

SITE PLAN APPLICATION  
218-220 WASHINGTON AVENUE  
WRITTEN SUBMISSION S -1 SITE LIGHTING

THERE ARE ONLY TWO SITE LIGHTING FIXTURES PROPOSED FOR THIS PROJECT, AT THE SITE ENTRANCE DRIVEWAY. THESE WILL BE SPAULDING CIMMARON LED FIXTURES ON 20 FOOT POLES, A CUT SHEET OF THE FIXTURE IS ATTACHED. ALSO ATTACHED IS A PHOTOMETRIC PLAN IN THE AREA OF THESE 2 FIXTURES.

<b>CIMARRON LED</b>	Cat.#		Approvals	<b>SPAULDING LIGHTING</b>
	Job	Type		

**SPECIFICATIONS**

**Construction:**

- Stylish vertically finned die-cast solid top housing for maximum heat dissipation; Stops collection of unsightly debris from gathering on top of the housing
- Rugged lower die-cast aluminum heat sink accelerates thermal management and optimizes PCB and optical performance
- Separate optical and electrical compartment for optimum component operation
- One piece die cut silicone gasket ensures weather proof seal around each individual LED for IP65 rating
- Backlight Control (BC) option available for 85% spill light reduction, doesn't change fixture appearance or EPA, recommended for Type III and Type IV distributions
- Stamped bezel provides mechanical compression to seal the optical assembly
- Complements the Hubbell Southwest series of outdoor fixtures
- Weight - 45.0 pounds, EPA - 1.3 ft<sup>2</sup>
- Features exclusive wiHUBB technology
  - Wireless system for On/Off and 0-10VDC full range dimming control
  - Programmable autonomous operation
- Suitable for applications requiring 3G testing prescribed by ANSI C136.31

**Optics:**

- Choice of 72 high brightness LED configurations with individual acrylic lenses specially designed for IES Type II, III, IV and V distributions

- CCT: 3000K (80 CRI), 4200K (70 CRI), 5100K (67 CRI), and turtle friendly Amber LED options

- CRI: 70

**Electrical:**

- Universal input voltage 120-277 VAC, 50/60 Hz
- Integral step-down transformer for 347V & 480V
- Ambient operating temperature -40° C to 40° C
- Automatic thermal self-protection
- Drivers have greater than 90% power factor and less than 10% THD

- Optional continuous dimming to 10% or dual circuitry available
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- 1050 mA driver available with 90L configuration for increased lumen output
- LED electrical assembly, including PR devices, consumes no power in the 'off' state
- Surge protection of 10KA 8/20 μSec wave; clamping voltage of 320V & surge rating of 273J

**Lumen maintenance:**

- L90 at 60,000 hours (Projected per IESNA TM-21-11)

**Installation:**

- Two die-cast aluminum arm designs: The decorative arm offers a sleek upswept look while the straight arm follows the housing's contoured lines for continuity of style
- Fixture ships with arm installed for ease of installation and mounts to #2 drill pattern
- Wall bracket, mast arm fitter and pole accessories are also available allowing easy mounting for virtually any application

**Finish:**

- TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness

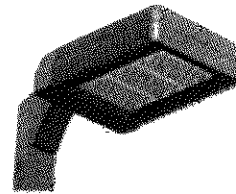
**Warranty:**

Five year limited warranty (for more information visit: <http://www.hubbelloutdoor.com/resources/warranty/>)

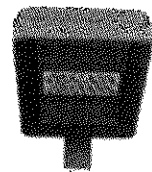
**Listings:**

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations
- Models meet DesignLights Consortium (DLC) qualifications, consult DLC website for more details: <http://www.designlights.org/QPL>
- IDA approved • IP65

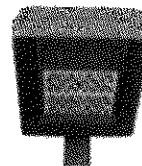
**PRODUCT IMAGE(S)**



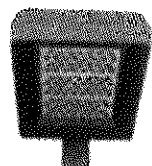
90 LED 3/4 VIEW



30 LED

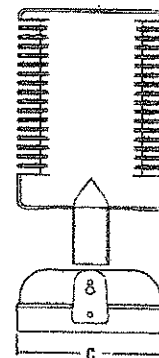
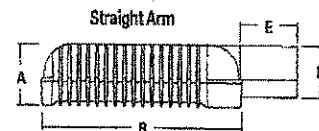
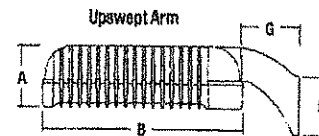


60 LED



90 LED

**DIMENSIONS**



A	B	C	D	E	F	G
6 3/4"	21 3/8"	16"	6 5/8"	6 5/16"	5 5/8"	6 1/8"
171mm	552mm	406mm	168mm	160mm	143mm	155mm

**CERTIFICATIONS/LISTINGS**



**ORDERING INFORMATION** SEE NEXT PAGE



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**ORDERING INFORMATION** ORDERING EXAMPLE: CL1-A-90LU-5K-3-DB-RPA3



SERIES	NO. OF LEDs	VOLTAGE	CCT	DRIVE CURRENT	OPTIONS
CL1 Clarron LED	90L 90 High brightness LEDs 60L 60 High brightness LEDs 30L 30 High brightness LEDs	U <sup>1</sup> Universal 120V-277V, 50/60 Hz 1 <sup>7</sup> 120V 2 <sup>7</sup> 208V 3 <sup>7</sup> 240V 4 <sup>7</sup> 277V 5 480V, 60 Hz F 347V, 60 Hz E <sup>8</sup> 220V, 50 Hz	3K 3000K 4K 4200K 5K 5100K AM <sup>6</sup> Amber (590 nm available for "Turtle Friendly" applications (consult factory))	Leave blank for 700mA (standard) 035 350mA Amber CCT only 105 1050 mA (use with 90L only for higher lumen output)	BC <sup>5</sup> Backlight control BL <sup>1,2,3</sup> Bi-level control CD <sup>2</sup> Continuous dimming WB Wall bracket RPA3 3" Round pole adapter RPA4 4" Round pole adapter RPA5 5" Round pole adapter RPA6 6" Round pole adapter F(X) <sup>4,5</sup> Fusing (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V, 5-480V, 6-347V) SSB Stainless steel LED bezel VG Vandal guard CONTROL OPTIONS SCO Motion sensor On/Off control, No light output when no motion detected SCP Programmable motion control, factory default is 50% PR(X) <sup>5</sup> NEMA Photo cell receptacle (replace X with voltage: U=120-277, 5=480, 6=347) WH <sup>7</sup> In-fixture wireless control module (120, 277, 347 & 480V)
<b>MOUNTING</b>					
A Arm mount construction (6" straight rigid arm included & acceptable for 90° configurations)					
AD Decorative arm mount const. (6" decorative upswept arm incl. & acceptable for 90° configurations)					
MAF Mast arm fitter for mounting to standard 2 3/8" mast arm bracket, includes 6" straight rigid arm					
<b>DISTRIBUTION</b>					
2 Type II					
3 Type III					
4 Type IV					
5M Type V Medium					
5S Type V Short					
5W Type V Wide					
2L Type II Rotated 90° left					
3L Type III Rotated 90° left					
4L Type IV Rotated 90° left					
2R Type II Rotated 90° right					
3R Type III Rotated 90° right					
4R Type IV Rotated 90° right					
<b>COLOR</b>					
DB Dark Bronze					
BL Black					
WH White					
GR Gray					
PS Platinum Silver					
RD Red (premium color)					
FG Forest Green (premium color)					
CC Custom Color					

- Notes: 1 - For BL, option 90L and 60L: N/A 347V & 480V  
 2 - BL & CD cannot be combined  
 3 - Fuse option not available with universal voltage  
 4 - Select F3 fusing option for 220V  
 5 - Photocell receptacle not available with BL option  
 6 - Not recommended for Type III and IV (500mA) only  
 7 - Select only when using voltage 60-347V (option F=WH)  
 8 - Available in 350mA drive current only Type IV, 5M

**ENERGY SAVING DATA**

ENERGY DATA		INPUT WATTS		LUMENS DELIVERED						DRIVERS
Power Factor	>.9	120V-277V	347V-480V	TYPE 2	TYPE 3	TYPE 4	TYPE 5M	TYPE 5S	TYPE 5W	CURRENT
Total Harmonic Distortion	<10%									
		30L-5K	70 87	6384	6164	6641	7108	6999	6619	2@700mA
		60L-5K	140 157	13300	12842	13125	13185	13675	12954	4@700mA
		90L-5K	210 227	19684	19006	19202	20592	19610	18973	6@700mA
		90L-5K-105	336 363	28974	25351	26548	25793	27445	25195	6@1050mA
		30L-4K	70 87	6089	6109	6104	6417	6439	6046	2@700mA
		60L-4K	140 157	11583	11468	12036	12038	12581	11807	4@700mA
		90L-4K	210 227	17143	16973	17648	18521	20220	17394	6@700mA
		90L-4K-105	336 363	23896	23912	24199	24583	25357	23128	6@1050mA
		30L-3K	70 87	4606	4666	4686	4858	4902	4601	2@700mA
		60L-3K	140 157	9013	9175	9216	9409	9461	8844	4@700mA
		90L-3K	210 227	13360	13601	13575	13923	14004	13902	6@700mA
		90L-3K-105	336 363	17645	17612	17469	17950	18271	17330	6@1050mA

ACCESSORIES SEE NEXT PAGE



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**ACCESSORIES**

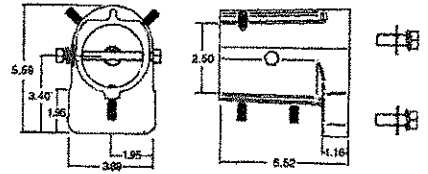
Catalog Number	Description
CR-RPA3-XX <sup>1</sup>	Round pole adapter for straight arm (3¼ - 3¾")
CR-RPA4-XX <sup>1</sup>	Round pole adapter for straight arm (3¾ - 4½")
CR-RPA5-XX <sup>1</sup>	Round pole adapter for straight arm (5")
CR-RPA6-XX <sup>1</sup>	Round pole adapter for straight arm (6")
CRD-RPA2-XX <sup>1</sup>	Round pole adapter for upswept arm (2¼ - 3¼")
CRD-RPA3-XX <sup>1</sup>	Round pole adapter for upswept arm (3¼ - 3¾")
CRD-RPA4-XX <sup>1</sup>	Round pole adapter for upswept arm (3¾ - 4½")
CRD-RPA5-XX <sup>1</sup>	Round pole adapter for upswept arm (5")
CRD-RPA6-XX <sup>1</sup>	Round pole adapter for upswept arm (6")
WB-CR-XX <sup>1</sup>	Wall bracket
TPLB-XX <sup>1</sup>	Twin parallel luminaire bracket
MAF-CL-XX <sup>1</sup>	Horizontal mast arm fitter for 2 3/8" OD arm. Mounts to standard 6" arm (ordered with fixture)

- 1 Replace XX with color choice, eg.: DB for Dark Bronze
- 2 When ordering poles, specify Pole Drill Pattern #2
- 3 Fixture must include standard 6" arm

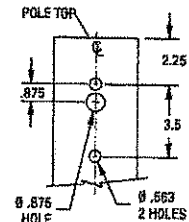
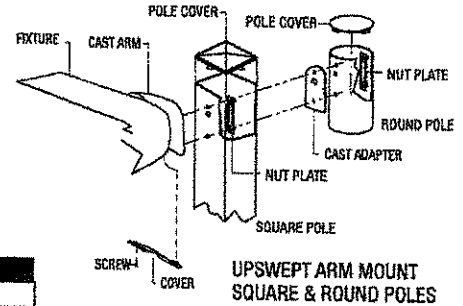
**MOUNTING ACCESSORIES**

Catalog Number	Description
ARM-CL-K-TA-XX <sup>1</sup>	Adjustable mounting arm for single fixture (2-3/8 tenon) - 5 lbs. 2.3 kgs.
ARM-CL-TK-TA-XX <sup>1</sup>	Adjustable mounting arm for two fixtures at 180° (2-3/8 tenon) - 7 lbs. 3.2 kgs.
ARM-CL-K-S-XX <sup>1</sup>	10" adjustable arm - .5 lbs. .05 kgs. - 5.75 lbs. 2.6 kgs.

- 1 Replace XX with color choice, eg.: DB for Dark Bronze
- 2 Fixture must include standard 6" straight arm



MAF - HORIZONTAL MAST ARM FITTER



#2 DRILL PATTERN FOR POLES

**TENON TOP POLE BRACKET ACCESSORIES**

(2 3/8" OD tenon) (RSS version requires 4" round pole adapter)

Catalog Number	Description
SETA-XX <sup>1</sup>	Square pole tenon adapter (4 at 90 degrees)
RETA-XX <sup>1</sup>	Round pole tenon adapter (4 at 90 degrees)
TETA-XX <sup>1</sup>	Hexagonal pole tenon adapter (3 at 120 degrees)

- 1 Replace XX with color choice, eg.: DB for Dark Bronze

**PHOTOCONTROL EQUIPMENT**

Catalog Number	Description
PTL-1	Photocontrol - twist-lock cell (120V)
PTL-8	Photocontrol - twist-lock cell (120-277V)
PTL-5	Photocontrol - twist-lock cell (480V)
PTL-6	Photocontrol - twist-lock cell (347V)
PSG	Shorting cap - twist-lock

**LIGHTING FACTS**

**lighting facts**  
SPALDING LIGHTING

Light Output (lumens) 6270  
Watts 65.7  
Lumen per Watt (lm/watt) 97

Color Accuracy 74

Light Color 4021 (Bright White)

Warranty Yes

\*\* See www.lightingfacts.com for details.

**lighting facts**  
SPALDING LIGHTING

Light Output (lumens) 6880  
Watts 65.7  
Lumen per Watt (lm/watt) 99

Color Accuracy 75

Light Color 3003 (Daylight)

Warranty Yes

\*\* See www.lightingfacts.com for details.

**lighting facts**  
SPALDING LIGHTING

Light Output (lumens) 15440  
Watts 72.0  
Lumen per Watt (lm/watt) 72

Color Accuracy 75

Light Color 5432 (Bright White)

Warranty Yes

\*\* See www.lightingfacts.com for details.

**lighting facts**  
SPALDING LIGHTING

Light Output (lumens) 22800  
Watts 72.0  
Lumen per Watt (lm/watt) 87

Color Accuracy 75

Light Color 4102 (Bright White)

Warranty Yes

\*\* See www.lightingfacts.com for details.

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NOTES:  
 1) EXACT MOUNTING DETAILS TO BE DETERMINED AT JOBSITE BY OTHERS.  
 2) CALCULATIONS MAY SHOW THE EFFECT OF SHADOWING CAUSED BY BUILDINGS AND OBJECTS WITHIN THE CALCULATED SPACE OR IN THE SITE AREA.  
 3) READINGS SHOWN ARE INITIAL HORIZONTAL FOOTCANDLES ON A FLAT SITE UNLESS OTHERWISE INDICATED.  
 4) THIS CALCULATION IS BASED ON LIMITED INFORMATION SUPPLIED BY OTHERS TO SIMPLY LIGHTING ASSOCIATES AND STANDARD ASSUMPTIONS OF THE SPACE AND/OR SITE.  
 5) CONFORMANCE TO CODES AND OTHER LOCAL REQUIREMENTS AS DETERMINED BY THE AIA ARE THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.  
 6) THIS LAYOUT DRAWING MUST BE COORDINATED WITH THE SITE LOCATION FOR CORRECT FEATURE ORIENTATION.  
 7) CHECK GRAPHIC SCALE. DOCUMENTS PRINTED OR PLOTTED FROM ELECTRONIC FILES MAY OCCUR AT OTHER THAN THE DESIRED OR ASSUMED GRAPHIC SCALES. IT IS THE RESPONSIBILITY OF THE RECIPIENT TO VERIFY THAT THE PRINTED OR PLOTTED-TO-SCALE DRAWING IS PRINTED TO SCALE.

Calculation Summary					
Label	Avg	Max	Min	Avg/Min	Max/Min
OFF PROP	0.00	0.1	0.0	N/A	N/A
prop line	0.02	0.1	0.0	N/A	N/A
site	0.27	1.8	0.0	N/A	N/A

Luminaire Schedule (note fixture cataloge numbers are not complete)

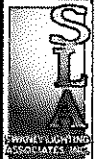
Type	Qty	Lum. Lumens	LF	Lum. Watts	Description
S4	2	2115	1,0	900	CL1S-16L-3K-4-BC



HUBBELL CLS1

218-220 WASHINGTON AVE  
 PORTLAND, ME  
 SITE LIGHTING LAYOUT

SEAGO TECH  
 SCALE NOT TO SCALE  
 PREP: JEFF MEYER



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