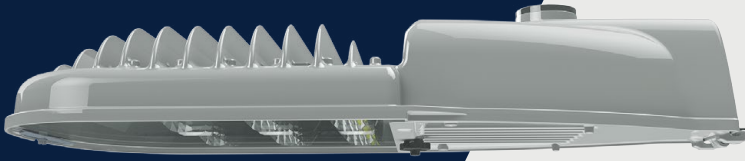


# EVOLVE

## ERL6 Cobra Head LED Roadway Lighting



Project Name \_\_\_\_\_  
Date \_\_\_\_\_ Type \_\_\_\_\_  
Notes \_\_\_\_\_

The **Evolve**® LED Roadway ERL6 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

<b>Housing:</b>	Aluminum die cast enclosure. Casting-Integral heat sink for maximum heat transfer
<b>Lens:</b>	Impact resistant tempered glass
<b>Paint:</b>	Corrosion resistant polyester powder paint, minimum 2.0 mil thickness <i>(RAL &amp; custom colors available)</i> Standard = Black, Dark Bronze, Gray and White Optional = Coastal Finish
<b>Weight:</b>	≤ 26.0 lbs (11.8 kgs)

### OPTICAL SYSTEM

<b>Lumens:</b>	20,470 - 40,000
<b>Distribution:</b>	Type II Narrow, Type II/III, Type III, Type IV and Type II Enhanced Back light
<b>Efficacy (LPW):</b>	123-153
<b>CCT (K):</b>	2700, 3000, 4000
<b>CRI (Min):</b>	70 CRI

### ELECTRICAL

<b>Input Voltage (V):</b>	120-277, 277-480 or 347-480
<b>Input Frequency (Hz):</b>	50/60
<b>Power Factor:</b>	≥ 90 at rated watts
<b>Total Harmonic Distortion:</b>	≤ 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
23-25	A6, B6, C6, D6, E6	L99	L99	L99
27-30		L99	L98	L98
31-33		L99	L97	L97
34-36		L98	L96	L96
37-39		L97	L94	L93
40		L96	L93	L91

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

### RATINGS

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

### CONTROLS

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

### WARRANTY

5 Year (Standard)

10 Year (Optional)



## ERL6

PROD. ID	VOLTAGE	LUMENS	DISTRIBUTION <sup>2</sup>	CCT	CONTROLS PER ANSI C136.41	COLOR	OPTIONS
<b>E = Evolve</b>	0 = 120-277V <sup>1</sup>	23 = 23,000	A6 = Type II Narrow	27 = 2700K	A = 7-Pin Receptacle <sup>3</sup>	GRAY = Gray	A = 4 Bolt Slipfitter
<b>R = Roadway</b>	H = 347-480V <sup>1</sup>	25 = 25,000	B6 = Type II/III	30 = 3000K	D = 7-Pin Receptacle with Shorting Cap <sup>3</sup>	BLCK = Black	B = Tether
<b>L = Local</b>	E = 277-480V <sup>1</sup>	27 = 27,000	C6 = Type III	40 = 4000K	E = 7-Pin Receptacle with non-Dimming Long Life PE <sup>3</sup>	DKBZ = Dark Bronze	C1 = Captive Door
<b>6 = Six Module</b>	1 = 120V	28 = 28,000	D6 = Type IV			WHTE = White	F = Fusing
	2 = 208V	30 = 30,000	E6 = Type II Enhanced Back Light				G = Internal Bubble Level
	3 = 240V	31 = 31,000					I = Optional IP66 Optical Enclosure
	4 = 277V	32 = 32,000					L = Tool-Less Entry
	5 = 480V	33 = 33,000					R = Secondary 10kV/5kA SPD
	D = 347V	34 = 34,000					T = Secondary 20kV/10kA SPD
		35 = 35,000					U = DALI Programmable <sup>4</sup>
		36 = 36,000					V1 = Field Adjustable Module <sup>5</sup>
		37 = 37,000					Y = Coastal Finish <sup>6</sup>
		38 = 38,000					XXX = Special Options
	39 = 39,000						
	40 = 40,000						

<sup>1</sup> Not Available with Fusing

<sup>2</sup> Nominal IES Type classing subject to typical variation, individual units may differ, review IES files for individual sku typing

<sup>3</sup> 7 Pin Receptacle wired for 0-10V control unless DALI Option "U" requested

<sup>4</sup> Compatible with LightGrid+

<sup>5</sup> Not available with DALI "U" option

<sup>6</sup> Recommended for installations within 750 feet from coast. Lead time varies, check with factory.

### SUGGESTED HID REPLACEMENT

Approximately 23,000-40,000 lumens to replace 400W HPS (Cobra-head)

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

Project Name \_\_\_\_\_

Date \_\_\_\_\_ Type \_\_\_\_\_

Notes \_\_\_\_\_

LUMEN OUTPUT	DIST.	TYPICAL INITIAL LUMENS			WATTAGE	BUG RATINGS		
		4000K	3000K	2700K	120V-480V	4000K	3000K	2700K
23	A6	23000	22080	20470	150	B3-U0-G3	B3-U0-G3	B3-U0-G3
	B6					B3-U0-G3	B3-U0-G3	B3-U0-G3
	C6					B3-U0-G4	B3-U0-G3	B3-U0-G3
	D6					B2-U0-G4	B2-U0-G4	B2-U0-G3
	E6					B3-U0-G3	B3-U0-G3	B3-U0-G3
25	A6	25000	24000	22250	165	B3-U0-G3	B3-U0-G3	B3-U0-G3
	B6					B3-U0-G3	B3-U0-G3	B3-U0-G3
	C6					B3-U0-G4	B3-U0-G4	B3-U0-G3
	D6					B2-U0-G4	B2-U0-G4	B2-U0-G4
	E6					B4-U0-G4	B4-U0-G4	B3-U0-G3
27	A6	27000	25920	24030	179	B3-U0-G3	B3-U0-G3	B3-U0-G3
	B6					B3-U0-G3	B3-U0-G3	B3-U0-G3
	C6					B3-U0-G4	B3-U0-G4	B3-U0-G4
	D6					B3-U0-G4	B3-U0-G4	B3-U0-G4
	E6					B4-U0-G4	B4-U0-G4	B4-U0-G4
28	A6	28000	26880	24920	187	B3-U0-G3	B3-U0-G3	B3-U0-G3
	B6					B3-U0-G4	B3-U0-G3	B3-U0-G3
	C6					B3-U0-G4	B3-U0-G4	B3-U0-G4
	D6					B3-U0-G4	B3-U0-G4	B2-U0-G4
	E6					B4-U0-G4	B4-U0-G4	B4-U0-G4
30	A6	30000	28800	26700	206	B3-U0-G3	B3-U0-G3	B3-U0-G3
	B6					B3-U0-G4	B3-U0-G4	B3-U0-G3
	C6					B3-U0-G4	B3-U0-G4	B3-U0-G4
	D6					B3-U0-G4	B3-U0-G4	B3-U0-G4
	E6					B4-U0-G4	B4-U0-G4	B4-U0-G4
31	A6	31000	29760	27590	214	B4-U0-G3	B3-U0-G3	B3-U0-G3
	B6					B3-U0-G4	B3-U0-G4	B3-U0-G3
	C6					B3-U0-G4	B3-U0-G4	B3-U0-G4
	D6					B3-U0-G4	B3-U0-G4	B3-U0-G4
	E6					B4-U0-G4	B4-U0-G4	B4-U0-G4
32	A6	32000	30720	28480	222	B4-U0-G4	B4-U0-G3	B3-U0-G3
	B6					B3-U0-G4	B3-U0-G4	B3-U0-G4
	C6					B3-U0-G4	B3-U0-G4	B3-U0-G4
	D6					B3-U0-G4	B3-U0-G4	B3-U0-G4
	E6					B4-U0-G4	B4-U0-G4	B4-U0-G4
33	A6	33000	31680	29370	230	B4-U0-G4	B4-U0-G4	B3-U0-G3
	B6					B3-U0-G4	B3-U0-G4	B3-U0-G4
	C6					B3-U0-G4	B3-U0-G4	B3-U0-G4
	D6					B3-U0-G4	B3-U0-G4	B3-U0-G4
	E6					B4-U0-G4	B4-U0-G4	B4-U0-G4
34	A6	34000	32640	30260	238	B4-U0-G4	B4-U0-G4	B4-U0-G3
	B6					B3-U0-G4	B3-U0-G4	B3-U0-G4
	C6					B3-U0-G4	B3-U0-G4	B3-U0-G4
	D6					B3-U0-G4	B3-U0-G4	B3-U0-G4
	E6					B4-U0-G4	B4-U0-G4	B4-U0-G4

Project Name \_\_\_\_\_

Date \_\_\_\_\_ Type \_\_\_\_\_

Notes \_\_\_\_\_

LUMEN OUTPUT	DIST.	TYPICAL INITIAL LUMENS			WATTAGE	BUG RATINGS		
		4000K	3000K	2700K	120V-480V	4000K	3000K	2700K
35	A6	35000	33600	31150	246	B4-U0-G4	B4-U0-G4	B4-U0-G4
	B6					B4-U0-G4	B3-U0-G4	B3-U0-G4
	C6					B4-U0-G4	B4-U0-G4	B3-U0-G4
	D6					B3-U0-G5	B3-U0-G4	B3-U0-G4
	E6					B4-U0-G4	B4-U0-G4	B4-U0-G4
36	A6	36000	34560	32040	255	B4-U0-G4	B4-U0-G4	B4-U0-G4
	B6					B4-U0-G4	B4-U0-G4	B3-U0-G4
	C6					B4-U0-G4	B4-U0-G4	B3-U0-G4
	D6					B3-U0-G5	B3-U0-G5	B3-U0-G4
	E6					B4-U0-G4	B4-U0-G4	B4-U0-G4
37	A6	37000	35520	32930	264	B4-U0-G4	B4-U0-G4	B4-U0-G4
	B6					B4-U0-G4	B4-U0-G4	B3-U0-G4
	C6					B4-U0-G5	B4-U0-G4	B3-U0-G4
	D6					B3-U0-G5	B3-U0-G5	B3-U0-G4
	E6					B4-U0-G4	B4-U0-G4	B4-U0-G4
38	A6	38000	36480	33820	272	B4-U0-G4	B4-U0-G4	B4-U0-G4
	B6					B4-U0-G4	B4-U0-G4	B3-U0-G4
	C6					B4-U0-G5	B4-U0-G4	B3-U0-G4
	D6					B3-U0-G5	B3-U0-G5	B3-U0-G4
	E6					B4-U0-G4	B4-U0-G4	B4-U0-G4
39	A6	39000	37440	34710	281	B4-U0-G4	B4-U0-G4	B4-U0-G4
	B6					B4-U0-G4	B4-U0-G4	B3-U0-G4
	C6					B4-U0-G5	B4-U0-G5	B4-U0-G4
	D6					B3-U0-G5	B3-U0-G5	B3-U0-G5
	E6					B4-U0-G4	B4-U0-G4	B4-U0-G4
40	A6	40000	38400	35600	290	B4-U0-G4	B4-U0-G4	B4-U0-G4
	B6					B4-U0-G4	B4-U0-G4	B4-U0-G4
	C6					B4-U0-G5	B4-U0-G5	B4-U0-G4
	D6					B3-U0-G5	B3-U0-G5	B3-U0-G5
	E6					B4-U0-G4	B4-U0-G4	B4-U0-G4

## ERL6 Cobra Head

LED Roadway Lighting

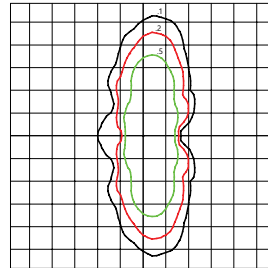
Photometric Plots

Project Name \_\_\_\_\_

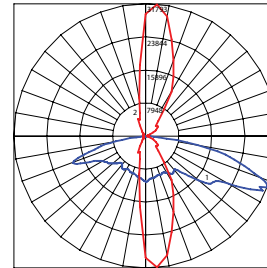
Date \_\_\_\_\_ Type \_\_\_\_\_

Notes \_\_\_\_\_

**ERL6**  
**Type II Narrow**  
 40,000 Lumens  
 4000K  
 ERL6\_40A640\_\_IES

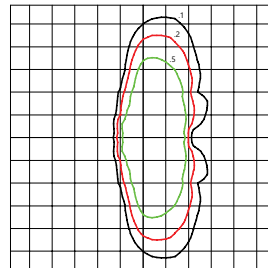


- Mounting Height at 30'
- Initial Footcandle at Grade

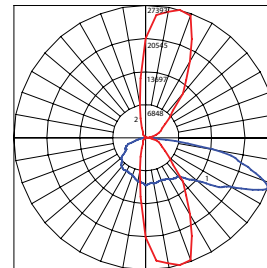


- Vertical plane at max Cd horiz. angle 85°
- Horizontal cone at max Cd vert. angle 67°

**ERL6**  
**Type II Wide**  
 40,000 Lumens  
 4000K  
 ERL6\_40B640\_\_IES

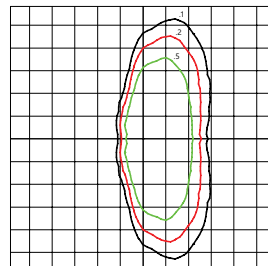


- Mounting Height at 30'
- Initial Footcandle at Grade

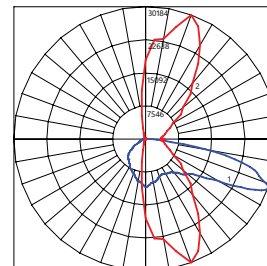


- Vertical plane at max Cd horiz. angle 75°
- Horizontal cone at max Cd vert. angle 68°

**ERL6**  
**Type III**  
 40,000 Lumens  
 4000K  
 ERL6\_40C640\_\_IES

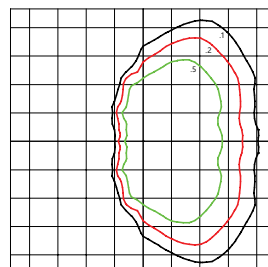


- Mounting Height at 30'
- Initial Footcandle at Grade

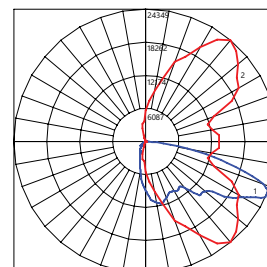


- Vertical plane at max Cd horiz. angle 70°
- Horizontal cone at max Cd vert. angle 68°

**ERL6**  
**Type IV**  
 40,000 Lumens  
 4000K  
 ERL6\_40D640\_\_IES  
 Forward Throw

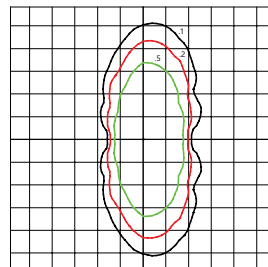


- Mounting Height at 30'
- Initial Footcandle at Grade

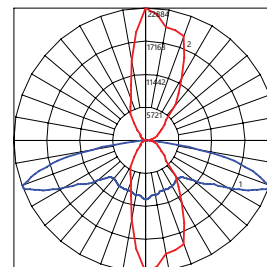


- Vertical plane at max Cd horiz. angle 50°
- Horizontal cone at max Cd vert. angle 67°

**ERL6**  
**Type II Medium**  
 40,000 Lumens  
 4000K  
 ERL6\_40E640\_\_IES

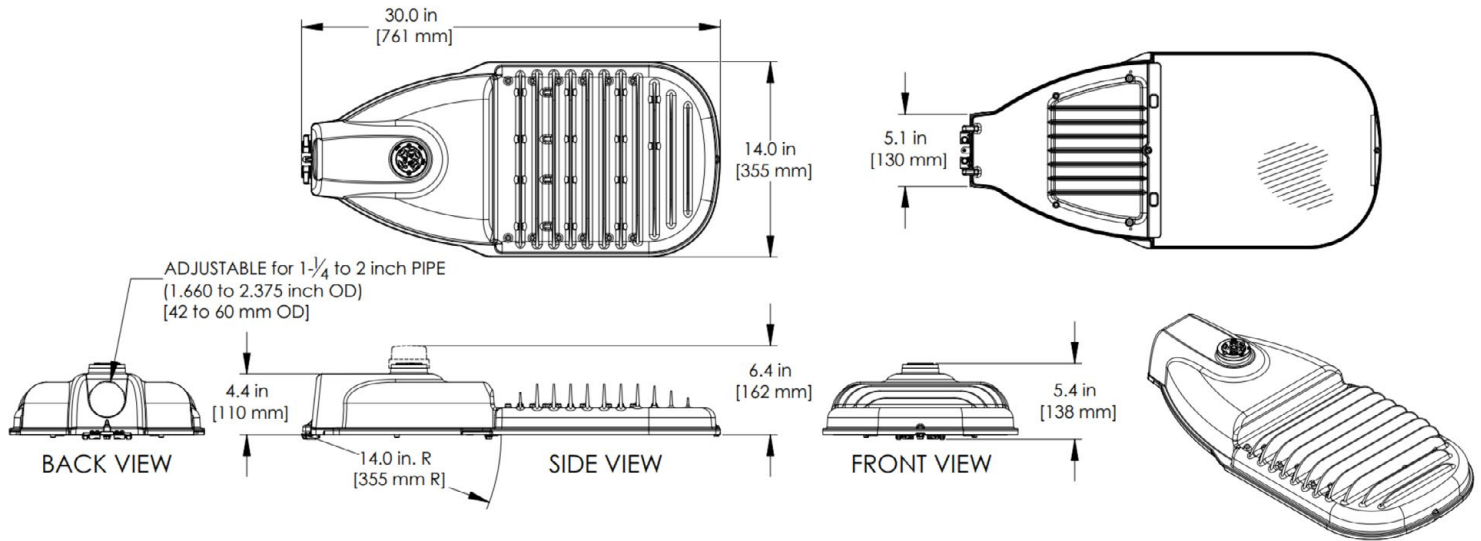


- Mounting Height at 30'
- Initial Footcandle at Grade



- Vertical plane at max Cd horiz. angle 90°
- Horizontal cone at max Cd vert. angle 69°

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

- 0.6 sq ft max (0.056 sq m)

### WEIGHT

- ≤ 26.0 lbs (11.8 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	PECOTL	Long Life PE 120-277V
93147530	PECHTL	Long Life PE 347-480V
73251	SCCL-PECTL	Shorting Cap

### NETWORK LIGHTING CONTROLS

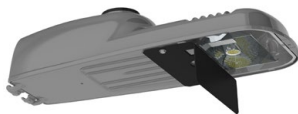


Current's **LightGrid+™** Outdoor Lighting Control System is designed for Street and Roadway Applications. It enables remote monitoring, control, and asset management of a single fixture or a group of fixtures through a web enabled Central Management System.

## HOUSE SIDE SHIELDS

### ERLC SHIELDS

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



### ERL1 SHIELDS

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



### ERL2 SHIELDS

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



## STREET SIDE SHIELDS

### ERLC SHIELDS

Product Code:	93132372G	Description:	ELSFS-ERLC-BLCK-10
Product Code:	93132373G	Description:	ELSFS-ERLC-BLCK-15
Product Code:	93134760G	Description:	ELSFS-ERLC-BLCK-20



### ERL1 SHIELDS

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



### ERL2 SHIELDS

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



## HOUSE SIDE SHIELDS (CONT.)

### ERL6 SHIELDS

Product Code:	XXXXXXXX	Description:	ELSHS-ERL6-BLCK
Product Code:	XXXXXXXX	Description:	ELSHS-ERL6-GRAY

## STREET SIDE SHIELDS (CONT.)

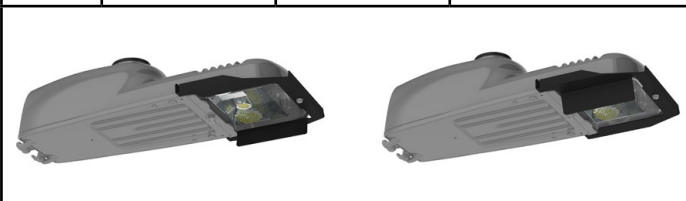
### ERL6 SHIELDS

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Product Code:	XXXXXXXX	Description:	ELSFS-ERL6-GRAY

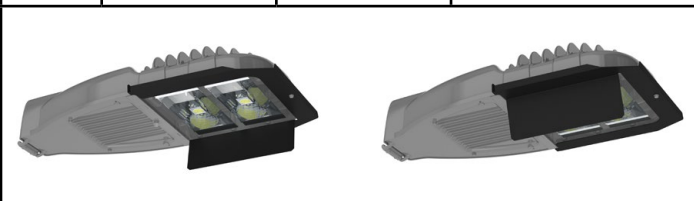
## SIDE SHIELDS (L&R)

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

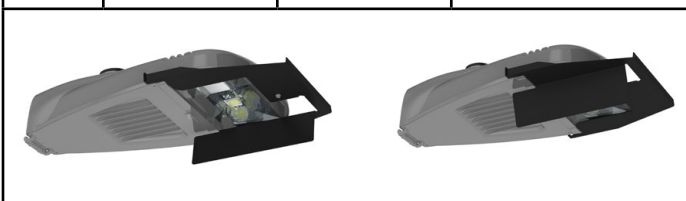
### ERLC SHIELDS

Product Code:	93132374G	Description:	ELS-ERLC-LEFTRIGHTSIDEKIT-BLCK-10
			

### ERL2 SHIELDS

Product Code:	93132989G	Description:	ELS-ERL2-LEFTRIGHTSIDEKIT-BLCK-10
			

### ERL1 SHIELDS

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

### ERL2 SHIELDS

Product Code:	XXXXXXXXXX	Description:	ELS-ERL6-LEFTRIGHTSIDEKIT-BLCK-XX

### 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