

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	100,000
03-09	A1CA, B1CA	99	97	96	93
10-13	C1CA, D1CA, V1CA	97	96	94	90

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 Compatability:</b>	Photo Electric Sensors (PE) available LightGrid+ Compatible Zhaga Book 18 Sensor Compatible


### Warranty

5 Year (Standard)

10 Year (Optional)



### Ordering Information

ERNC	A	0	0x	B1CA	30	A	GRAY	
PROD. ID	GEN	VOLTAGE	LUMEN CODE	DISTRIBUTION <sup>1</sup>	CCT (K)	RECEPTICAL (SCKT) <sup>2</sup>	COLOR	OPTIONS
E = Evolve	A	0 = 120-277V <sup>6</sup>	03	A1CA = Type II-N	27 = 2700K	<b>Top Only</b> 1 = Top: None A = Top: ANSI 7-Pin <sup>3,4</sup> D = Top: ANSI 7-Pin w/ Shrt Cap <sup>3,4</sup> E = Top: ANSI 7-Pin w/ Long Life PE <sup>3,4</sup>	GRAY = Gray BLCK = Black DKBZ = Dark Bronze	C1 = Captive Door F = Fusing <sup>6,11</sup> G = Internal Bubble Level M1 = Magnapak (40 units/box) <sup>7</sup> R = 10kV/5kA Secondary SPD T = 20kV/10kA Secondary SPD <sup>8</sup> U4 = DALI D4i <sup>4, 5,11</sup> V1 = Field Adjustable Module <sup>9</sup> Y = Coastal Finish <sup>10</sup>
R = Roadway		H = 347-480V <sup>6</sup>	04	B1CA = Type II/III	30 = 3000K			
N = NexGen		 Select Single Voltage ONLY if Fusing Required	05	C1CA = Type III	40 = 4000K	<b>Top Sckt &amp; Bottom Sckt</b> G = Top: ANSI 7-Pin + Bottom: Zhaga Book 18 <sup>5</sup> H = Top: ANSI 7-pin w/Shrt Cap + Bottom: Zhaga Book 18 <sup>5</sup> J = Top: ANSI 7-Pin w/ Long Life PE + Bottom: Zhaga Book 18 <sup>5</sup> Z = Top: None + Bottom: Book 18 <sup>5</sup>		
C = Compact			06	D1CA = Type IV				
			07	VICA = Type V				
			08					
			09					
			10					
			11					
			12					
			13					
		1 = 120V						
		2 = 208V						
		3 = 240V						
		4 = 277V						
		5 = 480V						
		D = 347V						

- 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 Powered. Contact factory if Non-Powered DALI BUS is required.
- When ordering Zhaga Book 18 receptacle, Dali-D4i (Option U4) must be selected. DALI control BUS Powered.
- Fusing not available with multi-volt (0 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.

# EVOLVE

**ERNC Gen A**  
LED Roadway Lighting

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DATE \_\_\_\_\_ TYPE \_\_\_\_\_  
CATALOG NUMBER \_\_\_\_\_

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	3020	2900	2650					173	B2-U0-G1	B2-U0-G1	B2-U0-G1
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	4010	3850	3530					172	B2-U0-G1	B2-U0-G1	B2-U0-G1
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	5020	4820	4410					167	B2-U0-G1	B3-U0-G1	B3-U0-G1
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	6050	5810	5320					165	B3-U0-G1	B3-U0-G1	B3-U0-G1
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	7100	6810	6240					163	B3-U0-G1	B3-U0-G1	B3-U0-G1

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

# EVOLVE

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LED Roadway Lighting

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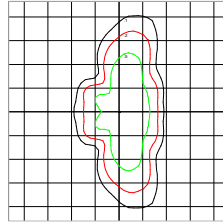
LUMEN LEVEL CODE	DIST.	TYPICAL INITIAL LUMENS			TYPICAL WATTAGE				LPW*	BUG RATINGS		
		4000K	3000K	2700K	120-277V		347-480V			4000K	3000K	2700K
					0-10V	DALI	0-10V	DALI				
08	A1CA	8000	7680	7040	50	50	53	54	161	B2-U0-G2	B2-U0-G2	B2-U0-G2
	B1CA	8000	7680	7040					161	B2-U0-G2	B2-U0-G2	B2-U0-G2
	C1CA	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	8000	7680	7040					161	B3-U0-G1	B3-U0-G1	B3-U0-G1
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	9100	8740	8010					153	B3-U0-G1	B3-U0-G2	B3-U0-G2
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	10060	9660	8860					149	B3-U0-G2	B3-U0-G2	B3-U0-G2
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	11100	10650	9760					149	B3-U0-G2	B3-U0-G2	B3-U0-G2
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	12090	11610	10640					145	B3-U0-G2	B4-U0-G2	B4-U0-G2
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	13000	12480	11440					144	B4-U0-G2	B4-U0-G2	B4-U0-G2

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

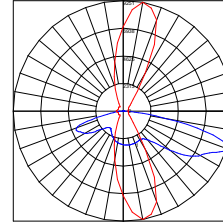
### ERNC - A1CA

Type II Narrow  
 Clear, Acrylic

13,000 lumens  
 4000K  
 ERNC\_13A1CA40\_IES



- Mounting Height at 30'
- Initial Footcandle at Grade

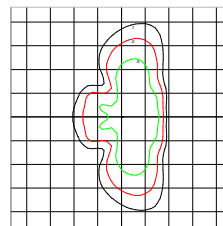


- Vertical Plane Through Horizontal Angles (80 - 260) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (70) (Through Max. Cd.)

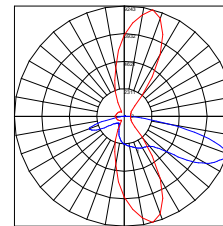
### ERNC - B1CA

Type II/III  
 Clear, Acrylic

13,000 lumens  
 4000K  
 ERNC\_13B1CA40\_IES



- Mounting Height at 30'
- Initial Footcandle at Grade

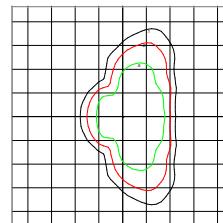


- Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (69) (Through Max. Cd.)

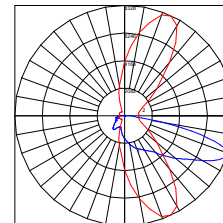
### ERNC - C1CA

Type III  
 Clear, Acrylic

12,870 lumens  
 4000K  
 ERNC\_13C1CA40\_IES



- Mounting Height at 30'
- Initial Footcandle at Grade

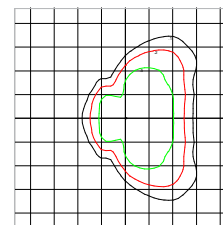


- Vertical Plane Through Horizontal Angles (65 - 245) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (69) (Through Max. Cd.)

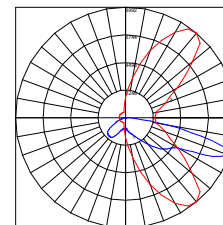
### ERNC - D1CA

Type IV  
 Clear, Acrylic

12,740 lumens  
 4000K  
 ERNC\_13D1CA40\_IES



- Mounting Height at 30'
- Initial Footcandle at Grade

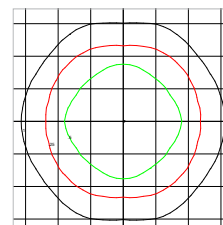


- Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (71) (Through Max. Cd.)

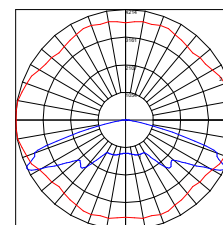
### ERNC - V1CA

Type V  
 Clear, Acrylic

TBD lumens  
 4000K  
 ERNC\_13V1CA40\_IES



- Mounting Height at 30'
- Initial Footcandle at Grade



- Vertical Plane Through Horizontal Angles (5 - 185) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (64) (Through Max. Cd.)

House Side Shields

ERNC Shields

PRODUCT CODE	DESCRIPTION
93315972	ELSHS-ERNC-BLCK
93315973	ELSHS-ERNC-GRAY



Street Side Shields

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

PRODUCT CODE	DESCRIPTION
93316242	ELSLRF-ERNC-BLCK
93316243	ELSLRF-ERNC-GRAY

Left Side Shield



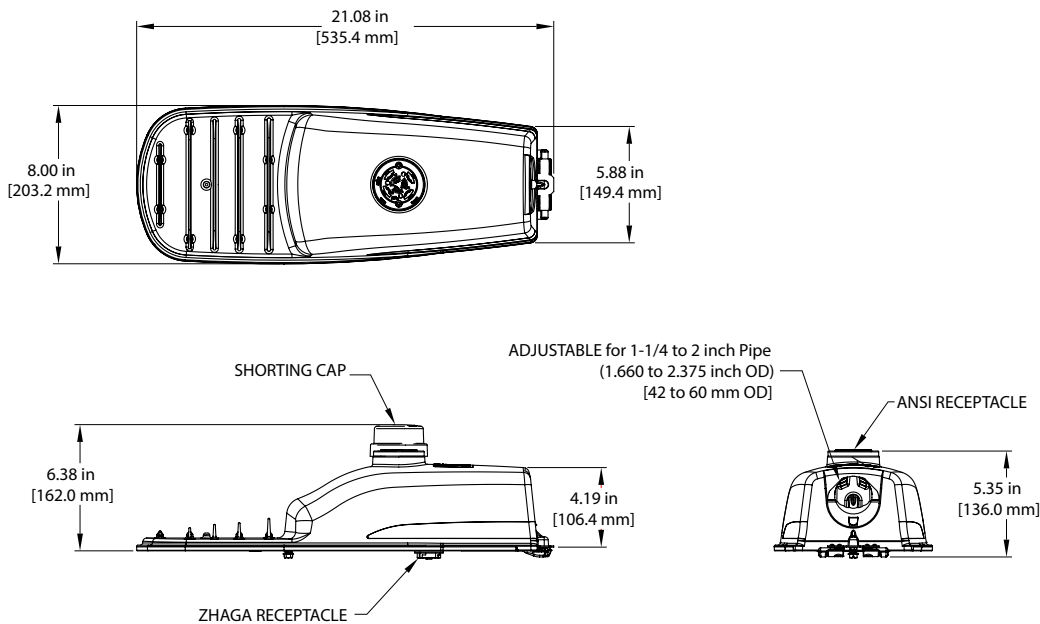
Right Side Shield



Front (Street Side) Shield



CUSTOMER NAME \_\_\_\_\_  
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CATALOG NUMBER \_\_\_\_\_



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	PEC0TL	Long Life PE 120-277V
93147530	PECHTL	Long Life PE 277-480V
73251	SCCL-PECTL	Shorting Cap