



ERL2 Cobra Head

LED Roadway Lighting

The Evolve® LED Roadway ERL2 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 polyester powder painted, minimum 2.0 mil thickness Standard = Black, Dark Bronze Gray, White Optional = Coastal Finish
Weight:	24.0 lbs (10.9 kgs)

Optical System

Lumens:	16,000 - 32,000
Distribution:	Type II Narrow, Type II Wide, Type III, Type IV and Type II Enhanced Back light
Efficacy:	112-140 LPW
CCT:	2700K, 3000K, 4000K, 5000K
CRI (Min):	70 CRI

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	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 25°C

LUMEN CODES	DISTRIBUTIONS	LXX(10K) @ HOURS		
		25,000 HR	50,000 HR	60,000 HR
16	A5, B5, C5, D5, E5	L99	L99	L99
18	A5, B5, C5, D5, E5	L99	L98	L98
19	A5, B5, C5, D5, E5	L99	L98	L97
21	A5, B5, C5, D5, E5	L94	L87	L85
23	A5, B5, C5, D5, E5	L97	L96	L95
25	A5, B5, C5, D5, E5	L96	L95	L95
27	A5, B5, C5, D5, E5	L96	L94	L94
28	A5, B5, C5, D5, E5	L96	L94	L93
30, 31	A5, B5, C5, D5, E5	L95	L93	L92
32	A5, B5, C5, D5, E5	L94	L91	L90

Note: Projected Lxx based on LM80 (≥ 10,000 hour testing). Accepted Industry tolerances apply to initial luminous flux and lumen maintenance measurements.

Ratings

Operating Temp:	-40°C to 50°C *
Vibration:	3G per ANSI C136.31-2018
LM-79:	Testing in accordance with IES Standards
EMI:	Title 47 CFR Part 15 Class A
RoHS:	Complies with the material restrictions of RoHS

*ERL2 (32K Lumen 347-480V SKU) operates at -40°C to 45°C

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

ERL2

PROD. ID	VOLTAGE	LUMENS (LM)	DISTRIBUTION ³	CCT	CONTROLS PER ANSI C136.41	COLOR	OPTIONS
E = Evolve	0 = 120-277V ¹	16 = 16,000 lm	A5 = Type II Narrow	27 = 2700K ²	A = 7-Pin Receptacle	GRAY = Gray	A = 4 Bolt Slipfitter ⁴
R = Roadway	H = 347-480V ¹	18 = 18,000 lm	B5 = Type II Wide	30 = 3000K ²	D = 7-Pin Receptacle with Shorting Cap	BLCK = Black	B = Tether
L = Local	1 = 120V	19 = 19,000 lm	C5 = Type III	40 = 4000K	E = 7-Pin Receptacle with non-Dimming Long Life PE ⁵	DKBZ = Dark Bronze	F = Fusing
2 = Double Module	2 = 208V	21 = 21,000 lm	D5 = Type IV ⁶ E5 = Type II Enhanced Back Light	50 = 5000K	Note: 0-10V control standard unless DALI Option "U" requested	WHITE = White	G = Internal Bubble Level
	3 = 240V	23 = 23,000 lm		I = Optional IP66 Optical Enclosure			
	4 = 277V	25 = 25,000 lm		L = Tool-Less Entry			
	D = 347V	27 = 27,000 lm		R = Secondary 10kV/5kA SPD			
	5 = 480V	28 = 28,000 lm		T = Secondary 20kV/10kA SPD ¹			
		30 = 30,000 lm		U = DALI Programmable ^{6,7}			
		31 = 31,000 lm		V1 = Field Adjustable Module ⁹			
	32 = 32,000 lm	Y = Coastal Finish ⁸					
		XXX = Special Options					

- ¹ Not Available with Fusing
- ² Select 2700K or 3000K CCT for IDA approved units
- ³ Nominal IES Type classing subject to typical variation, individual units may differ
- ⁴ Lead time varies, contact Factory
- ⁵ Per ANSI C136.10-2017
- ⁶ Compatible with LightGrid+™
- ⁷ Not available in 347V, 480V or 347-480V
- ⁸ Recommended for installations within 750 feet from coast. Lead time varies, check with factory.
- ⁹ Not available with DALI "U" option
- ¹⁰ Forward throw distribution. Classifies as Type III for lumen codes 23-32. Review IES curve for application.

Suggested HID Replacement

Approximately 21,500 -32,000 lumens to replace 400W HPS
Cobra-head

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

CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

LUMEN OUTPUT	DIST.	TYPICAL INITIAL LUMENS			WATTAGE		BUG RATINGS		
		5000K/4000K	3000K	2700K	120V 277V	347V 480V	5000K/4000K	3000K	2700K
16	A5	16000	15300	14200	114	B3-U0-G3	B3-U0-G3	B3-U0-G3	
	B5					B3-U0-G3	B3-U0-G3	B2-U0-G2	
	C5					B2-U0-G3	B2-U0-G3	B2-U0-G3	
	D5					B2-U0-G3	B2-U0-G3	B2-U0-G2	
	E5					B3-U0-G3	B3-U0-G3	B3-U0-G3	
18	A5	18000	17200	16000	130	B3-U0-G3	B3-U0-G3	B3-U0-G3	
	B5					B3-U0-G3	B3-U0-G3	B3-U0-G3	
	C5					B3-U0-G3	B2-U0-G3	B2-U0-G3	
	D5					B2-U0-G3	B2-U0-G3	B2-U0-G3	
	E5					B3-U0-G3	B3-U0-G3	B3-U0-G3	
19	A5	19000	18200	16900	140	B3-U0-G3	B3-U0-G3	B3-U0-G3	
	B5					B3-U0-G3	B3-U0-G3	B3-U0-G3	
	C5					B3-U0-G3	B3-U0-G3	B2-U0-G3	
	D5					B2-U0-G3	B2-U0-G3	B2-U0-G3	
	E5					B3-U0-G3	B3-U0-G3	B3-U0-G3	
21	A5	21000	20100	18600	160	B3-U0-G3	B3-U0-G3	B3-U0-G3	
	B5					B3-U0-G3	B3-U0-G3	B3-U0-G3	
	C5					B3-U0-G3	B3-U0-G3	B3-U0-G3	
	D5					B2-U0-G3	B2-U0-G3	B2-U0-G3	
	E5					B3-U0-G3	B3-U0-G3	B3-U0-G3	
23	A5	23000	22000	21300	177	B3-U0-G3	B3-U0-G3	B3-U0-G3	
	B5					B3-U0-G3	B3-U0-G3	B3-U0-G3	
	C5					B3-U0-G4	B3-U0-G4	B3-U0-G3	
	D5					B2-U0-G3	B2-U0-G3	B2-U0-G3	
	E5					B3-U0-G3	B3-U0-G3	B3-U0-G3	
25	A5	25000	24000	23200	191	B3-U0-G3	B3-U0-G3	B3-U0-G3	
	B5					B3-U0-G3	B3-U0-G3	B3-U0-G3	
	C5					B3-U0-G4	B3-U0-G4	B3-U0-G4	
	D5					B2-U0-G4	B2-U0-G4	B2-U0-G3	
	E5					B4-U0-G4	B4-U0-G4	B4-U0-G4	

For additional information on ERL2 IES files, please click one of the following links:

CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

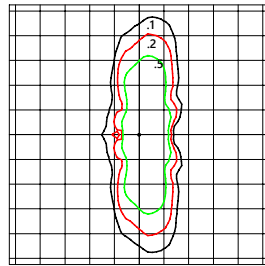
CATALOG NUMBER _____

LUMEN OUTPUT	DIST.	TYPICAL INITIAL LUMENS			WATTAGE		BUG RATINGS		
		5000K/4000K	3000K	2700K	120V 277V	347V 480V	5000K/4000K	3000K	2700K
27	A5	27000	25900	25100	212		B4-U0-G4	B4-U0-G4	B3-U0-G3
	B5						B3-U0-G3	B3-U0-G3	B3-U0-G3
	C5						B3-U0-G4	B3-U0-G4	B3-U0-G4
	D5						B2-U0-G4	B2-U0-G4	B2-U0-G4
	E5						B4-U0-G4	B4-U0-G4	B4-U0-G4
28	A5	28000	26800	26000	223		B4-U0-G4	B4-U0-G4	B4-U0-G4
	B5						B3-U0-G4	B3-U0-G3	B3-U0-G3
	C5						B3-U0-G4	B3-U0-G4	B3-U0-G4
	D5						B3-U0-G4	B3-U0-G4	B2-U0-G4
	E5						B4-U0-G4	B4-U0-G4	B4-U0-G4
30	A5	30000	28800	27900	242		B4-U0-G4	B4-U0-G4	B4-U0-G4
	B5						B3-U0-G4	B3-U0-G4	B3-U0-G4
	C5						B3-U0-G4	B3-U0-G4	B3-U0-G4
	D5						B3-U0-G4	B3-U0-G4	B3-U0-G4
	E5						B4-U0-G4	B4-U0-G4	B4-U0-G4
31	A5	31000	29700	28800	252		B4-U0-G4	B4-U0-G4	B4-U0-G4
	B5						B3-U0-G4	B3-U0-G4	B3-U0-G4
	C5						B3-U0-G4	B3-U0-G4	B3-U0-G4
	D5						B3-U0-G4	B3-U0-G4	B3-U0-G4
	E5						B4-U0-G4	B4-U0-G4	B4-U0-G4
32	A5	32000	30700	29700	265		B4-U0-G4	B4-U0-G4	B4-U0-G4
	B5						B3-U0-G4	B3-U0-G4	B3-U0-G4
	C5						B3-U0-G4	B3-U0-G4	B3-U0-G4
	D5						B3-U0-G4	B3-U0-G4	B3-U0-G4
	E5						B4-U0-G4	B4-U0-G4	B4-U0-G4

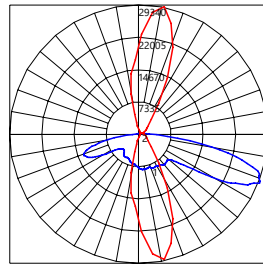
For additional information on ERL2 IES files, please click one of the following links:

ERL2
Type II Narrow

32,000 Lumens
5000K
ERL2_32A550_...IES



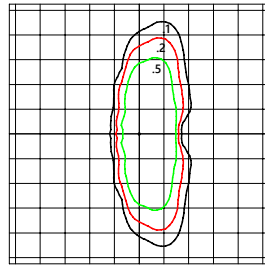
- Mounting Height at 30'
- Initial Footcandle at Grade



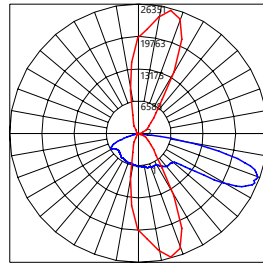
- Vertical plane at max Cd horiz. angle 80°
- Horizontal cone at max Cd vert. angle 68°

ERL2
Type II Wide

32,000 Lumens
5000K
ERL2_32B550_...IES



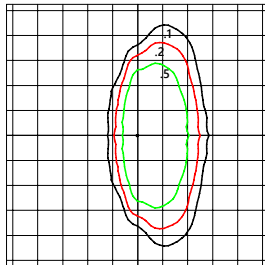
- Mounting Height at 30'
- Initial Footcandle at Grade



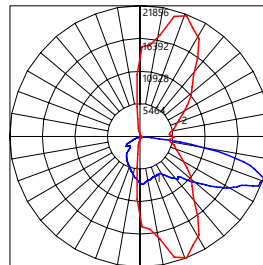
- Vertical plane at max Cd horiz. angle 75°
- Horizontal cone at max Cd vert. angle 70°

ERL2
Type III

32,000 Lumens
5000K
ERL2_32C550_...IES



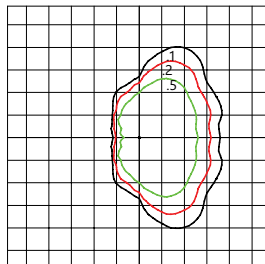
- Mounting Height at 30'
- Initial Footcandle at Grade



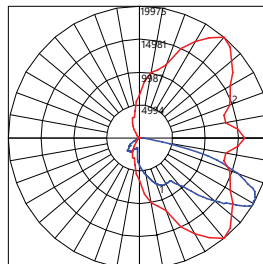
- Vertical plane at max Cd horiz. angle 70°
- Horizontal cone at max Cd vert. angle 70°

ERL2
Type III (FWT)

32,000 Lumens
5000K
ERL2_32D550_...IES
Forward Throw



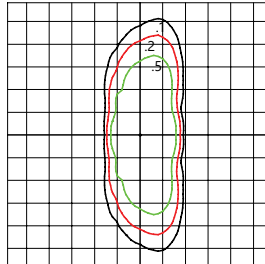
- Mounting Height at 30'
- Initial Footcandle at Grade



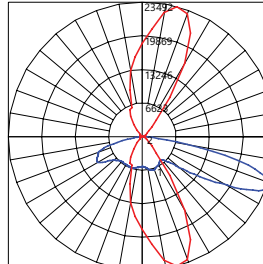
- Vertical plane at max Cd horiz. angle 50°
- Horizontal cone at max Cd vert. angle 59°

ERL2
Type II Medium

32,000 Lumens
5000K
ERL2_32E550_...IES

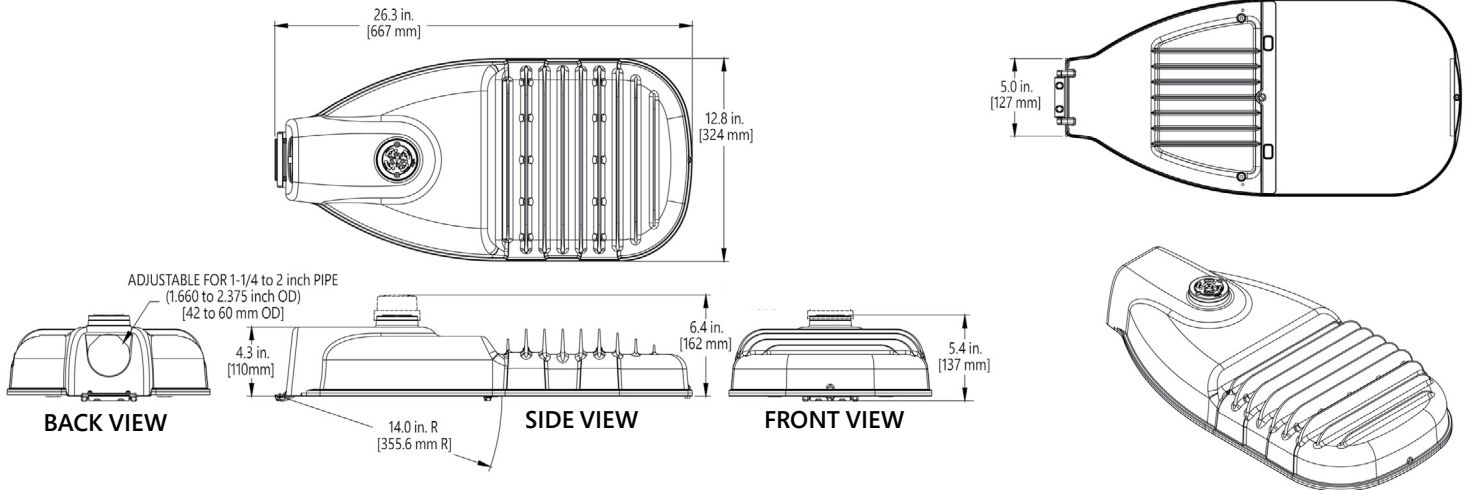


- Mounting Height at 30'
- Initial Footcandle at Grade



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

ISO illuminate diagrams and polar plots are representative of the SKUs illustrated.
Refer to IES files for SKU specific information.



Mounting

- Adjustable for 1.25 to 2 in. nominal mounting pipe (1.660 to 2.375 inch OD)
- Integral diecast mounting pipe stop
- Slipfitter with +/- 5 degrees of leveling adjustment

Effective Projected Area

- 0.57 sq ft max (0.053 sq m)

Weight

- 24.0 lbs (10.9 kgs)

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 347-480V
73251	SCCL-PECTL	Shorting Cap

Network Lighting Controls



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

ERL2 Shields


Product Code:	93070722	Description:	ELSHS-ERL2-BLCK
Product Code:	93085564G	Description:	ELSHS-ERL2-GRAY
Product Code:	93096747G	Description:	ELSHS-ERL2-DKBZ



STREET SIDE SHIELDS

ERL2 Shields

Product Code:	93132955G	Description:	ELSFS-ERL2-BLCK-20
Product Code:	93132986G	Description:	ELSFS-ERL2-GRAY-20

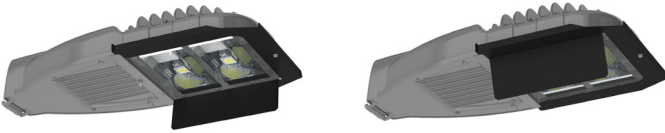


SIDE SHIELDS (L&R)

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

ERL2 SHIELDS

Product Code:	93132989G	Description:	ELS-ERL2-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