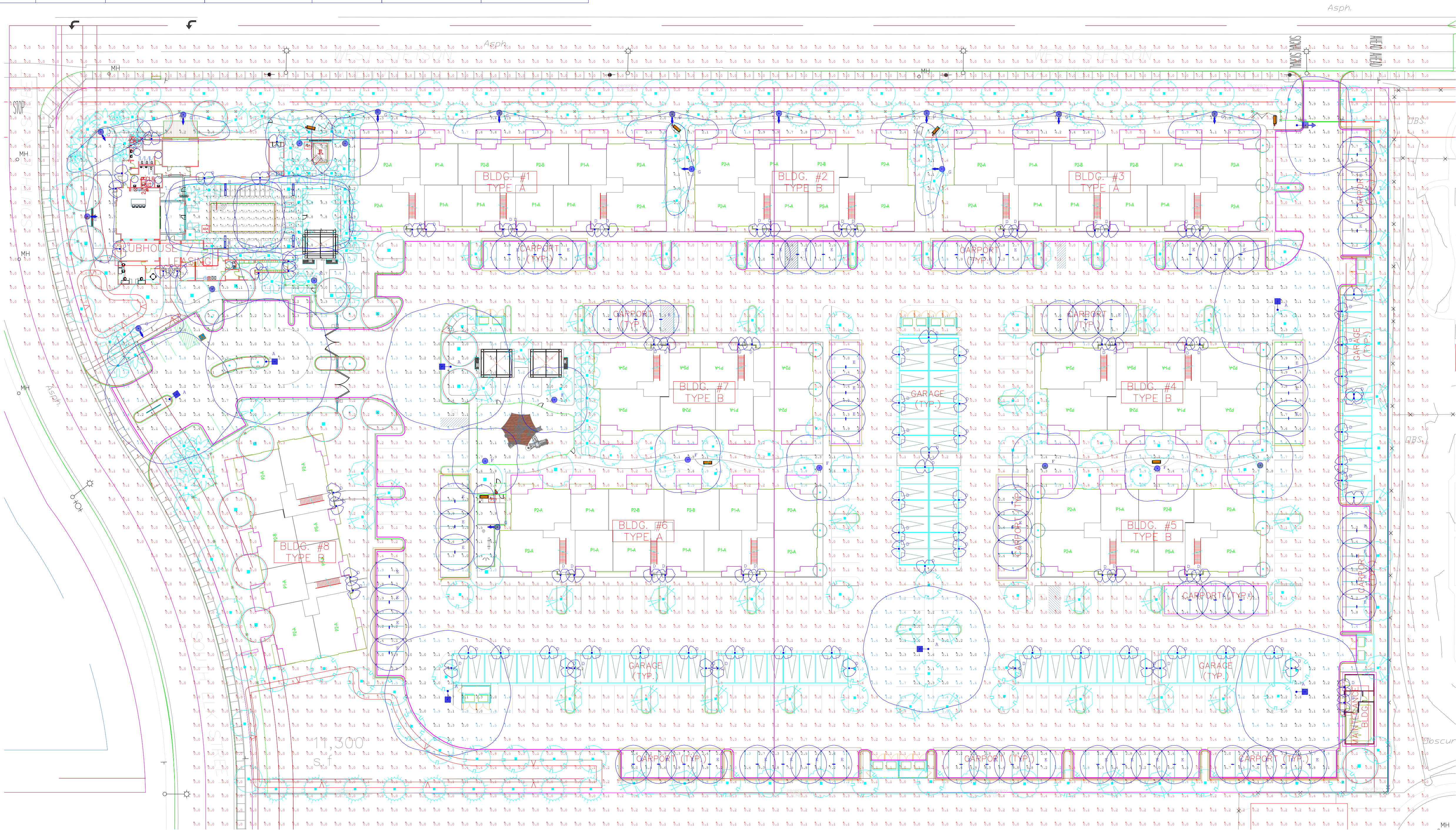


REVISIONS			2	2/20/23	J.P.	5	8/4/23	J.P.
REV #	DATE	BY:	3	2/24/23	J.P.	6	3/5/24	J.P.
1	2/14/23	J.P.	4	5/18/23	J.P.	7	6/27/24	J.P.

BASED ON THE INFORMATION PROVIDED, ALL DIMENSIONS AND LUMINAIRE LOCATIONS SHOWN REPRESENT RECOMMENDED POSITIONS. THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF THE LAYOUT TO EXISTING OR FUTURE FIELD CONDITIONS.

THIS LIGHTING PATTERN REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA TAKEN UNDER CONTROLLED CONDITIONS UTILIZING CURRENT INDUSTRY STANDARD LAMP RATINGS IN ACCORDANCE WITH ILLUMINATING ENGINEERING SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS AND OTHER VARIABLE FIELD CONDITIONS.



Calculation Summary

Label	Units	Avg	Max	Min	Avg/Min	Max/Min	PtSpcLr	PtSpcTb
PARKING AND DRIVES	Fc	1.33	8.9	0.0	N.A.	N.A.	10	10
POOL DECK	Fc	11.49	15.9	6.1	1.88	2.61	5	5

Luminaire Schedule							
WLS17286	HEMET APARTMENTS	HEMET, CA	PM: KEN	PLEASE EMAIL US FOR PRICING AT KBRONSTAD@WLSLIGHTING.COM			
Symbol	Qty	Label	Lum. Lumens	LLF	Description	Lum. Watts	
	7	A	15400	0.980	WLS-A-M-C-16L-30K7-5L-SLW 20' MOUNTING HEIGHT	97	
	1	B	9225	0.980	WLS-A-M-C-16L-30K7-4B-SLW 20' MOUNTING HEIGHT	97	
	103	D	1799	0.950	CRE-20W-06-30K	20	
	65	E	2756	0.950	LSV2U20WCS 3500K 10'-7'' MOUNTING HEIGHT	20.07	
	11	F	5907	0.950	WLS-HRZ-1-T5-32L-53-30K-SLW 12' POLE	56	
	14	G	3248	0.950	WLS-HRZ-1-T3-32L-53-30K-HSS-SLW 12' POLE	56	
	4	H	15574	0.950	WLS-TRC-4-T4-64L-1-30K7-HSS-SLW 18' MOUNTING HEIGHT	205	

HEMET APARTMENTS
HEMET, CA

WLSLIGHTING
a WLS company

6820 CORPORATION PKWY
FORT WORTH, TX 76126
WWW.WLSLIGHTING.COM

WLS-17286

DATE -2/1/23

SCALE: 1"=40'

817-731-0020

PM:KEN

BY: J.P.

SHEET 1 OF 1

A SERIES LED AREA

SPECIFICATIONS

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high-performance heat sink
- Convenient interlocking mounting method on direct arm. Mounting adaptor is rugged die cast aluminum and mounts to 3" (76mm) or larger square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) O.D. tenon.
- Adjustable arm mount can be adjusted 180° in 2.5° increments.
- Transportation mount is constructed of 316 stainless steel and mounts to surface with (4) 3/8" fasteners by others
- Trunnion mount is constructed of A500 and A1011 steel and is adjustable from 0-180° in 15° degree increments. Trunnion mount secures to surface with (1) 3/4" bolt or (2) 1/2" or 3/8" bolts
- Luminaires ordered with NM mount include 18" (340mm) 18/5 or 16/5 cord exiting the luminaire; when combined with R option, 18" (340mm) 18/7 or 16/7 cord is provided.
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available. Custom colors are available. Please contact your sales professional for details.

ELECTRICAL SYSTEM

- Input Voltage: 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- Power Factor: > 0.9 at full load
- Total Harmonic Distortion: < 20% at full load
- Integral 10kV surge suppression protection standard; 20kV surge suppression protection optional
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- Maximum 10V Source Current: 1.0mA
- Operating Temperature Range: -40°C - +40°C (-40°F - +104°F)

REGULATORY & VOLUNTARY QUALIFICATIONS

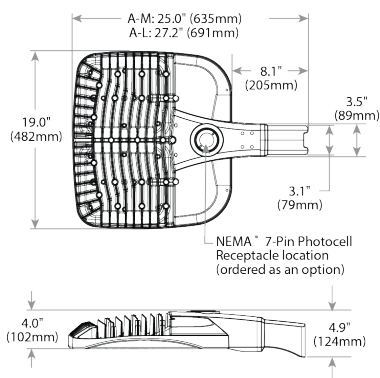
- cULus Listed (UL1598)
- Suitable for wet locations
- Meets NEMA C82.77 standards
- Drivers and LEDs are UL Recognized in accordance with UL8750
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2018, 3G bridge and overpass vibration standards
- ANSI C136.2 10kV (standard) and 20kV (optional) surge protection, tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A limits for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details
- **Dark Sky Friendly**, IDA Approved when ordered with 30K CCT and direct or transportation mounts only. Please refer to <https://www.darksky.org/our-work/lighting/lighting-forindustry/fsa/fsa-products/> for most current information
-  CA RESIDENTS WARNING: Cancer and Reproductive Harm – www.p65warnings.ca.gov/current

WARRANTY

- The A series offers a limited 10 year warranty on the luminaire and the Colorfast DeltaGuard™ finish



DIMENSIONS



Luminaire	Weight
A-M	28.9 lbs. (13.1kg)
A-L	32.4 lbs. (14.7kg)



Made in the U.S.A. of the U.S. and imported parts.
Meets Buy American requirements for ARRA.

Project Name: _____

Date: _____

Location: _____

Notes: _____

A SERIES LED AREA

ORDERING INFORMATION SELECT APPROPRIATE CHOICE FROM EACH COLUMN TO FORMULATE ORDER CODE.

Refer to example below.

PRODUCT ³	SERIES	LUMEN PACKAGE	CCT/CRI	OPTIC	VOLTAGE	MOUNT	COLOR OPTIONS	OPTIONS	ACCESSORIES
A-M Medium A-L Large	B	Medium 4L 4,000 Lumens 6L 6,000 Lumens 9L 9,000 Lumens 11L 11,000 Lumens 16L 16,000 Lumens Large 22L 22,000 Lumens 30L 30,000 Lumens	30K7 3000K, 70 CRI 40K7 4000K, 70 CRI 50K9 5000K, 90 CRI 57K7 5700K, 70 CRI	Asymmetric 2M Type II Medium ¹ 3M Type III Medium ¹ 4M Type IV Medium ¹ Symmetric 5M Type V Medium 5N Type V Narrow 5Q Type V Square	UL Universal 120-277V UH Universal 347-480V - Not available with 4L or 6L lumen package	DA Direct Arm AA Adjustable Arm TSP Transportation Mount (stainless steel; do not specify color) TM Trunnion Mount	BK Black BZ Bronze SV Silver WH White CC Custom Color ²	F Fuse N Utility Label and NEMA® 7-Pin Photocell Receptacle R NEMA® 7-Pin Photocell Receptacle RL Rotate Optic Left RR Rotate Optic Right NO No Options	Backlight Shield (Front Facing Optics) BLSMF (Medium) BLSLF (Large) Backlight Shield (Rotated Optics) BLSMF (Medium) BLSLF (Large) Bird Spikes MED-BRDSPK LG-BRDSPK Hand-Held Remote XA-SENSREM - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required Shorting Cap XA-XSLSHRT
AF-M Medium Flood AF-L Large Flood				N3 Narrow Flood 33 NEMA® 3x3 44 NEMA® 4x4 55 NEMA® 5x5 66 NEMA® 6x6 75 NEMA® 7x5					

ORDER:

WLS-A-	B								
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Example: WLS-A-M-B-11L-40K7-5M-UL-DA-BZ-NO

FOOTNOTES:

- 1 Available with Backlight Shield when ordered with field-installed accessory (see table above)
- 2 Contact your sales professional for details
- 3 Luminaire comes standard with 0-10V dimming

ELECTRICAL DATA									
Input Power Designator	Optic	System Watts 120-480V	Utility Label Wattage	Total Current (A)					
				120V	208V	240V	277V	347V	480V
4L**	All	29	30	0.25	0.14	0.12	0.11	N/A	N/A
6L**	Asymmetric	48	50	0.41	0.23	0.20	0.17	N/A	N/A
	Symmetric	39	40	0.33	0.19	0.17	0.14	N/A	N/A
9L	All	60	60	0.51	0.29	0.25	0.22	0.18	0.13
11L	All	72	70	0.62	0.36	0.31	0.27	0.21	0.16
16L	All	104	100	0.89	0.51	0.43	0.39	0.31	0.22
22L	All	132	130	1.12	0.63	0.55	0.47	0.39	0.28
30L	All	202	200	1.72	0.96	0.84	0.72	0.60	0.43

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-277V or 347-480V +/- 10%
 ** Available with UL voltage only



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Project Name: _____
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A SERIES LED AREA

Type II Mid Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11
4L	4,290	B1 U0 G1	4,440	B1 U0 G1	3,810	B1 U0 G1	4,440	B1 U0 G1
6L	6,650	B1 U0 G1	6,900	B2 U0 G2	5,925	B1 U0 G1	6,900	B1 U0 G2
9L	8,875	B2 U0 G2	9,200	B2 U0 G2	7,900	B2 U0 G2	9,200	B2 U0 G2
11L	10,800	B2 U0 G2	11,175	B2 U0 G2	9,600	B2 U0 G2	11,175	B2 U0 G2
16L	15,500	B3 U0 G3	16,100	B3 U0 G3	13,800	B2 U0 G2	16,100	B3 U0 G3
22L	20,700	B3 U0 G3	22,100	B3 U0 G3	18,600	B3 U0 G3	22,100	B3 U0 G3
30L	27,800	B3 U0 G4	31,000	B3 U0 G4	22,300	B3 U0 G3	31,000	B3 U0 G4

* Initial delivered lumens at 25° C (77° F). Actual production yield may vary between - 10 and + 10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://ies.org/wp-content/uploads/2017/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt

Type II Mid w/BLS Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11
4L	3,300	B1 U0 G1	3,410	B1 U0 G1	2,930	B1 U0 G1	3,410	B1 U0 G1
6L	5,100	B1 U0 G1	5,300	B1 U0 G1	4,550	B1 U0 G1	5,300	B1 U0 G1
9L	6,825	B1 U0 G2	7,075	B1 U0 G2	6,075	B1 U0 G1	7,075	B1 U0 G2
11L	8,300	B1 U0 G2	8,575	B1 U0 G2	7,375	B1 U0 G2	8,575	B1 U0 G2
16L	11,925	B2 U0 G2	12,350	B2 U0 G2	10,600	B2 U0 G2	12,350	B2 U0 G2
22L	15,900	B2 U0 G2	17,000	B2 U0 G3	14,250	B2 U0 G2	17,000	B2 U0 G3
30L	21,400	B2 U0 G3	22,800	B3 U0 G3	17,100	B2 U0 G3	23,800	B3 U0 G3

* Initial delivered lumens at 25° C (77° F). Actual production yield may vary between - 10 and + 10% of initial delivered lumens

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Type III Mid Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11
4L	4,290	B1 U0 G1	4,440	B1 U0 G1	3,810	B1 U0 G1	4,440	B1 U0 G1
6L	6,650	B1 U0 G2	6,900	B1 U0 G2	5,925	B1 U0 G2	6,900	B1 U0 G2
9L	8,875	B2 U0 G2	9,200	B2 U0 G2	7,900	B2 U0 G2	9,200	B2 U0 G2
11L	10,800	B2 U0 G2	11,175	B2 U0 G2	9,600	B2 U0 G2	11,175	B2 U0 G2
16L	15,500	B3 U0 G3	16,100	B3 U0 G3	13,800	B2 U0 G2	16,100	B3 U0 G3
22L	20,700	B3 U0 G3	22,100	B3 U0 G3	18,600	B3 U0 G3	22,100	B3 U0 G3
30L	27,800	B3 U0 G4	31,000	B3 U0 G4	22,300	B3 U0 G3	31,000	B3 U0 G4

* Initial delivered lumens at 25° C (77° F). Actual production yield may vary between - 10 and + 10% of initial delivered lumens

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A SERIES LED AREA

Type III Mid w/BLS Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11
4L	3,390	B1 U0 G1	3,510	B1 U0 G1	3,010	B1 U0 G1	3,510	B1 U0 G1
6L	5,250	B1 U0 G2	5,450	B1 U0 G2	4,680	B1 U0 G1	5,450	B1 U0 G2
9L	7,000	B1 U0 G2	7,275	B1 U0 G2	6,225	B1 U0 G2	7,275	B1 U0 G2
11L	8,525	B1 U0 G2	8,825	B1 U0 G2	7,575	B1 U0 G2	8,825	B1 U0 G2
16L	12,250	B2 U0 G2	12,700	B2 U0 G2	10,900	B2 U0 G2	12,700	B2 U0 G2
22L	16,300	B2 U0 G3	17,500	B2 U0 G3	14,650	B2 U0 G3	17,500	B2 U0 G3
30L	21,900	B3 U0 G4	24,500	B3 U0 G4	17,600	B2 U0 G3	24,500	B3 U0 G4

* Initial delivered lumens at 25° C (77° F). Actual production yield may vary between - 10 and + 10% of initial delivered lumens

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Type IV Mid Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11
4L	4,290	B1 U0 G1	4,440	B1 U0 G1	3,810	B1 U0 G1	4,440	B1 U0 G1
6L	6,650	B1 U0 G2	6,900	B1 U0 G2	5,925	B1 U0 G2	6,900	B1 U0 G2
9L	8,875	B2 U0 G2	9,200	B2 U0 G2	7,900	B1 U0 G2	9,200	B2 U0 G2
11L	10,800	B2 U0 G2	11,175	B2 U0 G2	9,600	B2 U0 G2	11,175	B2 U0 G3
16L	15,500	B2 U0 G3	16,100	B2 U0 G3	13,800	B2 U0 G2	16,100	B2 U0 G3
22L	20,700	B3 U0 G3	22,100	B3 U0 G4	18,600	B3 U0 G3	22,100	B3 U0 G4
30L	27,800	B3 U0 G4	31,000	B3 U0 G4	22,300	B3 U0 G4	31,000	B3 U0 G4

* Initial delivered lumens at 25° C (77° F). Actual production yield may vary between - 10 and + 10% of initial delivered lumens

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Type IV Mid w/BLS Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11
4L	3,390	B1 U0 G1	3,410	B1 U0 G1	2,930	B1 U0 G1	3,410	B0 U0 G1
6L	5,100	B1 U0 G2	5,300	B1 U0 G2	4,550	B1 U0 G1	5,300	B1 U0 G2
9L	6,825	B1 U0 G2	7,075	B1 U0 G2	6,075	B1 U0 G2	7,075	B1 U0 G2
11L	8,300	B1 U0 G2	8,575	B1 U0 G2	7,375	B1 U0 G2	8,575	B1 U0 G2
16L	11,925	B1 U0 G2	12,350	B1 U0 G2	10,600	B1 U0 G2	12,350	B1 U0 G2
22L	15,900	B2 U0 G3	17,000	B2 U0 G3	14,250	B1 U0 G3	17,000	B2 U0 G3
30L	21,400	B2 U0 G4	23,800	B2 U0 G4	17,100	B2 U0 G3	23,800	B2 U0 G4

* Initial delivered lumens at 25° C (77° F). Actual production yield may vary between - 10 and + 10% of initial delivered lumens

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A SERIES LED AREA

Type V Mid Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11
4L	4,190	B3 U0 G2	4,370	B3 U0 G2	3,700	B2 U0 G2	4,370	B3 U0 G2
6L	5,900	B3 U0 G3	6,150	B3 U0 G3	5,200	B3 U0 G2	6,150	B3 U0 G3
9L	9,300	B3 U0 G3	9,700	B4 U0 G3	8,225	B3 U0 G3	9,700	B4 U0 G3
11L	10,850	B4 U0 G3	11,325	B4 U0 G3	9,575	B4 U0 G3	11,325	B4 U0 G3
16L	14,650	B4 U0 G4	15,300	B4 U0 G4	12,950	B4 U0 G4	15,300	B4 U0 G4
22L	20,200	B5 U0 G5	21,700	B5 U0 G5	19,800	B5 U0 G5	21,700	B5 U0 G5
30L	26,600	B5 U0 G5	27,800	B5 U0 G5	23,600	B5 U0 G5	27,800	B5 U0 G5

* Initial delivered lumens at 25° C (77° F). Actual production yield may vary between - 10 and + 10% of initial delivered lumens

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Type V Narrow Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11
4L	4,430	B3 U0 G1	4,620	B3 U0 G1	3,910	B3 U0 G1	4,620	B3 U0 G1
6L	6,225	B3 U0 G1	6,500	B3 U0 G2	5,500	B3 U0 G1	6,500	B3 U0 G2
9L	9,825	B4 U0 G2	10,250	B4 U0 G2	8,675	B3 U0 G2	10,250	B4 U0 G2
11L	11,450	B4 U0 G2	11,950	B4 U0 G2	10,125	B4 U0 G2	11,950	B4 U0 G2
16L	15,475	B4 U0 G3	16,125	B4 U0 G3	13,675	B4 U0 G2	16,125	B4 U0 G3
22L	21,300	B5 U0 G3	22,900	B5 U0 G3	20,900	B5 U0 G3	22,900	B5 U0 G3
30L	28,400	B5 U0 G4	29,700	B5 U0 G4	25,200	B5 U0 G3	29,700	B5 U0 G4

* Initial delivered lumens at 25° C (77° F). Actual production yield may vary between - 10 and + 10% of initial delivered lumens

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Type V Square Distribution								
Lumen Package	3000K (70 CRI)		4000K (70 CRI)		5000K (90 CRI)		5700K (70 CRI)	
	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11	Initial Delivered Lumens*	BUG Rating** Per TM-15-11
4L	4,430	B3 U0 G1	4,620	B3 U0 G1	3,910	B2 U0 G1	4,620	B3 U0 G1
6L	6,225	B3 U0 G1	6,500	B3 U0 G1	5,500	B3 U0 G1	6,500	B3 U0 G1
9L	9,825	B3 U0 G2	10,250	B3 U0 G2	8,675	B3 U0 G2	10,250	B3 U0 G2
11L	11,450	B4 U0 G2	11,950	B4 U0 G2	10,125	B3 U0 G2	11,950	B4 U0 G2
16L	15,475	B4 U0 G2	16,125	B4 U0 G2	13,675	B4 U0 G2	16,125	B4 U0 G2
22L	21,300	B4 U0 G2	22,900	B5 U0 G3	20,900	B4 U0 G2	22,900	B5 U0 G3
30L	28,400	B5 U0 G3	29,700	B5 U0 G3	25,200	B5 U0 G3	29,700	B5 U0 G3

* Initial delivered lumens at 25° C (77° F). Actual production yield may vary between - 10 and + 10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://ies.org/wp-content/uploads/2017/TM-15-11BUGRatingsAddendum.pdf>. Valid with no tilt



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A SERIES LED AREA

Narrow Flood Distribution				
Lumen Package	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
4L	4,430	4,620	3,910	4,620
6L	6,225	6,500	5,500	6,500
9L	9,825	10,250	8,675	10,250
11L	11,450	11,950	10,125	11,950
16L	15,475	16,125	13,675	16,125
22L	21,300	22,900	20,900	22,900
30L	28,400	29,700	25,200	29,700

* Initial delivered lumens at 25° C (77° F). Actual production yield may vary between - 10 and + 10% of initial delivered lumens

NEMA® 3x3 Distribution				
Lumen Package	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
4L	4,430	4,620	3,910	4,620
6L	6,225	6,500	5,500	6,500
9L	9,825	10,250	8,675	10,250
11L	11,450	11,950	10,125	11,950
16L	15,475	16,125	13,675	16,125
22L	21,300	22,900	20,900	22,900
30L	28,400	29,700	25,200	29,700

* Initial delivered lumens at 25° C (77° F). Actual production yield may vary between - 10 and + 10% of initial delivered lumens

NEMA® 4x4 Distribution				
Lumen Package	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
4L	4,430	4,620	3,910	4,620
6L	6,225	6,500	5,500	6,500
9L	9,825	10,250	8,675	10,250
11L	11,450	11,950	10,125	11,950
16L	15,475	16,125	13,675	16,125
22L	21,300	22,900	20,900	22,900
30L	28,400	29,700	25,200	29,700

* Initial delivered lumens at 25° C (77° F). Actual production yield may vary between - 10 and + 10% of initial delivered lumens

NEMA® 5x5 Distribution				
Lumen Package	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
4L	4,430	4,620	3,910	4,620
6L	6,225	6,500	5,500	6,500
9L	9,825	10,250	8,675	10,250
11L	11,450	11,950	10,125	11,950
16L	15,475	16,125	13,675	16,125
22L	21,300	22,900	20,900	22,900
30L	28,400	29,700	25,200	29,700

* Initial delivered lumens at 25° C (77° F). Actual production yield may vary between - 10 and + 10% of initial delivered lumens

NEMA® 6x6 Distribution				
Lumen Package	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
4L	4,430	4,620	3,910	4,620
6L	6,225	6,500	5,500	6,500
9L	9,825	10,250	8,675	10,250
11L	11,450	11,950	10,125	11,950
16L	15,475	16,125	13,675	16,125
22L	21,300	22,900	20,900	22,900
30L	28,400	29,700	25,200	29,700

* Initial delivered lumens at 25° C (77° F). Actual production yield may vary between - 10 and + 10% of initial delivered lumens

NEMA® 7x5 Distribution				
Lumen Package	3000K (70 CRI)	4000K (70 CRI)	5000K (90 CRI)	5700K (70 CRI)
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
4L	4,430	4,620	3,910	4,620
6L	6,225	6,500	5,500	6,500
9L	9,825	10,250	8,675	10,250
11L	11,450	11,950	10,125	11,950
16L	15,475	16,125	13,675	16,125
22L	21,300	22,900	20,900	22,900
30L	28,400	29,700	25,200	29,700

* Initial delivered lumens at 25° C (77° F). Actual production yield may vary between - 10 and + 10% of initial delivered lumens



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Notes: _____

A SERIES LED AREA

Adjustable Arm Mount - WLS-A-ML-B-AA Weight: Medium - 28.4 lbs. (12.9kg); Large - 32.0 lbs. (14.5kg); Utility Arm Mount (UA/UB) † Weight: Medium - 29.5 lbs. (13.4kg); Large - 33.1 lbs. (15.0kg)								
Luminaire	Single	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	3 @ 180°	4 @ 180°	2 @ 90°
	Tenon Configuration (0° - 80° Tilt); if used with WLS Lighting tenons, please add tenon EPA with luminaire EPA							
								
	PB-1A*; PT-1; PW-1A3**	PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	PB-2A*; PD-2A4(90); PT-2(90)	PB-3A*; PD-3A4(90); PT-3(90)	PB-3A*; PT-3(120)	PB-3A*; PB-3R2.375	PB-4A*(180)	PB-4A*(90); PB-4R2.375; PD-4A4(90); PT-4(90)
0° TILT								
WLS-A-M	0.74	1.48	1.19	1.93	1.63	3.33	4.66	2.38
WLS-A-L	0.80	1.61	1.26	2.06	1.68	3.33	4.66	2.52
10° TILT								
WLS-A-M	0.75	1.48	1.49	2.29	2.15	4.22	5.84	2.98
WLS-A-L	0.81	1.61	1.62	2.42	2.32	4.40	6.08	3.24
20° TILT								
WLS-A-M	1.12	1.48	1.86	2.60	2.85	5.31	7.32	3.72
WLS-A-L	1.24	1.61	2.04	2.84	3.13	5.68	7.80	4.08
30° TILT								
WLS-A-M	1.46	1.48	2.20	2.94	3.56	6.34	8.68	4.40
WLS-A-L	1.64	1.64	2.44	3.24	3.97	6.88	9.40	4.88
45° TILT								
WLS-A-M	1.96	1.96	2.69	3.43	4.54	7.83	10.68	5.38
WLS-A-L	2.2	2.20	3.00	3.80	5.07	8.055	11.64	6.00
60° TILT								
WLS-A-M	2.33	2.33	3.07	3.81	5.11	8.94	12.16	6.14
WLS-A-L	2.82	2.82	3.62	4.42	5.73	10.41	14.12	7.24
70° TILT								
WLS-A-M	2.49	2.49	3.23	3.97	5.11	9.43	12.80	6.46
WLS-A-L	2.82	2.82	3.62	4.42	5.73	10.41	14.12	7.24
80° TILT								
WLS-A-M	2.58	2.58	3.32	4.06	5.11	9.71	13.16	6.64
WLS-A-L	2.93	2.93	3.73	4.53	5.73	10.74	14.56	7.46
Tenon Configuration (90° Tilt); if used with WLS Lighting tenons, please add tenon EPA with Luminaire EPA								
	PBA-1A*; PT-1; PW-1A3**	PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	PB-2A*	PB-3A*	PB-3A*; PT-3(120)	PB-3A*; PB-3R2.375	PB-4A*(180)	PB-4A*(90); PB-4R2.375
90° TILT								
WLS-A-M	2.61	2.61	4.44	6.05	5.11	9.79	13.28	10.39
WLS-A-L	2.95	2.95	4.84	6.52	5.73	10.81	14.61	11.19

† UA & UB mounts may only be tilted to 45°

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation

** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")



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29 REV. 04/22

Specifications subject to change without notice.

A SERIES LED AREA

Tenon EPA	
Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R2.375	0.92
PB-3R2.375	1.62
PB-4R2.375	2.32
PD Series Tenons	0.09
PT Series Tenons	0.10
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-4	0.25
WM-DM	None

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation

** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenons and Brackets (must specify color)			
Square Internal Mount Vertical Tenons (Steel)		Round External Mount Vertical Tenons (Steel)	
- Mounts to 3-6" (76-152mm) square aluminum or steel poles		- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons	
PB-1A* - Single	PB-4A*(90) - 90° Quad	PB-2R2.375 - Twin	PB-4R2.375 - Quad
PB-2A* - 180° Twin	PB-4A*(180) - 180° Quad	PB-3R2.385 - Triple	
PB-3A* - 180° Twin			
Square Internal Mount Horizontal Tenons (Aluminum)		Round External Mount Horizontal Tenons (Aluminum)	
- Mounts to 4" (102mm) square aluminum or steel poles		- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons	
		- Mounts to square pole with PB-1A*	
PD-2A4(90) - 90° Twin	PD-3A4(90) - 90° Triple	PT-1 - Single (Vertical)	PT-3 - 90° Triple
PD-2A4(90) - 180° Twin	PD-4A4(90) - 90° Quad	PT-2 - 90° Twin	PT-3(120) - 120° Triple
		PT-2(180) 0 180° Twin	PT-4(90) - 90° Quad
Wall Mount Brackets		Mid-Pole Bracket	
- Mounts to wall or roof		- Mounts to Square Pole	
WM-2 - Horizontal for WLS-A-ML-B-AA mount		PW-1A3** - Single	PW-2A3** - Double
WM-4 - L-Shape for WLS-A-ML-B-AA mount			
WM-DM - Plate for WLS-A-ML-B-DA mount			
		Ground Mount Post	
		- For ground-mounted flood luminaires	
		PGM-1 - for WLS-A-ML-B-AA mount	



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A59

CREST BY WESTGATE

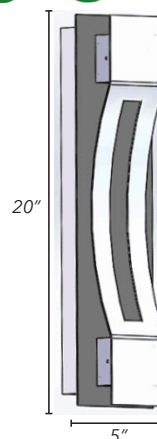
MFG



OPTIONS
PHOTOCELL
MOTION SENSOR
BATTERY BACKUP
FIXTURE COLOR

TECHNICAL SPECIFICATIONS:

- :: Crest Series by Westgate
- :: Patent-Pending design with separate light engine (base) and interchangeable designer trims expand the series to multiple color temperatures and models.
- :: Series can be stocked as separate engines and trims to offer a versatile collection at the store level.
- :: Die-cast Aluminum weatherproof housing, steel backplate, Aluminum Trim (Dark Bronze or Silver)
- :: LED: Philips Lumileds LEDs
- :: Color Temperatures: 3000K & 4000K & 5000K
- :: Voltage: 100-277V AC, 50/60Hz
- :: CRI: >70
- :: Power Factor: 95%
- :: Operating temp: -4°F to 104°F
- :: 50,000 hour rated life
- :: 7-year warranty
- :: IP65, Suitable for Wet Locations



Depths:
01 5.5"
02 3.3"
03 4.0"
04 3.3"
05 4.3"
06 3.3"
07 3.9"
08 4.5"
10 3.7"

CREST BY WESTGATE LED WALL SCONCES

CATALOG NO.		TRIM		COLOR TEMPERATURE		FINISH	
		CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
CRE	10W (900LM)	01	Lunette	30K	3000K	BR	Bronze
CRE-HL20	20W (1800LM)	02	Aperture	40K	4000K	SIL	Silver
CRE-MP	5W/10W/15W/20W	03	Grasp	50K	5000K		
		04	Curve				
		05	Pen				
		06	Still				
		07	Passage				
		08	Crush				
		10	Burrow				

Sample Ordering:

CRE-03-30K-BR

Cat. No. Trim Color Temp. Finish



CREST BY WESTGATE

A60



01

Lunette

02

Aperture

03

Grasp

05

Pen



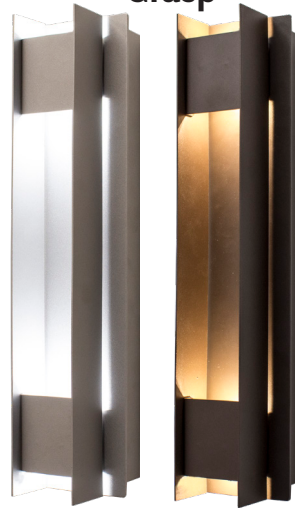
04

Curve



06

Still



07

Passage



08

CRUSH



10

Burrow

PROJECT NAME: _____ CAT. #: _____
 NOTES: _____ FIXTURE SCHEDULE: _____

LSV LED Vapor Tight Control Ready Series *Wattage and Color Selectable*

Product Description:

A cost-effective vapor tight fixture with tremendous flexibility, the LSV Series is both wattage and CCT selectable, controls ready, and provides an emergency battery backup option. This durable, IP65 rated linear fixture with stainless steel clips is ideal for commercial and industrial environments where water, humidity, and dust may occur, including stairwells, parking garages, utility areas and agricultural applications.

Features:

- CCT and Wattage selectable (9 possible combinations with each fixture)
- Controls Ready – can be paired with the new cMax controls nodes
- 0-10V dimming standard
- CRI>80
- Universal voltage 120-277V
- L70 lumen maintenance of 100,000 hours
- Operating temperature: -40°F to +104°F, except fixtures with EM option
- Polycarbonate (PC) housing with stainless steel clips and lens hermetically sealed for IP65 rating
- On EM mode, the fixture CCT will be set to 5000K
- On EM mode, the fixture output a minimum of 700 lumens for 90 minutes, when fully charged
- Default setting for WCS models is set to lower wattage and 4000K
- Fixture may be surface mounted or pendant/Rod mounted (accessories sold separately)

Controls Ready:

MaxLite's new Controls Ready (CR) fixtures have integrated USB-C sensor receptacle, and allows for quick and easy in-field installation (plug and play) of controls. CR fixtures are compatible with c-Max sensors. Simply purchase any CR fixture and the required c-Max Controls Node and you're all set! See the accessory table for all controls options available.

Controls Features:

- Daylight Sensor
- Occupancy Sensor
- Integral Sensor Receptacle
- High-end Trim
- Bluetooth
- Energy Monitoring when used with Avi-On nodes

Ordering Information

FAMILY	SIZE	VOLTAGE	WATTAGE (NOMINAL)	CCT SELECT	CONTROLS OPTIONS	OPTIONS
LSV= Vapor Tight Linear Series	2= 2FT 4= 4FT	U= 120-277V	20W= 20/25/30W 23W= 23/35/48W	CS= Color Selectable (3500K/4000K/5000K)	CR= Control Ready	[BLANK]= None EM= Emergency Back-up

EM is not available in 2ft.

Stocked Items

ORDER CODE	MODEL NUMBER	DLC ID #	LISTING	PRIMARY USE
105606	LSV2U20WCSCR	PWCTPD33,PD397WRR,PNV4DM9Q	Premium	Stairwell and Passageway Luminaires
		PILZXKZE,PU25V8DF,P0887Q5P	Standard	Direct Linear Ambient Luminaires
105607	LSV4U23WCSCR	PR3W2QV2,PEP289GP, PMCIH8UZ	Premium	Direct Linear Ambient Luminaires, Low-Bay Luminaires for Commercial and Industrial Buildings
		P1306VO3,PBUK0J7D,P3GLKFTX,PP082BP9	Standard	



10-year standard warranty with labor allowance (further details available at www.maxlite.com/warranties)

Warranty Limitations: Product must be rated for application per the Product Data Sheet (PDS); operated ≤16 hrs; in ambient temperatures -4°F to 77°F. If ambient temperatures fall outside the -4°F to 77°F range, product is warranted for 5 years according to the operating temperature range specified on the PDS. Up to \$25/unit; registration required. Additional coverage may be available for purchase; contact MaxLite. Excludes EM/MS versions; component warranty applies.

LSV LED Vapor Tight Control Ready Series *Wattage and Color Selectable*

Accessories (SOLD SEPARATELY)

ORDER CODE	MODEL NUMBER	DESCRIPTION	IMAGE
74139	MLCHKLSV15	Cable Kit 15' Loop X Toggle Y 1 Pair	
c-Max Basic			
105567	CN-REMOTE	Control Node Remote Control	
105564	CN-RTMST	Control Node Rectangular, Microwave Motion Sensor, Translucent	
105565	CN-RDMSW*	Control Node Round, White	
106903	CEA-RDW	c-Max External Adapter Round, White	
c-Max Network			
105892	NN-RTW	Network Node Rectangular, White	
108392	WNS5-W	5 Button Wall Network Switch (Bluetooth) White	
105905	NN-RDMSW*	Network Node Round, White	
106318	NPP-300W	120-277V Network Power Pack 300W Max	

*To use CN-RDMSW or NN-RDMSW, the CEA-RDW External adapter also needs to be purchased separately

Sensor

SENSOR	TECHNOLOGY	DIMMING	DAYLIGHT HARVESTING	REMOTE CONTROL	QR CODE
CN-RTMST	Microwave, Photoelectric	Bi-Level	N/A	CN-REMOTE	
CN-RDMSW	PIR motion sensing, Photoelectric	Bi-Level	Continuous Adjustment Mode (CAM)	CN-REMOTE	
NN-RTW	Bluetooth networking	N/A	N/A	c-Max App (iPhone or Android)	
NN-RDMSW	PIR motion sensing, Photoelectric & Bluetooth networking	Bi-Level	Continuous Adjustment Mode (CAM)	c-Max App (iPhone or Android)	

LSV LED Vapor Tight Control Ready Series *Wattage and Color Selectable*

Specifications

	LSV2U20WCSCR		
Power Consumption	20W	25W	30W
Lumens Delivered	2600 lm	3250 lm	3900 lm
Efficacy	130 lm/w	130 lm/w	130 lm/w
CRI	>=80		
Color Temperature (K)	3500K, 4000K, 5000K		
L70 Lumen maintenance	>=100,000 hours		
Power Factor	>=0.9		
Input Voltage	120-277V		
Operating Temperature	-40°F to +104°F (-40°C to +40°C) except EM models For 4ft EM model: -4°F to +104°F (-20°C to +40°C) (Please refer to the c-Max Control data sheet for operating temperatures for each different control accessory.)		
Qualifications	DLC Standard/DLC Premium (see Stocked Item Table for more details), cULus listed, FCC, Rohs Complaint, ETL Sanitation Listed		
Environment	UL listed for Wet location		
Warranty	10 Years warranty		

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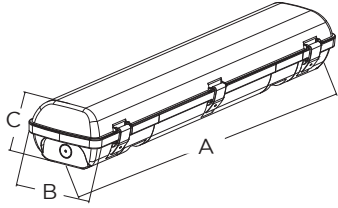
Specifications

	LSV4U23WCSCR		
Power Consumption	23W	35W	48W
Lumens Delivered	2990 lm	4550 lm	6240 lm
Efficacy	130 lm/w	130 lm/w	130 lm/w
CRI	>=80		
Color Temperature (K)	3500K, 4000K, 5000K		
L70 Lumen maintenance	>=100,000 hours		
Power Factor	>=0.9		
Input Voltage	120-277V		
Operating Temperature	-40°F to +104°F (-40°C to +40°C) except EM models For 4ft EM model: -4°F to +104°F (-20°C to +40°C) (Please refer to the c-Max Control data sheet for operating temperatures for each different control accessory.)		
Qualifications	DLC Standard/DLC Premium (see Stocked Item Table for more details), cULus listed, FCC, Rohs Complaint, ETL Sanitation Listed		
Environment	UL listed for Wet location		
Warranty	10 Years warranty		

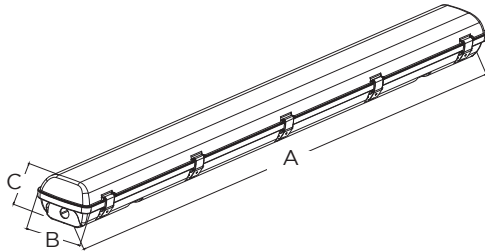
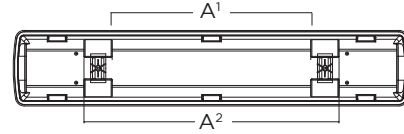
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LSV LED Vapor Tight Control Ready Series *Wattage and Color Selectable*

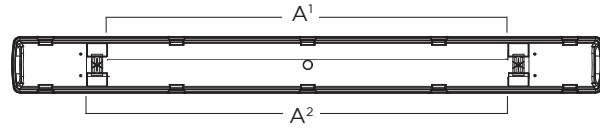
Dimensions



LSV-2U



LSV-4U

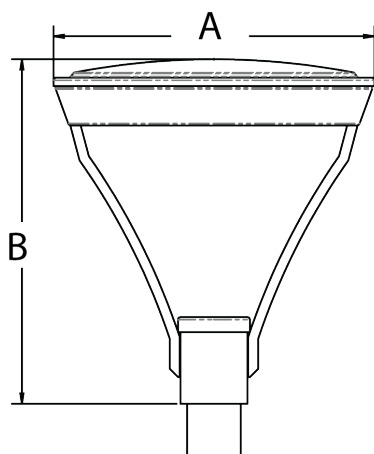


PRODUCT	A (L)	A¹	A²	B (W)	C (H)
LSV2U20WCSCR	24.8"	12.4"	15.9"	4.72"	3.46"
LSV4U20WCSCR	49.8"	33.6"	37.1"	5"	3.46"

HRZ SERIES LED POST TOP



DIMENSIONS



Dimension	CAL-S
A	24.00"
B	25.75"

EPA	STD TOP	DOMETOP
WLS-HRZ	1.15	1.40



Made in the U.S.A. of the U.S. and imported parts.
Meets Buy American requirements for ARRA.

EFFICIENCY TO THE MAX

WLS-HRZ Post Top luminaire is a blend of beautiful luminaire design which is a compliment to commercial or recreational pathways. **This Dark Sky Friendly Full Cutoff luminaire** utilizes silicone Micro Optics to distribute light uniformly as its LEDs are recessed and hidden. Its performance exceeds IES minimum foot candle levels at lower wattage and extends maintenance cycles throughout its lifetime. Horizon PT is available in 2700, 3000K, 3500K, 4000K, 5000K Kelvin temperatures and a range of 18 to 205 watts. Built to conform to the strictest Made in America standards. Designed, tooled, fabricated and assembled in the USA.

SPECIFICATIONS

OVERVIEW

- **Housing:** Low Profile Cast, Spun Aluminum Housing + Frame
- **LED:** Lumileds Luxeon MX
- **Optics:** Micro Optics; T2, T3, T4 and T5
- **Watts:** 18-205
- **Listings:** Conforms to UL 1598 Standards
- **Driver:** 0-10V Dimming driver as standard by Philips Advance THD @ Max Load < 15% Power Factor @ Max Load < 0.95Replaces 100W PSMH
- **Kelvin:** 2700K, 3000K, 3500K, 4000K, or 5000K
- **CRI:** 70, 80 or 90
- **Finish:** 5 mils Powder Coat
- **Warranty:** Standard Warranty is 5 years for Driver and LEDs
- **Surge Protection:** 20KA supplied as standard

Project Name: _____

Date: _____

Location: _____

Notes: _____

HRZ SERIES LED POST TOP

ORDERING INFORMATION

Refer to example below.

SELECT APPROPRIATE CHOICE FROM EACH COLUMN TO FORMULATE ORDER CODE.

PRODUCT	DISTRIBUTION	# OF LED's	MILLIAMPS	KELVIN	VOLTS	MOUNTING	COLOR	OPTIONS
HRZ	T2 Type 2 T3 Type3 T4 Type 4 T5 Type 5	16L 16 32L 32 48L 48 64L 64	35 350mA ¹ 53 530mA ² 7 7000mA 1 1050mA	27K8 2700K, 80 CRI ³ 30K7 3000K, 70 CRI ³ 30K8 3000K, 80 CRI ³ 35K8 3500K, 80 CRI ³ 40K7 4000K, 70 CRI ³ 40K8 4000K, 80 CRI ³ 50K8 5000K, 70 CRI ³ 50K8 5000K, 80 CRI ³	UNV 120-277V HV 347-480V	PT2 Post Top Over 2" OD PT3 Post Top Over 3" OD ⁴ PT312 Post Top Over 3-1/2" OD	BRZ Bronze Textured WHT White Textured SWT Smooth White Gloss SVR Silver BLK Black Textured SBK Smooth Black Gloss GPH Graphite Textured GRY Grey Textured CS Custom	DT Dome Top MGF Marine Grade Finish HSS House Side Shield PC NEMA 7-Pin Receptacle ⁵ PCR Photocell + Receptacle PER Receptacle + Shorting Cap FSP-8 FSP-211 with Motion Sensor Up to 8' Heights ⁵ FSP-20 FSP-211 with Motion Sensor Up to 9'-20' Heights ⁵ FSP-40 FSP-211 with Motion Sensor Up to 21'-40' Heights ⁵ BS Bird Spikes

ORDER:

WLS-HRZ								
----------------	--	--	--	--	--	--	--	--

Example: WLS-HRZ-T5-48L-7-40K7-UNV-PT2-SWT-DT

FOOTNOTES:

- 1 16L only
- 2 16L-32L only
- 3 Consult factory for lead time. Consult factory for 90 CRI Requests
- 4 Standard
- 5 Universal Voltage 120-277

LED WATTAGE CHART				
	16L	32L	48L	64L
350 milliamps	18w	-	-	-
530 milliamps	28w	54w	-	-
700 milliamps	36w	71w	104w	137w
1050 milliamps	56w	106w	156w	205w



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Notes: _____

80 REV. 5/22

Specifications subject to change without notice.

HRZ SERIES

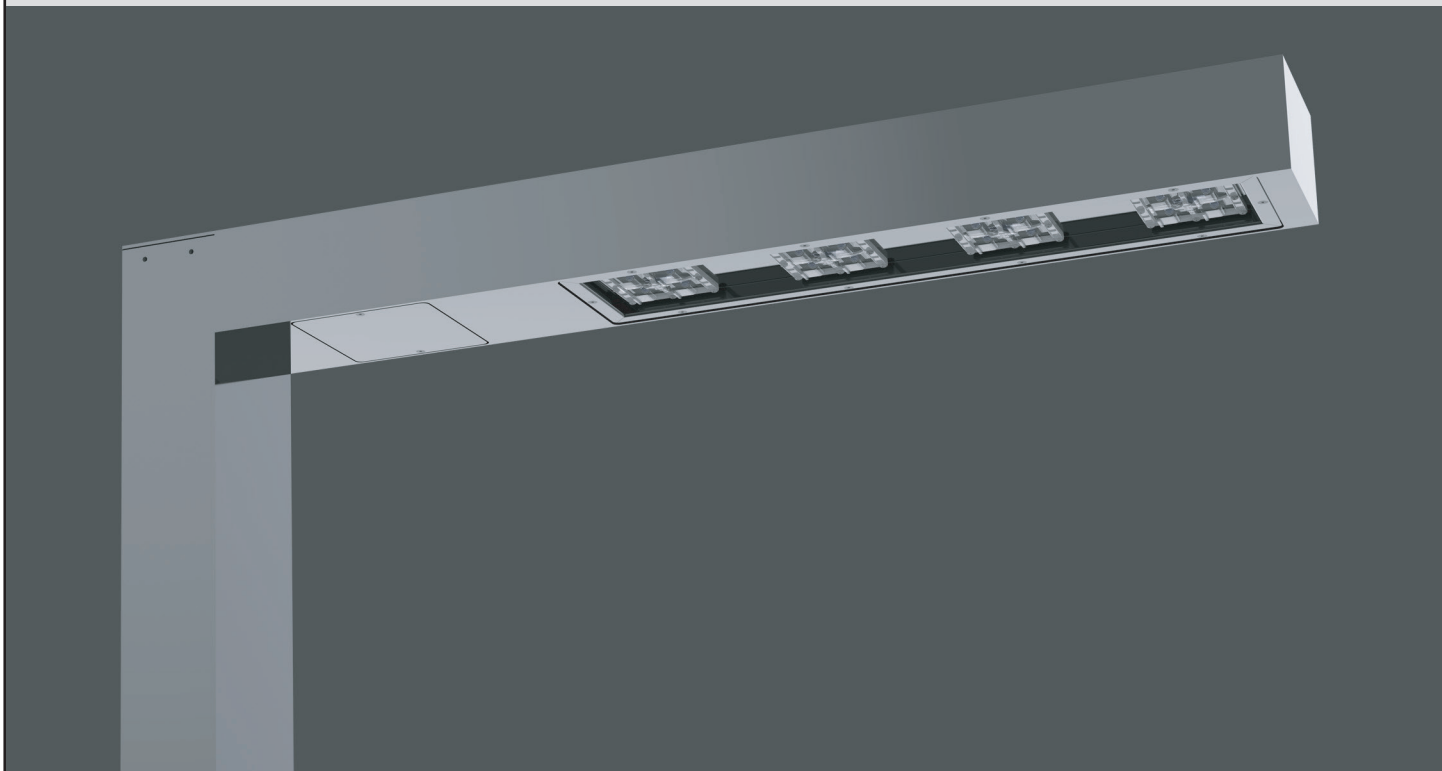
LED POST TOP

LUMEN DATA CHART													
PART NUMBER	T2 LUMENS	T2 LM/W	T3 LUMENS	T3 LM/W	T3-HSS LUMENS	T3-HSS LM/W	T4 LUMENS	T4 LM/W	T4-HSS LUMENS	T4-HSS LM/W	T5 LUMENS	T5 LM/W	WATTS
WLS-HRZ-16L-35-30K7	2142	119	2088	116	1044	58	2070	115	1026	57	2160	120	18
WLS-HRZ-16L-35-40K7	2305	128	2247	125	1116	62	2227	124	1098	61	2322	129	18
WLS-HRZ-16L-35-50K7	2356	131	2297	128	1188	66	2277	127	1170	65	5376	132	18
WLS-HRZ-16L-53-30K7	3275	117	3192	114	1624	58	3165	113	1596	57	3304	118	28
WLS-HRZ-16L-53-40K7	3524	126	3435	123	1736	62	3406	122	1708	61	3556	127	28
WLS-HRZ-16L-53-50K7	3603	1129	3511	125	1848	66	3482	124	1820	65	3640	130	28
WLS-HRZ-16L-7-30K7	4100	114	4115	111	2088	58	4003	111	2052	57	4176	116	36
WLS-HRZ-16L-7-40K7	4411	123	4300	119	2232	62	4308	120	2196	61	4500	125	36
WLS-HRZ-16L-7-50K7	4510	125	4396	122	2376	66	4404	122	2340	65	4608	128	36
WLS-HRZ-16L-1-30K7	5858	105	5712	102	3248	58	5661	101	3192	57	5880	105	56
WLS-HRZ-16L-1-40K7	6303	113	6146	110	3472	62	6091	109	3416	61	6328	113	56
WLS-HRZ-16L-1-50K7	6443	115	6283	112	3696	66	62274	111	3640	65	6496	116	56
WLS-HRZ-32L-53-30K7	5858	105	5712	102	3248	58	5661	101	3192	57	5880	105	56
WLS-HRZ-32L-53-40K7	6303	113	6146	110	3472	62	6091	109	3416	61	6328	113	56
WLS-HRZ-32L-53-50K7	6443	115	6283	112	3696	66	6227	111	3640	65	6496	446	56
WLS-HRZ-32L-7-30K7	7427	105	7881	111	4118	58	7896	111	4047	57	8236	116	71
WLS-HRZ-32L-7-40K7	7991	113	8480	119	4402	62	8496	120	4331	61	8875	125	71
WLS-HRZ-32L-7-50K7	8169	115	8669	1212	4686	66	8685	122	4615	65	9088	128	71
WLS-HRZ-32L-1-30K7	11088	105	10812	102	6148	58	10715	101	6142	57	11130	105	106
WLS-HRZ-32L-1-40K7	11930	113	11634	110	6572	62	11529	109	6466	61	11978	113	106
WLS-HRZ-32L-1-50K7	12196	115	11893	112	6996	66	11787	111	6890	65	12296	116	106
WLS-HRZ-48L-7-30K7	11844	114	11544	111	6032	58	11648	112	5928	57	12068	116	104
WLS-HRZ-48L-7-40K7	12744	123	12421	119	6448	62	12444	120	6344	61	12985	125	104
WLS-HRZ-48L-7-50K7	13028	125	12698	122	6864	66	12792	123	6760	65	13275	128	104
WLS-HRZ-48L-1-30K7	16318	105	15912	102	9048	58	15769	101	8892	57	16455	105	156
WLS-HRZ-48L-1-40K7	17558	113	17121	110	9672	62	16968	109	9516	61	17705	113	156
WLS-HRZ-48L-1-50K7	17950	115	17503	112	10296	66	17345	111	10140	65	18100	116	156
WLS-HRZ-64L-7-30K7	15488	114	15096	111	7888	58	15124	111	7752	57	15781	116	136
WLS-HRZ-64L-7-40K7	16665	123	16243	119	8432	62	16273	120	8298	61	16981	125	136
WLS-HRZ-64L-7-50K7	17037	125	16606	122	8976	66	16728	123	8840	65	17359	128	136
WLS-HRZ-64L-1-30K7	23346	114	22755	111	11890	58	20722	101	11685	57	23780	116	205
WLS-HRZ-64L-1-40K7	25120	123	24484	119	12710	62	22297	109	12505	61	25625	125	205
WLS-HRZ-64L-1-50K7	25681	125	25031	122	13530	66	22795	111	13325	65	26240	128	205



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Project Name: _____
Date: _____
Location: _____
Notes: _____



LED WATTAGE CHART				
	16L	32L	48L	64L
700 milliamps	36w (4385-4720 Lumens)	71w (8770-9439 Lumens)	104w (13154-14159 Lumens)	136w (17539-18897 Lumens)
1050 milliamps	56w (6022-6482 Lumens)	106w (11797-12698 Lumens)	156w (17360-18686 Lumens)	205w (22627-24355 Lumens)

Form

- Elegant Rectilinear Extruded Aluminum Housing
- Corrosion Resistant Stainless Steel External Hardware
- Sleek, Low Profile Housing
- Spec Grade Performance
- Engineered For Optimum Thermal Management
- Anchor Base Plate For Easy Installation
- 8 Architectural Finishes
- Standard, RAL Colors Available

Function

- Micro Optics IES Distributions T2, T3, T4, T5
- Lumileds Luxeon MX. LEDs
- Philips Advance 0-10V Dimming Drivers THD @ Max Load < 15%
- Power factor @ Max Load < 0.95
- 2700K, 3000K, 3500K, 4000K, Or 5000K
- 16L to 48L LED Configuration
- 36-205 Watts (Single Head Wattage)
- CRI 70, 80, or 90
- Extruded Aluminum Heat Sink
- 5 Mils Powder Coat
- Aluminum Pole .250 Wall

Reliability

- Silicone Micro Optics
- 5 Year Standard Warranty
- IP67 Optics
- Reduces Energy Consumption And Costs Up To 65%
- Dark Sky Approved



Project Name: _____

Type: _____

TRC-4 ORDERING GUIDE

*Ordering information for Pole & Fixture

Cat#	Light Dist.	No. of LEDs	Milliamps	Kelvin Temp	Volts
WLS TRC-4	Type 2 (T2)	16 (16L)	700 (7)	2700K, 80 CRI (27K8) ① ⑤	120-277 (UNV)
	Type 3 (T3)	32 (32L)	1050 (1)	3000K, 70 CRI (30K7) ⑤	340-480 (HV)
	Type 4 (T4)	48 (48L)		3000K, 80 CRI (30K8) ① ⑤	
	Type 5 (T5)	64 (64L)		3500K, 80 CRI (35K8)	
				4000K, 70 CRI (40K7)	
				4000K, 80 CRI (40K8) ①	
				5000K, 70 CRI (50K7)	
				5000K, 80 CRI (50K8) ①	

Config.	Color	Options	Pole Height
Single (SGL)	Bronze Textured (BRZ)	Nema 7-Pin Receptacle (PE7) ②	20' (20)
Double (D-180)	White Textured (WHT)	Photocell (PC) ②	22' (22)
MPF Triple (TRI) ②	Smooth White Gloss (SWT)	FSP-211 with Motion Sensor (FSP-20) ②	24' (24)
MPF Quad (QD) ②	Silver Textured (SVR)	9'-20" Heights (FSP-40) ②	26' (26)
	Black Textured (BLK)	21'-40' Heights	No Pole (NO)
MPF (MPF) ②	Smooth Black Gloss (SBK)	Marine Grade Finish (MGF)	Aluminum Pole .250 Wall
	Graphite Textured (GPH)	House Side Shield (HSS)	Comes With 12" Anchor Base 1" Thick, 1" Anchor Bolts
	Grey (GRY)	Rotated Optic Left (ROL)	
	Custom (CS)	Rotated Optic Right (ROR)	
		No Options (NO)	

Notes:

- ① Consult Factory For Lead Time. Consult Factory For 90 CRI Requests.
- ② MPF Mid Pole Fixture. Consult Factory
- ③ Only Available When Ordering NLS Pole
- ④ Universal Voltage 120-277
- ⑤ 3000k or warmer must be selected to meet International Dark-Sky Association certification.

Approved By: _____ Project Name: _____

Location: _____ Date: _____

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WLS LIGHTING
 a WLS company

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver by Philips Advance
- Driver power factor at maximum load is $\geq .95$, THD maximum load is 15%
- All drivers, controls, and sensors housed in enclosed compartment
- Lumileds Luxeon MX LED's
- CRI 70, 80, or 90
- Color temperatures: 2700K, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KA supplied as standard.

OPTIONS

- NEMA 7-Pin Receptacle (PE7). Only available when ordering NLS pole.
- PHOTO CELL (PC)
- DIMMING CONTROL (FSP-20) (FSP-40)
- 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. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- SHIELD (HSS)—House Side Shield is designed for full property line cut-off.
- ROTATED OPTICS (ROL) (ROR)

CONTROL OPTIONS

- FSP-211 with Motion Sensor (FSP-XX)—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-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 field.
- Motion sensor mounted to access cover

- 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.

CONSTRUCTION

- Extruded Aluminum
- Internal cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures water tight seal for electronics compartment
- Two-piece silicone Micro Optic system ensures IP67 seal around each PCB

FINISH

- 3-5 mils electrostatic powder coat.
- WLS Lighting standard high-quality finishes prevent corrosion and protects against extreme environmental conditions

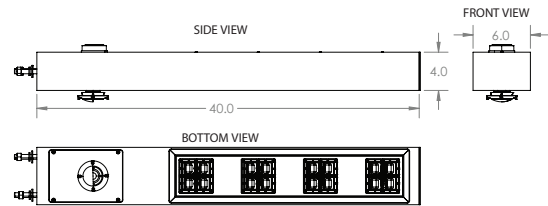
WARRANTY

Five-year limited warranty for drivers and LEDs.

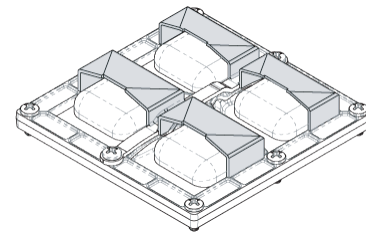
OPTICS

Silicone optics high thermal stability and light output provide higher powered LEDs with minimized lumen depreciation. UV stability with scratch resistance increases exterior application durability. Silicone optics do not yellow, crack or brittle over time

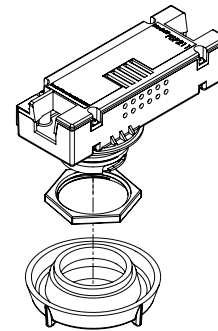
DIMENSIONS



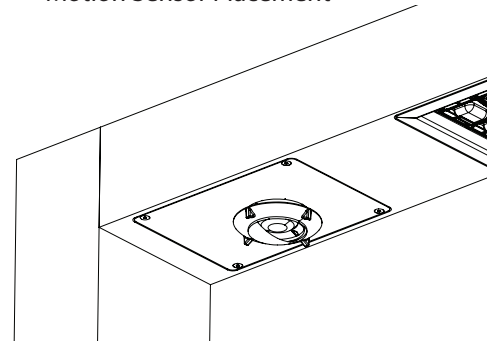
HOUSE SIDE SHIELD



FSP-211



Motion Sensor Placement



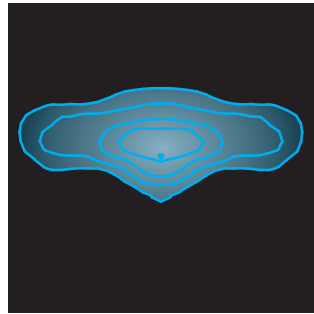
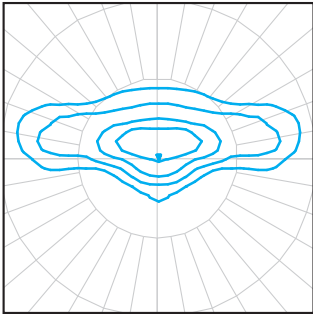
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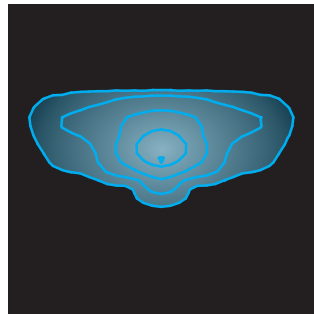
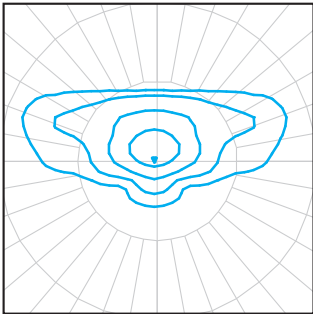
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IES DISTRIBUTIONS



T2 Optic

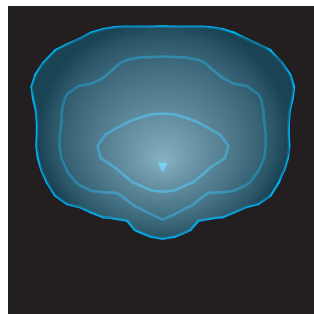
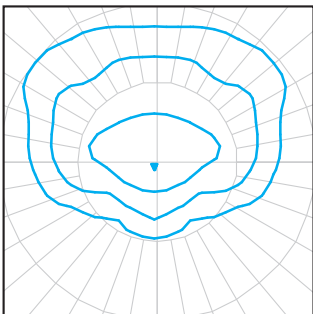
The Type II distribution is used for narrow pathways and trails, narrow entrance of shopping center, parking lots and office complex's.



T3 Optic

The type III distribution is meant for roadway lighting, general parking areas and other areas where a larger area of lighting is required. Type III lighting needs to be placed to the side of the area, allowing the light to project outward and fill the area. This produces a filling light flow.

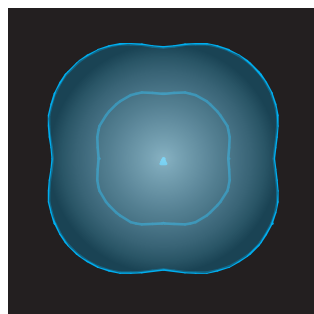
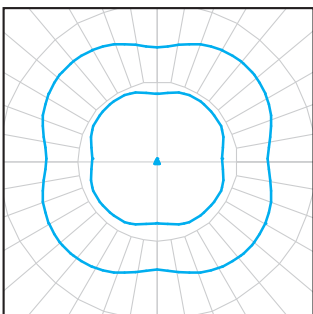
Type III light distributions have a preferred lateral width of 40 degrees. This distribution is intended for luminaires mounted at or near the side of medium width roadways or areas, where the width of the roadway or area does not exceed 2.75 times the mounting height.



T4 Optic

The type IV distribution produces a semicircular light meant for mounting on the sides of buildings and walls. It's best for illuminating the perimeter of parking areas and businesses. The intensity of the Type IV lighting has the same intensity at angles from 90 degrees to 270 degrees.

Type IV light distributions have a preferred lateral width of 60 degrees. This distribution is intended for side-of-road mounting and is generally used on wide roadways where the roadway width does not exceed 3.7 times the mounting height.



T5 Optic - Symmetrical

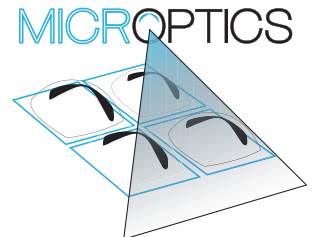
Type V produces a symmetrical distribution that has the same intensity at all angles. This distribution has a uniform symmetry of candlepower that is essentially the same at all lateral angles. It is meant for large, commercial parking lot lighting as well as areas where sufficient, evenly distributed light is necessary.

SILICONE OPTICS

WLS Lighting Silicone Micro Optical System technology takes quality and performance to the highest level. Vandal resistant, superior clarity—Micro Optics have become the best and lasting solution in the industry.

BENEFITS

- Produces superior 96% clarity
- Heat resistant to 200° C, 50% higher than acrylic
- Ecologically friendly—no glare
- Vandal-resistant
- Does not brittle, crack, or yellow over time



Approved By: _____ Project Name: _____

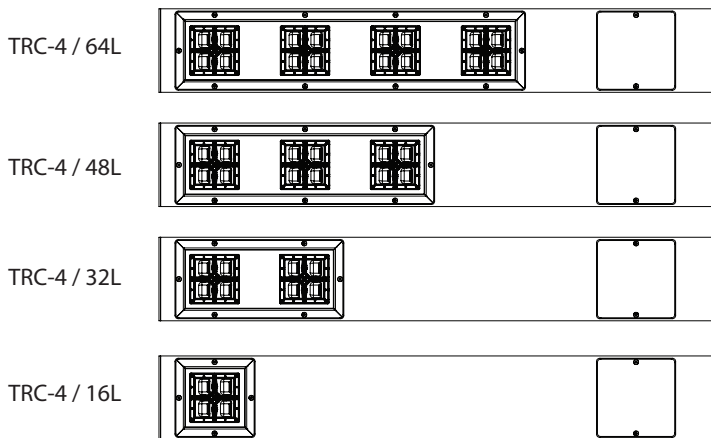
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WLS LIGHTING
a WLS company

OPTICAL CONFIGURATIONS

Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.



TRAC 4 LUMEN CHART

PART NUMBER	T2	LM/W	BUG	T3	LM/W	BUG	T4	LM/W	BUG	T5	LM/W	BUG	WATTS
TRC-4-16L-7-30K7	4,385	122	B1-U0-G1	4,409	122	B1-U0-G1	4,409	122	B1-U0-G1	4,495	125	B3-U0-G1	36
TRC-4-16L-7-40K7	4,604	128	B1-U0-G1	4,630	129	B1-U0-G1	4,630	129	B1-U0-G1	4,720	131	B3-U0-G1	36
TRC-4-16L-7-50K7	4,604	128	B1-U0-G1	4,630	129	B1-U0-G1	4,630	129	B1-U0-G1	4,720	131	B3-U0-G1	36
TRC-4-16L-1-30K7	6,022	108	B1-U0-G1	6,056	108	B1-U0-G1	6,056	108	B1-U0-G1	6,174	110	B3-U0-G1	56
TRC-4-16L-1-40K7	6,323	113	B1-U0-G1	6,359	114	B1-U0-G1	6,359	114	B1-U0-G1	6,482	116	B3-U0-G1	56
TRC-4-16L-1-50K7	6,323	113	B1-U0-G1	6,359	114	B1-U0-G1	6,359	114	B1-U0-G2	6,482	116	B3-U0-G1	56
TRC-4-32L-7-30K7	8,770	124	B2-U0-G2	8,819	124	B2-U0-G2	8,819	124	B2-U0-G2	8,990	127	B3-U0-G2	71
TRC-4-32L-7-40K7	9,208	130	B2-U0-G2	9,259	130	B2-U0-G2	9,259	130	B2-U0-G2	9,439	133	B3-U0-G2	71
TRC-4-32L-7-50K7	9,208	130	B2-U0-G2	9,259	130	B2-U0-G2	9,259	130	B2-U0-G2	9,439	133	B3-U0-G2	71
TRC-4-32L-1-30K7	11,797	111	B2-U0-G2	11,863	112	B2-U0-G2	11,863	112	B2-U0-G2	12,094	114	B4-U0-G2	106
TRC-4-32L-1-40K7	12,387	117	B2-U0-G2	12,456	118	B2-U0-G2	12,456	118	B2-U0-G2	12,698	120	B4-U0-G2	106
TRC-4-32L-1-50K7	12,387	117	B2-U0-G2	12,456	118	B2-U0-G2	12,456	118	B2-U0-G2	12,698	120	B4-U0-G2	106
TRC-4-48L-7-30K7	13,154	126	B2-U0-G2	13,228	127	B3-U0-G3	13,228	127	B3-U0-G3	13,485	130	B4-U0-G2	104
TRC-4-48L-7-40K7	13,812	133	B2-U0-G2	13,889	134	B3-U0-G3	13,889	134	B3-U0-G3	14,159	136	B4-U0-G2	104
TRC-4-48L-7-50K7	13,812	133	B2-U0-G2	13,889	134	B3-U0-G3	13,889	134	B3-U0-G3	14,159	136	B4-U0-G2	104
TRC-4-48L-1-30K7	17,360	111	B3-U0-G3	17,457	112	B3-U0-G3	17,457	112	B3-U0-G3	17,796	114	B4-U0-G2	156
TRC-4-48L-1-40K7	18,228	117	B3-U0-G3	18,330	117	B3-U0-G3	18,330	117	B3-U0-G3	18,686	120	B4-U0-G2	156
TRC-4-48L-1-50K7	18,228	117	B3-U0-G3	18,330	117	B3-U0-G3	18,330	117	B3-U0-G3	18,686	120	B4-U0-G2	156
TRC-4-64L-7-30K7	17,539	129	B3-U0-G3	17,637	130	B3-U0-G3	17,637	130	B3-U0-G3	17,980	132	B4-U0-G2	136
TRC-4-64L-7-40K7	18,416	135	B3-U0-G3	18,519	136	B3-U0-G3	18,519	136	B3-U0-G3	18,879	139	B4-U0-G2	136
TRC-4-64L-7-50K7	18,416	135	B3-U0-G3	18,519	136	B3-U0-G3	18,519	136	B3-U0-G3	18,879	139	B4-U0-G2	136
TRC-4-64L-1-30K7	22,627	110	B3-U0-G3	22,753	111	B3-U0-G3	22,753	111	B3-U0-G3	23,195	113	B5-U0-G3	205
TRC-4-64L-1-40K7	23,758	116	B3-U0-G3	23,891	117	B3-U0-G3	23,891	117	B3-U0-G3	24,355	119	B5-U0-G3	205
TRC-4-64L-1-50K7	23,758	116	B3-U0-G3	23,891	117	B3-U0-G3	23,891	117	B3-U0-G3	24,355	119	B5-U0-G3	205

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

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TRAC 4 LUMEN CHART HSS

PART NUMBER	T2 HSS	LM/W	BUG	T3 HSS	LM/W	BUG	T4 HSS	LM/W	BUG	WATTS
TRC-4-16L-7-30K7	3,227	90	B1-U0-G1	3,120	87	B0-U0-G1	3,018	84	B0-U0-G1	36
TRC-4-16L-7-40K7	3,389	94	B1-U0-G1	3,276	91	B0-U0-G1	3,169	88	B0-U0-G1	36
TRC-4-16L-7-50K7	3,389	94	B1-U0-G1	3,276	91	B0-U0-G1	3,169	88	B0-U0-G1	36
TRC-4-16L-1-30K7	4,433	79	B1-U0-G1	4,285	77	B0-U0-G1	4,145	74	B1-U0-G1	56
TRC-4-16L-1-40K7	4,654	83	B1-U0-G1	4,499	80	B1-U0-G1	4,353	78	B1-U0-G1	56
TRC-4-16L-1-50K7	4,654	83	B1-U0-G1	4,499	80	B1-U0-G1	4,353	78	B1-U0-G1	56
TRC-4-32L-7-30K7	6,454	91	B1-U0-G1	6,239	88	B1-U0-G2	6,036	85	B1-U0-G2	71
TRC-4-32L-7-40K7	6,777	95	B1-U0-G2	6,551	92	B1-U0-G2	6,338	89	B1-U0-G2	71
TRC-4-32L-7-50K7	6,777	95	B1-U0-G2	6,551	92	B1-U0-G2	6,338	89	B1-U0-G2	71
TRC-4-32L-1-30K7	8,683	82	B1-U0-G2	8,394	79	B1-U0-G2	8,120	77	B1-U0-G2	106
TRC-4-32L-1-40K7	9,117	86	B1-U0-G2	8,813	83	B1-U0-G2	8,526	80	B1-U0-G2	106
TRC-4-32L-1-50K7	9,117	86	B1-U0-G2	8,813	83	B1-U0-G2	8,526	80	B1-U0-G2	106
TRC-4-48L-7-30K7	9,682	93	B1-U0-G2	9,359	90	B1-U0-G2	9,054	87	B1-U0-G2	104
TRC-4-48L-7-40K7	10,166	98	B1-U0-G2	9,827	94	B1-U0-G2	9,507	91	B1-U0-G2	104
TRC-4-48L-7-50K7	10,166	98	B1-U0-G2	9,827	94	B1-U0-G2	9,507	91	B1-U0-G2	104
TRC-4-48L-1-30K7	12,777	82	B1-U0-G2	12,352	79	B1-U0-G2	11,949	77	B1-U0-G2	156
TRC-4-48L-1-40K7	13,416	86	B1-U0-G2	12,969	83	B1-U0-G2	12,547	80	B1-U0-G2	156
TRC-4-48L-1-50K7	13,416	86	B1-U0-G2	12,969	83	B1-U0-G2	12,547	80	B1-U0-G2	156
TRC-4-64L-7-30K7	12,909	95	B1-U0-G2	12,479	92	B1-U0-G2	12,073	89	B1-U0-G2	136
TRC-4-64L-7-40K7	13,554	100	B2-U0-G2	13,103	96	B1-U0-G2	12,676	93	B1-U0-G2	136
TRC-4-64L-7-50K7	13,554	100	B2-U0-G2	13,103	96	B1-U0-G2	12,676	93	B1-U0-G2	136
TRC-4-64L-1-30K7	16,653	81	B2-U0-G2	16,099	79	B1-U0-G2	15,575	76	B1-U0-G3	205
TRC-4-64L-1-40K7	17,486	85	B2-U0-G2	16,904	82	B1-U0-G3	16,353	80	B1-U0-G3	205
TRC-4-64L-1-50K7	17,486	85	B2-U0-G2	16,904	82	B1-U0-G3	16,353	80	B1-U0-G3	205

MODEL	WIDTH	DEPTH	LENGTH	WEIGHT
TRAC - 4	6"	4"	40"	28

EPA	SGL	DBL
	1.3	2.7

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			

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TRAC POLE RECTANGULAR ALUMINUM POLE

SHAFT

Rectangular Aluminum Pole (RAP) shaft (.250 Wall) is 6061 T6 Extruded Aluminum, 4 X 6 inch to provide a seamless transition into the TRC fixture. Poles have ground lug welded inside hand-hole opposite side of the pole extrusion. Pole Extrusion is conjoined to Anchor Base by welding internal and external to pole shaft. For custom configuration consult Factory.

ANCHOR BOLTS

All anchor bolts are fully hot dipped galvanized and come with two galvanized nuts and washers per bolt. Anchor bolts are not included for Custom Bolt Circle. Anchor Bolts are "J" style, with a 4" hook at the end for added strength. 1" Anchor Bolts are 1" diameter x 36" long with a 4" long "J" hook.

ANCHOR BASE

Base plates are machined from 6061 Aluminum, 12" square, 1" thick with 1" anchor bolts.

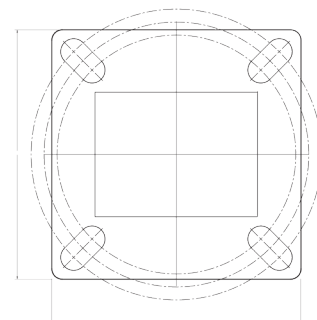
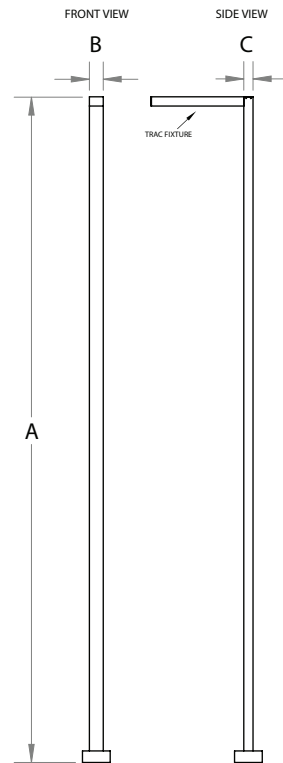
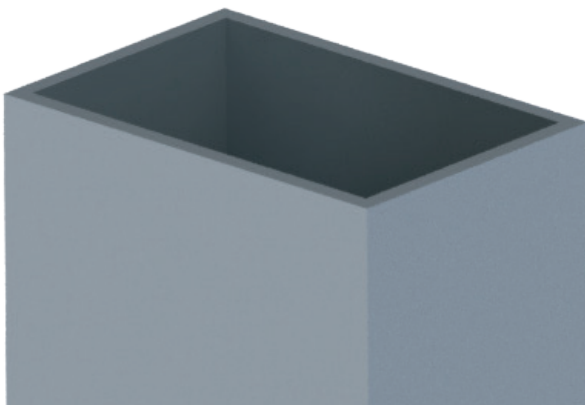
HAND HOLE COVER AND POLE CAP

All poles come with removable machined aluminum pole cap. All poles caps are powder coated to match the pole. All base covers are made of aluminum and powder coated to match the pole. Hand Hole is constructed of 3"x 5" rectangular aluminum tubing which is welded to pole shaft for added strength. Hand Hole covers are provided with internal bridge support and also powder coated to match pole finish.

FINISH

All poles have minimum 3 to 5 mils powder coat finish. All poles are sandblasted prior to powder coat application.

RECTANGULAR ALUMINUM POLE DETAIL



12" Base

*Consult Factory for Bolt Circle Template

DIMENSION	RAP
A	20-26 ft. or Custom Height
B	6 in.
C	4 in.

*Anchor Bolts are NOT included with Custom Bolt Circle.
 *Do NOT pour concrete referencing this drawing. Consult Factory.
 *Must Specify 4-Bolt Pattern.

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