EVOLVE



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) 1986 1K07						

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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.

Lumen Maintenance

Projected Lxx per IES TM-21-11 at 25°C									
LUMEN	DISTRIBUTION	LXX(10K) @ HOURS							
CODE	CODE	25K HOURS	50KHOURS	60K HOURS					
25		99	97	97					
30		98	96	95					
33		98	95	94					
35	A6, B6, C6, D6, E6, J6, K6, L6, M6, N6	98	95	94					
40	,,,,	96	93	91					
45		96	92	90					
48		97	96	95					
	Projected Lxx p	er IES TM-21-21 a	t 25 °C						

45	A6, B6, C6, D6, E6,	96	92	90
48	J6, K6, L6, M6, N6	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
	0

Warranty

5 Year (Standard)

10 Year (Optional)

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ERLS Setback Luminaire

LED Roadway Lighting

Ordering Information

ERLS

PRODUCT ID	VOLTAGE	LUMEN CODE (SEE CLAIMS TABLE)	DISTRIBUTION ²	сст	CONTROLS	MOUNTING ARM	COLOR	OPTIONS
E= Evolve R = Roadway L = Local S = Setback SELECT SINGL VOLTAGES ON REQUIRED 1 = 7 2 = 2 3 = 2 4 = D = 5 = 4	0 = 120-277V ¹ H = 347-480V ¹ E = 277-480V ¹ J F F Y IF FUSING IS 120V 208V 240V 277V 347V 480V	25 30 33 (120-277 only) 35 40 45 48	A6 = Type II Narrow B6 = Type II/III C6 = Type IV 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 N6 = Type IV w/ Visual Comfort Lens N6 = Type II Enhanced Back Light w/ Visual Comfort Lone	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 Optione

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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ERLS Setback Luminaire

LED Roadway Lighting

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							BUG RATINGS		
	DISTRIBUTION	TYPICA		LUMENS	TYPICAL SYS	IEM WAI IAGE	4000K	3000K	2700K
		4000K	3000K	2700K	120V-277V	277V-480V	B-U-G	B-U-G	B-U-G
	A6	24750	23760	21780			B3-U0-G3	B3-U0-G3	B3-U0-G3
	B6						B3-U0-G3	B3-U0-G3	B3-U0-G3
	C6	25000	24000	22000			B3-U0-G4	B3-U0-G4	B3-U0-G3
	D6						B2-U0-G4	B2-U0-G4	B2-U0-G4
05	E6	24750	23760	21780	140	140	B4-U0-G4	B4-U0-G4	B3-U0-G3
25	JG	23640	22690	20800	148	148	B3-U0-G3	B3-U0-G3	B3-U0-G3
	K6						B3-U0-G3	B3-U0-G3	B3-U0-G3
	L6	23880	22920	21010			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
	A6	29700	28510	26140		182	B3-U0-G3	B3-U0-G3	B3-U0-G3
	B6	30000	28800	26400	182		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
20	E6	29700	28510	26140			B4-U0-G4	B4-U0-G4	B4-U0-G4
30	JG	28360	27230	24960			B4-U0-G3	B3-U0-G3	B3-U0-G3
	K6		27500	25210			B3-U0-G3	B3-U0-G3	B3-U0-G3
	L6	28650					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
	A6	32670	31360	28750			B4-U0-G4	B4-U0-G4	B3-U0-G3
	B6					-	B3-U0-G4	B3-U0-G4	B3-U0-G4
	C6	33000	31680	29040			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
33	J6	31200	29950	27460	204	N/A	B4-U0-G3	B4-U0-G3	B3-U0-G3
	K6						B3-U0-G3	B3-U0-G3	B3-U0-G3
	L6	31520	30260	27740			B3-U0-G4	B3-U0-G4	B3-U0-G4
	Me						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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ERLS Setback Luminaire

LED Roadway Lighting

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						BUG RATINGS			
	DISTRIBUTION	TYPICA	LINITIAL	LUMENS	TYPICAL SYS	TEM WATTAGE	4000K	3000K	2700K
		4000K	3000K	2700K	120V-277V	277V-480V	B-U-G	B-U-G	B-U-G
	A6	34650	33260	30490			B4-U0-G4	B4-U0-G4	B4-U0-G3
	B6						B4-U0-G4	B3-U0-G4	B3-U0-G4
	C6	35000	33600	30800			B4-U0-G4	B3-U0-G4	B3-U0-G4
	D6						B3-U0-G5	B3-U0-G4	B3-U0-G4
25	E6	34650	33260	30490	000	000	B4-U0-G4	B4-U0-G4	B4-U0-G4
35	J6	33090	31770	29120	223	223	B4-U0-G3	B4-U0-G3	B4-U0-G3
	K6						B4-U0-G4	B4-U0-G3	B3-U0-G3
	L6	33430	32090	29420			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
10	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
40	J6	37820	36310	33280			B4-U0-G4	B4-U0-G3	B4-U0-G3
	K6		36670				B4-U0-G4	B4-U0-G4	B4-U0-G4
	L6	38200		33620			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
	A6	44550	42770	39200			B4-U0-G4	B4-U0-G4	B4-U0-G4
	B6						B4-U0-G5	B4-U0-G5	B4-U0-G4
	C6	45000	43200	39600			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
45	JG	42550	40850	37440	302	302	B4-U0-G4	B4-U0-G4	B4-U0-G4
	К6						B4-U0-G4	B4-U0-G4	B4-U0-G4
	L6	42980	41260	37820			B4-U0-G5	B4-U0-G5	B4-U0-G4
	M6						B3-U0-G5	B3-U0-G5	B3-U0-G5
	N6	42550	40850	37440	40		B5-U0-G4	B5-U0-G4	B4-U0-G4

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		TYPICAL INITIAL LUMENS			TYPICAL SYSTEM WATTAGE		BUG RATINGS		
	DISTRIBUTION						4000K	3000K	2700K
		4000K	3000K	2700K	120V-277V	277V-480V	B-U-G	B-U-G	B-U-G
	A6						B4-U0-G4	B4-U0-G4	B4-U0-G4
	B6			46080 43920	43920	B4-U0-G5	B4-U0-G5	B4-U0-G5	
	C6	48000	46080			342	B4-U0-G5	B4-U0-G5	B4-U0-G5
	D6						B3-U0-G5	B3-U0-G5	B3-U0-G5
40	E6						B5-U0-G5	B5-U0-G5	B4-U0-G4
48	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	1					B5-U0-G4	B5-U0-G4	B5-U0-G4

ERLS Setback Luminaire

LED Roadway Lighting

ERLS Type II Narrow 45,000 Lumens

4000K ERLS_45A640.IES



 Mounting Height at 50' Initial Footcandle at Grade

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



· Mounting Height at 50

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



· Initial Footcandle at Grade

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

• Mounting Height at 50' Initial Footcandle at Grade



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



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



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



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



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

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

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ERLS Setback Luminaire

LED Roadway Lighting



 Mounting Height at 50' · Initial Footcandle at Grade

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

ERLS_45J640.IES

ERLS Type II Narrow 45,000 Lumens 4000K



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



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

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



Mounting Height at 50' · Initial Footcandle at Grade CUSTOMER NAME

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



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



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



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



Horizontal cone at max Cd vert. angle 58°



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ERLS Setback Luminaire

LED Roadway Lighting

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

> Mounting Height at 50' . Initial Footcandle at Grade

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

> 48,000 Lumens 4000K

ERLS_48C640.IES

ERLS Type IV 48,000 Lumens 4000K



· Mounting Height at 50'

• Mounting Height at 50' Initial Footcandle at Grade



Mounting Height at 50'Initial Footcandle at Grade



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ERLS_48D640.IES

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

CUSTOMER NAME

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CATALOG NUMBER



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



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



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



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



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



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ERLS Setback Luminaire

LED Roadway Lighting

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



. Initial Footcandle at Grade

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

> ERLS Type III 45,840 Lumens 4000K



· Mounting Height at 50' Initial Footcandle at Grade



· Initial Footcandle at Grade



Mounting Height at 50'Initial Footcandle at Grade



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

Type II Enhanced Backlight

45,840 Lumens 4000K

ERLS_48N640.IES

ERLS

ERLS_48L640.IES

CUSTOMER NAME

PROJECT NAME

DATE

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



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



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



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



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

TYPE

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ERLS Setback Luminaire LED Roadway Lighting

Mounting/Dimensions



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TYPE

K1 Mounting



S1 Mounting



Aiming Restrictions



K1/S1 Mounting

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ERLS Setback Luminaire

LED Roadway Lighting

Dimensions

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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	0.60ft ² (.056 m ²)
K1/S1	0	0.90ft² (.083 m²)
	22.5	1.39ft ² (.129 m ²)
	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	PECOTL	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.