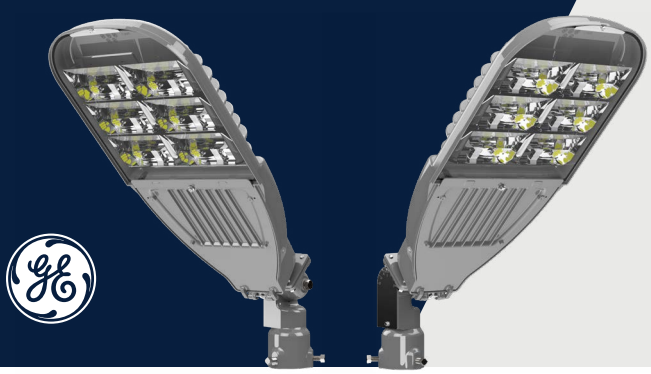
Evolve®

CUSTOMER NAME

PROJECT NAME

DATE TYPE

CATALOG NUMBER



ERLS Setback Luminaire

LED Roadway Lighting

The Evolve® LED Roadway ERLS Setback Luminaire utilizes an advanced LED reflective optical system combined with multiple lighting distributions, mounting options and the ability to tilt. ERLS offers performance in a diverse set of applications ranging from interstates, roadways and parking lots.

Construction

Housing:	Aluminum die cast enclosure. Casting-Integral heat sink for maximum heat transfer Standard captive door
Lens:	Impact resistant tempered glass
Colors:	Corrosion resistant polyester powder paint, minimum 2.0 mil thickness Paint: (RAL & custom colors available) Standard = Black, Dark Bronze, Gray Optional = Coastal Finish
Weight:	≤ 32.9 lbs (14.9 kgs)

Optical System

Lumens:	20,080-48,000
Distribution:	Type II Narrow, Type II/III, Type III, Type IV and Type II Enhanced Backlight
Efficacy (LPW):	122 - 167
CCT (K):	2700, 3000, 4000
CRI:	≥ 70

Electrical

Input Voltage (V):	120-277, 277-480 or 347-480
Input Frequency (Hz):	50/60
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

CERTIFIED · IP66 · IK07 · CONTROLS ENABLED · DLC LISTED

Lumen Maintenance

Projected Lxx per IES TM-21-11 at 25°C

LUMEN CODE	DISTRIBUTION CODE	LXX(10K) @ HOURS		
		25K HOURS	50KHOURS	60K HOURS
25	A6, B6, C6, D6, E6, J6, K6, L6, M6, N6	99	97	97
30		98	96	95
33		98	95	94
35		98	95	94
40		96	93	91
45		96	92	90
48		97	96	95

Projected Lxx per IES TM-21-21 at 25 °C

45	A6, B6, C6, D6, E6, J6, K6, L6, M6, N6	96	92	90
48		96	91	89

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

Ratings

Operating Temperature:	-40°C to 50°C (lumen codes 24-45) -40°C to 45°C (lumen code 48)
Vibration:	3G per ANSI C136.31-2018
LM-79:	Tested in accordance with IES Standards
EMI:	FCC 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)

Evolve®

ERLS Setback Luminaire

LED Roadway Lighting

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Ordering Information

ERLS

_ _ _ _   _   _ _   _ _   _ _   _   _ _   _ _ _ _   _ _ _ _

PRODUCT ID	VOLTAGE	LUMEN CODE (SEE CLAIMS TABLE)	DISTRIBUTION[2]	CCT	CONTROLS	MOUNTING ARM	COLOR	OPTIONS
E= Evolve R = Roadway L = Local S = Setback	0 = 120-277V[1] H = 347-480V[1] E = 277-480V[1] **SELECT SINGLE VOLTAGES ONLY IF FUSING IS REQUIRED** 1 = 120V 2 = 208V 3 = 240V 4 = 277V D = 347V 5 = 480V	25 30 33 (120-277 only) 35 40 45 48	A6 = Type II Narrow B6 = Type II/III C6 = Type III D6 = Type IV E6 = Type II Enhanced Back Light J6 = Type II Narrow w/ Visual Comfort Lens K6 = Type II/III w/ Visual Comfort Lens L6 = Type III w/ Visual Comfort Lens M6 = Type IV w/ Visual Comfort Lens N6 = Type II Enhanced Back Light w/ Visual Comfort Lens	27 = 2700K 30 = 3000K 40 = 4000K	A = Top: 7-Pin Receptacle3 D = Top :7-Pin Receptacle /w Shorting Cap[3] E = Top: 7-Pin Receptacle w/ Long Life PE[3] 1 = No Top PE Receptacle	N1 = Std 2 bolt internal S/F No External Slipfitter provided K1 = Knuckle slipfitter 1.9 in. - 2.3 in OD Tenon[4] S1 = Knuckle slipfitter 2.3-3.0 in. OD Tenon[4]	GRAY = Gray BLCK = Black DKBZ = Dark Bronze	A= 4 bolt Internal Slipfitter F = Fusing G = Internal Bubble Level I = Optional IP66 Optical Enclosure L = Tool-Less Entry R = Secondary 10kV/5kA SPD T = Secondary 20kV/10kA SPD U = DALI Programmable[5] V1 = Field Adjustable Module[6] Y = Coastal Finish[7] XXX = Special Options

[1] Not Available with Fusing
[2] Nominal IES Type classing subject to typical variation, individual units may differ, review IES files for individual sku typing
[3] 7 Pin ANSI C136.41 Receptacle wired for 0-10V control unless DALI Option "U" requested
[4] Supplied with Leads
[5] Compatible with LightGrid+
[6] Not available with DALI "U" option
[7] 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 250- 400W HPS (Cobrahead).

Note: Actual replacement lumens varies based on application conditions such as mounting height, pole spacing, road geometry and design criteria

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LUMEN OUTPUT	DISTRIBUTION	TYPICAL INITIAL LUMENS			TYPICAL SYSTEM WATTAGE		BUG RATINGS		
							4000K	3000K	2700K
		4000K	3000K	2700K	120V-277V	277V-480V	B-U-G	B-U-G	B-U-G
25	A6	24750	23760	21780	148	148	B3-U0-G3	B3-U0-G3	B3-U0-G3
	B6	25000	24000	22000			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	24750	23760	21780			B4-U0-G4	B4-U0-G4	B3-U0-G3
	J6	23640	22690	20800			B3-U0-G3	B3-U0-G3	B3-U0-G3
	K6	23880	22920	21010			B3-U0-G3	B3-U0-G3	B3-U0-G3
	L6						B3-U0-G3	B3-U0-G3	B3-U0-G3
	M6						B3-U0-G3	B3-U0-G3	B3-U0-G3
	N6	23640	22690	20800			B3-U0-G3	B3-U0-G3	B3-U0-G3
30	A6	29700	28510	26140	182	182	B3-U0-G3	B3-U0-G3	B3-U0-G3
	B6	30000	28800	26400			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	29700	28510	26140			B4-U0-G4	B4-U0-G4	B4-U0-G4
	J6	28360	27230	24960			B4-U0-G3	B3-U0-G3	B3-U0-G3
	K6	28650	27500	25210			B3-U0-G3	B3-U0-G3	B3-U0-G3
	L6						B3-U0-G4	B3-U0-G4	B3-U0-G3
	M6						B3-U0-G4	B3-U0-G4	B3-U0-G4
	N6	28360	27230	24960			B4-U0-G3	B4-U0-G3	B4-U0-G3
33	A6	32670	31360	28750	204	N/A	B4-U0-G4	B4-U0-G4	B3-U0-G3
	B6	33000	31680	29040			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	32670	31360	28750			B4-U0-G4	B4-U0-G4	B4-U0-G4
	J6	31200	29950	27460			B4-U0-G3	B4-U0-G3	B3-U0-G3
	K6	31520	30260	27740			B3-U0-G3	B3-U0-G3	B3-U0-G3
	L6						B3-U0-G4	B3-U0-G4	B3-U0-G4
	M6						B3-U0-G4	B3-U0-G4	B3-U0-G4
	N6	31200	29950	27460			B4-U0-G4	B4-U0-G4	B4-U0-G3

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LUMEN OUTPUT	DISTRIBUTION	TYPICAL INITIAL LUMENS			TYPICAL SYSTEM WATTAGE		BUG RATINGS		
							4000K	3000K	2700K
		4000K	3000K	2700K	120V-277V	277V-480V	B-U-G	B-U-G	B-U-G
35	A6	34650	33260	30490	223	223	B4-U0-G4	B4-U0-G4	B4-U0-G3
	B6	35000	33600	30800			B4-U0-G4	B3-U0-G4	B3-U0-G4
	C6						B4-U0-G4	B3-U0-G4	B3-U0-G4
	D6						B3-U0-G5	B3-U0-G4	B3-U0-G4
	E6	34650	33260	30490			B4-U0-G4	B4-U0-G4	B4-U0-G4
	J6	33090	31770	29120			B4-U0-G3	B4-U0-G3	B4-U0-G3
	K6	33430	32090	29420			B4-U0-G4	B4-U0-G3	B3-U0-G3
	L6						B4-U0-G4	B4-U0-G4	B3-U0-G4
	M6						B3-U0-G4	B3-U0-G4	B3-U0-G4
	N6	33090	31770	29120			B4-U0-G4	B4-U0-G4	B4-U0-G3
40	A6	39600	38020	34850	261	261	B4-U0-G4	B4-U0-G4	B4-U0-G4
	B6	40000	38400	35200			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	39600	38020	34850			B4-U0-G4	B4-U0-G4	B4-U0-G4
	J6	37820	36310	33280			B4-U0-G4	B4-U0-G3	B4-U0-G3
	K6	38200	36670	33620			B4-U0-G4	B4-U0-G4	B4-U0-G4
	L6						B4-U0-G4	B4-U0-G4	B4-U0-G4
	M6						B3-U0-G5	B3-U0-G4	B3-U0-G4
	N6	37820	36310	33280			B4-U0-G4	B4-U0-G4	B4-U0-G4
45	A6	44550	42770	39200	302	302	B4-U0-G4	B4-U0-G4	B4-U0-G4
	B6	45000	43200	39600			B4-U0-G5	B4-U0-G5	B4-U0-G4
	C6						B4-U0-G5	B4-U0-G5	B4-U0-G5
	D6						B3-U0-G5	B3-U0-G5	B3-U0-G5
	E6	44550	42770	39200			B4-U0-G4	B4-U0-G4	B4-U0-G4
	J6	42550	40850	37440			B4-U0-G4	B4-U0-G4	B4-U0-G4
	K6	42980	41260	37820			B4-U0-G4	B4-U0-G4	B4-U0-G4
	L6						B4-U0-G5	B4-U0-G5	B4-U0-G4
	M6						B3-U0-G5	B3-U0-G5	B3-U0-G5
	N6	42550	40850	37440			B5-U0-G4	B5-U0-G4	B4-U0-G4

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LUMEN OUTPUT	DISTRIBUTION	TYPICAL INITIAL LUMENS			TYPICAL SYSTEM WATTAGE		BUG RATINGS		
							4000K	3000K	2700K
		4000K	3000K	2700K	120V-277V	277V-480V	B-U-G	B-U-G	B-U-G
48	A6	48000	46080	43920	342	342	B4-U0-G4	B4-U0-G4	B4-U0-G4
	B6						B4-U0-G5	B4-U0-G5	B4-U0-G5
	C6						B4-U0-G5	B4-U0-G5	B4-U0-G5
	D6						B3-U0-G5	B3-U0-G5	B3-U0-G5
	E6						B5-U0-G5	B5-U0-G5	B4-U0-G4
	J6	45840	44006	41944			B4-U0-G4	B4-U0-G4	B4-U0-G4
	K6						B4-U0-G4	B4-U0-G4	B4-U0-G4
	L6						B4-U0-G5	B4-U0-G5	B4-U0-G5
	M6						B3-U0-G5	B3-U0-G5	B3-U0-G5
	N6						B5-U0-G4	B5-U0-G4	B5-U0-G4

CUSTOMER NAME

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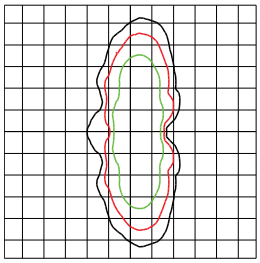
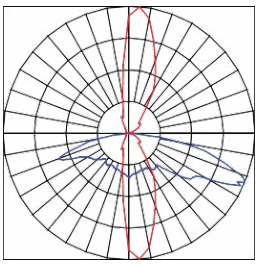
CATALOG NUMBER

ERLS
Type II Narrow
45,000 Lumens
4000K
ERLS_45A640.IES

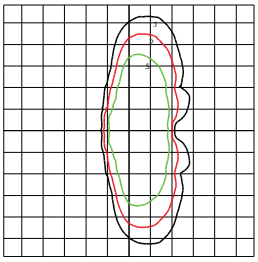


- Mounting Height at 50'
- Initial Footcandle at Grade

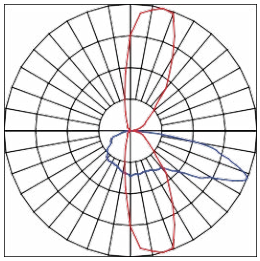


Vertical plane at max Cd horiz. angle 85°
Horizontal cone at max Cd vert. angle 67°

ERLS
Type II Wide
45,000 Lumens
4000K
ERLS_45B640.IES

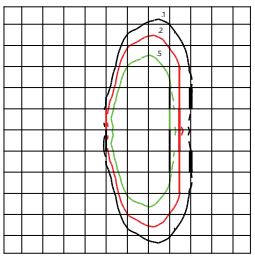


- Mounting Height at 50'
- Initial Footcandle at Grade

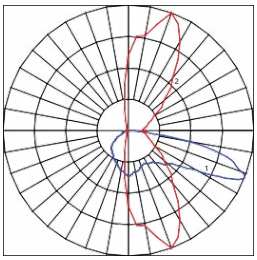


Vertical plane at max Cd horiz. angle 75°
Horizontal cone at max Cd vert. angle 68°

ERLS
Type III
45,000 Lumens
4000K
ERLS_45C640.IES

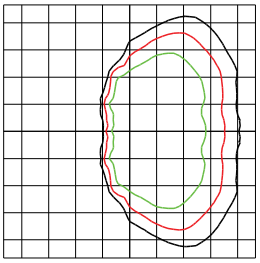


- Mounting Height at 50'
- Initial Footcandle at Grade

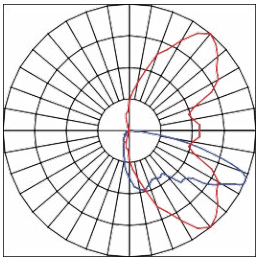


Vertical plane at max Cd horiz. angle 70°
Horizontal cone at max Cd vert. angle 68°

ERLS
Type IV
45,000 Lumens
4000K
ERLS_45D640.IES
Forward Throw

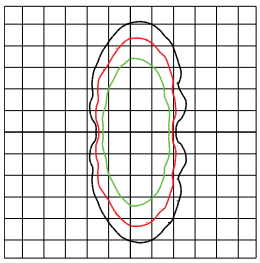


- Mounting Height at 50'
- Initial Footcandle at Grade

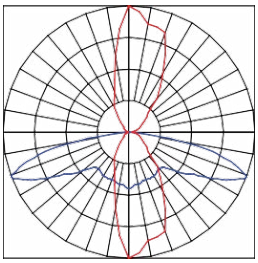


Vertical plane at max Cd horiz. angle 45°
Horizontal cone at max Cd vert. angle 67°

ERLS
Type II Enhanced Backlight
45,000 Lumens
4000K
ERLS_45E640.IES



- Mounting Height at 50'
- Initial Footcandle at Grade



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

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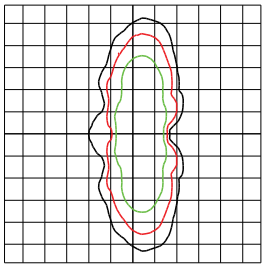
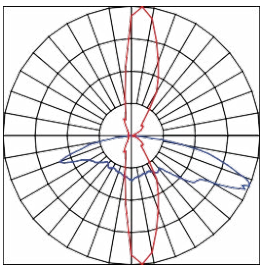
ERLS
Type II Narrow
45,000 Lumens
4000K
ERLS_45J640.IES

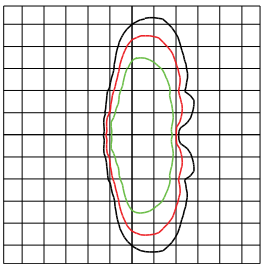


- Mounting Height at 50'
- Initial Footcandle at Grade

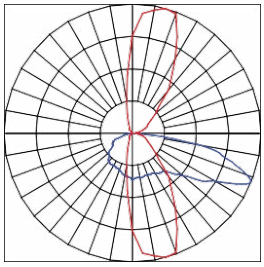


Vertical plane at max Cd horiz. angle 0°
Horizontal cone at max Cd vert. angle 24°

ERLS
Type II Wide
45,000 Lumens
4000K
ERLS_45K640.IES

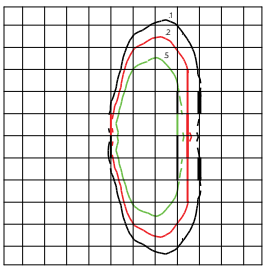


- Mounting Height at 50'
- Initial Footcandle at Grade

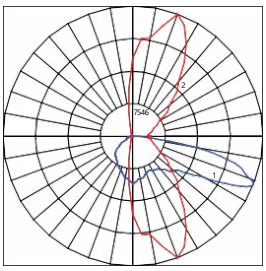


Vertical plane at max Cd horiz. angle 0°
Horizontal cone at max Cd vert. angle 37°

ERLS
Type III
45,000 Lumens
4000K
ERLS_45L640.IES

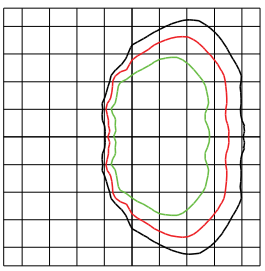


- Mounting Height at 50'
- Initial Footcandle at Grade

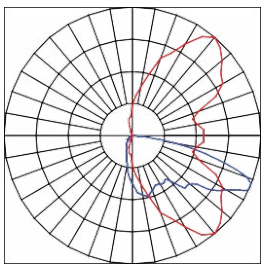


Vertical plane at max Cd horiz. angle 65°
Horizontal cone at max Cd vert. angle 59°

ERLS
Type IV
45,000 Lumens
4000K
ERLS_45M640.IES
Forward Throw

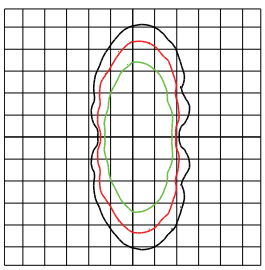


- Mounting Height at 50'
- Initial Footcandle at Grade

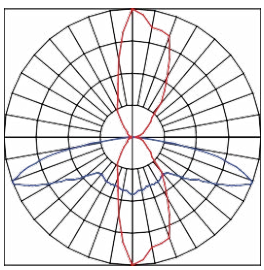


Vertical plane at max Cd horiz. angle 0°
Horizontal cone at max Cd vert. angle 24°

ERLS
Type II Enhanced Backlight
45,000 Lumens
4000K
ERLS_45N640.IES

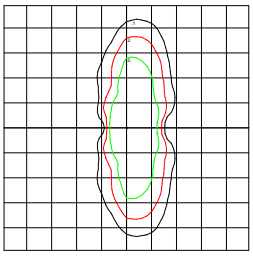


- Mounting Height at 50'
- Initial Footcandle at Grade

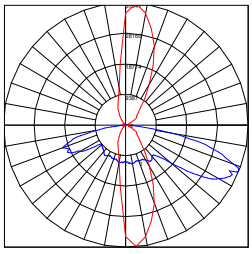


Vertical plane at max Cd horiz. angle 85°
Horizontal cone at max Cd vert. angle 58°

ERLS
Type II Narrow
48,000 Lumens
4000K
ERLS_48A640.IES

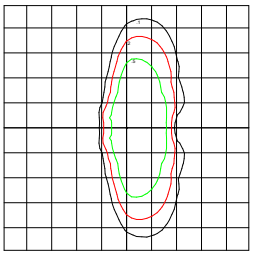


- Mounting Height at 50'
- Initial Footcandle at Grade

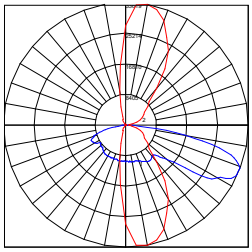


Vertical plane at max Cd horiz. angle 85°
Horizontal cone at max Cd vert. angle 68°

ERLS
Type II Wide
48,000 Lumens
4000K
ERLS_48B640.IES

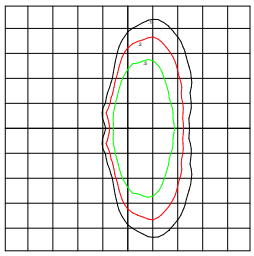


- Mounting Height at 50'
- Initial Footcandle at Grade

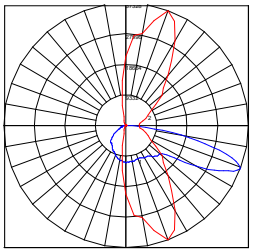


Vertical plane at max Cd horiz. angle 80°
Horizontal cone at max Cd vert. angle 69°

ERLS
Type III
48,000 Lumens
4000K
ERLS_48C640.IES

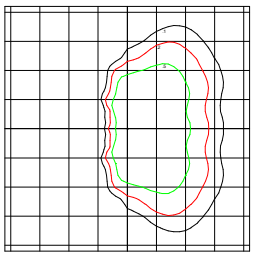


- Mounting Height at 50'
- Initial Footcandle at Grade

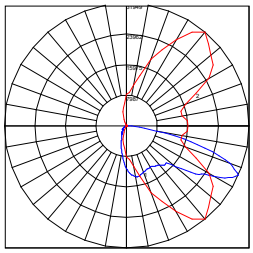


Vertical plane at max Cd horiz. angle 70°
Horizontal cone at max Cd vert. angle 69°

ERLS
Type IV
48,000 Lumens
4000K
ERLS_48D640.IES

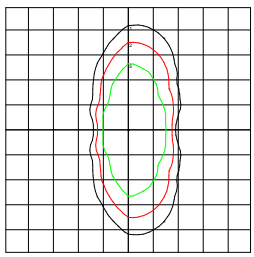


- Mounting Height at 50'
- Initial Footcandle at Grade

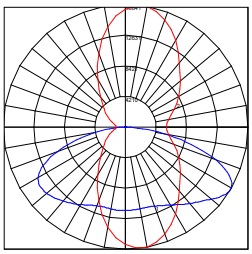


Vertical plane at max Cd horiz. angle 50°
Horizontal cone at max Cd vert. angle 66°

ERLS
Type II Enhanced Backlight
48,000 Lumens
4000K
ERLS_48E640.IES



- Mounting Height at 50'
- Initial Footcandle at Grade



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

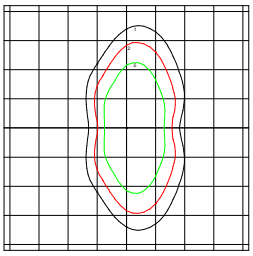
CUSTOMER NAME

PROJECT NAME

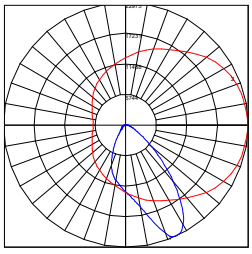
DATE TYPE

CATALOG NUMBER

ERLS
Type II Narrow
45,840 Lumens
4000K
ERLS_48J640.IES

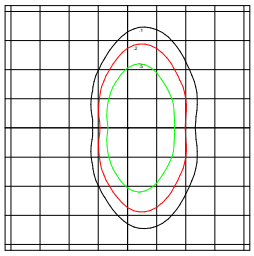


- Mounting Height at 50'
- Initial Footcandle at Grade

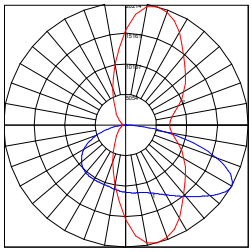


Vertical plane at max Cd horiz. angle 0°
Horizontal cone at max Cd vert. angle 24°

ERLS
Type II Wide
45,840 Lumens
4000K
ERLS_48K640.IES

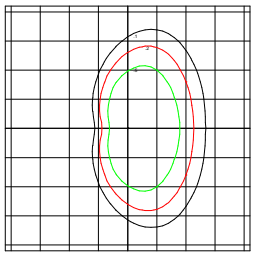


- Mounting Height at 50'
- Initial Footcandle at Grade

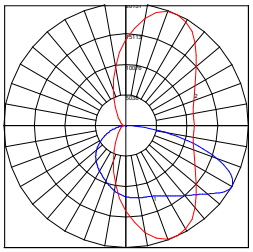


Vertical plane at max Cd horiz. angle 75°
Horizontal cone at max Cd vert. angle 60°

ERLS
Type III
45,840 Lumens
4000K
ERLS_48L640.IES

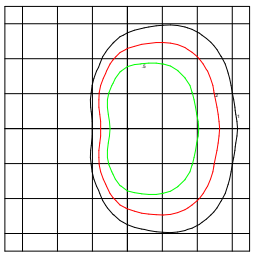


- Mounting Height at 50'
- Initial Footcandle at Grade

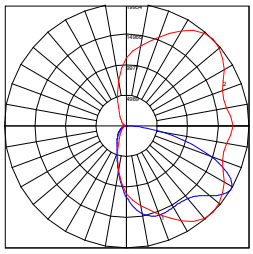


Vertical plane at max Cd horiz. angle 65°
Horizontal cone at max Cd vert. angle 60°

ERLS
Type IV
45,840 Lumens
4000K
ERLS_48M640.IES

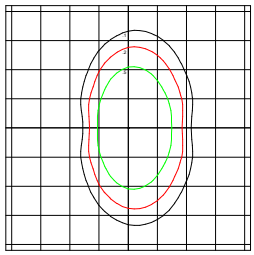


- Mounting Height at 50'
- Initial Footcandle at Grade

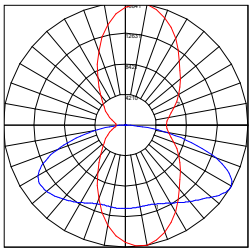


Vertical plane at max Cd horiz. angle 45°
Horizontal cone at max Cd vert. angle 59°

ERLS
Type II Enhanced Backlight
45,840 Lumens
4000K
ERLS_48N640.IES



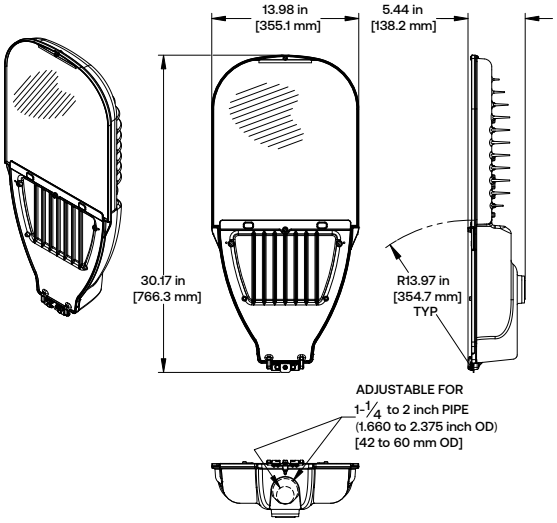
- Mounting Height at 50'
- Initial Footcandle at Grade



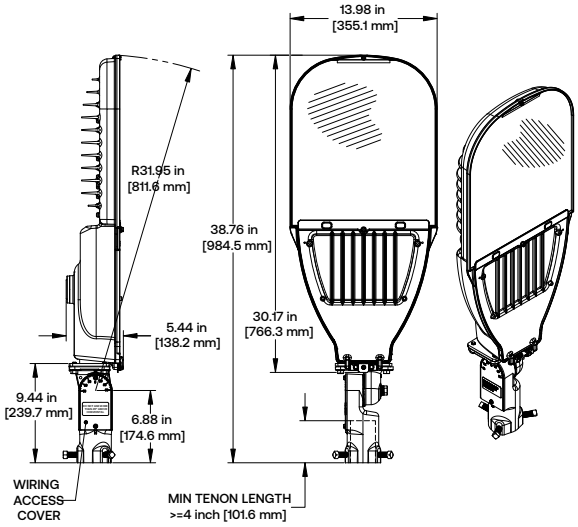
Vertical plane at max Cd horiz. angle 80°
Horizontal cone at max Cd vert. angle 59°

Mounting/Dimensions

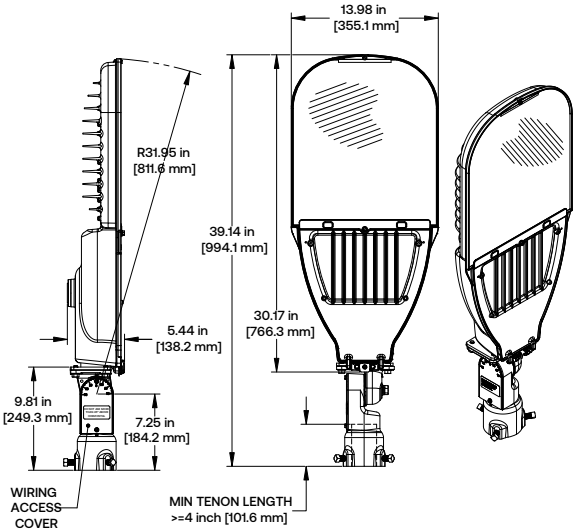
Internal SF Mounting



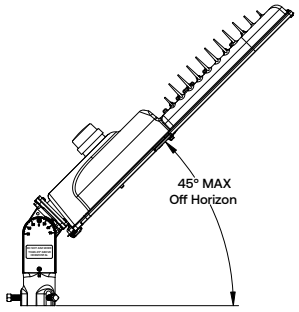
K1 Mounting



S1 Mounting



Aiming Restrictions



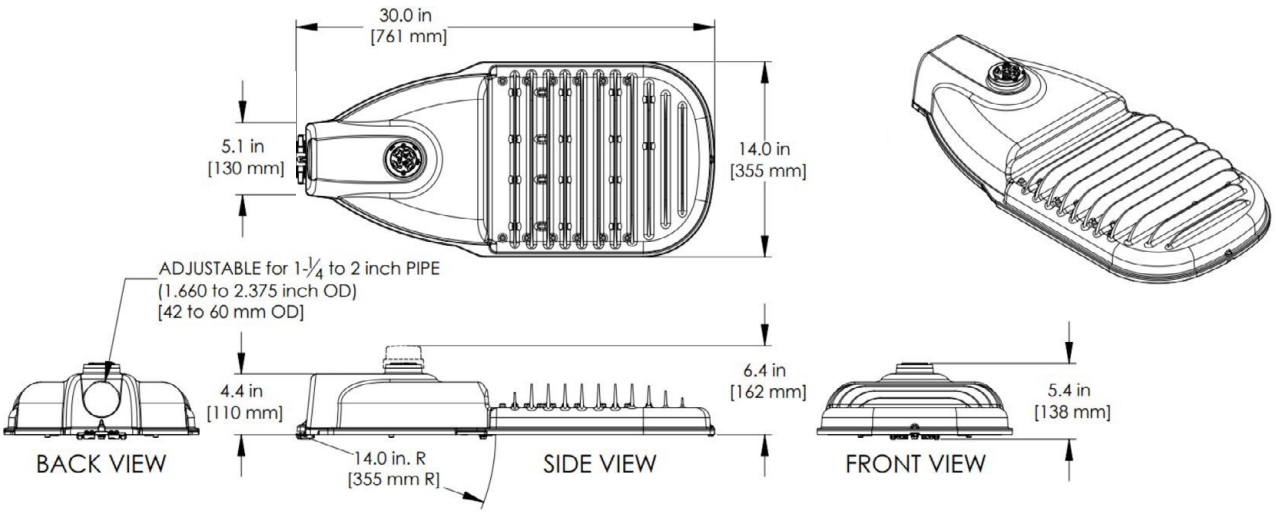
K1/S1 Mounting

Evolve®

ERLS Setback Luminaire
LED Roadway Lighting

CUSTOMER NAME
PROJECT NAME
DATE TYPE
CATALOG NUMBER

Dimensions



Standard (N1) 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

MOUNTING	ANGLE (DEGREES)	MAX EPA
N1	0	0.60ft² (.056 m²)
K1/S1	0	0.90ft² (.083 m²)
	22.5	1.39ft² (.129 m²)
	45	2.15 ft2 (.200 m2)

Weight

- Fixture (w/o knuckle) ≤ 26.0 (11.8kg)
- With K1 or S1 Knuckle ≤32.9 lbs (14.9 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 277-480V
73251	SCCL-PECTL	Shorting Cap

Network Lighting Controls

DESCRIPTION

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.