

Exhibit 8

Lighting Fixtures Catalogue Cut Sheets

CIMARRON HIGH PERFORMANCE LED area/site lighting

Spaulding's most popular area site lighting fixture delivers energy efficiency, safety and security. Ready to meet today's outdoor site lighting needs – Cimarron LED features high brightness LEDs, providing superior optical performance while reducing energy consumption and lowering maintenance costs. Cimarron LED – a perfect balance of design, form, function and efficiency.

Cimarron CL1
ARCHITECTURAL LUMINAIRE



For more information on the Cimarron LED visit your smartphone to scan this code.



Control Ready

The Cimarron LED uses less than 50% of the energy of an equivalent HID at full brightness. Additional energy-saving options include:

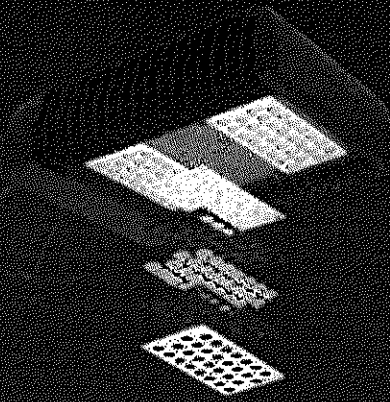
Bi-Level Control - 2 circuits allow for half of the LEDs to be turned off during off-peak hours.

Continuous Dimming - Lower energy consumption and light output from 100% to 10% with a 0-10V input.

Sensor control option for 20%, 50% or 70% light output and energy savings for off-peak activity hours.

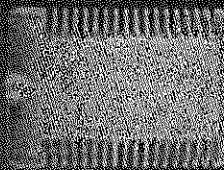
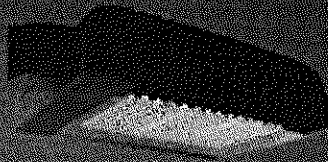
High brightness LED technology

Design flexibility is optimized with 72 high brightness LED light engine configurations in IES Type II, III, IV and V distributions. Ideal for mounting heights from 12 ft to 40 ft.



Maintenance Free - Vandal Resistant

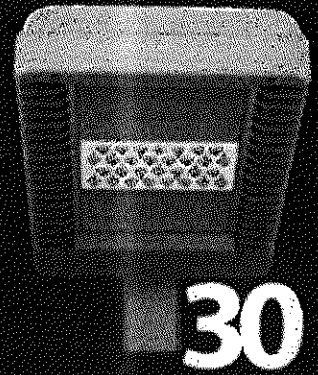
The Cimarron LED will perform virtually maintenance-free. In addition to the unique housing designed to reduce unwanted collection of debris, the fixture is designed to IP65 and providing long life - there is no need to touch it for many years. Additionally, Hubbell Lighting's durable Lektrocoat® TGIC thermoset polyester powder paint finish assures long life and maintenance-free service. Optional vandal resistant guard provides additional protection when necessary.



Unique Design

Keeping the same sleek profile and aesthetic lines as the HID generation, the Cimarron LED incorporates a unique vertically-finned die-cast housing that optimizes heat transfer to keep the fixture cool and minimize component life.

Choose from traditional straight, architectural up-cast die-cast aluminum arm designs or optional mast filler. The arm is shipped installed to the fixture for ease of installation. Future installation and supply side connections are made through the wiring access door located in the center, so there is no need to open the fixture during installation.



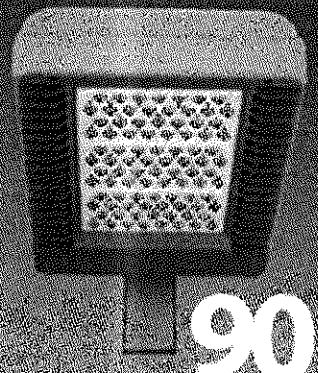
30

- 12-18 ft mounting heights
- Single light engine
- 7,000 lumens
- 101 LPW efficiency



60

- 18-25 ft mounting heights
- Two light engines
- 13,000 lumens
- 95 LPW efficiency



90

- Up to 40 ft mounting heights
- Three light engines
- 27,000 lumens
- 89 LPW efficiency

ORDERING INFORMATION

ORDERING EXAMPLE



SERIES

CL1S Cimarron LED Pedestrian Scale

MOUNTING

A 4" Straight arm attached to housing complete with quick-mount plate

NUMBER OF LEDs

16L 16 High brightness LEDs
 32L 32 High brightness LEDs
 48L 48 High brightness LEDs

VOLTAGE

U² Universal 120V-277V, 50/60 Hz
 1¹ 120V
 2¹ 208V
 3¹ 240V
 4¹ 277V
 5 480V, 60 Hz
 F 347V, 60 Hz
 E³ 220V, 50 Hz

CCT

3K 3000K, 80 CRI
 4K 4000K, 70 CRI
 5K 5100K, 67 CRI

AM Amber available for "Turtle friendly" applications (pending, consult factory)

DISTRIBUTION

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

(see page 9 for assistance in selecting rotated optics)

DRIVE CURRENT

Leave blank for 700mA (standard)
 035 350mA (32L, 48L)
 053 525mA (32L), 520mA (48L)

COLOR

DB Dark Bronze
 BL Black
 WH White
 GR Gray
 PS Platinum Silver
 RD Red (premium color)
 FG Forest Green (premium color)
 CC Custom Color (premium color)

OPTIONS

BC⁴ Backlight control
 CD^{2,3} Continuous dimming
 F(X)^{2,3} Fusing (replace X with voltage:
 1-120V, 2-208V, 3-240V,
 4-277V, 5-480V, 6-347V)
 RPA3 3" Round pole adapter
 RPA4 4" Round pole adapter
 TB Terminal block
 WB Wall bracket
 WHB⁶ White LED bezel

CONTROL OPTIONS

SCD Motion control, no light output/ On-Off control
 SCP Programmable motion control, factory default is 50%
 PR(X) NEMA Photo cell receptacle (replace X with voltage: U=120-277, 5=480, 6=347)

¹ Select only when using voltage specific options F, WH

² Fuse option not available with U voltage

³ Select F3 fusing option for 220V

⁴ Not recommended for Type 5S, 5M or 5W

⁵ Order to match larger Cimarron CL1 with white bezels

⁶ Dimming leads accessible for connection to third party dimming systems

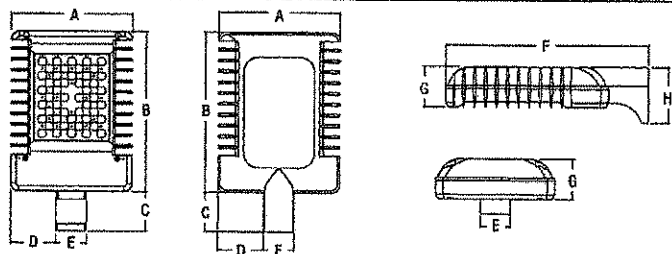
SURGE PROTECTION

To protect your investment, the Cimarron LED area lighter is protected from electrical surges up to 20KA

LISTINGS AND RATINGS

- Listed to UL1598 for use in wet locations
- DesignLights Consortium qualified
- IP65
- -40°C to 40°C Ambient temperature rating

FIXTURE DIMENSIONS



A	B	C	D	E	F	G	H	EPA	Weight
12"	16.312"	4"	4.5"	3"	20.312"	4.13"	5.625"	.45 ft ²	19 lbs.
305mm	414mm	102mm	114mm	76mm	515mm	105mm	143mm	.14 m ²	8.62 kg



CIMARRON LED

Cat.#

Job

Type



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 ft²
- 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

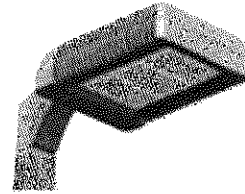
Warranty:

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

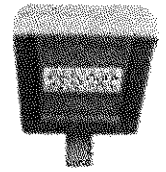
Listings:

- 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

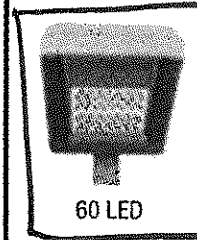
PRODUCT IMAGE(S)



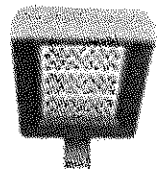
90 LED 3/4 VIEW



30 LED

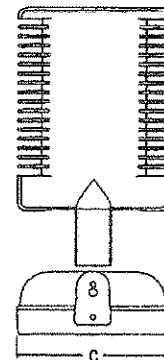
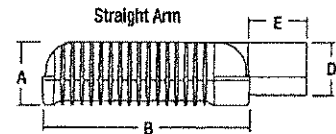
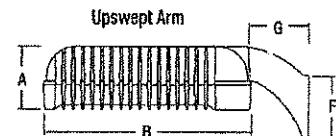


60 LED



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

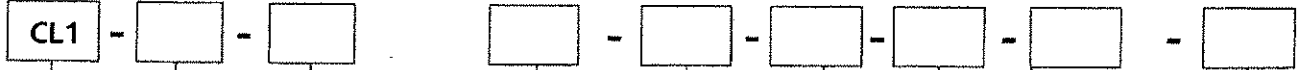


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 Due to our continued efforts to improve our products, product specifications are subject to change without notice.
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HUBBELL
Lighting

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



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 ¹ Universal 120V-277V, 50/60 Hz 1 120V 2 208V 3 240V 4 277V 5 480V, 60 Hz F 347V, 60 Hz E ⁴ 220V, 50 Hz	3K 3000K 4K 4000K 5K 5000K AM ⁴ 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 ³ 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 F(X) ² Fusing (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V, 5-480V, F-347V) VG Vandal guard 7PR Photocell receptacle (7-pin ANSI C136.41—2013 receptacle for use with standard Twist-Lock® photo controls, shunting caps, and ANSI C136.41 external wireless control devices. Select SCL option to add occupancy sensing capability when using with compatible external wireless devices.

MOUNTING

- 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

DISTRIBUTION

- 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
- 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

COLOR

- 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 - 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

PIR MOTION/OCCUPANCY CONTROL OPTIONS

- SCO^{6,7} On/Off control (line voltage device not for use with 7PR receptacle option and external wireless control devices)
- SCL^{6,7} Add-on occupancy sensor for use with ext. wireless control device connected thru 7PR receptacle. Consult control manufacturer for compatibility.
- SCP^{5,6,7} 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^{5,6,7} 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. (Wide lens with motion detection radius equal to 1.3 X luminaire mounting height (approx. distance))

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/

WIRELESS CONTROL OPTIONS

- WIR⁸ WiSCAPE Fixture Module, in-fixture relay for wireless lighting control
- WIRSC⁸ WiSCAPE Fixture Module, in-fixture relay for wireless lighting control and motion/occupancy control



ENERGY SAVING DATA

#LEDS	DRIVE CURRENT	SYSTEM WATTS		DIST. TYPE	5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					Amber (590)				
					LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G	LUMENS	LPW ¹	B	U	G
30	700 mA	70W	80W	1A	8244	118	1	0	1	8162	117	1	0	1	—	—	—	—	—
				2A	8202	117	1	0	1	8121	116	1	0	1	—	—	—	—	—
				2	7715	110	2	0	3	7639	109	2	0	2	—	—	—	—	—
				3	7712	110	2	0	2	7635	109	2	0	2	—	—	—	—	—
				4	7803	111	1	0	2	7726	110	1	0	2	—	—	—	—	—
				5S	8374	120	3	0	0	8291	118	3	0	0	—	—	—	—	—
				5M	7940	113	3	0	1	7862	112	3	0	1	—	—	—	—	—
				5W	7667	110	3	0	2	7591	108	3	0	2	—	—	—	—	—
				1A	16171	120	1	0	2	16011	119	1	0	1	—	—	—	—	—
				2A	16038	119	1	0	2	15929	118	1	0	2	—	—	—	—	—
60	700 mA	135W	150W	2	15134	112	3	0	3	14984	111	3	0	3	—	—	—	—	
				3	15127	112	3	0	3	14977	111	3	0	3	—	—	—	—	
				4	15306	113	2	0	3	15154	112	2	0	3	2488	51	0	0	1
				5S	16426	122	4	0	0	16263	120	4	0	0	—	—	—	—	—
				5M	15575	115	4	0	2	15421	114	4	0	2	2533	51	2	0	1
				5W	15040	111	4	0	3	14891	110	4	0	3	—	—	—	—	—
				1A	23781	116	2	0	2	23546	115	2	0	2	—	—	—	—	—
				2A	23659	115	2	0	2	23425	114	2	0	2	—	—	—	—	—
				2	22255	109	3	0	4	22035	107	3	0	4	—	—	—	—	—
				3	22246	109	3	0	4	22026	107	3	0	4	—	—	—	—	—
90	700 mA	205W	225W	4	22509	110	3	0	4	22286	109	3	0	4	3558	76	1	0	1
				5S	24156	118	5	0	0	23916	117	5	0	0	—	—	—	—	—
				5M	22905	112	4	0	2	22678	111	4	0	2	3586	76	2	0	1
				5W	22117	108	5	0	3	21899	107	5	0	3	—	—	—	—	—
				1A	31708	98	2	0	2	31394	97	2	0	2	—	—	—	—	—
				2A	31545	97	2	0	2	31233	96	2	0	2	—	—	—	—	—
				2	29674	91	4	0	5	29380	90	3	0	5	—	—	—	—	—
				3	29661	91	3	0	4	29357	90	3	0	4	—	—	—	—	—
				4	30011	92	3	0	5	29714	91	3	0	5	—	—	—	—	—
				5S	32207	99	5	0	0	31888	98	5	0	0	—	—	—	—	—
90	1050mA	325W	350W	5M	30539	94	5	0	3	30237	93	5	0	3	—	—	—	—	
				5W	28490	91	5	0	4	29198	90	5	0	4	—	—	—	—	

ENERGY DATA	
Power Factor	>.9
Total Harmonic Distortion	<10%

AUTOMOTIVE DEALERSHIP OPTICS

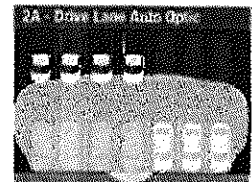
For Automotive Dealership applications Spaulding Lighting has developed two optics designed for enhanced and proper lighting of the auto dealership merchandise and the front row 1A and interior rows 2A (See CL1 distribution information for details)

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

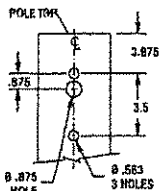


ACCESSORIES/REPLACEMENT PARTS - Order Separately

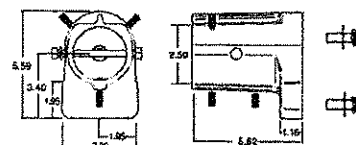
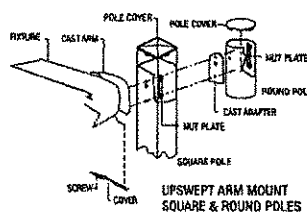
Catalog Number	Description
CR-RPA3-XX ¹	Round pole adapter for straight arm (3/4" - 3/4")
CR-RPA4-XX ¹	Round pole adapter for straight arm (3/4" - 4 1/2")
CR-RPA5-XX ¹	Round pole adapter for straight arm (5")
CR-RPA6-XX ¹	Round pole adapter for straight arm (6")
CRD-RPA2-XX ¹	Round pole adapter for upswept arm (2 3/4" - 3 1/4")
CRD-RPA3-XX ¹	Round pole adapter for upswept arm (3/4" - 3 3/4")
CRD-RPA4-XX ¹	Round pole adapter for upswept arm (3/4" - 4 1/2")
CRD-RPA5-XX ¹	Round pole adapter for upswept arm (5")
CRD-RPA6-XX ¹	Round pole adapter for upswept arm (6")
WB-AREA-XX ¹	Wall bracket
TPLB-XX ¹	Twin parallel luminaire bracket
MAF-CL-XX ¹	Horizontal mast arm fitter for 2 3/8" OD arm. Mounts to standard 6" arm (ordered with fixture)

Catalog Number	Description
SCP-REMOTE ¹	Remote control for SCP option. Order at least one per project to program and control.
93052458	20KA surge protection with an end of life LED indicator

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



#2 DRILL PATTERN FOR POLES



MAF - HORIZONTAL MAST ARM FITTER



Spaulding Lighting • 701 Millennium Boulevard • Greenville, SC 29607 • Phone: 864-678-1000

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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MOUNTING ACCESSORIES

Catalog Number	Description
ARM-CL-K-TA-XX ¹	Adjustable mounting arm for single fixture (2-3/8 tenon) – 5 lbs. 2.3 kgs.
ARM-CL-TK-TA-XX ¹	Adjustable mounting arm for two fixtures at 180° (2-3/8 tenon) – 7 lbs. 3.2 kgs.
ARM-CL-K-S-XX ¹	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
SETA-XX ¹	Square pole tenon adapter (4 at 90 degrees)
RETA-XX ¹	Round pole tenon adapter (4 at 90 degrees)
TETA-XX ¹	Hexagonal pole tenon adapter (3 at 120 degrees)

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

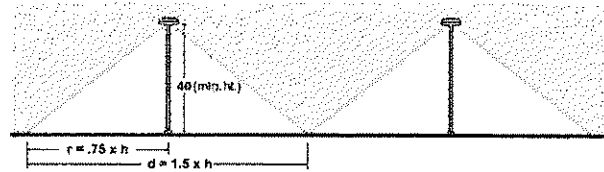
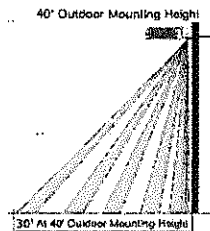
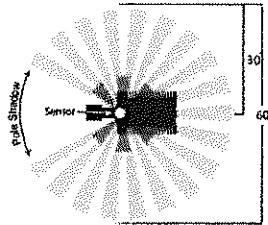
PHOTOCONTROL EQUIPMENT

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

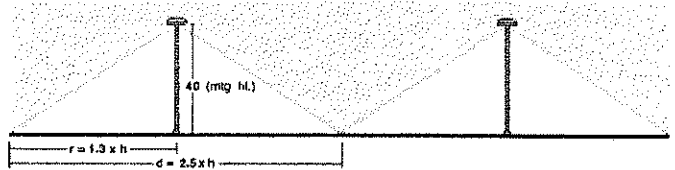
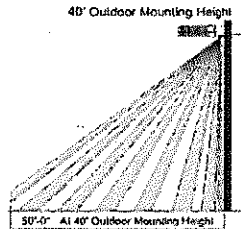
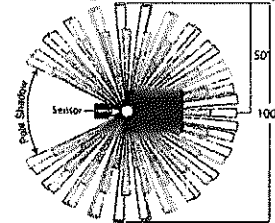
- Start up delay from initial motion detection to fixture illumination is approximately 1-2 seconds
- Vehicle detection is possible however less reliable than human detection; Vehicle detection is dependent upon the following: rate of speed, mounting height of luminaire and vehicle temperature

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)	cRUµs		CE	
	I _b	10KA	5KA	
Strikes	Surge			
1	20,000 A			
2	15,000 A			
15	10,000 A			
120	3,000 A			



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Due to our continued efforts to improve our products, product specifications are subject to change without notice.

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HUBBELL
Lighting

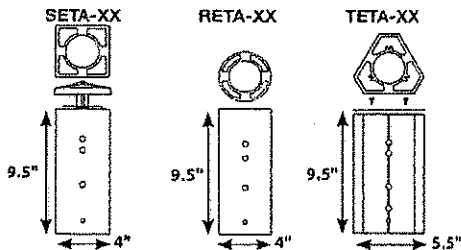
ACCESSORIES (order separately)

CIMARRON ACCESSORIES

Catalog #	Description
CL1S-RPA3-ACC-XX ¹	Round pole adapter for (3¼ - 3¾")
CL1S-RPA4-ACC-XX ¹	Round pole adapter for (3¾ - 4½")
WB-CR-XX	Wall bracket

TENON TOP POLE BRACKET ACCESSORIES (ORDER SEPARATELY)

Catalog #	Description	#/A	WEIGHT
SETA-XX ¹	4" Square pole top tenon adapter 2 3/8" OD slipfitter for max. four fixtures (90°)	0.4 ft ²	20lbs. 9 kgs.
RETA-XX ¹	4" Round pole top tenon adapter. 2 3/8" OD slipfitter for max. four fixtures (90°)	0.2 ft ²	20lbs. 9 kgs.
TETA-XX ¹	Three sided pole top tenon adapter 2 3/8" OD slipfitter for max. three fixtures (120°)	0.2 ft ²	20lbs. 9 kgs.



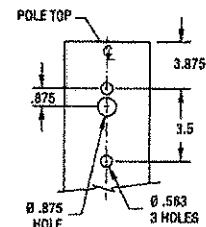
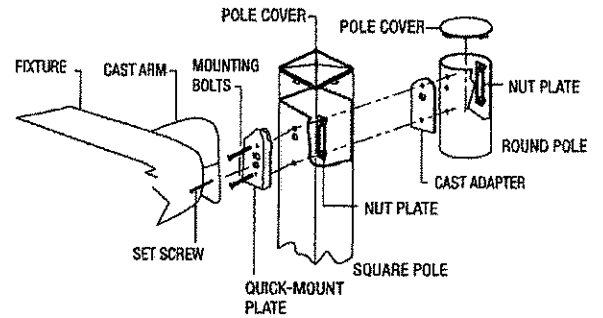
ADDITIONAL ACCESSORIES (order separately)

Catalog #	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

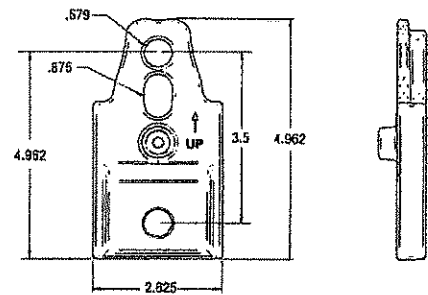
¹ Replace XX with color choice, eg.: DB for Dark Bronze

FIXTURE MOUNTING

Square & Round



#2 DRILL PATTERN FOR POLES



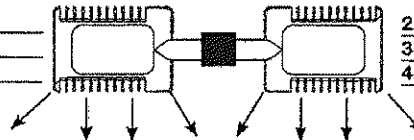
QUICK-MOUNT PLATE

FIXTURE MOUNTING

Factory Rotated Optics

For proper light distribution and performance, rotated optics must be mounted as referenced in illustration. Consult instruction sheet included when mounting.

- 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

LEKTROCOTE® FINISH PROCESS

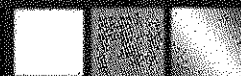
Lektrocote® is a proprietary process where the thermosetting, acid-functional polyester powder resin is electrostatically applied (only after a thorough cleaning process). Luminaires receive a five-step wash with both acid and alkaline-based liquid cleaners followed by the deposit of a thin layer of proprietary compound to promote maximum corrosion resistance and paint adhesion. Finally, the decorative finish coat is applied.

Lektrocote™ meets or exceeds the following standards:

- ASTM B-117 1000 hour salt spray test
- ASTM B-2247 1000 hour humidity test
- ASTM D-2794 Impact test resistant to 160 inch pounds
- ASTM D-522 Flexibility test
- AAMA 603 Bistex/adhesion test

COLOR SELECTIONS

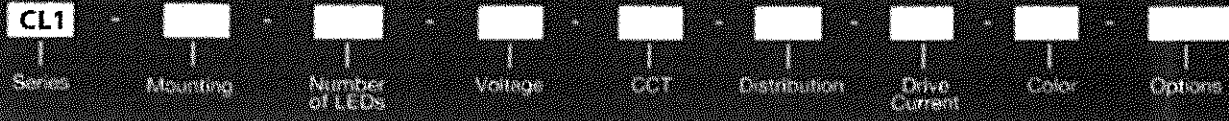
- 5 standard (Bronze, Black, White, Gray, Platinum Silver)
- 2 premium (Red, Forest Green) and Custom Colors (consult factory) are available



- Note:
- Actual colors may vary due to printing process
 - All colors are textured except Platinum Silver and Red

ORDERING INFORMATION

ORDERING EXAMPLE



SERIES

CL1	Cimarron LED
-----	--------------

MOUNTING

A	Arm mount construction (6" straight rigid arm ships attached & acceptable for 90° configurations)
AD	Decorative arm mount construction (6" decorative upswept arm acceptable for 90° configurations)
MAF	Mast arm fitter for mounting to standard 2 3/8" mast arm bracket, includes 6" straight arm (Can also be ordered as an accessory)

NUMBER OF LEDs

90L	90 High brightness LEDs
60L	60 High brightness LEDs
30L	30 High brightness LEDs

VOLTAGE

U ³	Universal 120V-277V, 50/60 Hz
5 ¹	480V, 60 Hz
F ¹	347V, 60 Hz
E ⁴	220V, 50 Hz

CCT

3K	3000K, 80 CRI
4K	4000K, 70 CRI
5K	5000K, 67 CRI
AM	Amber available for "Turtle friendly" applications (consult factory)

DISTRIBUTION

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

DRIVE CURRENT

	Leave blank for 700mA (standard)
105	1050 mA (use with 90L – higher lumen output)
035	350mA Amber CCT only

COLOR

DB	Dark Bronze
BL	Black
WH	White
GR	Gray
PS	Platinum Silver
RD	Red (premium color)
FG	Forest Green (premium color)
CC	Custom Color (premium color)

OPTIONS

BC ⁵	Backlight control
BL ^{1,2,4}	Bi-level control
CD ²	Continuous dimming

OPTIONS

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) ^{3,4}	Fusing (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V, 5-480V, 6-347V)
VG	Vandal guard
SSB	Stainless Steel LED Bezel

CONTROL OPTIONS

SC0	Motion control, no light output/ On-Off control
SC30	Motion control, dimmed to 30% light output
SC50	Motion control, dimmed to 50% light output
SC70	Motion control, dimmed to 70% light output
PRU ⁵	NEMA photocell receptacle - 120-277V
PR5 ⁵	NEMA photocell receptacle - 480V
PR6 ⁵	NEMA photocell receptacle - 347V

¹ BL option for 90L and 60L and 120-277V only

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

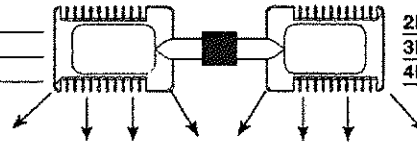
⁶ Recommended for Type II, III and IV only

FIXTURE MOUNTING

Factory Required Optics

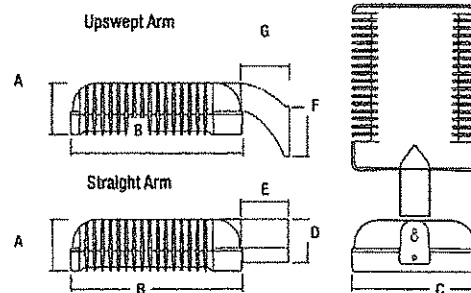
For proper light distribution and performance, rotated optics must be mounted as referenced in illustration. Consult instruction sheet included when mounting.

- 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

FIXTURE DIMENSIONS



A	B	C	D	E	F	G	EPA	Weight
6 3/4"	21 3/4"	16"	6 5/8"	6 5/16"	5 5/8"	6 1/8"	1.3 ft ²	45 lbs.
171mm	552mm	406mm	168mm	160mm	143mm	155mm	.12m ²	20.4 kg

SURGE PROTECTION

To protect your investment, the Cimarron LED area lighter is protected from electrical surges up to 20KA

LISTINGS AND RATINGS

- Listed to UL1598 for use in wet locations
- IP65
- -40°C to 40°C Ambient temperature rating
- DesignLights Consortium qualified



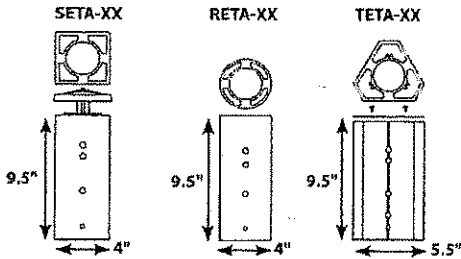
ACCESSORIES (order separately)

CIMARRON ACCESSORIES

Catalog #	Description
CR-RPA3-XX ¹	Round pole adapter for straight arm (3 1/4 - 3 3/4")
CR-RPA4-XX ¹	Round pole adapter for straight arm (3 1/8 - 4 1/2")
CR-RPA5-XX ¹	Round pole adapter for straight arm (5")
CR-RPA6-XX ¹	Round pole adapter for straight arm (6")
CRD-RPA2-XX ¹	Round pole adapter for upswept arm (2 3/4 - 3 1/8")
CRD-RPA3-XX ¹	Round pole adapter for upswept arm (3 1/4 - 3 3/4")
CRD-RPA4-XX ¹	Round pole adapter for upswept arm (3 1/8 - 4 1/2")
CRD-RPA5-XX ¹	Round pole adapter for upswept arm (5")
CRD-RPA6-XX ¹	Round pole adapter for upswept arm (6")
WB-CR-XX ¹	Wall bracket
TPLB-XX ¹	Twin parallel luminaire bracket
MAF-CL-XX ²	Horizontal mast arm fitter for 2 3/8" OD arm. Mounts to standard 6" arm (ordered with fixture)

TENON TOP POLE BRACKET ACCESSORIES

Catalog #	Description	EPA WEIGHT
SETA-XX ¹	4" Square pole top tenon adapter 2 3/8" OD slipfitter for max. four fixtures (90°)	0.4 ft ² 20lbs 0.04 m ² 9 kgs.
RETA-XX ¹	4" Round pole top tenon adapter. 2 3/8" OD	0.2 ft ² 20lbs. 0.02 m ² 9 kgs.
TETA-XX ¹	Three sided pole top tenon adapter 2 3/8" OD slipfitter for max. three fixtures (120°)	0.2 ft ² 20lbs. 0.02 m ² 9 kgs.



MOUNTING ACCESSORIES (order separately)

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

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

LEKTROCOTE® FINISH PROCESS

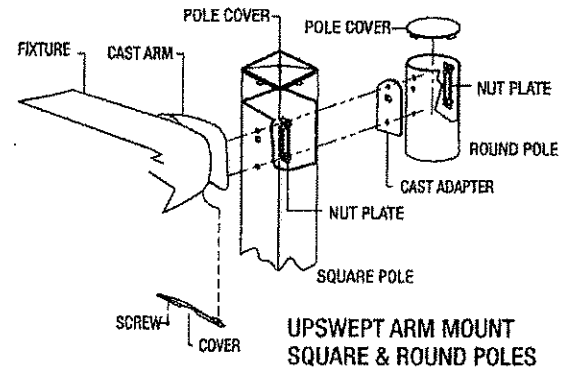
Lektrocote™ is a proprietary process where the thermosetting acid functional polyester powder resin is electrostatically applied only after a thorough cleaning process. Luminaires receive a five-step wash with both acid and alkali-based liquid cleaners followed by the deposit of a thin layer of proprietary compound to provide maximum corrosion-resistance and paint adhesion. Finally, the decorative finish coat is applied.

Lektrocote™ meets or exceeds the following standards:

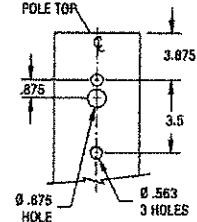
- ASTM B-117 1000 hour salt spray test
- ASTM B-2247 1000 hour humidity test
- ASTM D-2794 Impact test resistant to 100 inch pounds
- ASTM D-522 Flexibility test
- AAMA 603 Adhesion test

FIXTURE MOUNTING

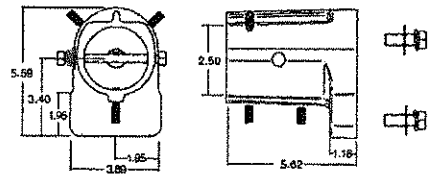
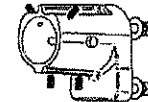
Square & Round



UPSWEPT ARM MOUNT SQUARE & ROUND POLES



#2 DRILL PATTERN FOR POLES



MAF - HORIZONTAL MAST ARM FITTER

ADDITIONAL ACCESSORIES


Catalog #	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

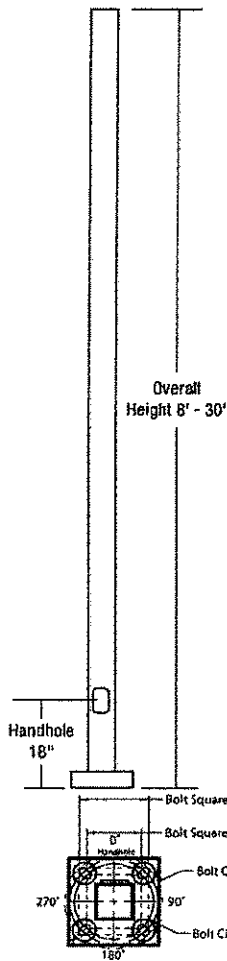
COLOR SELECTIONS

- 5 standard (Bronze, Black, White, Gray, Platinum Silver)
- 2 premium (Red, Forest Green) and Custom Colors (most factory) are available



- Note:
- Actual colors may vary due to printing process
 - All colors are available except Platinum Silver and Red

SSA-S SERIES POLES SQUARE STRAIGHT ALUMINUM	Cat.#		
	Job	Type	
			Approvals



APPLICATIONS

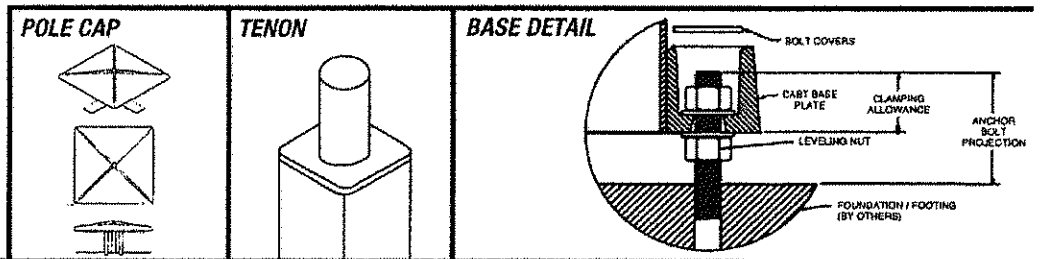
- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location

CONSTRUCTION

- SHAFT:** One-piece straight aluminum with square cross section, flat sides and minimum radius on all corners; Extruded shafts of 6061-T6 aluminum in 1/8", 3/16", or 1/4" thickness. Base plate of 356 cast aluminum.
- BASE COVER:** Four (4) individual bolt covers provided, painted to match pole and base finish.
- POLE CAP:** Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- HAND HOLE:** Rectangular 3x5 aluminum hand hole frame (2.38" x 4.38" opening); Mounting provisions for grounding lug located behind gasketed cover
- ANCHOR BOLTS:** Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling

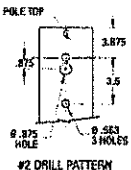
FINISH

- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint finish coat available in seven standard colors; Custom colors available; RAL number preferable; Internal protective coating available

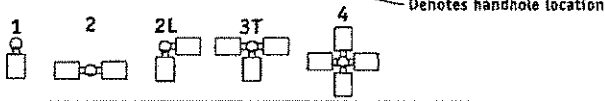


ORDERING EXAMPLE:

SSA-S - 25 - 40 - A/B/C - 2L - S2 - DB - VM2

SERIES	HEIGHT	SHAFT	THICKNESS	MOUNTING	DRILL PATTERN	FINISH	OPTIONS
SSA-S Square Straight Aluminum Pole Spaulding	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix	Reference page 2 Ordering matrix	1 Single arm mount 2 Two fixtures at 180° 2L Two fixtures at 90° 3T Three fixtures at 90° 4 Four fixtures at 90° TA Tenon (2.375" OD) TB Tenon (2.875" OD) OT Open Top (includes pole cap)	S2 Spaulding #2 2 bolt 3.5" pattern 	DB Dark Bronze BL Black WH White GR Gray PS Platinum Silver RD Red (premium color) FG Forest Green (premium color) CC Custom Color	GF1 20 Amp GFCI Receptacle and Cover EHH Extra Handhole C05 .5" Coupling C07 .75" Coupling C20 2" Coupling VM1 1st Mode vibration damper VM2 2nd mode vibration damper LAB Less Anchor Bolts

MOUNTING ORIENTATION



ACCESSORIES- Order Separately

Catalog Number	Description
VM1 ¹	1st mode vibration damper
VM2SXX	2nd mode vibration damper

1 Specify option location using logic found on page 2 (Option Orientation)
 2 VM1 recommended on poles 20' and taller with EPA of less than 1.

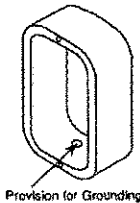


ORDERING INFORMATION Cont.

Catalog Number	Height		Nominal Shaft Dimensions	Wall Thickness	Bolt Circle (Suggested)	Bolt Circle (range)	Bolt Square (range)	Base Plate Square	Anchor bolt size	Bolt Projection	Pole weight (lbs)
	Feet	Meters									
SSA-S-08-40-A	8	2.4	4" Square	.125"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	32
SSA-S-10-40-A	10	3.0	4" Square	.125"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	37
SSA-S-12-40-A	12	3.7	4" Square	.125"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	42
SSA-S-14-40-A	14	4.3	4" Square	.125"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	47
SSA-S-16-40-A	16	4.9	4" Square	.125"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	52
SSA-S-18-40-A	18	5.5	4" Square	.125"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	57
SSA-S-20-40-A	20	6.1	4" Square	.125"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	62
SSA-S-16-40-B	16	4.9	4" Square	.188"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	74
SSA-S-18-40-B	18	5.5	4" Square	.188"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	80
SSA-S-20-40-B	20	6.1	4" Square	.188"	8.5"	8.5" - 9.5"	6.01" - 6.72"	9.88 x 2"	3/4 x 30 x 3"	3"	85
SSA-S-18-50-B	18	5.5	5" Square	.188"	10.5"	10.5" - 11.5"	7.42" - 8.13"	10.44 x 2.5"	3/4 x 30 x 3"	3"	91
SSA-S-20-50-B	20	6.1	5" Square	.188"	10.5"	10.5" - 11.5"	7.42" - 8.13"	10.44 x 2.5"	3/4 x 30 x 3"	3"	107
SSA-S-25-50-B	25	7.6	5" Square	.188"	10.5"	10.5" - 11.5"	7.42" - 8.13"	10.44 x 2.5"	3/4 x 30 x 3"	3"	130
SSA-S-16-60-B	16	2.4	6" Square	.188"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.5	105
SSA-S-18-60-B	18	3.0	6" Square	.188"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.5	130
SSA-S-20-60-B	20	3.7	6" Square	.188"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.5	155
SSA-S-25-60-B	25	4.3	6" Square	.188"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.5	180
SSA-S-30-60-B	30	4.9	6" Square	.188"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.5	210
SSA-S-16-60-C	16	4.9	6" Square	.250"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.5	121
SSA-S-18-60-C	18	5.5	6" Square	.250"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.5	144
SSA-S-20-60-C	20	6.1	6" Square	.250"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.5	166
SSA-S-25-60-C	25	7.6	6" Square	.250"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.5	224
SSA-S-30-60-C	30	9.1	6" Square	.250"	12"	12" - 13"	8.49" - 9.19"	11.96 x 2.75"	1 x 36 x 4"	3.5	258

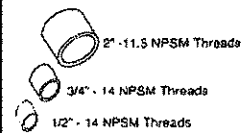
NOTE: Factory supplied template must be used when setting anchor bolts. Hubbell Lighting will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

EHH - EXTRA HANDHOLE



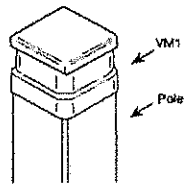
Provision for Grounding

C05 - C07 - C20 - COUPLING



2" - 11.5 NPSM Threads
3/4" - 14 NPSM Threads
1/2" - 14 NPSM Threads

VM1 - VIBRATION DAMPER 1ST MODE



Field installed Pole Top damper designed to reduce pole top deflection or sway. VM1 is required for pole systems 20' and taller with a total EPA of 1.0 or less.

VM2 - VIBRATION DAMPER 2ND MODE



Factory installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

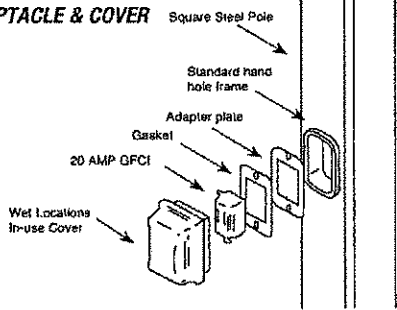
VM2SXX - VIBRATION DAMPER 2ND MODE



VM2S08 - 8'
VM2S12 - 12'
VM2S16 - 16'
VM2S20 - 20'
VM2S24 - 24'

Field installed, internal damper designed to alter pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

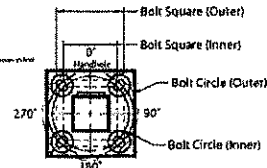
GFI - 20 AMP GFCI RECEPTACLE & COVER



Wet Locations In-use Cover

OPTION ORIENTATION

Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet). Example: Option C07 should be ordered as: SSA-S-20-40-A-TA-DB-C07-0-15 (5' coupling on the handhole/arm side of pole, 15 feet up from the pole base) 1' spacing required between option. Consult factory for other configurations.



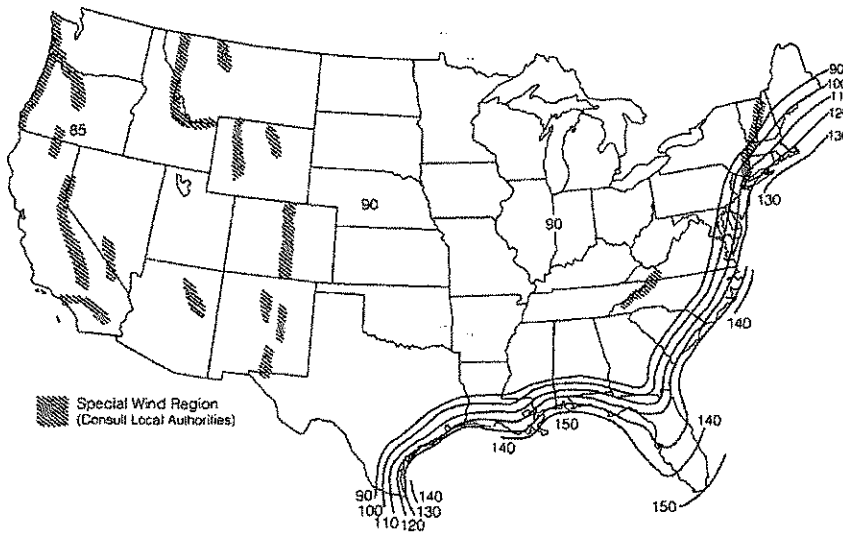
For more information about pole vibration and vibration dampers, please consult http://www.spauldinglighting.com/ce/usa/products/literature/technical_files/Pole_Vib_Induced_Flyer_HL00022.pdf
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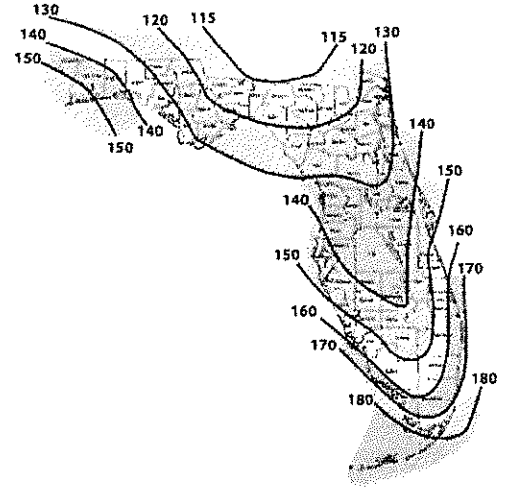


ASCE7-05 WIND MAP



HAWAII – 105 mph
 PUERTO RICO – 145 mph

FLORIDA REGION WIND MAP



• Florida region wind map above is based upon 3-second gust winds and the 2014 Florida Building Code

ASCE 7-05 wind map EPA Load Rating - 3 second gust wind speeds										
Catalog Number	85	90	100	105	110	120	130	140	145	150
SSA-S-08-40-A	17.3	15.2	12.0	10.7	9.6	7.7	6.2	5.0	4.5	4.0
SSA-S-10-40-A	12.6	11.0	8.4	7.4	6.5	4.9	3.7	2.8	2.4	2.0
SSA-S-12-40-A	9.3	7.9	5.8	4.9	4.2	2.9	1.9	1.1	0.8	0.5
SSA-S-14-40-A	6.7	5.6	3.8	3.0	2.4	1.3	NR	NR	NR	NR
SSA-S-16-40-A	4.7	3.7	2.1	1.4	0.9	NR	NR	NR	NR	NR
SSA-S-18-40-A	2.9	2.1	0.8	NR	NR	NR	NR	NR	NR	NR
SSA-S-20-40-A	1.4	0.6	NR	NR	NR	NR	NR	NR	NR	NR
SSA-S-16-40-B	9.2	7.7	5.4	4.5	3.7	2.3	1.2	NR	NR	NR
SSA-S-18-40-B	6.8	5.6	3.8	2.7	2.0	0.8	NR	NR	NR	NR
SSA-S-20-40-B	4.8	3.7	1.9	1.2	0.6	NR	NR	NR	NR	NR
SSA-S-18-50-B	12.9	10.9	7.6	6.3	5.1	3.2	1.7	0.5	NR	NR
SSA-S-20-50-B	9.8	8.1	5.2	4.0	3.0	1.3	NR	NR	NR	NR
SSA-S-25-50-B	4.0	2.7	0.5	NR	NR	NR	NR	NR	NR	NR
SSA-S-16-60-B	25.0	22.3	16.9	14.7	12.7	9.8	7.0	5.0	4.2	3.4
SSA-S-18-60-B	20.7	17.7	13.0	11.0	9.3	6.5	4.3	2.6	1.8	1.1
SSA-S-20-60-B	16.4	13.8	9.8	7.9	6.4	3.9	2.0	NR	NR	NR
SSA-S-25-60-B	8.3	6.3	3.1	1.8	0.7	NR	NR	NR	NR	NR
SSA-S-30-60-B	2.5	0.8	NR	NR	NR	NR	NR	NR	NR	NR
SSA-S-16-60-C	25.0	25.0	24.5	21.5	19.0	14.9	11.6	9.0	7.9	6.8
SSA-S-18-60-C	25.0	25.0	19.5	17.1	14.9	11.2	8.3	6.0	5.1	4.2
SSA-S-20-60-C	24.2	20.9	15.4	13.2	11.2	8.0	5.5	3.5	2.6	1.8
SSA-S-25-60-C	14.2	11.6	7.5	5.8	4.3	1.9	NR	NR	NR	NR
SSA-S-30-60-C	7.1	5.0	1.7	NR	NR	NR	NR	NR	NR	NR

Florida Building Code 2014 EPA Load Rating - 3 second gust wind speeds										
Catalog Number	115	120	130	140	150	160	170	180		
SSA-S-08-40-A	14.8	13.4	11	9.1	7.6	6.3	5.3	4.4		
SSA-S-10-40-A	10.9	9.8	7.9	6.3	5.1	4.1	3.2	2.5		
SSA-S-12-40-A	7.9	7.0	5.4	4.1	3.0	2.2	1.5	0.9		
SSA-S-14-40-A	5.6	4.8	3.4	2.3	1.4	0.8	NR	NR		
SSA-S-16-40-A	3.6	2.9	1.7	0.7	NR	NR	NR	NR		
SSA-S-18-40-A	1.8	1.2	NR	NR	NR	NR	NR	NR		
SSA-S-20-40-A	NR	NR	NR	NR	NR	NR	NR	NR		
SSA-S-16-40-B	7.7	6.7	4.9	3.5	2.4	1.5	0.7	NR		
SSA-S-18-40-B	5.4	4.5	3	1.8	0.8	NR	NR	NR		
SSA-S-20-40-B	3.5	2.7	1.3	NR	NR	NR	NR	NR		
SSA-S-18-50-B	10.6	9.2	6.8	4.9	3.3	2	1	NR		
SSA-S-20-50-B	7.8	6.5	4.4	2.7	1.3	NR	NR	NR		
SSA-S-25-50-B	2.2	1.2	NR	NR	NR	NR	NR	NR		
SSA-S-16-60-B	22	19.8	15.5	12.4	9.8	7.7	5.9	4.4		
SSA-S-18-60-B	17.2	15.2	11.7	8.9	6.6	4.8	3.3	2		
SSA-S-20-60-B	13.4	11.5	8.4	6.4	4	2.4	1	NR		
SSA-S-25-60-B	6.7	4.4	2	NR	NR	NR	NR	NR		
SSA-S-30-60-B	NR	NR	NR	NR	NR	NR	NR	NR		
SSA-S-16-60-C	25	25	22.8	18.8	15.2	12.5	10.1	8.2		
SSA-S-18-60-C	25	22.5	18	14.3	11.3	9	7	5.3		
SSA-S-20-60-C	20.4	18	14	10.8	8.2	6	4.3	2.8		
SSA-S-25-60-C	11.2	9.3	6.2	3.8	1.8	NR	NR	NR		
SSA-S-30-60-C	4.3	2.8	NR	NR	NR	NR	NR	NR		



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<h2>LITEPAK SERIES LNC4</h2>	Cat.#	
	Job	
		Approvals

SPECIFICATIONS

Intended Use:

Largest in the Litepak product family, the LNC4 is designed for perimeter illumination for safety, security and identity. Replaces up to 400w HID luminaires one-for-one replacement covering existing installation footprint. No uplight and lower glare lenses offer neighbor friendly lighting at typical mounting heights of 15-25'. Units have protective polyester powder coat finish for long lasting appearance. Ideal for schools, factories, hospitals, warehouses and retail applications. Energy efficient LEDs provide 70%+ energy savings with little to no maintenance when compared to traditional light sources. Battery backup option for meeting path of egress requirements.

Construction:

Die-cast aluminum housing protects components and provides an architectural appearance. Casting thermally conducts LED heat to optimize performance and long life. Powder paint finish provides durability in outdoor environments. Four 1/2" conduit entries (top, bottom, and sides) provided for surface conduit.

Electrical:

- 120-277, 347 and 480 voltage, 50/60Hz, 0-10V dimming drivers
- Electronic driver
- 10 KA surge protection (parallel); Automatically takes fixture off-line when device is consumed
- Ambient operating temperature -40°C to 40°C

LED(s) CCT:

- 3000K, 4000K and 5000K CCT nominal with 70 CRI
- 36 and 44 LED configurations available, see page 2 for electrical and photometric data

Lenses:

- Zero uplight distributions using individual acrylic LED optics provide IES type II, III and IV distributions
- CS - Frosted acrylic diffuser option for reduced glare
- CSU - Frosted acrylic diffuser for inverted "up" mounting applications (lens required)

Lumen Maintenance:

L96 at 25,000 hrs (Projected per IESNA TM-21-11), see table on page 2 for all values

Installation:

Quick-mount adapter with gasket seal provides easy installation to wall or to recessed junction box (4" square junction box). Fixture attaches by two Allen-head hidden fasteners for tamper resistance. Designed for direct J-box mount or conduit feed on all four sides in single SKU.

Options/Controls

- Button photocontrol for dusk to dawn energy savings
- 7-pin photo-receptacle available for twist lock photocell and controls by others
- Occupancy sensor options available for complete on/off and dimming control

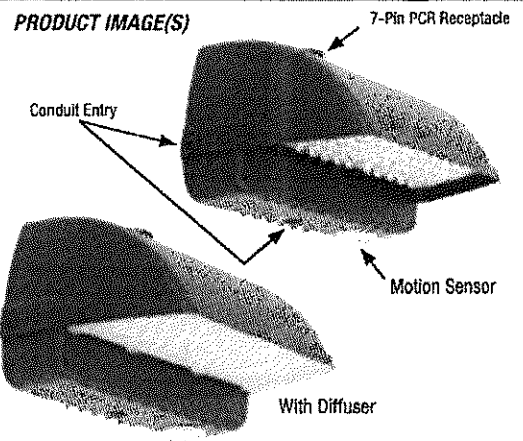
Listings

- DesignLights Consortium® (DLC) qualified. Please refer to the DLC website for specific product qualifications at www.designlights.org
- Listed to UL1598 and CSAC22.2#250.0-24 for wet locations
- IP65 Assembly
- ICA Approved (3000K configurations)

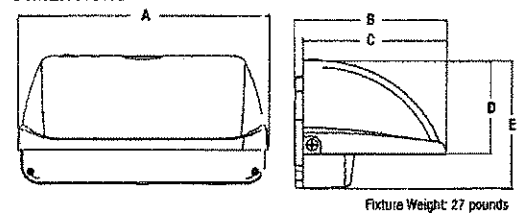
Warranty:

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

PRODUCT IMAGE(S)



DIMENSIONS



A	B	C	D	E	Weight
17.2"	10.5"	9.9"	6.5"	8.9"	27 lbs.
436 mm	266 mm	251 mm	165 mm	226 mm	12.3 kg

Fixture Weight: 27 pounds

SHIPPING INFORMATION

Catalog Number	G.W(kg)/CTN	Carton Dimensions			Carton Qty. per Master Pack
		Length Inch (cm)	Width Inch (cm)	Height Inch (cm)	
LNC4-36L	27.0 (12.2)	19.7 (50)	13 (33)	13 (33)	1
LNC4-44L					

CERTIFICATIONS/LISTINGS



C US 3000K and warmer CCTs only

ORDERING INFORMATION - CONFIGURABLE (ORDERING EXAMPLE: LNC4-36L3K-105-3-U-BL-PCU-CS)

FAMILY	NUMBER OF LEDS	CCT	DRIVE CURRENT	IES DISTRIBUTION	VOLTAGE	FINISH	CONTROL OPTIONS	OPTIONS
LNC4 Large Litepak Wallpack	36L 36LED 44L 44LED	3K 3000K 4K 4000K 5K 5000K	065 ⁵ 650mA 105 1050mA	2 Type II 3 Type III 4 Type IV	U 120V-277V 1 120V ¹ 2 208V ¹ 3 240V ¹ 4 277V ¹ 5 480V ¹ F 347V ¹	DB Bronze BL Black WH White GR Gray PS Platinum CC Custom Color	PCU Universal Button PC 7PR ⁵ 7-pin photocell receptacle SCP ^{3A} Programmable motion sensor	F ¹ Fusing (must specify voltage per footnote) CS Frosted acrylic diffuser CSU ² Frosted acrylic diffuser required for inverted fixture installations (Factory install only see page 3)

FALL 2016 065 650mA versions Available Fall 2016

FALL 2016 5 480V option F 347V option

FALL 2016 BBU Battery backup

¹ Specify voltage for voltage specific option (only 120V or 277V available for Fusing)
² Factory install only. Not available with 7PR or SCP control options
³ Must order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, 120-277V only.
⁴ PCU option not applicable, included in sensor
⁵ Accepts standard 3, 5, and 7-Pin ANSI controls (by others)
⁶ Not available in 347/480V

REPLACEMENT PART/ACCESSORIES

CATALOG NUMBER	DESCRIPTION
LNC4-CS	Frosted acrylic diffuser reduces surface brightness and glare with a roughly 20% lumen reduction
SCP-REMOTE	Remote control for SCP option. Order at least one per project to program and control fixtures

*Must order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, 120V or 277V only



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ORDERING INFORMATION – STOCKED VERSIONS (ORDERING EXAMPLE: LNC4-44L-4K)

Catalog Number	Wattage	Number of LEDs	Voltage	Dist. Type	Lumens	LPW	CCT	Weight lbs. (Kg)	Number of Drivers	LED Current
LNC4-36L-4K	124.6	36	120-277	4	10,754	86.3	4000°K	27.0 (12.2)	2	1050mA
LNC4-44L-4K	152.6	44			13,477	88.3				
LNC4-44L-5K	152.1	44			13,342	87.7	5000°K			
LNC4-44L-4K-7PR	152.6	44			13,477	88.3	4000°K			

PERFORMANCE DATA

# OF LEDS	DRIVE CURRENT	SYSTEM WATTS	DIST TYPE	5K (5000K nominal, 70 CRI)					4K (4000K nominal, 70 CRI)					3K (3000K nominal, 70 CRI)				
				LUMENS	LPW'	B	U	G	LUMENS	LPW'	B	U	G	LUMENS	LPW'	B	U	G
36	650mA	80	2	7,627	95.3	2	0	2	7,440	93.0	2	0	2	6,756	84.4	2	0	2
			3	7,590	94.9	1	0	2	7,404	92.5	1	0	2	6,723	84.0	1	0	2
			4	7,611	95.1	1	0	3	7,424	92.8	1	0	3	6,742	84.3	1	0	3
44		96	2	9,094	94.7	2	0	2	9,221	96.0	2	0	2	8,572	89.3	2	0	2
			3	9,472	98.7	2	0	2	9,298	96.9	1	0	2	8,644	90.0	1	0	2
			4	8,916	92.9	1	0	3	9,040	94.2	1	0	3	8,405	87.6	1	0	3
36	1150mA	140	2	11,911	86.6	2	0	2	11,619	84.5	2	0	2	10,551	76.7	2	0	2
			3	11,853	90.2	2	0	2	11,563	88.0	2	0	2	10,500	79.9	2	0	2
			4	11,886	84.9	1	0	3	11,595	82.8	1	0	3	10,529	75.2	1	0	3
44		170	2	14,202	83.6	2	0	3	14,400	84.7	3	0	3	13,387	78.7	2	0	2
			3	14,793	87.0	2	0	3	14,521	86.2	2	0	3	13,499	82.0	2	0	3
			4	13,924	81.9	2	0	3	14,118	83.0	2	0	3	13,127	77.2	2	0	3

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

ELECTRICAL DATA

Configurable Versions

# OF LEDS	Drive Current (mA)	Input Voltage	Current (Amps)	System Power
36	650mA	120	0.66	80
		277	0.29	80
		347	0.23	80
		480	0.17	80
44		120	0.80	96
		277	0.35	96
		347	0.28	96
		480	0.20	96
36	1150mA	120	1.17	140
		277	0.51	140
		347	0.40	140
		480	0.29	140
44		120	1.42	170
		277	0.61	170
		347	0.49	170
		480	0.35	170

Stocked Versions

# of LEDS	Drive Current (mA)	Input Voltage	Current (Amps)	System Power
36	STD. (1050)mA	120	1.03	124
		277	0.45	124
44		120	1.27	152
		277	0.55	152

PROJECTED LUMEN MAINTENANCE

Ambient Temp.	OPERATING HOURS					
	0	25,000	50,000	TM-21-11 ¹ L96 60,000	100,000	L70 (hours)
25°C / 77°F	1.00	0.96	0.92	0.91	0.85	223,000
40°C / 104°F	1.00	0.94	0.89	0.87	0.80	159,000

1. Projected per IESNA TM-21-11 * (Nichia 2198, 700mA, 85°C T_s, 10,000hrs)
Data references the extrapolated performance projections for the LNC-12LU-5K base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

AMBIENT TEMPERATURE		LUMEN MULTIPLIER
0° C	32° F	1.02
10° C	50° F	1.01
20° C	68° F	1.00
25° C	77° F	1.00
30° C	86° F	1.00
40° C	104° F	0.99

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).



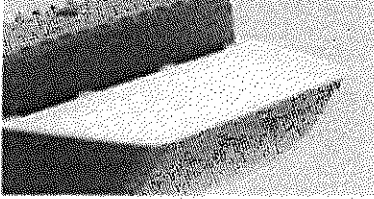
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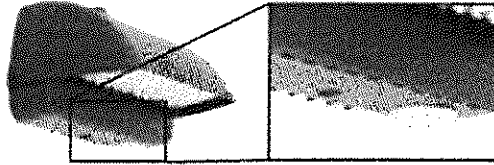
LNC4-SPEC B/18

CSU – INVERTED MOUNTING OPTION
(Requires Factory installed lens option)



Inverted mounting capabilities for uplighting applications. Specially designed frosted acrylic diffuser option softens output, improves uniformity and protects LED lenses.

MOTION SENSOR OPTION

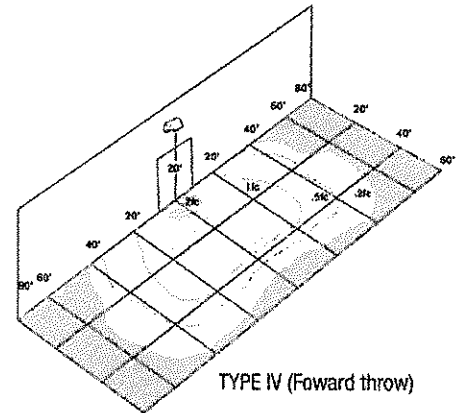
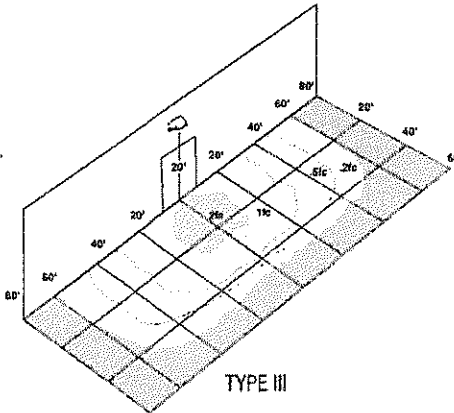
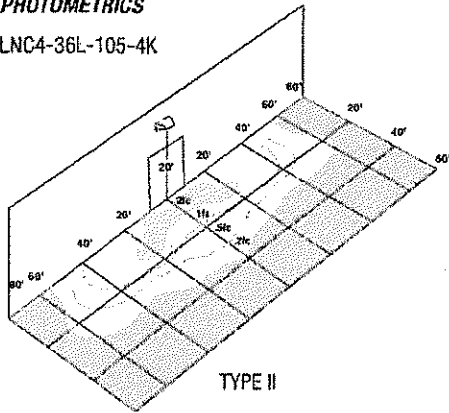


Sensor offers greater control and energy savings with SCP programmable sensor with adjustable delay and dimming levels (Factory default is 10%)

Visit: <http://www.hubbellighting.com/solutions/controls/> for control application information

PHOTOMETRICS

LNC4-36L-105-4K



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