

ERLC Gen 7 Cobra Head LED Roadway Lighting

The Evolve® LED Roadway ERLC Luminaire is optimized utilizing advanced LED reflective optical system for local, collector and major roadway. The modern design incorporates the heat sink directly into the unit for heat transfer to prolong LED life. The ERLC is available with legacy NEMA/ANSI 7-Pin receptacle and/or Zhaga Book 18 receptacle for easy integration with asset management devices and sensors.

Construction

Housing:	Aluminum die cast enclosure with integral heat sink for maximum heat transfer Standard Tool-less entry
Lens:	Impact resistant tempered glass Visual Comfort Lens available
Paint:	Corrosion resistant powder paint, ≥ 2.0 mil thickness Standard* = Black, Dark Bronze, Gray RAL & custom colors available. Optional = Coastal Finish
Weight:	8.5 lbs (3.8 kgs)

*Per ANSI C136.56

Optical System

Lumens:	2,510 - 8,000
Distribution:	Type II, III and IV
Efficacy:	129-158 LPW
CCT:	2700K, 3000K, 4000K
CRI:	≥ 70

Electrical

Input Voltage:	120-277V
Input Frequency:	50/60Hz
Power Factor:	≥ 90% at rated watts
Total Harmonic Distortion:	≤ 20% at rated watts

Surge Protection*

STANDARD	OPTIONAL
10kV/5kA	Secondary 10kV/5kA (R Option) or Secondary 20kV/10kA (T Option)

*Per ANSI C136.2-2023

Lumen Maintenance

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

LUMEN CODES	LXX(10K) @ HOURS			
	25,000 HR	50,000 HR	75,000 HR	100,000 HR
03-05	99	97	96	93
06-08	97	95	94	90

Note: Projected Lxx based on LM80 (≥ 17,000 hour testing). Accepted industry tolerances apply to initial luminous flux and lumen maintenance measurements

Ratings

Operating Temperature:	-10°C to 50°C 45°C Max for 08 Lumen Level with Dali D4i (U4 Option)
Vibration:	3G per ANSI C136.2
LM-79:	Testing in accordance with IES Standards
EMI:	Title 47 CFR Part 15 Class A
RoHS:	Complies with the material restrictions of RoHS

Controls

Dimming:	Standard - 0-10V Optional - DALI D4i (U4 Option)
Sensors:	Photo Electric Sensors (PE) available LightGrid+™ Compatible Zhaga Book 18 Sensor Compatible

Warranty

5 Year (Standard)

10 Year (Optional)



Ordering Information

ERLC

PROD. ID	VOLTAGE	LUMEN CODE	DISTRIBUTION ¹	CCT	RECEPTACLES ²	COLOR	OPTIONS
E = Evolve	0 = 120-277V	03	Standard Glass	27 = 2700K	Top Only	GRAY = Gray	C1 = Captive Door
R = Roadway		04	A7 = Type II Narrow	30 = 3000K	1 = Top: None	BLCK = Black	G = Internal Bubble Level
L = Local		05	B7 = Type II	40 = 4000K	A = Top: ANSI 7-Pin ^{3,4}	DKBZ = Dark Bronze	M1 = Magnapak (23 units/box) ⁶
C = Compact		06	C7 = Type III		D = Top: ANSI 7-Pin w/ Shrt Cap ^{3,4}		R = 10kV/5kA Secondary SPD
		07	D7 = Type IV		E = Top: ANSI 7-Pin w/ Long Life PE ^{3,4}		T = 20kV/10kA Secondary SPD ¹⁰
		08					U4 = DALI D4i ^{3,4,5,7,10}
			Visual Comfort Lens		Top & Bottom		V1 = Field Adjustable Module ^{7,10}
			J7 = Type II Narrow		G = Top : ANSI 7-Pin +Bottom: Zhaga Book 18 ⁵		Y = Coastal Finish ⁸
			K7 = Type II		H = Top : ANSI 7-pin w/Shrt Cap + Bottom: Zhaga Book 18 ⁵		XXX = Special Options
			L7 = Type III		J = Top: ANSI 7-Pin w/ Long Life PE + Bottom: Zhaga Book 18 ⁵		
			M7 = Type IV		Z = Top: None+ Bottom: Book 18 ⁵		

- Nominal IES Type classing subject to typical variation, individual units may differ, review IES files for individual sku typing.
- 7-Pin receptacle per ANSI C136.41 and/or 4-Pin receptacle per Zhaga Book 18.
- 7 Pin receptacle wired for 0-10V control unless Dali (U4) selected.
- If U4 option is selected and A, D or E (7-Pin) receptacle option is selected, the D4i driver is configured with the DALI Integrated Power BUS enabled. Contact factory if DALI is desired with Integrated Power BUS disabled
- When ordering Zhaga Book 18 receptacle, Dali-D4i (U4 Option) must be selected. DALI Integrated Power BUS enabled.
- Option M1 provides for multiple fixtures in single palletized container. Single Pack box is standard.
- Field Adjustable Module (V1 Option) not available with Dali (U4 Option).
- Coastal Finish (Y Option) is recommended for installations within 750 feet from coast. Lead time varies, check with factory.
- Fusing available for limited, single input voltage, non-DALI skus. Contact techsupport@currentlighting.com for specifics.
- 20kV Secondary SPD (T Option) not available with Field Adjustable Module (V1 Option).

Suggested HID Replacement

Approximately 2,500-8,000 lumens to replace 50-100W HPS
Cobra-head

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

LUMEN OUTPUT	DISTRIBUTION	LUMENS			WATTAGE	LPW	BUG RATINGS		
		4000K	3000K	2700K	120-277V		4000K	3000K	2700K
03	A7	3000	2900	2700	20	158	B1-U0-G1	B1-U0-G1	B1-U0-G1
	B7	3000	2900	2700			B1-U0-G1	B1-U0-G1	B1-U0-G1
	C7	3000	2900	2700			B1-U0-G1	B1-U0-G1	B1-U0-G1
	D7	3000	2900	2700			B1-U0-G1	B1-U0-G1	B1-U0-G1
	J7	2790	2690	2510		147	B1-U0-G1	B1-U0-G1	B1-U0-G1
	K7	2790	2690	2510			B1-U0-G1	B1-U0-G1	B1-U0-G1
	L7	2790	2690	2510			B1-U0-G1	B1-U0-G1	B1-U0-G1
	M7	2790	2690	2510			B1-U0-G1	B1-U0-G1	B1-U0-G1
04	A7	4000	3800	3500	27	155	B1-U0-G1	B1-U0-G1	B1-U0-G1
	B7	4000	3800	3500			B1-U0-G1	B1-U0-G1	B1-U0-G1
	C7	4000	3800	3500			B1-U0-G1	B1-U0-G1	B1-U0-G1
	D7	4000	3800	3500			B1-U0-G1	B1-U0-G1	B1-U0-G1
	J7	3720	3530	3250		144	B1-U0-G1	B1-U0-G1	B1-U0-G1
	K7	3720	3530	3250			B1-U0-G1	B1-U0-G1	B1-U0-G1
	L7	3720	3530	3250			B1-U0-G1	B1-U0-G1	B1-U0-G1
	M7	3720	3530	3250			B1-U0-G1	B1-U0-G1	B1-U0-G1
05	A7	5000	4800	4400	34	151	B1-U0-G1	B1-U0-G1	B1-U0-G1
	B7	5000	4800	4400			B1-U0-G1	B1-U0-G1	B1-U0-G1
	C7	5000	4800	4400			B1-U0-G1	B1-U0-G1	B1-U0-G1
	D7	5000	4800	4400			B1-U0-G1	B1-U0-G1	B1-U0-G1
	J7	4650	4460	4090		140	B1-U0-G1	B1-U0-G1	B1-U0-G1
	K7	4650	4460	4090			B1-U0-G1	B1-U0-G1	B1-U0-G1
	L7	4650	4460	4090			B1-U0-G1	B1-U0-G1	B1-U0-G1
	M7	4650	4460	4090			B1-U0-G1	B1-U0-G1	B1-U0-G1
06	A7	6000	5700	5300	42	146	B2-U0-G2	B1-U0-G1	B1-U0-G1
	B7	6000	5700	5300			B1-U0-G2	B1-U0-G2	B1-U0-G1
	C7	6000	5700	5300			B1-U0-G2	B1-U0-G2	B1-U0-G2
	D7	6000	5700	5300			B1-U0-G2	B1-U0-G2	B1-U0-G1
	J7	5580	5300	4920		136	B2-U0-G1	B1-U0-G1	B1-U0-G1
	K7	5580	5300	4920			B1-U0-G1	B1-U0-G1	B1-U0-G1
	L7	5580	5300	4920			B1-U0-G2	B1-U0-G1	B1-U0-G1
	M7	5580	5300	4920			B1-U0-G2	B1-U0-G1	B1-U0-G1

For additional information on ERLC IES files, please click one of the following links:

CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

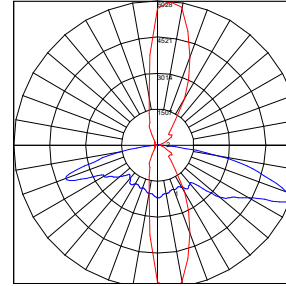
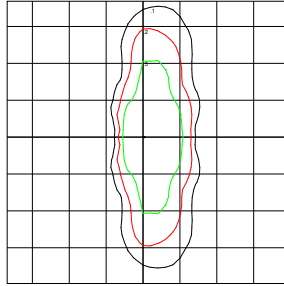
CATALOG NUMBER _____

LUMEN OUTPUT	DISTRIBUTION	LUMENS			WATTAGE	LPW	BUG RATINGS		
		4000K	3000K	2700K	120-277V		4000K	3000K	2700K
07	A7	7000	6700	6200	51	141	B2-U0-G2	B2-U0-G2	B2-U0-G2
	B7	7000	6700	6200			B2-U0-G2	B1-U0-G2	B1-U0-G2
	C7	7000	6700	6200			B2-U0-G2	B1-U0-G2	B1-U0-G2
	D7	7000	6700	6200			B1-U0-G2	B1-U0-G2	B1-U0-G2
	J7	6510	6230	5760		131	B2-U0-G1	B2-U0-G1	B2-U0-G1
	K7	6510	6230	5760			B2-U0-G1	B2-U0-G1	B1-U0-G1
	L7	6510	6230	5760			B2-U0-G2	B2-U0-G2	B1-U0-G2
	M7	6510	6230	5760			B1-U0-G2	B1-U0-G2	B1-U0-G2
08	A7	8000	7600	7100	60	139	B2-U0-G2	B2-U0-G2	B2-U0-G2
	B7	8000	7600	7100			B2-U0-G2	B2-U0-G2	B2-U0-G2
	C7	8000	7600	7100			B2-U0-G2	B2-U0-G2	B2-U0-G2
	D7	8000	7600	7100			B1-U0-G2	B1-U0-G2	B1-U0-G2
	J7	7440	7060	6600		129	B2-U0-G1	B2-U0-G1	B2-U0-G1
	K7	7440	7060	6600			B2-U0-G2	B2-U0-G2	B2-U0-G1
	L7	7440	7060	6600			B2-U0-G2	B2-U0-G2	B2-U0-G2
	M7	7440	7060	6600			B1-U0-G2	B1-U0-G2	B1-U0-G2

For additional information on ERLC IES files, please click one of the following links:

ERLC
Type II Narrow

8,000 Lumens
4000K
ERLC_08A740___IES

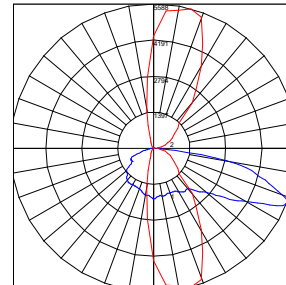
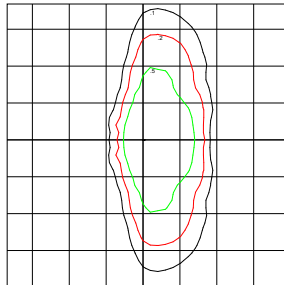


- Mounting Height at 30'
- Initial Footcandle at grade

- Vertical Plane Through Horizontal Angles (85 - 265) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (67) (Through Max. Cd.)

ERLC
Type II Wide

8,000 Lumens
4000K
ERLC_08B740___IES

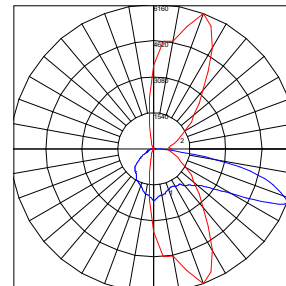
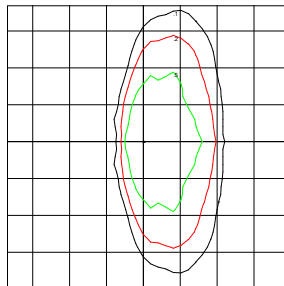


- Mounting Height at 30'
- Initial Footcandle at grade

- Vertical Plane Through Horizontal Angles (75 - 255) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ERLC
Type III

8,000 Lumens
4000K
ERLC_08C740___IES

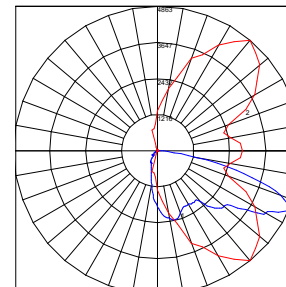
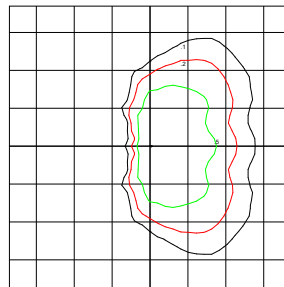


- Mounting Height at 30'
- Initial Footcandle at grade

- Vertical Plane Through Horizontal Angles (70 - 250) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (68) (Through Max. Cd.)

ERLC
Type IV Short

8,000 Lumens
4000K
ERLC_08D740___IES

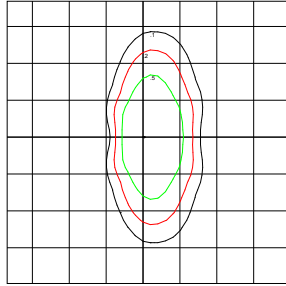


- Mounting Height at 30'
- Initial Footcandle at grade

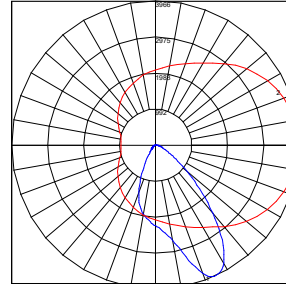
- Vertical Plane Through Horizontal Angles (50 - 230) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (66) (Through Max. Cd.)

ERLC
Type II Narrow
Visual Comfort Lens

7,440 Lumens
4000K
ERLC_08J740_...IES



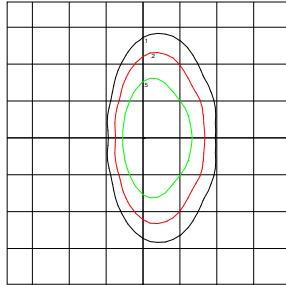
- Mounting Height at 30'
- Initial Footcandle at grade



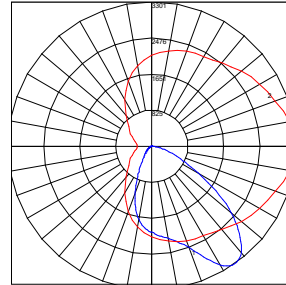
- Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (25) (Through Max. Cd.)

ERLC
Type II Wide
Visual Comfort Lens

7,440 Lumens
4000K
ERLC_08K740_...IES



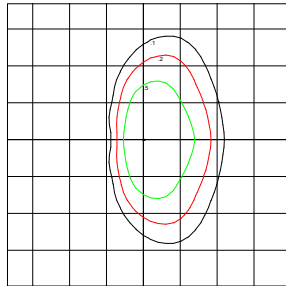
- Mounting Height at 30'
- Initial Footcandle at grade



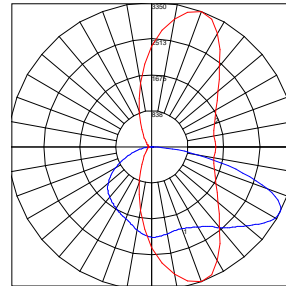
- Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (35) (Through Max. Cd.)

ERLC
Type III
Visual Comfort Lens

7,440 Lumens
4000K
ERLC_08L740_...IES



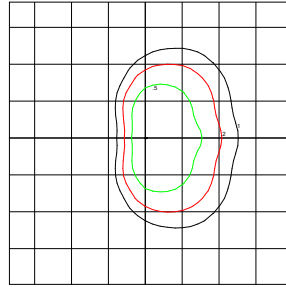
- Mounting Height at 30'
- Initial Footcandle at grade



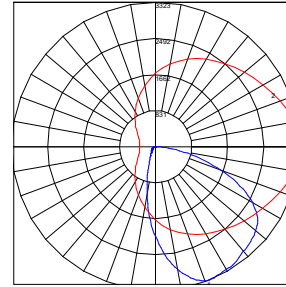
- Vertical Plane Through Horizontal Angles (70 - 250) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (63) (Through Max. Cd.)

ERLC
Type IV Short
Visual Comfort Lens

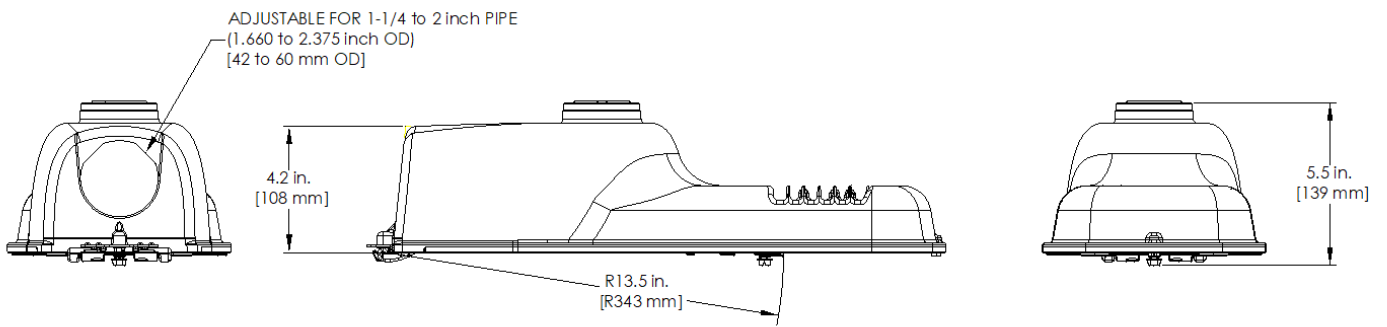
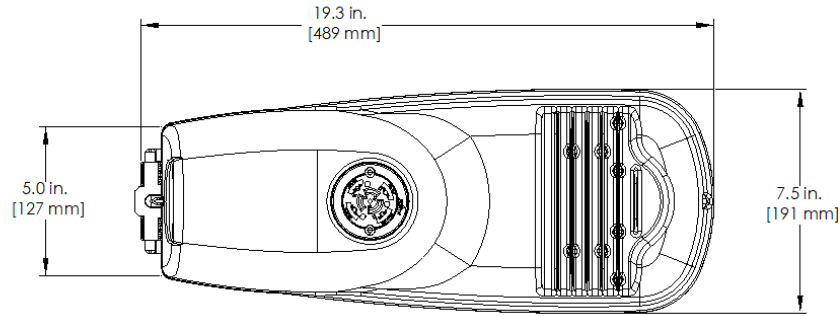
7,440 Lumens
4000K
ERLC_08M740_...IES



- Mounting Height at 30'
- Initial Footcandle at grade



- Vertical Plane Through Horizontal Angles (85 - 265) (Through Max. Cd.)
- Horizontal Cone Through Vertical Angle (67) (Through Max. Cd.)



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

0.3 sq ft max (0.029 sq m) (Max without shield)

Weight

Approximate net weight: 8.5 lbs (3.8 kgs)

Accessories

SAP NUMBER	PART NUMBER	DESCRIPTION
93029237	PED-MV-LED-7	ANSI C136.41 Dimming PE, 120-277V
28299	PEC0TL	Standard 120-277V
73251	SCCL-PECTL	Shorting Cap

Networked Lighting Control



Current's **LightGrid+™** Outdoor Lighting Control System is designed for Street and Roadway Applications. It enables remote monitoring, control, and asset management of a single fixture or a group of fixtures through a web enabled Central Management System.

HOUSE SIDE SHIELDS

ERLC Shields

Product Code:	93110037	Description:	ELSHS-ERLC-BLCK
Product Code:	93110038	Description:	ELSHS-ERLC-GRAY
			

STREET SIDE SHIELDS

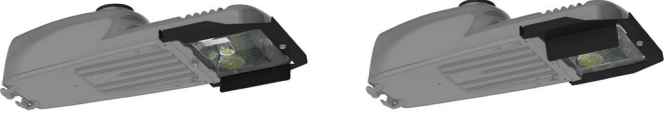
ERLC Shields

Product Code:	93132372	Description:	ELSFS-ERLC-BLCK-10
Product Code:	93132373	Description:	ELSFS-ERLC-BLCK-15
Product Code:	93134760	Description:	ELSFS-ERLC-BLCK-20
			

SIDE SHIELDS (L&R)

Shipped as a kit - L & R can be used independently

ERLC Shields

Product Code:	93132374	Description:	ELS-ERLC-LEFTRIGHTSIDEKIT-BLCK-10
			

FOOTNOTES:

- 1) 10 = 1" Shield Depth; 15 = 1.5" Shield Depth; 20 = 2" Shield Depth
- 2) Black is recommended to reduce potential for glare coming off of the shield
- 3) Use "House Side" Shield to block light trespass behind the pole
- 4) Use "Street Side" / Front Shield to block light trespass across the street