

CUSTOMER NAME _____
 PROJECT NAME _____
 DATE _____ TYPE _____
 CATALOG NUMBER _____



ERLH Cobra Head

LED Roadway Lighting

The Evolve® LED Roadway ERLH 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 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:	15.15 lbs (6.9 kgs) w/ 2 Bolt Slipfitter 15.85 lbs (7.2 kgs) w/ 4 Bolt Slipfitter

Optical System

Lumens:	10,000-16,000
Distribution:	Type II Narrow, Type II Wide, Type III, Type IV and Type II Enhanced Back Light
Efficacy:	110-143 LPW
CCT:	2700K, 3000K, 4000K
CRI:	≥70

Electrical

Input Voltage:	120-277V or 347-480V
Input Frequency:	50/60Hz
Power Factor:	≥ 90% at rated watts
Total Harmonic Distortion:	≤ 20% at rated watts

Surge Protection*

STANDARD	OPTIONAL
10kV/5kA	<input type="checkbox"/> Secondary 10kV/5kA (R Option) or <input type="checkbox"/> Secondary 20kV/10kA (T Option)

*Per ANSI C136.2-2018

Lumen Maintenance

Projected Lxx per IES TM-21-11 at

LUMEN CODES	DISTRIBUTIONS	LXX(10K) @ HOURS		
		25,000 HR	50,000 HR	60,000 HR
A3, B3, C3, D3, E3	10,11	L97	L96	L96
A3, B3, C3, D3, E3	13,14	L95	L93	L92
A3, B3, C3, D3, E3	15,16	L94	L91	L91

Ratings

Operating Temperature:	ERLH Lumen outputs 10-11, 13 (-40°C to 50°C) ERLH Lumen outputs 14-16 (-40°C to 45°C)
Vibration:	3G per ANSI C136.31-2018
LM-79:	Testing in accordance with IES Standards

Controls

Dimming:	Standard - 0-10V Optional - DALI (Option U)
Sensors:	Photo Electric Sensors (PE) available LightGrid+™ Compatible

Warranty

5 Year (Standard)

10 Year (Optional)



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

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ERLH

PROD. ID	VOLTAGE	LUMENS	DISTRIBUTION	CCT	CONTROLS PER ANSI C136.41	COLOR	OPTIONS	
E = Evolve	0 = 120-277V ¹	10 = 10000 lm	A3 = Type II Narrow	27 = 2700K ³	A = 7-Pin Receptacle	BLCK = Black	A = 4 Bolt Slipfitter ⁴	
R = Roadway	H = 347-480V ¹	11 = 11000 lm	B3 = Type II Wide	30 = 3000K ³	D = 7-Pin Receptacle with Shorting Cap	DKBZ = Dark Bronze	B = Tether	
L = Local		13 = 13000 lm	C3 = Type III	40 = 4000K	E = 7 Pin Receptacle with Long Life non-Dimming PE Control ⁴	GRAY = Gray	F = Fusing	
H = High Output	1 = 120V	14 = 14000 lm	D3 = Type IV		Note: 0-10V control standard unless DALI Option "U" requested	WHTE= White	G = Internal Bubble Level	
	2 = 208V	15 = 15000 lm	E3 = Type II Enhanced Back Light	I = Optional IP66 Optical				
	3 = 240V	16 = 16000 lm		L = Tool-Less Entry				
	4 = 277V			R = Secondary 10kV/5kA SPD				
	5 = 480V			T = Secondary 20kV/10kA SPD				
	D = 347V			U = DALI Programmable ^{5,6}	V1 = Field Adjustable Module ⁹	X = Single Pack ⁷	Y = Coastal Finish ⁸	XXX = Special Options

¹ Not Available with Fusing
² Nominal IES Type classing subject to typical variation, individual units may differ
³ Select 2700K or 3000K CCT for IDA approved units
⁴ Lead time varies, Contact Factory
⁵ Compatible with LightGrid+™
⁶ Not available with 347, 480V, or 347-480V.
⁷ Option provides single pack box per fixture. Standard packaging = 23 units per MagnaPak Container
⁸ Recommended for installations within 750 feet from coast. Lead time varies, check with factory.
⁹ Not available with DALI "U" option

SUGGESTED HID REPLACEMENT

- Approximately 8,500 -11,500 lumens to replace 200W HPS Cobra-head
- Approximately 11,500 -14,000 lumens to replace 250W 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
A1, B1	Extra Narrow/Narrow Asymmetric	A3	Type II Narrow
C1, E1	Asymmetric Short/Medium	B3	Type II Wide
D1, G1	Asymmetric Forward/Extra Wide	C3	Type III
F1	Asymmetric Wide	D3	Type IV
N/A	N/A	E3	Type II Enhanced Back Light

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	DISTRIBUTION	LUMENS			WATTAGE	BUG RATINGS		
		4000K	3000K	2700K	120-277V 347-480V	4000K	3000K	2700K
10	A3	10000	9600	9300	82	B2-U0-G2	B2-U0-G2	B2-U0-G2
	B3					B2-U0-G2	B2-U0-G2	B2-U0-G2
	C3					B2-U0-G3	B2-U0-G2	B2-U0-G2
	D3					B1-U0-G3	B1-U0-G2	B1-U0-G2
	E3					B3-U0-G3	B3-U0-G3	B3-U0-G3
11	A3	11500	11000	10700	98	B3-U0-G3	B2-U0-G2	B2-U0-G2
	B3					B3-U0-G3	B2-U0-G2	B2-U0-G2
	C3					B2-U0-G3	B2-U0-G3	B2-U0-G3
	D3					B1-U0-G3	B1-U0-G2	B1-U0-G2
	E3					B3-U0-G3	B3-U0-G3	B3-U0-G3
13	A3	13000	12500	12100	111	B3-U0-G3	B3-U0-G3	B3-U0-G3
	B3					B2-U0-G3	B2-U0-G3	B2-U0-G3
	C3					B2-U0-G3	B2-U0-G3	B2-U0-G3
	D3					B2-U0-G3	B2-U0-G3	B1-U0-G3
	E3					B3-U0-G3	B3-U0-G3	B3-U0-G3
14	A3	14000	13400	13000	122	B3-U0-G3	B3-U0-G3	B3-U0-G3
	B3					B2-U0-G3	B2-U0-G3	B2-U0-G3
	C3					B2-U0-G3	B2-U0-G3	B2-U0-G3
	D3					B2-U0-G3	B2-U0-G3	B2-U0-G3
	E3					B3-U0-G3	B3-U0-G3	B3-U0-G3
15	A3	15000	14400	13900	136	B3-U0-G3	B3-U0-G3	B3-U0-G3
	B3					B2-U0-G3	B2-U0-G3	B2-U0-G3
	C3					B2-U0-G3	B3-U0-G3	B2-U0-G3
	D3					B2-U0-G3	B2-U0-G3	B2-U0-G3
	E3					B3-U0-G3	B3-U0-G3	B3-U0-G3

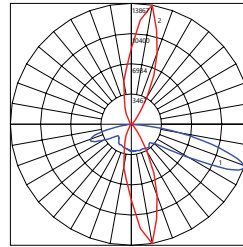
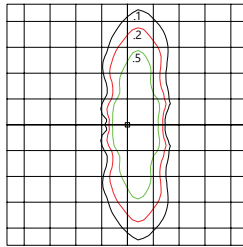
For additional information on ERLH IES files, please click one of the following links:

[Non-Shielded](#)

[Shielded](#)

ERLH
Type II Narrow

13,000 Lumens
4000K
ERLH_13A340___IES

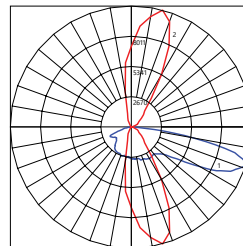
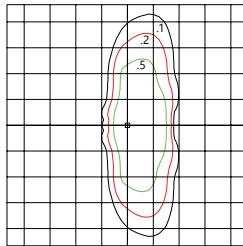


- Mounting Height at 30'
- Initial Footcandle at Grade

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

ERLH
Type II Wide

13,000 Lumens
4000K
ERLH_13B340___IES

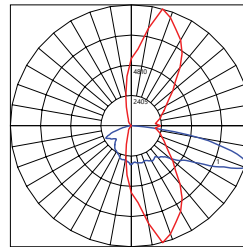
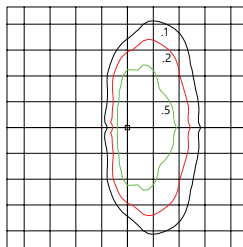


- Mounting Height at 30'
- Initial Footcandle at Grade

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

ERLH
Type III

13,000 Lumens
4000K

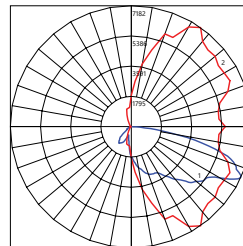
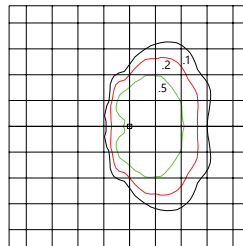


- Mounting Height at 30'
- Initial Footcandle at Grade

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

ERLH
Type IV

13,000 Lumens
4000K
ERLH_13D340___IES

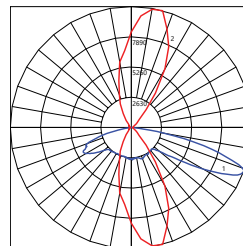
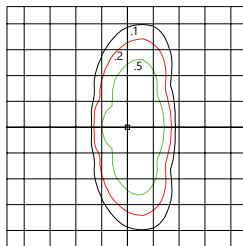


- Mounting Height at 30'
- Initial Footcandle at Grade

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

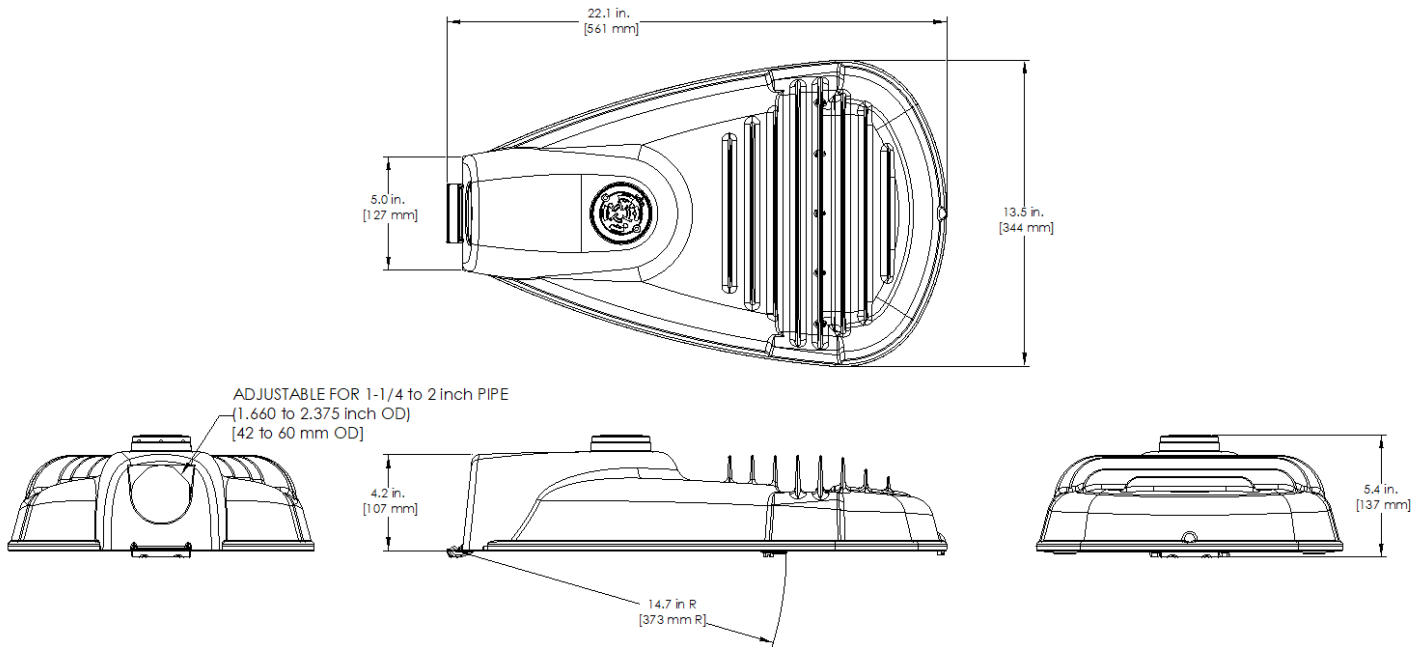
ERLH
Type II Enhanced Back Light

13,000 Lumens
4000K
ERLH_13E340___IES



- Mounting Height at 30'
- Initial Footcandle at Grade

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



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

- 0.5 sq ft max (0.046 sq m)

Weight

- 15.15 lbs (6.9 kgs) w/ 2 Bolt Slipfitter
- 15.85 lbs (7.2 kgs) w/ 4 Bolt Slipfitter

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
XXXXXX	PECHTL	Standard 347-480V
73251	SCCL-PECTL	Shorting Cap

See pages 22 & 23 for more detailed information on ERLH 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.

HOUSE SIDE SHIELDS

ERL1 / ERLH Shields


Product Code:	93024487	Description:	ELSHS-ERL1-BLCK
Product Code:	93046386	Description:	ELSHS-ERL1-GRAY
Product Code:	93068998	Description:	ELSHS-ERL1-DKBZ



STREET SIDE SHIELDS

ERL1 / ERLH Shields

Product Code:	93092595	Description:	ELSFS-ERL1-BLCK-10
Product Code:	93108740	Description:	ELSFS-ERL1-GRAY-10
Product Code:	93092906	Description:	ELSFS-ERL1-BLCK-15
Product Code:	93105144	Description:	ELSFS-ERL1-GRAY-15
Product Code:	93088130	Description:	ELSFS-ERL1-BLCK-20
Product Code:	93088131	Description:	ELSFS-ERL1-GRAY-20

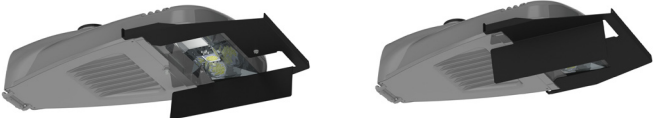


SIDE SHIELDS (L&R)

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

ERL1 / ERLH Shields

Product Code:	93118695	Description:	ELS-ERL1H-LEFTRIGHTSIDEKIT-BLCK-10
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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