



CUSTOMER NAME \_\_\_\_\_  
 PROJECT NAME \_\_\_\_\_  
 DATE \_\_\_\_\_ TYPE \_\_\_\_\_  
 CATALOG NUMBER \_\_\_\_\_

## ERNC Gen A LED Roadway Lighting

The Evolve® ERNC NexERA LED roadway luminaire provides energy efficiency in a rugged, easy to install, lightweight fixture. New refractive optics provide high-efficacy with application-optimized photometry. Distribution options including Types II-Narrow, II, III, IV and V are offered at CCT's of 2700 through 4000K.

### Construction

<b>Housing:</b>	Aluminum die cast enclosure Standard Tool-less entry IP66 Optical Integral heat sink for maximum heat transfer
<b>Lens:</b>	Precision Molded Acrylic
<b>Paint:</b>	Corrosion resistant polyester powder paint, minimum 2.0 mil thickness. (RAL & custom colors available) Standard = Gray, Black and Dark Bronze Optional = Coastal Finish
<b>Weight:</b>	≤11 lb (5kg)

### Optical System

<b>Lumens:</b>	2,600 - 13,000
<b>Distribution:</b>	Type II, Type III, Type IV, Type V
<b>Efficacy (LPW):</b>	Up to 173
<b>CCT (K):</b>	2700, 3000, 4000
<b>CRI (Min):</b>	70

### Electrical

<b>Input Voltage (V):</b>	120-277 or 347-480
<b>Input Frequency (Hz):</b>	50/60
<b>Power Factor:</b>	≥ 0.9 at rated watts
<b>Total Harmonic Distortion:</b>	≤ 20% at rated watts

### Surge Protection\*

Standard	Optional
10kV/5kA	Secondary 10kV/5kA (R option) Secondary 20kV/10kA (T option)

\*Per ANSI C136.2-2018

### Certifications

This product qualifies as “Domestic Construction Material” per FAR 52.225-9 as Buy American-Construction Material and FAR 52.225-11 as Buy American-Construction Materials under Trade Agreements effective 07/18/2024 .

### Lumen Maintenance

#### Projected Lxx per IES TM-21-11 at 25°C

LUMEN CODES	DISTRIBUTIONS	LXX(10K @ HOURS)		
		25,000	50,000	60,000
03-09	A1CA, B1CA C1CA, D1CA	L99	L97	L96
10-12		L95	L90	L88
13		L95	L89	L87

Note: Projected Lxx based on LM80 (≥ 10,000 hour testing). Accepted Industry tolerances apply to initial luminous flux and lumen maintenance measurements

### Ratings

Operating Temperature:	Range	Lumen Code	
		0-10V	DALI D4i
-40°C to 50°C:		03-10	03-09
-40°C to 45°C:		11-13	10-11
-40°C to 40°C:		-	12
<b>Vibration:</b>	3G per ANSI C136.31-2018		
<b>LM-79:</b>	Tested in accordance with IES Standards		
<b>EMI:</b>	FCC Title 47 CFR Part 15 Class A		
<b>RoHS:</b>	Complies with the material restrictions of RoHS		

### Controls

<b>Dimming:</b>	Standard: 0-10V Optional: DALI D4i (Option U4)
<b>Control Compatibility:</b>	Photo Electric Sensors (PE) available LightGrid+ Compatible Zhaga Book 18 Sensor Compatible


### Warranty

5 Year (Standard)                      10 Year (Optional)



IP66  
Optical

### Ordering Information

ERNC	A	0	0x	B1CA	30	A	GRAY	
PROD. ID	GEN	VOLTAGE	LUMEN CODE	DISTRIBUTION <sup>1</sup>	CCT (K)	SOCKET <sup>2</sup>	COLOR	OPTIONS
E = Evolve	A	0 = 120-277V <sup>6</sup>	03	A1CA = Type II-N	27 = 2700K	<b>Top Socket Only</b>	GRAY = Gray	C1 = Captive Door
R = Roadway		H = 347-480V <sup>6</sup>	04	B1CA = Type II/III	30 = 3000K	1 = Top: No Socket	BLCK = Black	F = Fusing <sup>6,11</sup>
N = NexGen		 <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">                     Select Single Voltage ONLY if Fusing Required                 </div>	05	C1CA = Type III	40 = 4000K	A = Top: 7-Pin Socket <sup>3,4</sup>	DKBZ = Dark Bronze	G = Internal Bubble Level
C = Compact			06	D1CA = Type IV		D = Top :7-Pin Socket with Short Cap <sup>3,4</sup>	E = Top: 7-Pin Socket with Long Life PE <sup>3,4</sup>	M1 = Magnapak (40 units/box) <sup>7</sup>
			07			F = Top: Zhaga Book 18 Socket <sup>5</sup>		R = 10kV/5kA Secondary SPD
			08					T = 20kV/10kA Secondary SPD <sup>9</sup>
			09	Available Q4' 24				U4 = DALI D4i <sup>4, 5,11</sup>
			10					V1 = Field Adjustable Module <sup>9</sup>
			11		V1CA= Type V			Y = Coastal Finish <sup>10</sup>
			12				<b>Top Socket &amp; Bottom Socket</b>	
			13				G = Top : 7-Pin Socket +Bottom: Zhaga Book 18 Socket <sup>5</sup>	
							H = Top : 7-pin Socket with Short Cap + Bottom: Zhaga Book 18 Socket <sup>5</sup>	
							J = Top: 7-Pin Socket with Long Life PE + Bottom: Zhaga Book 18 Socket <sup>5</sup>	
							Z = Top: No Socket + Bottom: Book 18 Socket <sup>5</sup>	

- Nominal IES Type classing subject to typical variation, individual units may differ, review IES files for individual sku typing.
- 7-Pin receptacles per ANSI C136.41 and/or Zhaga Book 18 receptacles.
- 7 Pin receptacle wired for 0-10V control unless Dali (U4) selected.
- IF U4 Option Selected AND A, D or E Socket option is Selected, the 7 pin Receptacle will be wired for DALI control with BUS NOT Powered.
- When ordering Zhaga Book 18 receptacle, Dali-D4i (Option U4) must be selected. DALI control BUS Powered.
- Fusing not available with multivolt (O or H) Input Voltages nor with 20KV Secondary SPD (Option T).
- Option M1 provides for MagnaPak – 40 Fixtures per MagnaPak Container. Single Pack box is standard.
- Secondary 20 kV Surge (option T) not available with Fusing (Option F).
- Field Adjustable Module (option V1) not available with Dali (Option U4).
- Coastal Finish (option Y) is recommended for installations within 750 feet from coast. Lead time varies, check with factory.
- Fusing not available with 347V or 480V if Dali (Option U4) is requested.

### Suggested HID Replacement

- Approximately 4,000 - 10,000 lumens to replace 50-100W HPS Cobra-head.

Note: Actual replacement lumens may vary based upon mounting height, pole spacing, design criteria, etc.

The information above is designed to provide a guideline to select the correct luminaire for a roadway application. The best and most accurate way to ensure the proper design is by doing a lighting layout.

LUMEN LEVEL CODE	DIST.	TYPICAL INITIAL LUMENS			TYPICAL WATTAGE				LPW*	BUG RATINGS		
		4000K	3000K	2700K	120-277V		347-480V			4000K	3000K	2700K
					0-10V	DALI	0-10V	DALI				
03	A1CA	3020	2900	2650	18	20	21	N/A	173	B1-U0-G1	B1-U0-G1	B1-U0-G1
	B1CA	3020	2900	2650					173	B1-U0-G1	B1-U0-G1	B1-U0-G1
	C1CA	2990	2870	2630					171	B1-U0-G1	B1-U0-G1	B1-U0-G1
	D1CA	2960	2840	2600					169	B1-U0-G1	B1-U0-G1	B1-U0-G1
	V1CA^	TBD	TBD	TBD					TBD	TBD	TBD	TBD
04	A1CA	4010	3850	3530	24	26	28	28	172	B1-U0-G1	B1-U0-G1	B1-U0-G1
	B1CA	4010	3850	3530					172	B1-U0-G1	B1-U0-G1	B1-U0-G1
	C1CA	3970	3810	3490					171	B1-U0-G1	B1-U0-G1	B1-U0-G1
	D1CA	3930	3770	3450					169	B1-U0-G1	B1-U0-G1	B1-U0-G1
	V1CA^	TBD	TBD	TBD					TBD	TBD	TBD	TBD
05	A1CA	5020	4820	4410	31	32	34	34	167	B1-U0-G1	B1-U0-G1	B1-U0-G1
	B1CA	5020	4820	4410					167	B1-U0-G1	B1-U0-G1	B1-U0-G1
	C1CA	4970	4770	4360					165	B1-U0-G1	B1-U0-G1	B1-U0-G1
	D1CA	4920	4720	4320					164	B1-U0-G2	B1-U0-G2	B1-U0-G2
	V1CA^	TBD	TBD	TBD					TBD	TBD	TBD	TBD
06	A1CA	6050	5810	5320	37	38	39	39	165	B2-U0-G2	B2-U0-G2	B2-U0-G2
	B1CA	6050	5810	5320					165	B2-U0-G2	B2-U0-G2	B2-U0-G2
	C1CA	5990	5750	5270					163	B1-U0-G2	B1-U0-G2	B1-U0-G2
	D1CA	5930	5690	5210					162	B1-U0-G2	B1-U0-G2	B1-U0-G2
	V1CA^	TBD	TBD	TBD					TBD	TBD	TBD	TBD
07	A1CA	7100	6810	6240	44	44	47	48	163	B2-U0-G2	B2-U0-G2	B2-U0-G2
	B1CA	7100	6810	6240					163	B2-U0-G2	B2-U0-G2	B2-U0-G2
	C1CA	7020	6730	6170					162	B1-U0-G2	B1-U0-G2	B1-U0-G2
	D1CA	6960	6680	6120					160	B1-U0-G2	B1-U0-G2	B1-U0-G2
	V1CA^	TBD	TBD	TBD					TBD	TBD	TBD	TBD

\* LPW based on 120-277 V, 0-10 V dimming, & 4000K CCT (utilizing non-rounded lumens & watts)  
 ^ V1CA Distribution ERNC in Q4 2024

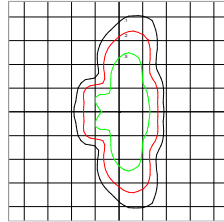
LUMEN LEVEL CODE	DIST.	TYPICAL INITIAL LUMENS			TYPICAL WATTAGE				LPW*	BUG RATINGS		
		4000K	3000K	2700K	120-277V		347-480V			4000K	3000K	2700K
					0-10V	DALI	0-10V	DALI				
08	A1CA	8000	7680	7040	50	50	53	54	161	B2-U0-G2	B2-U0-G2	B2-U0-G2
	B1CA	8000	7680	7040					161	B2-U0-G2	B2-U0-G2	B2-U0-G2
	C1CA	7920	7600	6960					160	B2-U0-G2	B1-U0-G2	B1-U0-G2
	D1CA	7840	7530	6900					158	B2-U0-G2	B2-U0-G2	B1-U0-G2
	V1CA^	TBD	TBD	TBD					TBD	TBD	TBD	TBD
09	A1CA	9100	8740	8010	58	60	58	63	153	B2-U0-G2	B2-U0-G2	B2-U0-G2
	B1CA	9100	8740	8010					153	B2-U0-G2	B2-U0-G2	B2-U0-G2
	C1CA	9010	8650	7930					152	B2-U0-G2	B2-U0-G2	B2-U0-G2
	D1CA	8920	8560	7840					150	B2-U0-G2	B2-U0-G2	B2-U0-G2
	V1CA^	TBD	TBD	TBD					TBD	TBD	TBD	TBD
10	A1CA	10060	9660	8860	68	68	69	73	149	B2-U0-G2	B2-U0-G2	B2-U0-G2
	B1CA	10060	9660	8860					149	B2-U0-G2	B2-U0-G2	B2-U0-G2
	C1CA	9950	9560	8770					148	B2-U0-G2	B2-U0-G2	B2-U0-G2
	D1CA	9860	9470	8680					146	B2-U0-G3	B2-U0-G3	B2-U0-G2
	V1CA^	TBD	TBD	TBD					TBD	TBD	TBD	TBD
11	A1CA	11100	10650	9760	75	75	77	81	149	B3-U0-G3	B3-U0-G3	B2-U0-G2
	B1CA	11100	10650	9760					149	B3-U0-G3	B3-U0-G3	B2-U0-G2
	C1CA	10980	10540	9660					147	B2-U0-G2	B2-U0-G2	B2-U0-G2
	D1CA	10880	10440	9570					146	B2-U0-G3	B2-U0-G3	B2-U0-G3
	V1CA^	3000	2880	2670					TBD	TBD	TBD	TBD
12	A1CA	12090	11610	10640	84	84	85	88	145	B3-U0-G3	B3-U0-G3	B3-U0-G3
	B1CA	12090	11610	10640					145	B3-U0-G3	B3-U0-G3	B3-U0-G3
	C1CA	11970	11490	10530					144	B2-U0-G3	B2-U0-G2	B2-U0-G2
	D1CA	11850	11370	10420					142	B2-U0-G3	B2-U0-G3	B2-U0-G3
	V1CA^	TBD	TBD	TBD					TBD	TBD	TBD	TBD
13	A1CA	13000	12480	11440	92	N/A	92	N/A	144	B3-U0-G3	B3-U0-G3	B3-U0-G3
	B1CA	13000	12480	11440					144	B3-U0-G3	B3-U0-G3	B3-U0-G3
	C1CA	12870	12350	11320					142	B2-U0-G3	B2-U0-G3	B2-U0-G2
	D1CA	12740	12230	11210					141	B2-U0-G3	B2-U0-G3	B2-U0-G3
	V1CA^	TBD	TBD	TBD					TBD	TBD	TBD	TBD

\* LPW based on 120-277 V, 0-10 V dimming, & 4000K CCT (utilizing non-rounded lumens & watts)

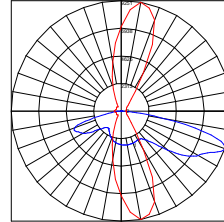
^ V1CA Distribution ERNC in Q4 2024

**ERNC - A1CA**  
**Type II Narrow**  
**Clear, Acrylic**

13,000 lumens  
 4000K  
 ERNC\_13A1CA40\_IES



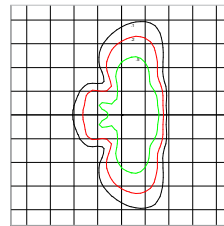
- Mounting Height at 30'
- Initial Footcandle at Grade



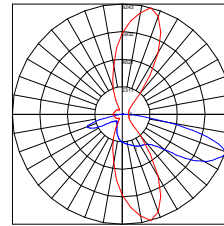
- Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

**ERNC - B1CA**  
**Type II/III**  
**Clear, Acrylic**

13,000 lumens  
 4000K  
 ERNC\_13B1CA40\_IES



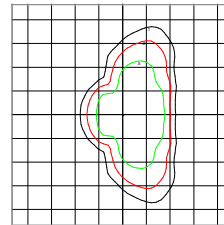
- Mounting Height at 30'
- Initial Footcandle at Grade



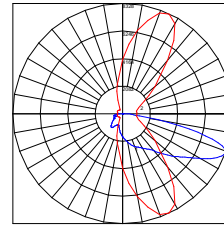
- Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (69) (Through Max. Cd.)

**ERNC - C1CA**  
**Type III**  
**Clear, Acrylic**

12,870 lumens  
 4000K  
 ERNC\_13C1CA40\_IES



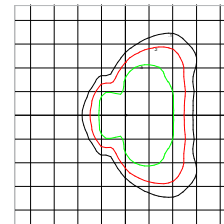
- Mounting Height at 30'
- Initial Footcandle at Grade



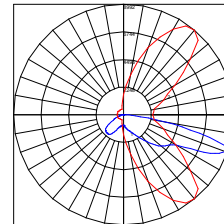
- Vertical Plane Through Horizontal Angles (65 - 245) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (69) (Through Max. Cd.)

**ERNC - D1CA**  
**Type IV**  
**Clear, Acrylic**

12,740 lumens  
 4000K  
 ERNC\_13D1CA40\_IES



- Mounting Height at 30'
- Initial Footcandle at Grade



- Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (71) (Through Max. Cd.)

**ERNC - V1CA**  
**Type V**  
**Clear, Acrylic**

TBD lumens  
 4000K  
 ERNC\_13V1CA40\_IES



## House Side Shields

### ERNC Shields

Product Code:	93315972	Description:	ELSHS-ERNC-BLCK
Product Code:	93315973	Description:	ELSHS-ERNC-GRAY



## Street Side Shields

### Left Shield, Right Shield or Front (Street Side) Shield

Product Code:	93316242	Description:	ELSLRF-ERNC-BLCK
Product Code:	93316243	Description:	ELSLRF-ERNC-GRAY

Shown Below Mounted as Left Side Shield

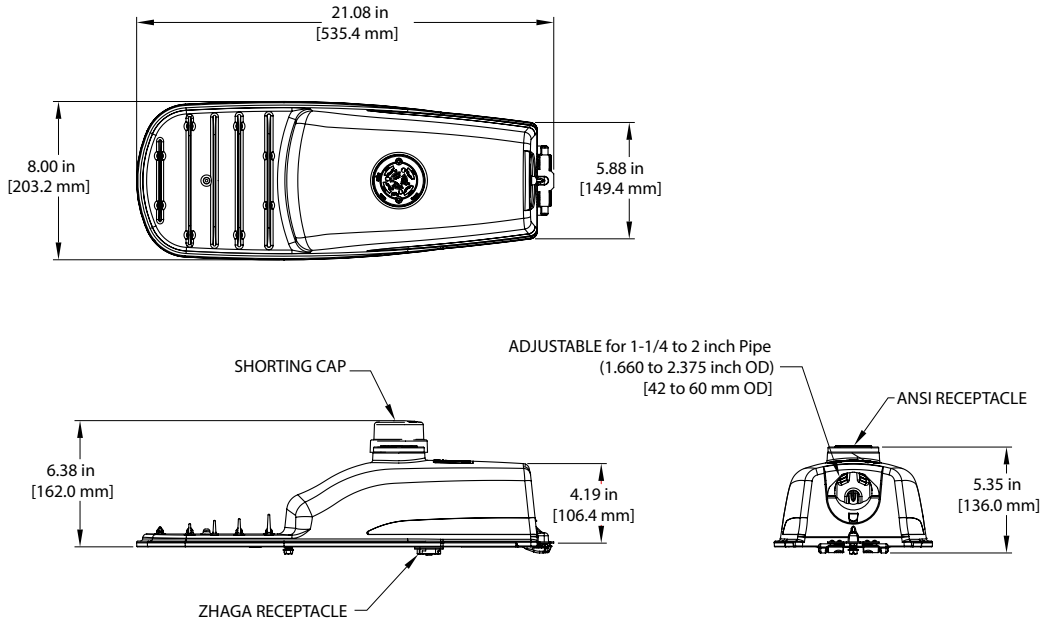


Shown Below Mounted as Right Side Shield



Shown Below Mounted as Front (Street Side) Shield





### Mounting

Adjustable for 1.25 to 2 in. nominal mounting pipe

Integral diecast mounting pipe stop

Slipfitter with +/- 5 degrees of leveling adjustment

### Effective Projected Area

Effective Projected Area: 0.22 ft<sup>2</sup> (0.02 m<sup>2</sup>) (Max no shield)

### Weight

Approximate net weight: <11 lb (5 kg)

### Accessories

SAP NUMBER	PART NUMBER	DESCRIPTION
93029237G	PED-MV-LED-7	ANSI C136.41 Dimming PE, 120-277V
93029238G	PED-347-LED-7	ANSI C136.41 Dimming PE, 347V
93029239G	PED-480-LED-7	ANSI C136.41 Dimming PE, 480V
28299	PECOTL	Long Life PE 120-277V
93147530	PECHTL	Long Life PE 277-480V
73251	SCCL-PECTL	Shorting Cap