-TP2-S6-A16-L-WM
CAL-1-TP2-S7-A16-L-WM
CAL-1-TP2-S8-A16-L-WM
CAL-1-TP3-S1-A16-L-WM
CAL-1-TP3-S2-A16-L-WM
CAL-1-TP3-S3-A16-L-WM
CAL-1-TP3-S4-A16-L-WM
CAL-1-TP3-S5-A16-L-WM
CAL-1-TP3-S6-A16-L-WM
CAL-1-TP3-S7-A16-L-WM
CAL-1-TP3-S8-A16-L-WM
CAL-1-TP3-S8-A16-L-WM

A16-XL

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S2-A16-XL-WM
CAL-1-TP1-S3-A16-XL-WM
CAL-1-TP1-S4-A16-XL-WM
CAL-1-TP1-S5-A16-XL-WM
CAL-1-TP1-S6-A16-XL-WM
CAL-1-TP1-S7-A16-XL-WM
CAL-1-TP1-S8-A16-XL-WM
CAL-1-TP2-S1-A16-XL-WM
CAL-1-TP2-S2-A16-XL-WM
CAL-1-TP2-S3-A16-XL-WM
CAL-1-TP2-S4-A16-XL-WM
CAL-1-TP2-S5-A16-XL-WM
CAL-1-TP2-S6-A16-XL-WM
CAL-1-TP2-S7-A16-XL-WM
CAL-1-TP2-S8-A16-XL-WM
CAL-1-TP3-S1-A16-XL-WM
CAL-1-TP3-S2-A16-XL-WM
CAL-1-TP3-S3-A16-XL-WM
CAL-1-TP3-S4-A16-XL-WM
CAL-1-TP3-S5-A16-XL-WM
CAL-1-TP3-S6-A16-XL-WM
CAL-1-TP3-S7-A16-XL-WM
CAL-1-TP3-S8-A16-XL-WM
CAL-1-TP3-S8-A16-XL-WM

PRODUCT SPECIFICATIONS

CAL - 1 FIXTURE/ARM COMBINATIONS

[illegible]

PRODUCT SPECIFICATIONS

CAL - 1 FIXTURE/ARM COMBINATIONS

A16-XXL

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S1-A16-XXL-WM
CAL-1-TP1-S2-A16-XXL-WM
CAL-1-TP1-S3-A16-XXL-WM
CAL-1-TP1-S4-A16-XXL-WM
CAL-1-TP1-S5-A16-XXL-WM
CAL-1-TP1-S6-A16-XXL-WM
CAL-1-TP1-S7-A16-XXL-WM
CAL-1-TP1-S8-A16-XXL-WM
CAL-1-TP2-S1-A16-XXL-WM
CAL-1-TP2-S2-A16-XXL-WM
CAL-1-TP2-S3-A16-XXL-WM
CAL-1-TP2-S4-A16-XXL-WM
CAL-1-TP2-S5-A16-XXL-WM
CAL-1-TP2-S6-A16-XXL-WM
CAL-1-TP2-S7-A16-XXL-WM
CAL-1-TP2-S8-A16-XXL-WM
CAL-1-TP3-S1-A16-XXL-WM
CAL-1-TP3-S2-A16-XXL-WM
CAL-1-TP3-S3-A16-XXL-WM
CAL-1-TP3-S4-A16-XXL-WM
CAL-1-TP3-S5-A16-XXL-WM
CAL-1-TP3-S6-A16-XXL-WM
CAL-1-TP3-S7-A16-XXL-WM
CAL-1-TP3-S8-A16-XXL-WM

A17-S

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S1-A17-S-WM
CAL-1-TP1-S2-A17-S-WM
CAL-1-TP1-S3-A17-S-WM
CAL-1-TP1-S4-A17-S-WM
CAL-1-TP1-S5-A17-S-WM
CAL-1-TP1-S6-A17-S-WM
CAL-1-TP1-S7-A17-S-WM
CAL-1-TP1-S8-A17-S-WM
CAL-1-TP2-S1-A17-S-WM
CAL-1-TP2-S2-A17-S-WM
CAL-1-TP2-S3-A17-S-WM
CAL-1-TP2-S4-A17-S-WM
CAL-1-TP2-S5-A17-S-WM
CAL-1-TP2-S6-A17-S-WM
CAL-1-TP2-S7-A17-S-WM
CAL-1-TP2-S8-A17-S-WM
CAL-1-TP3-S1-A17-S-WM
CAL-1-TP3-S2-A17-S-WM
CAL-1-TP3-S3-A17-S-WM
CAL-1-TP3-S4-A17-S-WM
CAL-1-TP3-S5-A17-S-WM
CAL-1-TP3-S6-A17-S-WM
CAL-1-TP3-S7-A17-S-WM
CAL-1-TP3-S8-A17-S-WM

A17-L

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S1-A17-L-WM
CAL-1-TP1-S2-A17-L-WM
CAL-1-TP1-S3-A17-L-WM
CAL-1-TP1-S4-A17-L-WM
CAL-1-TP1-S5-A17-L-WM
CAL-1-TP1-S6-A17-L-WM
CAL-1-TP1-S7-A17-L-WM
CAL-1-TP1-S8-A17-L-WM
CAL-1-TP2-S1-A17-L-WM
CAL-1-TP2-S2-A17-L-WM
CAL-1-TP2-S3-A17-L-WM
CAL-1-TP2-S4-A17-L-WM
CAL-1-TP2-S5-A17-L-WM
CAL-1-TP2-S6-A17-L-WM
CAL-1-TP2-S7-A17-L-WM
CAL-1-TP2-S8-A17-L-WM
CAL-1-TP3-S1-A17-L-WM
CAL-1-TP3-S2-A17-L-WM
CAL-1-TP3-S3-A17-L-WM
CAL-1-TP3-S4-A17-L-WM
CAL-1-TP3-S5-A17-L-WM
CAL-1-TP3-S6-A17-L-WM
CAL-1-TP3-S7-A17-L-WM
CAL-1-TP3-S8-A17-L-WM

A18-S

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S1-A18-S-WM
CAL-1-TP1-S2-A18-S-WM
CAL-1-TP1-S3-A18-S-WM
CAL-1-TP1-S4-A18-S-WM
CAL-1-TP1-S5-A18-S-WM
CAL-1-TP1-S6-A18-S-WM
CAL-1-TP1-S7-A18-S-WM
CAL-1-TP1-S8-A18-S-WM
CAL-1-TP2-S1-A18-S-WM
CAL-1-TP2-S2-A18-S-WM
CAL-1-TP2-S3-A18-S-WM
CAL-1-TP2-S4-A18-S-WM
CAL-1-TP2-S5-A18-S-WM
CAL-1-TP2-S6-A18-S-WM
CAL-1-TP2-S7-A18-S-WM
CAL-1-TP2-S8-A18-S-WM
CAL-1-TP3-S1-A18-S-WM
CAL-1-TP3-S2-A18-S-WM
CAL-1-TP3-S3-A18-S-WM
CAL-1-TP3-S4-A18-S-WM
CAL-1-TP3-S5-A18-S-WM
CAL-1-TP3-S6-A18-S-WM
CAL-1-TP3-S7-A18-S-WM
CAL-1-TP3-S8-A18-S-WM

A18-L

FIXTURE/ARM CONFIGURATIONS
CAL-1-TP1-S1-A18-L-WM
CAL-1-TP1-S2-A18-L-WM
CAL-1-TP1-S3-A18-L-WM
CAL-1-TP1-S4-A18-L-WM
CAL-1-TP1-S5-A18-L-WM
CAL-1-TP1-S6-A18-L-WM
CAL-1-TP1-S7-A18-L-WM
CAL-1-TP1-S8-A18-L-WM
CAL-1-TP2-S1-A18-L-WM
CAL-1-TP2-S2-A18-L-WM
CAL-1-TP2-S3-A18-L-WM
CAL-1-TP2-S4-A18-L-WM
CAL-1-TP2-S5-A18-L-WM
CAL-1-TP2-S6-A18-L-WM
CAL-1-TP2-S7-A18-L-WM
CAL-1-TP2-S8-A18-L-WM
CAL-1-TP3-S1-A18-L-WM
CAL-1-TP3-S2-A18-L-WM
CAL-1-TP3-S3-A18-L-WM
CAL-1-TP3-S4-A18-L-WM
CAL-1-TP3-S5-A18-L-WM
CAL-1-TP3-S6-A18-L-WM
CAL-1-TP3-S7-A18-L-WM
CAL-1-TP3-S8-A18-L-WM

PRODUCT SPECIFICATIONS

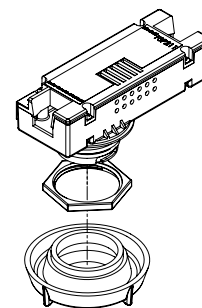
CONTROL OPTIONS

- DIMMING CONTROL (FSP)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-8 mounting heights 8 feet and below
- FSP-20 mounting heights 9-20 feet.
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

FSP-211 WITH MOTION SENSOR (FSP-XX)

- FSP-211(FSP-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- 120/277VAC, 230-240VAC
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-8 mounting heights 8 feet and below
- FSP-20 mounting heights 9-20 feet.
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.
- Standard white finish.

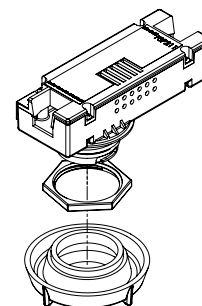
FSP-211



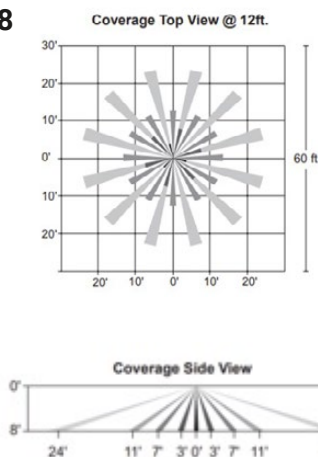
FSP-221 WITH MOTION SENSOR (FSP-HV-XX)

- FSP-221 (FSP-HV-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- 100-347VAC 208/230/480VAC
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-8 mounting heights 8 feet and below
- FSP-20 mounting heights 9-20 feet.
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

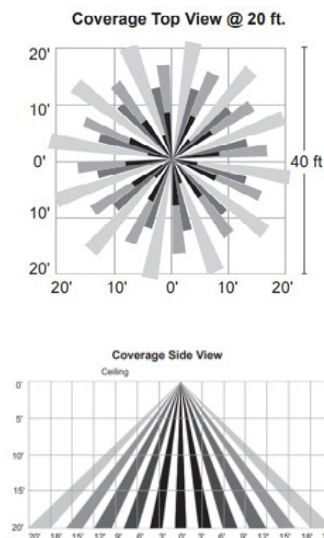
FSP-221



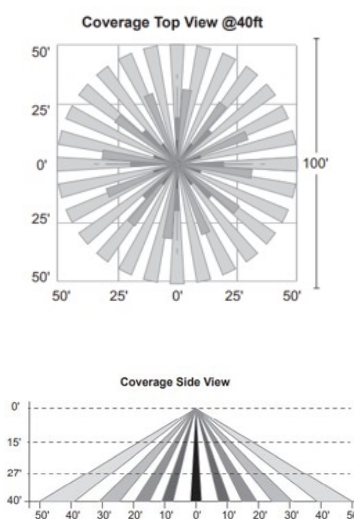
FSP-8



FSP-20



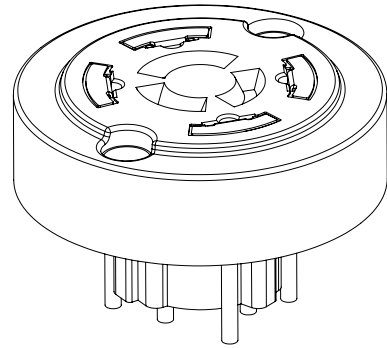
FSP-40



PRODUCT SPECIFICATIONS

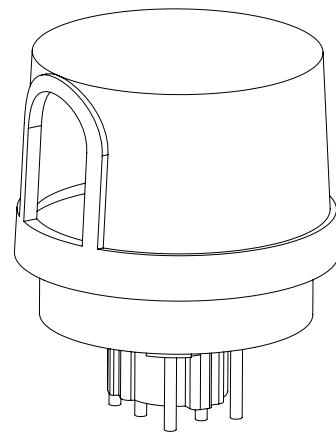
NEMA 7-PIN RECEPTACLE (PE7)

An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.



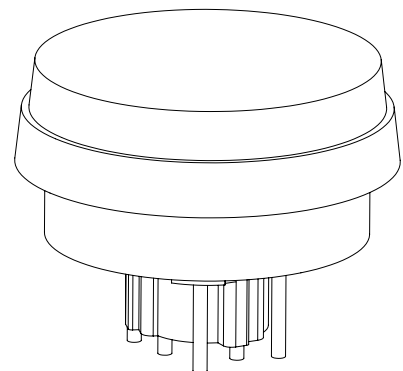
PHOTOCELL + RECEPTACLE (PCR)

7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.



RECEPTACLE + SHORTING CAP (PER)

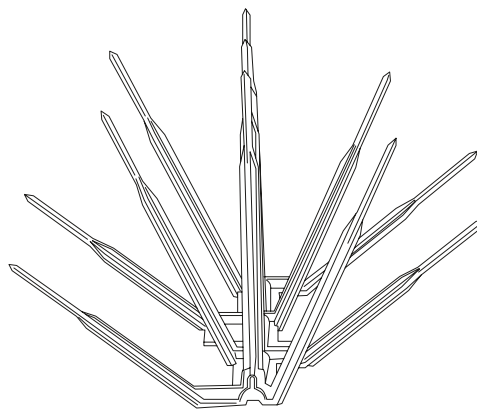
7-Pin Receptacle and Shorting Cap.



PRODUCT SPECIFICATIONS

BIRD SPIKES (BS)

Bird Spikes offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.



MARINE GRADE FINISH (MGF)

The (MGF) is a multi step process. Chemically washed in a 5 stage cleaning system. Pre-baked. Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.



Powder Coat Finish

3-5 mil Powder Coat

Primer Layer

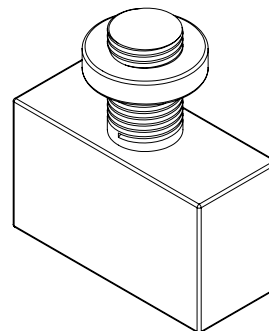
3-5 mil Zinc Rich Super Durable Polyester Primer

Prepared Casting

Chemically washed in multi Step 5 stage cleaning process

BUTTON PHOTOCELL (PC)

Photocell for dusk to dawn operation.
Consult Factory.



BLACK OPTIC FRAME

Optional Black Optic Frame
(includes black hardware)
Standard Optic Frame is white.

