



CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

The Evolve® LED Roadway ERL1 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:	12.4 lbs (5.6kgs)

Optical System

Lumens:	2,000 - 10,000
Distribution:	Type II, III, IV and Type II Narrow, and Type II Enhanced Backlight
Efficacy:	110-143 LPW
CCT:	2700K, 3000K, 4000K
CRI:	≥ 70

Electrical

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

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
02,03,04, 05,06	A3,B3,C3, D3,E3	L96	L95	L94
07,08,09	A3,B3,C3, D3,E3	L95	L91	L89
10	A3,B3,C3, D3,E3	L89	L80	L76

Ratings

Operating Temperature:	-40°C to 50°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.

Ordering Information

ERL1

PROD. ID	VOLTAGE	LUMENS	DISTRIBUTION ³	CCT	CONTROLS PER ANSI C136.41	COLOR	OPTIONS	
E = Evolve	0 = 120-277V ¹	02 = 2000 lm ²	A3 = Type II Narrow	27 = 2700K ⁴	A = 7-Pin Receptacle	BLCK = Black	A = 4 Bolt Slipfitter ⁵	
R = Roadway	H = 347-480V ¹	03 = 3000 lm	B3 = Type II Wide	30 = 3000K ⁴	D = 7-Pin Receptacle with Shorting Cap	DKBZ = Dark Bronze	B = Tether	
L = Local		04 = 4000 lm	C3 = Type III	40 = 4000K	E = 7 Pin Receptacle with Long Life non-Dimming PE Control	GRAY = Gray	F = Fusing	
1 = Single Module	1 = 120V	05 = 5000 lm	D3 = Type IV		Note: 0-10V control standard unless DALI Option "U" requested	WHTE= White	G = Internal Bubble Level	
	2 = 208V	06 = 6000 lm	E3 = Type II Enhanced Back Light				I = Optional IP66 Optical	
	3 = 240V	07 = 7000 lm					L = Tool-Less Entry	
	4 = 277V	08 = 8000 lm					R = Secondary 10kV/5kA SPD	
	D = 347V	09 = 9000 lm					T = Secondary 20kV/10kA SPD	
5 = 480V	10 = 10000 lm			U = DALI Programmable ^{6,7}	V1 = Field Adjustable Module ^{10,11}	X = Single Pack ⁸	Y = Coastal Finish ⁹	XXX = Special Options

¹ Not Available with Fusing
² 02 lumen level voltage options 1, 2, 3, and 8 only
³ Nominal IES Type classing subject to typical variation, individual units may differ
⁴ Select 2700K or 3000K CCT for IDA approved units
⁵ Lead time varies, Contact Factory
⁶ Compatible with LightGrid+™
⁷ Not available in 347V, 480V or 347-480V for Lumen Output Levels 07-10
⁸ Option provides single pack box per fixture. Standard packaging = 23 units per MagnaPak Container
⁹ Recommended for installations within 750 feet from coast. Lead time varies, check with factory.
¹⁰ Not available with DALI "U" option
¹¹ Not compatible with 02 Lumen Code

Suggested HID Replacement

- 4,000 - 5,000 lumens to replace 100W HPS Cobra-head
- 7,000 - 8,000 lumens to replace 150W HPS Cobra-head
- 8,500 - 11,500 lumens to replace 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
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	DIST.	LUMENS			WATTAGE		BUG RATINGS		
		4000K	3000K	2700K	277V	480V	4000K	3000K	2700K
02	A3	2000	1900	1900	14	N/A	B1-U0-G1	B1-U0-G1	B1-U0-G1
	B3						B1-U0-G1	B1-U0-G1	B1-U0-G1
	C3						B1-U0-G1	B1-U0-G1	B1-U0-G1
	D3						B0-U0-G1	B0-U0-G1	B0-U0-G1
	E3						B1-U0-G1	B1-U0-G1	B1-U0-G1
03	A3	3000	2900	2800	22	26	B1-U0-G1	B1-U0-G1	B1-U0-G1
	B3						B1-U0-G1	B1-U0-G1	B1-U0-G1
	C3						B1-U0-G1	B1-U0-G1	B1-U0-G1
	D3						B1-U0-G1	B1-U0-G1	B1-U0-G1
	E3						B1-U0-G1	B1-U0-G1	B1-U0-G1
04	A3	4000	3900	3800	31	34	B1-U0-G1	B1-U0-G1	B1-U0-G1
	B3						B1-U0-G1	B1-U0-G1	B1-U0-G1
	C3						B1-U0-G1	B1-U0-G1	B1-U0-G1
	D3						B1-U0-G1	B1-U0-G1	B1-U0-G1
	E3						B1-U0-G1	B1-U0-G1	B1-U0-G1
05	A3	5000	4900	4700	39	43	B1-U0-G1	B1-U0-G1	B1-U0-G1
	B3						B1-U0-G1	B1-U0-G1	B1-U0-G1
	C3						B1-U0-G2	B1-U0-G2	B1-U0-G2
	D3						B1-U0-G1	B1-U0-G1	B1-U0-G1
	E3						B1-U0-G1	B1-U0-G1	B1-U0-G1
06	A3	6000	5800	5700	47	52	B2-U0-G2	B2-U0-G2	B2-U0-G2
	B3						B1-U0-G2	B1-U0-G2	B1-U0-G2
	C3						B1-U0-G2	B1-U0-G2	B1-U0-G2
	D3						B1-U0-G2	B1-U0-G2	B1-U0-G2
	E3						B2-U0-G2	B2-U0-G2	B2-U0-G2
07	A3	7000	6800	6600	58		B2-U0-G2	B2-U0-G2	B2-U0-G2
	B3						B1-U0-G2	B1-U0-G2	B1-U0-G2
	C3						B1-U0-G2	B1-U0-G2	B1-U0-G2
	D3						B1-U0-G2	B1-U0-G2	B1-U0-G2
	E3						B2-U0-G2	B2-U0-G2	B2-U0-G2
08	A3	8000	7800	7600	71		B2-U0-G2	B2-U0-G2	B2-U0-G2
	B3						B2-U0-G2	B2-U0-G2	B2-U0-G2
	C3						B1-U0-G2	B1-U0-G2	B1-U0-G2
	D3						B1-U0-G2	B1-U0-G2	B1-U0-G2
	E3						B2-U0-G2	B2-U0-G2	B2-U0-G2
09	A3	9000	8800	8500	84		B2-U0-G2	B2-U0-G2	B2-U0-G2
	B3						B2-U0-G2	B2-U0-G2	B2-U0-G2
	C3						B2-U0-G2	B2-U0-G2	B1-U0-G2
	D3						B1-U0-G2	B1-U0-G2	B1-U0-G2
	E3						B2-U0-G2	B2-U0-G2	B2-U0-G2

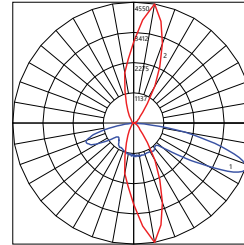
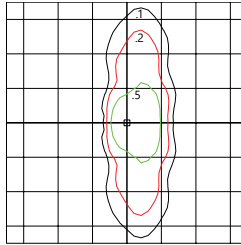
For additional information on ERL1 IES files, please click one of the following links:

[Non-Shielded](#)

[Shielded](#)

ERL1
Type II Narrow

5,000 Lumens
4000K
ERL1_05A340_...

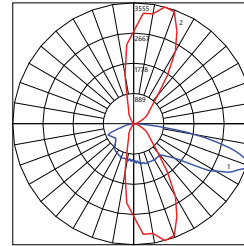
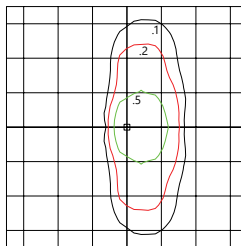


- Mounting Height at 30'
- Initial Footcandle at Grade

- Vertical plane at max Cd horiz. angle 80°
- Horizontal cone at max Cd vert. angle 67°

ERL1
Type II Wide

5,000 Lumens
4000K
ERL1_05B340_...IES

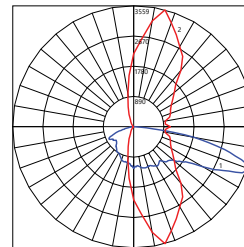
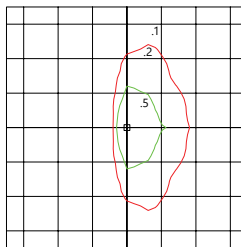


- Mounting Height at 30'
- Initial Footcandle at Grade

- Vertical plane at max Cd horiz. angle 75°
- Horizontal cone at max Cd vert. angle 69°

ERL1
Type III

5,000 Lumens
4000K
ERL1_05C340_...IES

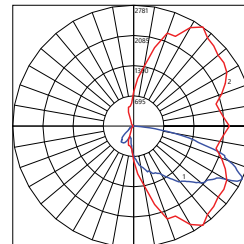
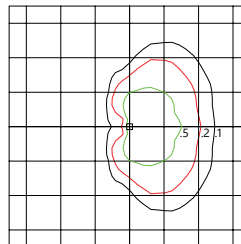


- Mounting Height at 30'
- Initial Footcandle at Grade

- Vertical plane at max Cd horiz. angle 75°
- Horizontal cone at max Cd vert. angle 70°

ERL1
Type IV

5,000 Lumens
4000K
ERL1_05D340_...IES

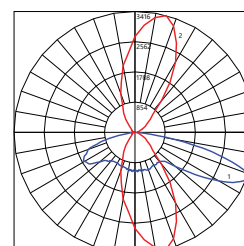
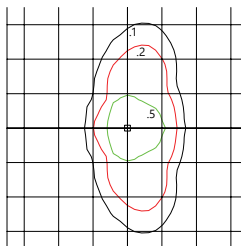


- Mounting Height at 30'
- Initial Footcandle at Grade

- Vertical plane at max Cd horiz. angle 55°
- Horizontal cone at max Cd vert. angle 64°

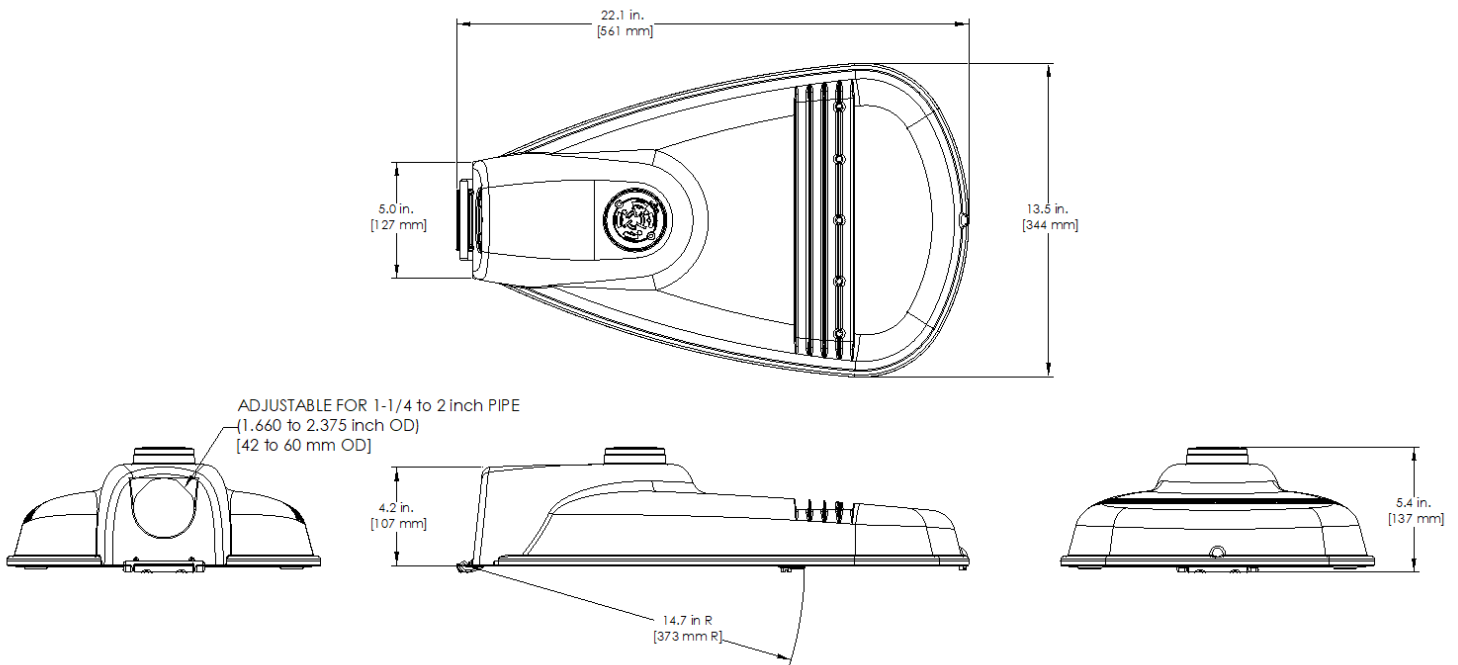
ERL1
Type II Enhanced Back Light

5,000 Lumens
4000K
ERL1_05E340_...IES



- Mounting Height at 30'
- Initial Footcandle at Grade

- Vertical plane at max Cd horiz. angle 75°
- Horizontal cone at max Cd vert. angle 67°



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

- 12.4 lbs (5.6 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
XXXXXX	PECHTL	Standard 347-480V
73251	SCCL-PECTL	Shorting Cap

See pages 22 & 23 for more detailed information on ERL1 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
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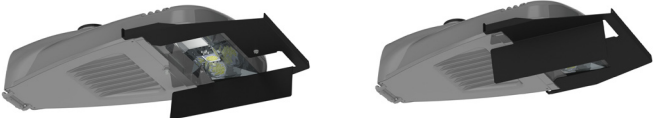


SIDE SHIELDS (L&R)

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