

# CIMARRON LED

Cat.#

Job

Type



SPAUULDING  
L I G H T I N G

Approvals

## 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>
- 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
- Auto optics designed for front row 1A and interior rows 2A (see distribution under ordering and page 2)
- CCT: 3000K (80 CRI), 4000K (70 CRI), 5000K (70 CRI), and turtle friendly Amber LED options

### 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 - 20KA; Turns fixture off at end of life; Includes LED for end of life indication (see surge suppressor page 4)

### Controls:

- Drivers are 0-10V dimming standard. Photocell, occupancy sensor and wireless controls available for complete on/off and dimming control

### 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

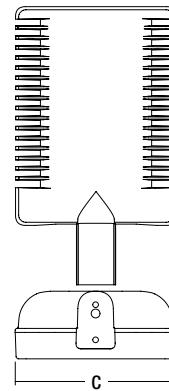
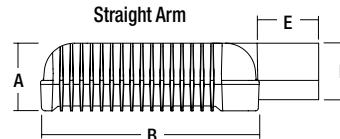
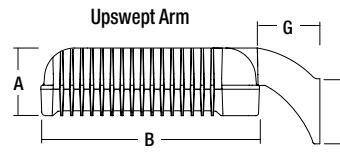


60 LED



90 LED

## DIMENSIONS



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

## CERTIFICATIONS/LISTINGS



\*3000K and warmer CCTs only

## ORDERING INFORMATION SEE NEXT PAGE



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## ORDERING INFORMATION

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

CL1	-	-	-	-	-	-	-	-	-
SERIES	NO. OF LEDS	VOLTAGE	CCT	DRIVE CURRENT	OPTIONS				
CL1 Cimarron 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 120V 2 208V 3 240V 4 277V 5 480V, 60 Hz F 347V, 60 Hz E <sup>4</sup> 220V, 50 Hz	3K 3000K 4K 4000K 5K 5000K AM <sup>4</sup> Amber (590 nm available for "Turtle Friendly" applications (consult factory))	Leave blank for 700mA (standard) 035 350mA Amber CCT only 105 1050 mA (Not for use with 30L)	BC <sup>3</sup> Backlight control CD 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				
MOUNTING					COLOR				
A Arm mount construction (6" straight rigid arm included & acceptable for 90° configurations)					DB Dark Bronze				
AD Decorative arm mount const. (6" decorative upswelt arm incl. & acceptable for 90° configurations)					BL Black				
MAF Mast arm fitter for mounting to standard 2 3/8" mast arm bracket, includes 6" straight rigid arm					WH White				
DISTRIBUTION					GR Gray				
	2 Type II				PS Platinum Silver				
	3 Type III				RD Red (premium color)				
	4 Type IV				FG Forest Green (premium color)				
	5M Type V Medium				CC Custom Color				
	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								
	1A Auto Front Row Type I								
	1AR Auto Front Row Type I Rotated 90° right								
	1AL Auto Front Row Type I Rotated 90° left								
	2A Auto Front Row Type II								
	2AR Auto Front Row Type II Rotated 90° right								
	2AL Auto Front Row Type II Rotated 90° left								
PIR MOTION/OCCUPANCY CONTROL OPTIONS									
SCO <sup>6,7</sup>	On/Off control (line voltage device not for use with 7PR receptacle option and external wireless control devices)								
SCL <sup>6,7</sup>	Add-on occupancy sensor for use with ext. wireless control device connected thru 7PR receptacle. Consult control manufacturer for compatibility.								
SCP <sup>5,6,7</sup>	Programmable dimming control (line voltage device not for use with 7PR receptacle option and external wireless control devices). A minimum of one SCP-REMOTE accessory remote control required for configuration; (Standard lens with greater sensitivity; motion detection radius equal to .75 X luminaire mounting height (approx. distance))								
SCPW <sup>5,6,7</sup>	Programmable dimming control (line voltage device not for use with 7RP receptacle option and external wireless control devices); A minimum of one SCP-REMOTE accessory remote control required for configuration. (Wide lens with motion detection radius equal to 1.3 X luminaire mounting height (approx. distance))								

Notes: 1 - Fuse option not available with universal voltage

2 - Select F3 fusing option for 220V

3 - Recommended for Type III and IV distributions only

4 - Available in 350mA drive current only Type IV, 5M

5 - 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, must order minimum of one SCP-REMOTE control to program dimming settings (see accessories)

6 - Not available with AD arm

7 - Not available with WIR or WIRSC

8 - Not available with SCO, SCL, SCP or SCPW

### CONTROLS GUIDE

As energy codes become more restrictive and we push for sustainable lighting designs, the integration of lighting controls and luminaires have become more and more important. Hubbell Lighting offers numerous outdoor lighting controls solutions for the most demanding applications. Visit the link below to learn more about energy-saving controls.

[www.hubbellighting.com/solutions/controls/](http://www.hubbellighting.com/solutions/controls/)

### AUTOMOTIVE DEALERSHIP OPTICS

For Automotive Dealership applications Spaulding Lighting has developed two optics designed for enhanced and proper lighting of the auto dealership merchandise and the front row 1A and interior rows 2A (See CL1 distribution information for details)

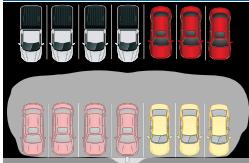
#### Optic 1A

- Maximum illumination on front row display
- Maximum pole spacing

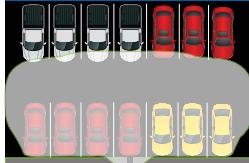
#### Optic 2A

- Excellent front row illumination and drive lane
- Optimal uniformity for drive lane and interior rows

#### 1A - Front Row Auto Optic



#### 2A - Drive Lane Auto Optic



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**ENERGY SAVING DATA**

#LEDS	DRIVE CURRENT	SYSTEM WATTS		DIST. TYPE	5K (5000K nominal, 70 CRI)				4K (4000K nominal, 70 CRI)				3K (3000K nominal, 70 CRI)				SYSTEM WATTS	#LEDS				
		120-277V	347-480V		LUMENS	LPW <sup>1</sup>	B	U	G	LUMENS	LPW <sup>1</sup>	B	U	G	LUMENS	LPW <sup>1</sup>	B	U	G			
30	700 mA	70W	80W	1A	8244	118	1	0	1	8162	117	1	0	1	6775	97	1	0	1	350 mA	135W	60
				2A	8202	117	1	0	1	8121	116	1	0	1	6740	96	1	0	1			
				2	7715	110	2	0	3	7639	109	2	0	2	6340	91	2	0	2			
				3	7712	110	2	0	2	7635	109	2	0	2	6371	91	1	0	2			
				4	7803	111	1	0	2	7726	110	1	0	2	6412	92	1	0	2			
				5S	8374	120	3	0	0	8291	118	3	0	0	6882	98	3	0	0			
				5M	7940	113	3	0	1	7862	112	3	0	1	6525	93	3	0	1			
60	700 mA	135W	150W	5W	7667	110	3	0	2	7591	108	3	0	2	6301	90	3	0	2	350 mA	135W	60
				1A	16171	120	1	0	2	16011	119	1	0	1	13289	98	1	0	1			
				2A	16088	119	1	0	2	15929	118	1	0	2	13221	98	1	0	2			
				2	15134	112	3	0	3	14984	111	3	0	3	12437	92	3	0	3			
				3	15127	112	3	0	3	14977	111	3	0	3	12498	93	2	0	3			
				4	15306	113	2	0	3	15154	112	2	0	3	12578	93	2	0	3			
				5S	16426	122	4	0	0	16263	120	4	0	0	13498	100	4	0	0			
60	1050 mA	220W	235W	5M	15575	115	4	0	2	15421	114	4	0	2	12799	95	3	0	2	350 mA	205W	90
				5W	15040	111	4	0	3	14891	110	4	0	3	12360	92	4	0	3			
				1A	21139	96	2	0	2	20929	95	2	0	2	17371	79	2	0	2			
				2A	21030	96	2	0	2	20822	95	2	0	2	17282	79	2	0	2			
				2	19783	90	4	0	5	19587	89	3	0	5	16257	74	3	0	5			
				3	19774	90	3	0	4	19578	89	3	0	4	16250	74	3	0	4			
				4	20007	91	3	0	5	19809	90	3	0	5	16442	75	3	0	5			
90	700 mA	205W	225W	5S	21471	98	5	0	0	21259	97	5	0	0	17645	80	5	0	0	350 mA	205W	90
				5M	20359	93	5	0	3	20158	92	5	0	3	16731	76	5	0	3			
				5W	19660	89	5	0	4	19465	88	5	0	4	16156	73	5	0	4			
				1A	23781	116	2	0	2	23546	115	2	0	2	19543	95	2	0	2			
				2A	23659	115	2	0	2	23425	114	2	0	2	19443	95	2	0	2			
				2	22255	109	3	0	4	22035	107	3	0	4	18289	89	3	0	4			
				3	22246	109	3	0	4	22026	107	3	0	4	18379	90	3	0	3			
90	1050 mA	325W	350W	4	22509	110	3	0	4	22286	109	3	0	4	18497	90	2	0	4	350 mA	205W	90
				5S	24156	118	5	0	0	23916	117	5	0	0	19851	97	4	0	0			
				5M	22905	112	4	0	2	22678	111	4	0	2	18823	92	4	0	2			
				5W	22117	108	5	0	3	21899	107	5	0	3	18176	89	5	0	3			
				1A	31708	98	2	0	2	31394	97	2	0	2	26057	80	2	0	2			
				2A	31545	97	2	0	2	31233	96	2	0	2	25923	80	2	0	2			
				2	29674	91	4	0	5	29380	90	3	0	5	24385	75	3	0	4			
90	1050 mA	325W	350W	3	29661	91	3	0	4	29367	90	3	0	4	24505	75	3	0	4	350 mA	205W	90
				4	30011	92	3	0	5	29714	91	3	0	5	24663	76	3	0	4			
				5S	32207	99	5	0	0	31888	98	5	0	0	26467	81	5	0	0			
				5M	30539	94	5	0	3	30237	93	5	0	3	25097	77	4	0	2			
				5W	29490	91	5	0	4	29198	90	5	0	4	24234	75	5	0	4			

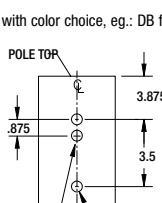
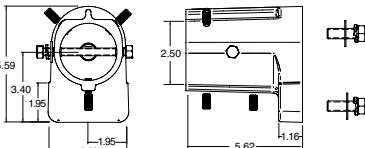
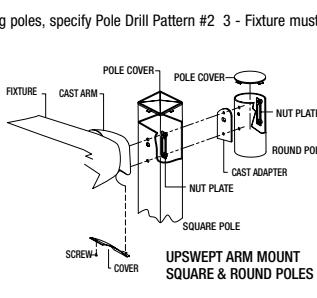
**ACCESSORIES/REPLACEMENT PARTS - Order Separately**

Catalog Number	Description
<b>CR-RPA3-XX<sup>1</sup></b>	Round pole adapter for straight arm (3 1/4 - 3 3/4")
<b>CR-RPA4-XX<sup>1</sup></b>	Round pole adapter for straight arm (3 3/8 - 4 1/2")

Catalog Number	Description
<b>SCP-REMOTE<sup>9</sup></b>	Remote control for SCP option. Order at least one per project to program and control.

<b>93052458</b>	20KA surge protection with an end of life LED indicator
-----------------	---------------------------------------------------------

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


**#2 DRILL PATTERN FOR POLES**

**MAF - HORIZONTAL MAST ARM FITTER**


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## 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

ARM-CL-K-TA-XX  
ARM-CL-TK-TA-XX



ARM-CL-K-S-XX



## TENON TOP POLE BRACKET ACCESSORIES

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

Catalog Number	Description
SETA2-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

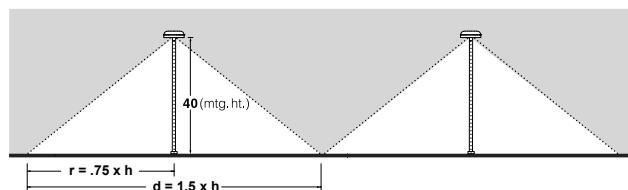
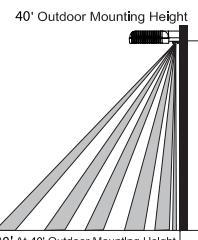
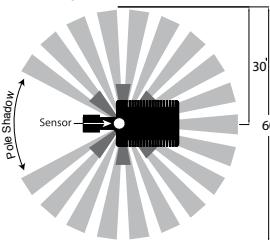
## PHOTOCONTROL EQUIPMENT

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)
PSC	Shorting cap - twist-lock

## MOTION CONTROLS

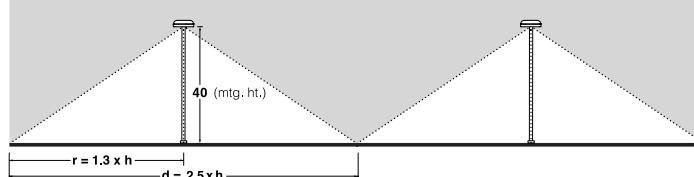
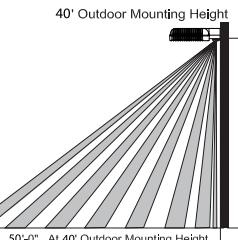
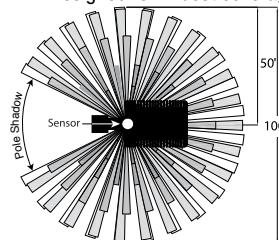
- Start up delay from initial motion detection to fixture illumination is approximately 1-2 seconds
- Vehicle detection is possible however less reliable than human detection; Vehicle detection is dependent upon the following: rate of speed, mounting height of luminaire and vehicle temperature

**SCP** - Designed for intermediate coverage area



Note: Extreme heat or cold temperatures may limit detection.

**SCPW** - Designed for widest coverage area



Note: Extreme heat or cold temperatures may limit detection.

## SURGE PROTECTION

- Field replaceable surge protection device (SPD) provides 20KA and 10KV protection meeting ANSI/IEEE C62.41.2 Category C High and Surge Location Category C3
- The SPD is designed with a clamping voltage of 1600V at 20KA using industry standard 8/20μs waveform
- Max surge current = 20,000 Amps (see table)
- LED Indicator – Green LED is unlit at end of life

Pulse Rating (8 x 20 μSec)		I <sub>n</sub>	cRUs	CE
Strikes	Surge			
1	20,000 A			
2	15,000 A			
15	10,000 A			
120	3,000 A			