

LNC2 SERIES

Cat.#

Job

Type



HUBBELL
Outdoor Lighting

Approvals

SPECIFICATIONS

Intended Use:

The compact LED LNC2 is designed for perimeter illumination for safety, security and identity. This compact fixture has no uplight and is neighbor friendly with typical mounting heights up to 15ft. Units are supplied with an acrylic diffuser accessory that can be used for lower LED brightness near building entrances or other pedestrian areas. Units have protective polyester finish for long lasting appearance.

Construction:

Decorative 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.

Electrical:

- 120V-277V universal voltage 50/60Hz 0-10V dimming drivers
- 347V and 480V dimmable driver option in 12L configuration
- Electronic drivers: One in 5L, 7L, 9L and 12L units. Two drivers in 18L units
- Minimum operating temperature is -40°C/-40°F
- Driver RoHS and IP66
- Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion

LED(s) CCT:

- 3000K CCT nominal – 80 CRI, 4000K CCT nominal – 70 CRI, 5000K CCT nominal – 70 CRI
- 5, 7, 9, 12 and 18 LED configurations available see page 2 for electrical and photometric details

Optical:

Type II, III and IV distributions with zero uplight; individual PMMA acrylic lenses for wide lateral throw, maximum control and efficiency; Acrylic diffuser included where reduced LED brightness is desired

Lumen Maintenance:

L96 at 60,000hrs (Projected per IESNA TM-21-11), see table on page 2 for all values

Installation:

Quick-mount adapter provides easy installation to wall or to recessed junction boxes (4" square junction box). Gasket seal and secured by two Allen-head hidden fasteners for tamper resistance. Designed for direct j-box mount or conduit feed in single SKU. Conduit feed not available with BBU.

Options:

Controls:

- Button photocontrol for dusk to dawn energy savings
- Occupancy sensor options available for complete on/off and dimming control (includes factory installed back box)

Egress (includes factory installed back box):

- Battery back-up option - 12L configuration only
- Provides 1 fc minimum over 10' x 10' at 11' mounting height (exceeds NEC requirement)
- 1,546 initial lumens in battery mode
- Meets UL924 90 minute discharge schedule
- -20°C to 30°C operating temperature

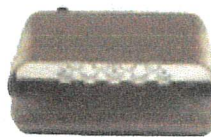
Listings:

- DLC Qualified (Types III and IV) Consult DLC website for details:
<http://www.designlights.org/QPL>
- Listed to UL 1598 for use in wet locations, 40° C ambient environments

Warranty:

- Five year limited warranty (for more information visit: <http://www.hubbelloutdoor.com/resources/warranty/>)
- IES Progress Award Winner - 2013
- Building Operating Management 2014 Top Products Award - LNC2-18LU

PRODUCT IMAGE(S)



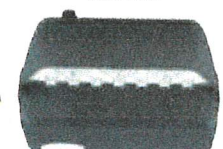
LNC2-12LU



LNC2-18LU

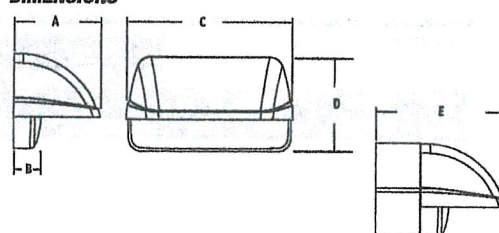


With diffuser



Battery Back-up or Sensor - See Page 2,3

DIMENSIONS



With Battery Back-up or sensors

A	B	C	D	E	Weight / BBU
6.25"	1.6"	10.25"	5.6"	10.25"	7.0 / 15.0 lbs.
158.7 mm	40.2 mm	260.4 mm	142.2 mm	260.4 mm	3.2 / 6.8 kg

SHIPPING INFORMATION

Catalog Number	G.W(kg)/CTN	Carton Dimensions			Carton Qty. per Master Pack
		Length (in) (cm)	Width (in) (cm)	Height (in) (cm)	
LNC2-12LU	14.3 (6.5)	14.5 (37)	11.4 (29)	8.4 (21.5)	2
LNC2-18LU	14.8 (6.7)	14.9 (38)	11.4 (29)	8.4 (21.5)	2

CERTIFICATIONS/LISTINGS



*3000K and warmer CCTs only

ORDERING INFORMATION – ORDERING EXAMPLE: LNC2-12LU-5K-3-1

SERIES	NUMBER OF LEDs	VOLTAGE ¹	CCT	IES DISTRIBUTION	FINISH	OPTIONS
LNC2 LNC2	5L 5 LEDs	U 120V-277V	3K ² 3000K nominal 80 CRI	2 ² Type II	1 Bronze	PC ³ Photocontrol (Must specify individual voltage)
	7L 7 LEDs	1 120V	4K 4000K nominal 70 CRI	3 Type III	2 Black	BBU ^{4,5} Integral battery for 12L only (must specify 120V or 277V voltage in voltage category) rated for -20°C to 30°C
	9L 9 LEDs	2 208V	5K 5000K nominal 67 CRI	4 Type IV	3 Gray	SCP ^{4,6} Programmable motion control, factory default is 10% light output
	12L ³ 12 LEDs	3 240V			4 White	
	18L 18 LEDs	4 277V			5 Platinum	
	12L5 12 LEDs, 480V	5 480V (12L only)	AM Amber (590 nm available for "Turtle Friendly"/observatory applications, 350 mA (12L only versions)			
	12LF 12 LEDs, 347V	F 347V (12L only)				

¹ Battery backup only available on 12L models, not available for Canada

² Does not qualify for DLC

³ Replace U with 1 for 120V or 4 for 277V for 12L with BBU

⁴ 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-277V only

⁵ PC option not applicable, included in sensor

⁶ BBU and motion sensor options cannot be combined

⁷ Specify voltage for PC option 120-277V only



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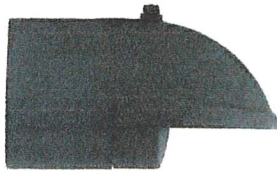
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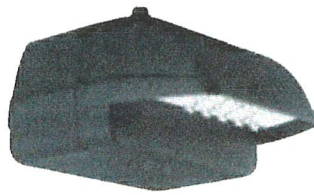
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LAREOLNC2-SPEC 12/16

LNC2 – BATTERY BACK UP

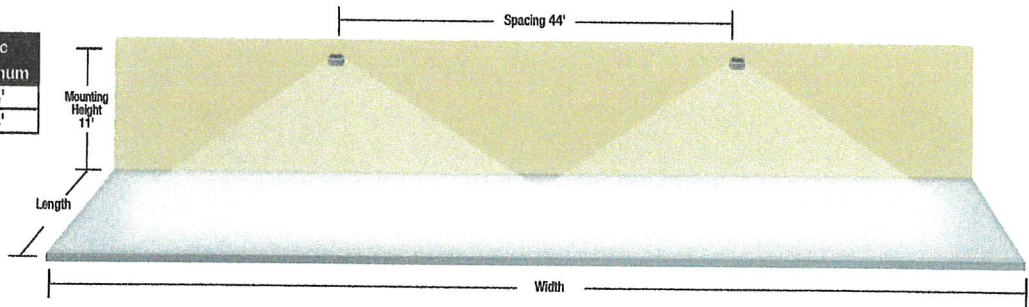


Side View

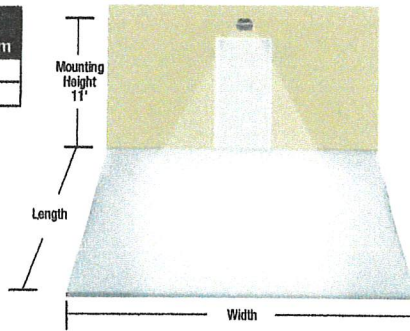


3/4 View

Multi Unit	1 fc Average	1 fc Minimum
Length	16'	15'
Width	112'	68'



Single Unit	1 fc Average	1 fc Minimum
Length	16'	15'
Width	48'	24'



Provides Life Safety Code average illuminance of 1.0 fc. Assumes open space with no obstructions and mounting height of 11'
Diagrams for illustration purposes only, please consult factory for application layout.

LNC2-SCBB-XX SURFACE CONDUIT BACK PLATE



LNC2 FIXTURE



LNC2-SCBB-XX



BB-GEO-XX



LNC2-SCBB-XX and BB-GEO-XX SHOWN ATTACHED TO FIXTURE

To Wall



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LAREDLNC2-SPEC 12/16

CIMARRON LED CL1S

Cat.#

Job

Type



SPAULDING
LIGHTING

Approvals

SPECIFICATIONS

Construction:

- Stylish vertically finned die-cast solid top housing for maximum heat dissipation; Stops collection of unsightly debris
- Rugged lower die-cast aluminum heat sink optimizes thermal management and optical performance
- One piece die-cut silicone gasket with mechanically compressed stainless steel bezel 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
- Complements the Cimarron LED CL1 i
- Weight - 19 pounds, EPA - .45 ft²

Optics:

- Choice of 126 high brightness LED configurations with individual acrylic lenses specially designed for IES Type II, III, IV and V distributions
- 3000K, 80 CRI; 4000K, 70 CRI; 5000K, 67 CRI, Turtle friendly Amber

Electrical:

- Universal input voltage 120-277 VAC, 50/60 Hz
- Ambient operating temperature -40° C to 40° C
- Drivers have greater than 90% power factor and less than 10% THD
- 700mA drive current standard, 350mA and 525mA options available with 32L and 48L LED models
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- Surge protection - 20KA; Turns fixture off at end of life; Includes LED for end of life indication (see surge suppressor page 3)
- Optional 0-10VDC continuous dimming to 10%
- Automatic thermal self-protection
- LED electrical assembly, including PR devices, consumes no power in the 'off' state

Controls:

- Drivers are 0-10V dimming standard. Photocell and occupancy sensors available for complete on/off and dimming control

Installation:

- Quick-mount plate included for easy installation
- The decorative integral arm houses two stage hinge mechanism
- Safety latch holds luminaire door to prevent "free swing"
- Quick-connect wiring for simplified, hassle-free installation
- Suitable for applications requiring 3G testing prescribed by ANSI @136.31

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
- 700mA models meet DesignLights Consortium (DLC) qualifications, consult DLC website for more details: <http://www.designlights.org/DPL>
- IDA approved
- IP66
- IES Progress Award Winner - 2013

PRODUCT IMAGE(S)



48 LED 3/4 VIEW



16 LED

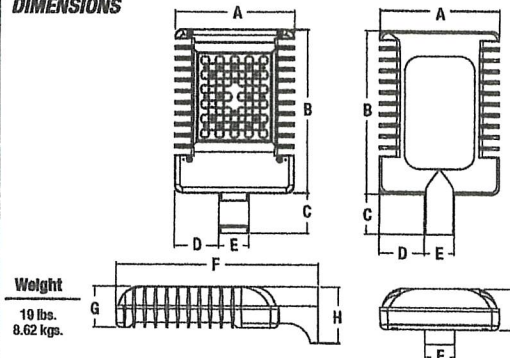


32 LED



48 LED

DIMENSIONS



Weight
19 lbs.
8.62 kgs.

A	B	C	D	E	F	G	H
12"	16.312"	4"	4.5"	3"	20.312"	4.13"	5.625"
305mm	414mm	102mm	114mm	76mm	515mm	105mm	143mm

CERTIFICATIONS/LISTINGS



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PERFORMANCE DATA

			2K 2000 NOMINAL TYPICAL				4K 4000 NOMINAL TYPICAL				6K 6000 NOMINAL TYPICAL							
NUMBER OF LEDS	DRIVE CURRENT (MILLIAMPS)	SYSTEM WATTS	DISTRIBUTION TYPE	2K 2000 NOMINAL TYPICAL				4K 4000 NOMINAL TYPICAL				6K 6000 NOMINAL TYPICAL						
				LUMENS	LPW	B	U	G	LUMENS	LPW	B	U	G	LUMENS	LPW	B	U	G
16	700mA	38w	2	3053	80	1	1	1	3077	81	1	2	2	2438	64	1	2	2
			3	3075	81	1	1	1	3099	82	1	1	1	2456	65	1	1	1
			4	3113	82	1	1	1	3136	83	1	1	1	2486	65	1	1	1
			5S	3457	91	2	0	0	3484	92	2	0	0	2761	73	2	0	0
			5M	3731	98	2	0	0	3454	91	2	0	1	2737	72	2	0	0
			5W	3166	83	3	1	1	3160	83	2	1	1	2725	72	2	1	1
32	700mA	76w	2	6527	86	2	1	2	6042	80	2	1	2	4788	63	1	1	2
			3	6574	87	2	1	2	6085	80	2	1	2	4823	63	1	1	2
			4	6654	88	1	1	2	6159	81	1	1	2	4881	64	1	1	2
			5S	7391	97	3	0	0	6841	90	3	0	0	5422	71	2	0	0
			5M	7327	96	3	0	1	6782	89	3	0	1	5375	71	3	0	1
			5W	6704	88	3	1	2	6206	82	3	1	2	4918	65	3	0	1
	525mA	56w	2	4930	88	2	1	2	4564	81	1	1	2	3617	65	1	1	2
			3	4966	89	1	1	2	4596	82	1	1	1	3643	65	1	1	1
			4	5026	90	1	1	2	4652	83	1	1	2	3687	66	1	1	1
			5S	5583	100	2	0	0	5168	92	2	0	0	4096	73	2	0	0
			5M	5535	99	2	0	1	5123	91	2	0	1	4060	73	2	0	1
			5W	5064	90	3	1	1	4688	84	3	1	1	3715	66	2	1	1
	350mA	38w	2	3488	92	1	1	2	3229	85	1	1	1	2559	67	1	1	1
			3	3513	92	1	1	1	3252	86	1	1	1	2578	68	1	1	1
			4	3556	94	1	1	1	3292	87	1	1	1	2609	69	0	1	1
			5S	3950	104	2	0	0	3656	96	2	0	0	2898	76	1	0	0
			5M	3916	103	2	0	0	3625	95	2	0	0	2873	76	2	0	0
			5W	3583	94	3	1	1	3317	87	2	1	1	2628	69	2	1	1
48	700mA	110w	2	9864	90	2	2	3	9131	83	2	2	3	7236	66	2	1	2
			3	9935	90	2	1	2	9593	87	2	1	2	7288	66	2	1	2
			4	10056	91	2	1	2	9309	85	1	1	2	7377	67	1	1	2
			5S	11169	102	3	0	0	10339	94	3	0	0	8193	74	3	0	0
			5M	11073	101	4	1	2	10250	93	4	1	2	8123	74	3	1	2
			5W	10132	92	3	1	2	9379	85	3	1	2	7662	68	3	1	2
	525mA	82w	2	7230	88	2	1	2	6692	82	2	1	2	5303	65	1	1	2
			3	7282	89	2	1	2	7031	86	2	1	2	5342	65	1	1	2
			4	7370	90	1	1	2	6823	83	1	1	2	5407	66	1	1	2
			5S	8186	100	3	0	0	7578	92	3	0	0	6005	73	3	0	0
			5M	8116	99	3	1	2	7512	92	3	1	2	5954	73	3	1	1
			5W	7426	91	3	1	1	6874	84	3	1	1	7081	86	2	1	1
	350mA	55w	2	5211	95	2	1	2	4823	88	1	1	2	3822	69	1	1	1
			3	5248	95	1	1	2	5067	92	1	1	1	3850	70	1	1	1
			4	5312	97	1	1	2	4917	89	1	1	2	3897	71	1	1	1
			5S	5900	107	2	0	0	5462	99	2	0	0	4328	79	2	0	0
			5M	5849	106	3	1	1	5415	98	3	1	1	4291	78	2	1	1
			5W	5352	97	3	1	1	4954	90	2	1	1	5104	93	2	1	0

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, application and inherent performance tolerances of the electrical components.

PROJECTED LUMEN MAINTENANCE

AMBIENT TEMP	0	25 °C	50 °C	75 °C	100 °C	CALCULATED L70 (hours)
25°C / 77°F	1.00	0.98	0.96	0.96	0.94	>675,000
40°C / 104°F	0.98	0.96	0.95	0.94	0.92	>556,000

* Nichia 2198, 700mA, 85°C T₈, 10,000hrs

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

AMBIENT DATA		
TEMP	LUMEN MULT	
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	0.98
50°C	122°F	0.98



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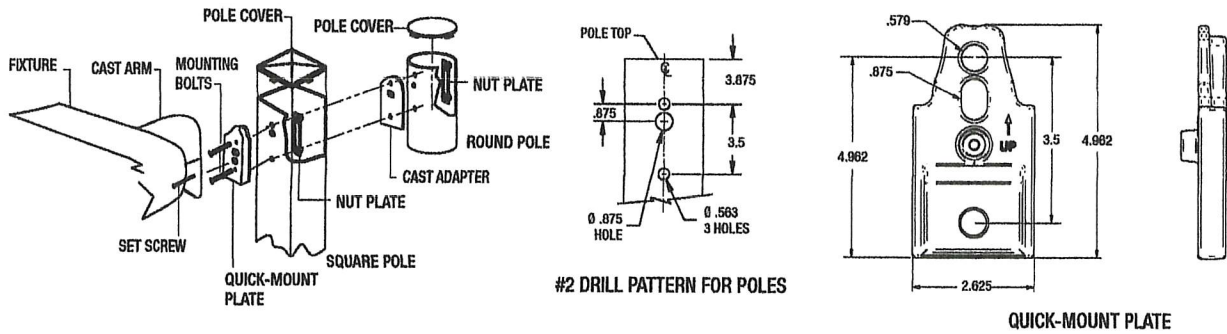
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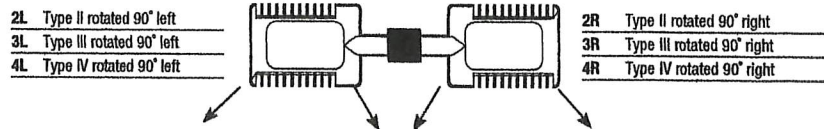
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FIXTURE MOUNTING



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.



QUICK MOUNT INSTALLATION

The Cimarron CL1S installation features:

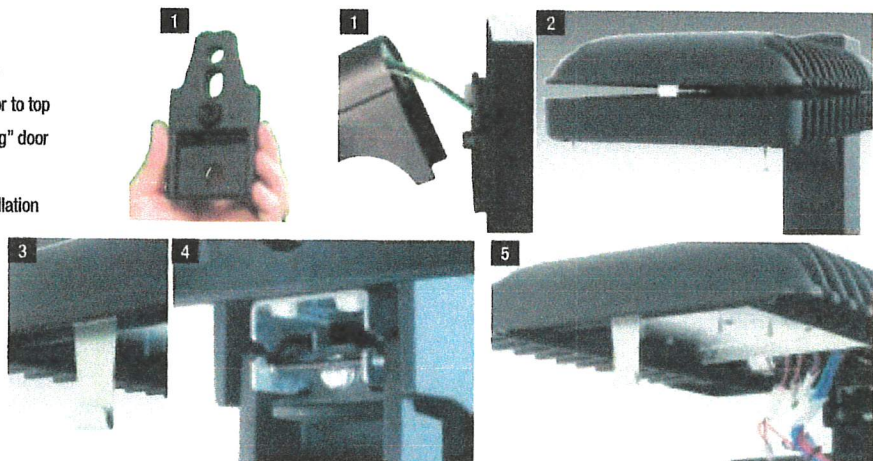
- 1 Quick-mount plate attaches to pole with two 3/4" bolts
- 2 4 - slot hex 1/4" captured screws secure luminaire door to top
- 3 Safety-latch holds luminaire door to prevent "free swing" door
- 4 Two stage hinge mechanism built into integral arm
- 5 Quick-connect wiring for a simplified, hassle-free installation



For installation video
scan this code or
visit link below:



<http://www.youtube.com/user/hubbelloutdoorbrands>



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