



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: | $\geq 90\%$ 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 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 ($\geq 10,000$ 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 C136.31-2018 |
| LM-79: | Testing in accordance with IES Standards |
| EMI: | Title 47 CFR Part 15 Class A |
| RoHS: | Complies with the material restrictions of RoHS |

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

ERLC

| 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 | WHT= 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.

CUSTOMER NAME _____

PROJECT NAME _____

DATE _____ TYPE _____

CATALOG NUMBER _____

| 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 | 7850 | 7536 | 6987 | 62 | B2-U0-G2 | B2-U0-G2 | B2-U0-G2 |
| | B6 | 7850 | 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 |

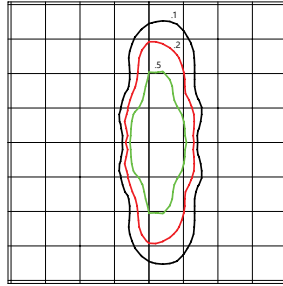
For additional information on ERLC IES files, please click one of the following links:

[Non-Shielded](#)

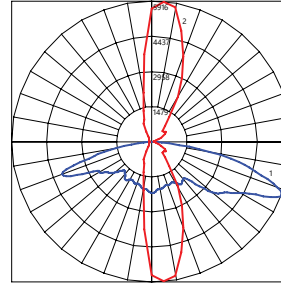
[Shielded](#)

ERLC
Type II Narrow

7,850 Lumens
4000K
ERLC_08A640_...IES



- Mounting Height at 30'
- Initial Footcandle at Grade

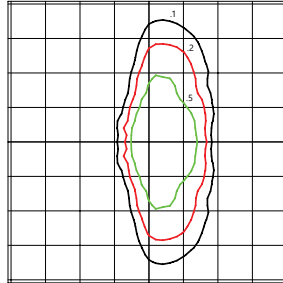


- Vertical plane at max Cd horiz. angle
- Horizontal cone at max Cd vert. angle

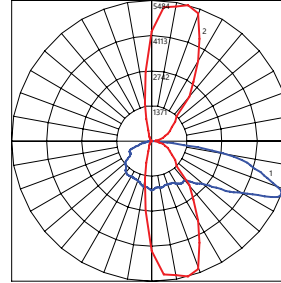
ERLC
Type II/III³

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.



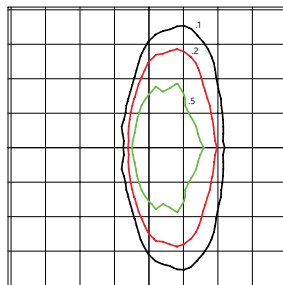
- Mounting Height at 30'
- Initial Footcandle at Grade



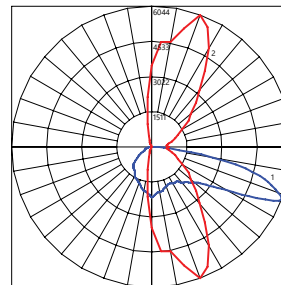
- Vertical plane at max Cd horiz. angle
- Horizontal cone at max Cd vert. angle

ERLC
Type III

7,850 Lumens
4000K
ERLC_08C640_...IES



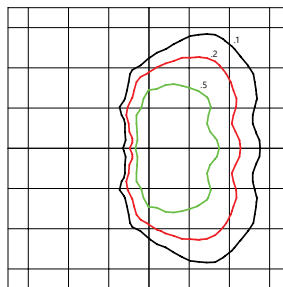
- Mounting Height at 30'
- Initial Footcandle at Grade



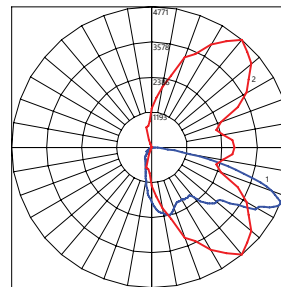
- Vertical plane at max Cd horiz. angle
- Horizontal cone at max Cd vert. angle

ERLC
Type IV

7,850 Lumens
4000K
ERLC_08D640_...IES



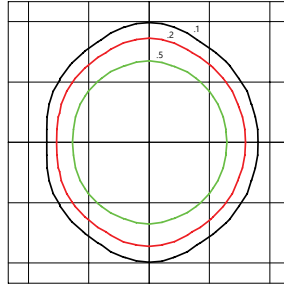
- Mounting Height at 30'
- Initial Footcandle at Grade



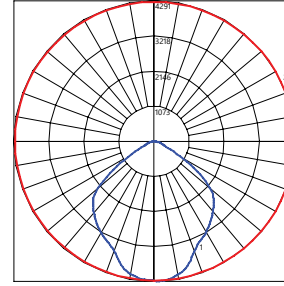
- Vertical plane at max Cd horiz. angle
- Horizontal cone at max Cd vert. angle

ERLC
Type VS

9,200 Lumens
4000K
ERLC_09S640____IES



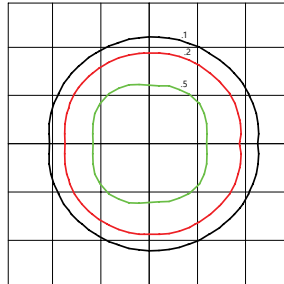
- Mounting Height at 30'
- Initial Footcandle at Grade



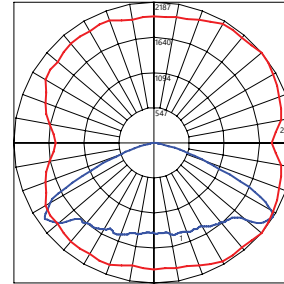
- Vertical plane at max Cd horiz. angle
- Horizontal cone at max Cd vert. angle

ERLC
Type V

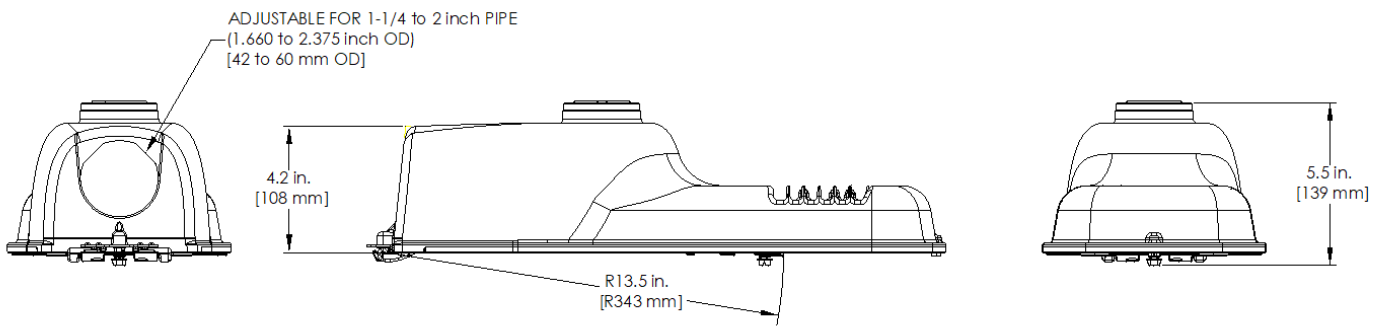
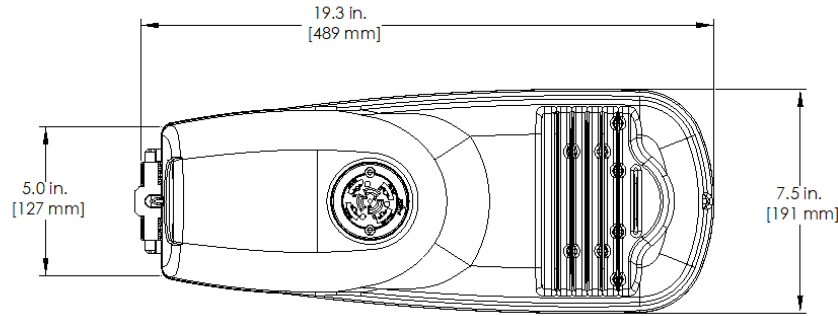
7,000 Lumens
4000K
ERLC_07V640____IES



- Mounting Height at 30'
- Initial Footcandle at Grade



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



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 | PEC0TL | Standard 120-277V |
| 93147530 | PECHTL | Standard 347-480V |
| 73251 | SCCL-PECTL | Shorting Cap |

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

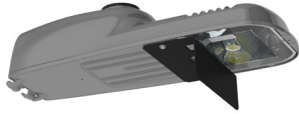
Networked Lighting Control



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.


HOUSE SIDE SHIELDS

ERLC Shields

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

STREET SIDE SHIELDS

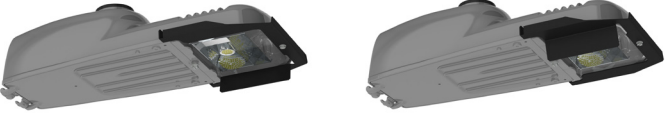
ERLC Shields

| | | | |
|--|----------|--------------|--------------------|
| 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