Evolve®



CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

ERLC Cobra Head

LED Roadway Lighting

The Evolve® LED Roadway ERLC Luminaire is optimized utilizing advanced LED reflective optical system for local, collector and major roadways. The modern design incorporates the heat sink directly into the unit for heat transfer to prolong LED life.

Construction

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

Optical System

Lumens:	2,670 - 9,200
Distribution:	Type II Narrow, II/III3, III, V and V Short
Efficacy:	120-172 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 C136.2-2018

Not all product variations listed on this page are DLC qualified.
Visit www.designlights.org/search to confirm qualifications.

UL Listed · UL CERTIFIED · UL1598 · DLC LISTED · IP66 · IK08 · CONTROLS ENABLED · ida DARK SKY APPROVED

Lumen Maintenance

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

DISTRIBUTIONS	LUMEN CODES	LXX(10K) @ HOURS 25,000 HR	50,000 HR	60,000 HR
Asymmetric A6, B6, C6, D6	03, 04	99	99	99
	05, 06, 07	98	97	96
	08	93	86	83
Symmetric V6	04	96	94	93
	05	94	90	89
Symmetric Short S6	04	96	95	94
	05, 06, 07, 08, 09	95	92	91

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:	-40°C to 50°C
Vibration:	3G per ANSI C136.2-2023
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 (Option U) ☐
Sensors:	Photo Electric Sensors (PE) available LightGrid+™ Compatible

Warranty

☐ 5 Year (Standard) ☐ 10 Year (Optional)

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Ordering Information

ERLC	0	08	B6	40	A	GRAY	LRX
_ _ _ _	_	_ _	_ _	_ _	_	_ _ _ _	_ _ _

PROD. ID	VOLTAGE[1]	LUMENS	DISTRIBUTION	CCT	CONTROLS PER ANSI C136.41	COLOR	OPTIONS
E = Evolve	0 = 120-277[1]	NOT ALL COMBINATIONS OF LUMENS AND DISTRIBUTIONS ARE AVAILABLE: REFER TO CLAIMS TABLES FOR AVAILABLE COMBINATIONS		27 = 2700K	A = 7-Pin Receptacle	BLCK = Black	B = Tether
R = Roadway				30 = 3000K	D = 7-Pin Receptacle with Shorting Cap	DKBZ = Dark Bronze	C1 = Captive Door
L = Local		03[2]=3,000 lm	A6 = Type II Narrow	40 = 4000K	E = 7 Pin Receptacle with Long Life non-Dimming PE Control	GRAY = Gray	F = Fusing
C = Compact	Select Single Voltages ONLY if Fusing is required	04=4000 lm	B6 = Type II/III[3]	50 = 5000K	**Note: 0-10V control standard unless DALI Option "U" requested**	WHTE= White	G = Internal Bubble Level
	1 = 120	05=5000 lm	C6 = Type III				L = Tool-Less Entry
	2 = 208	06=6000 lm	D6 = Type IV				M1 = MagnaPak[4]
	3 = 240	08[2]=8000 lm	S6 = Type V Short				R = Secondary 10kV/5kA SPD
	4 = 277	09[2]=9000 lm	V6 = Type V				T = Secondary 20kV/10kA SPD
							U = DALI Programmable[5]
							V1 = Field Adjustable Module[6]
							Y = Coastal Finish[7]
							XXX = Special Options

1 **Specific input voltage required to determine single vs double fused OTHERWISE selection of the inclusive voltage range (0) is required**
2 **Not Available in all Distribution Types, Refer to Claims table for availability**
3 **See ISO plots of the B6 Distribution**
4 **Option M1 provides for MagnaPak – 40 Fixtures per MagnaPak Container. Single Pack box is standard**
5 **Compatible with LightGrid+**
6 **Not available with DALI "U" option**
7 **Recommended for installations within 750 feet from coast**

Suggested HID Replacement

Approximately 2,000 - 7,000 lumens to replace 50-100W HPS Cobra-head

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

PREVIOUS	OPTICAL PATTERN	LATEST	NEW OPTICAL PATTERN
A5	Type II Narrow	A6	Type II Narrow
B5	Type II Wide	B6	Type II/III
C5	Type III	C6	Type III
New	Type IV	D6	Type IV
V4	Type V	V6	Type V
New	Type V Short	S6	Type V Short

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.

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LUMEN OUTPUT	DIST.	LUMENS			WATTAGE	BUG RATINGS		
		4000K	3000K	2700K	120-277V	4000K/5000K	3000K	2700K
03	A6	3000	2880	2670	22	B1-U0-G1	B1-U0-G1	B1-U0-G1
	B6	3000	2880	2670	22	B1-U0-G1	B1-U0-G1	B1-U0-G1
	C6	3000	2880	2670	22	B1-U0-G1	B1-U0-G1	B1-U0-G1
	D6	3000	2880	2670	22	B1-U0-G1	B1-U0-G1	B1-U0-G1
04	A6	4000	3840	3560	28	B1-U0-G1	B1-U0-G1	B1-U0-G1
	B6	4000	3840	3560	28	B1-U0-G1	B1-U0-G1	B1-U0-G1
	C6	4000	3840	3560	28	B1-U0-G1	B1-U0-G1	B1-U0-G1
	D6	4000	3840	3560	28	B1-U0-G1	B1-U0-G1	B1-U0-G1
	S6	4000	4268	4136	26	B2-U0-G0	B2-U0-G0	B2-U0-G0
	V6	4000	3880	3760	28	B2-U0-G0	B2-U0-G0	B2-U0-G0
05	A6	5000	4800	4450	35	B1-U0-G1	B1-U0-G1	B1-U0-G1
	B6	5000	4800	4450	35	B1-U0-G1	B1-U0-G1	B1-U0-G1
	C6	5000	4800	4450	35	B1-U0-G1	B1-U0-G1	B1-U0-G1
	D6	5000	4800	4450	35	B2-U0-G1	B1-U0-G1	B2-U0-G1
	S6	5000	4850	4700	29	B2-U0-G0	B2-U0-G0	B2-U0-G0
	V6	5000	4850	4700	37	B2-U0-G1	B2-U0-G0	B2-U0-G0
06	A6	6000	5760	5340	43	B2-U0-G2	B1-U0-G1	B1-U0-G1
	B6	6000	5760	5340	43	B1-U0-G2	B1-U0-G2	B1-U0-G1
	C6	6000	5760	5340	43	B1-U0-G2	B1-U0-G2	B1-U0-G2
	D6	6000	5760	5340	43	B1-U0-G2	B1-U0-G2	B1-U0-G2
	S6	6000	5820	5640	36	B3-U0-G0	B2-U0-G0	B2-U0-G0
	V6	6000	5820	5640	47	B2-U0-G1	B2-U0-G1	B2-U0-G1
07	A6	6800	6528	6052	52	B2-U0-G0	B2-U0-G2	B2-U0-G2
	B6	6800	6528	6052	52	B1-U0-G2	B1-U0-G2	B1-U0-G2
	C6	6800	6528	6052	52	B1-U0-G2	B1-U0-G2	B1-U0-G2
	D6	6800	6528	6052	52	B1-U0-G2	B1-U0-G2	B1-U0-G2
	S6	7000	6790	6580	44	B3-U0-G1	B3-U0-G1	B3-U0-G1
	V6	7000	6790	6580	59	B2-U0-G1	B2-U0-G1	B2-U0-G1
08	A6	8140	7536	6987	62	B2-U0-G2	B2-U0-G2	B2-U0-G2
	B6	8140	7536	6987	62	B2-U0-G2	B2-U0-G2	B2-U0-G2
	C6	7850	7536	6987	62	B2-U0-G2	B2-U0-G2	B2-U0-G2
	D6	7850	7536	6987	52	B1-U0-G2	B1-U0-G2	B1-U0-G2
	S6	8000	7760	7520	44	B3-U0-G1	B3-U0-G1	B3-U0-G1
09	S6	9200	8924	8648	60	B3-U0-G1	B3-U0-G1	B3-U0-G1

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

Non-Shielded Shielded

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DATE _____ TYPE _____
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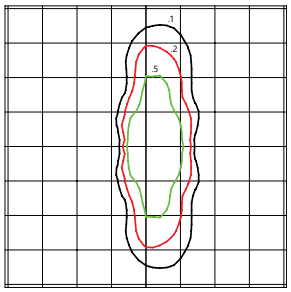
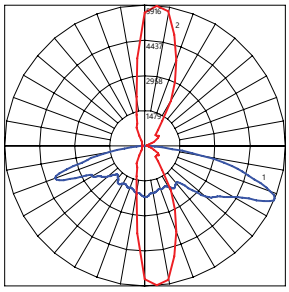
ERLC
Type II Narrow

7,850 Lumens
4000K
ERLC_08A640___.IES



- Mounting Height at 30'
- Initial Footcandle at Grade

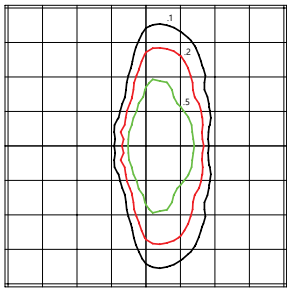


— Vertical plane at max Cd horiz. angle
— Horizontal cone at max Cd vert. angle

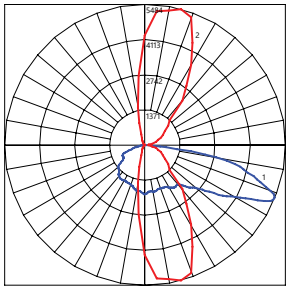
ERLC
Type II/III[3]

7,850 Lumens
4000K
ERLC_08B640___.IES

[3] This optic is designed to address a Roadway Photometric Application and may classify as Type II or III.



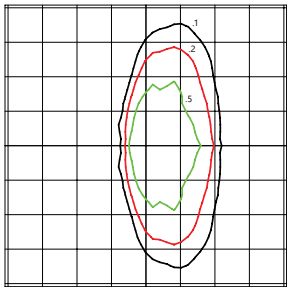
- Mounting Height at 30'
- Initial Footcandle at Grade



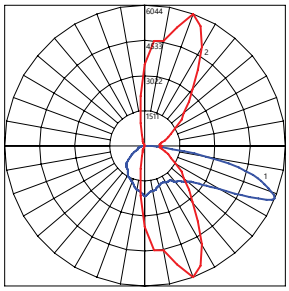
— Vertical plane at max Cd horiz. angle
— Horizontal cone at max Cd vert. angle

ERLC
Type III

7,850 Lumens
4000K
ERLC_08C640___.IES



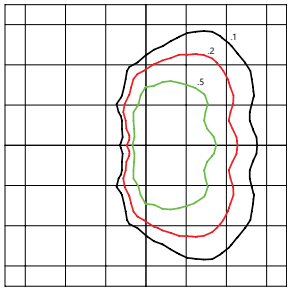
- Mounting Height at 30'
- Initial Footcandle at Grade



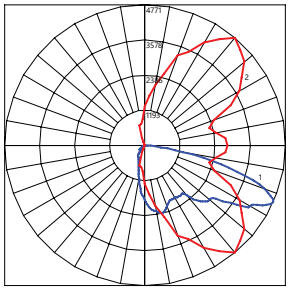
— Vertical plane at max Cd horiz. angle
— Horizontal cone at max Cd vert. angle

ERLC
Type IV

7,850 Lumens
4000K
ERLC_08D640___.IES



- Mounting Height at 30'
- Initial Footcandle at Grade



— Vertical plane at max Cd horiz. angle
— Horizontal cone at max Cd vert. angle

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CUSTOMER NAME _____
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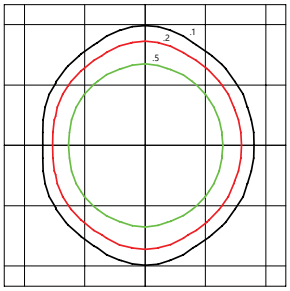
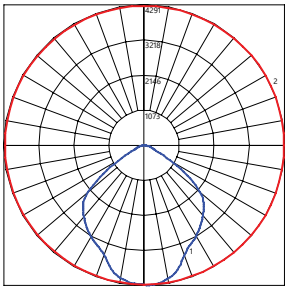
ERLC
Type VS

9,200 Lumens
4000K
ERLC_09S640___.IES

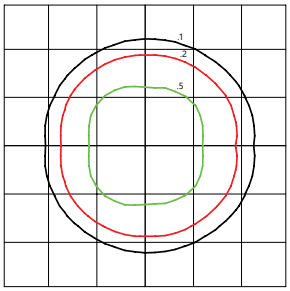


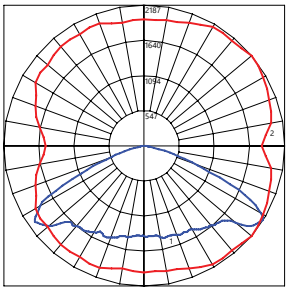


- Mounting Height at 30'
- Initial Footcandle at Grade

— Vertical plane at max Cd horiz. angle
— Horizontal cone at max Cd vert. angle

ERLC
Type V
7,000 Lumens
4000K
ERLC_07V640___.IES





- Mounting Height at 30'
- Initial Footcandle at Grade

— Vertical plane at max Cd horiz. angle
— Horizontal cone at max Cd vert. angle

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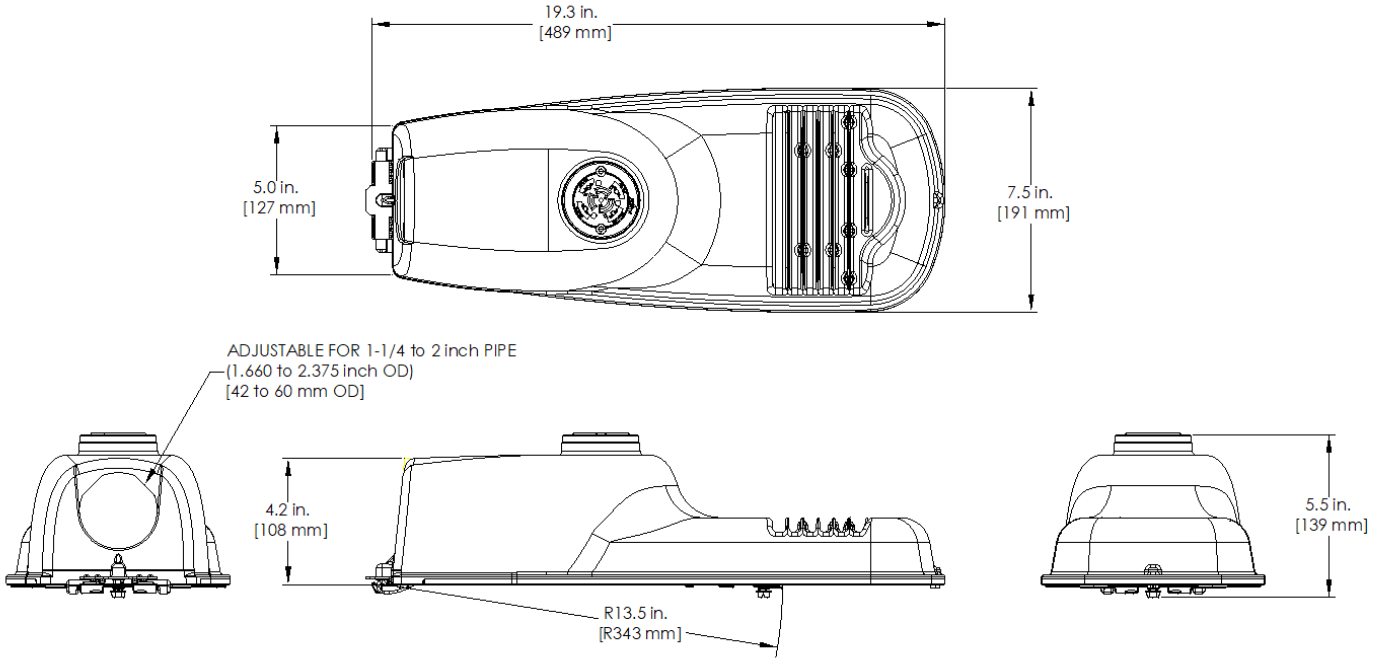

Mounting

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)

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
93029238	PED-347-LED-7	ANSI C136.41 Dimming PE, 347V
93029239	PED-480-LED-7	ANSI C136.41 Dimming PE, 480V
28299	PECOTL	Standard 120-277V
93147530	PECHTL	Standard 347-480V
73251	SCCL-PECTL	Shorting Cap

See pages 22 & 23 for more detailed information on ERLC Shields.

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.

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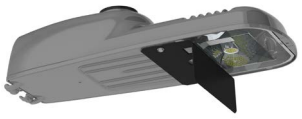
HOUSE SIDE SHIELDS

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 light trespass across the street

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