

Exterior Building Color & Material Samples

Color Drawdowns

Archaeological Resources

Airport Vicinity Development Checklist

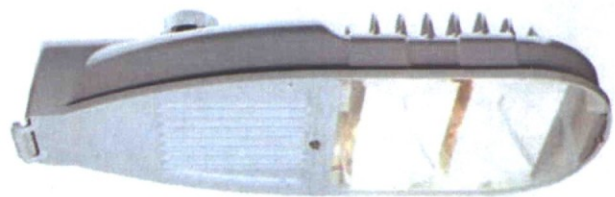
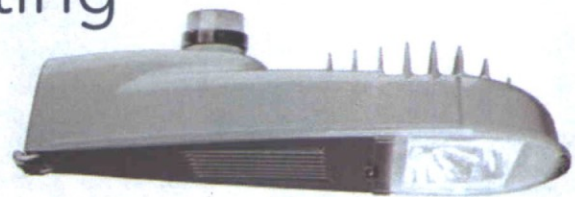
Parking Study

Trip Generation Comparison

Parking Master Plan



GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2



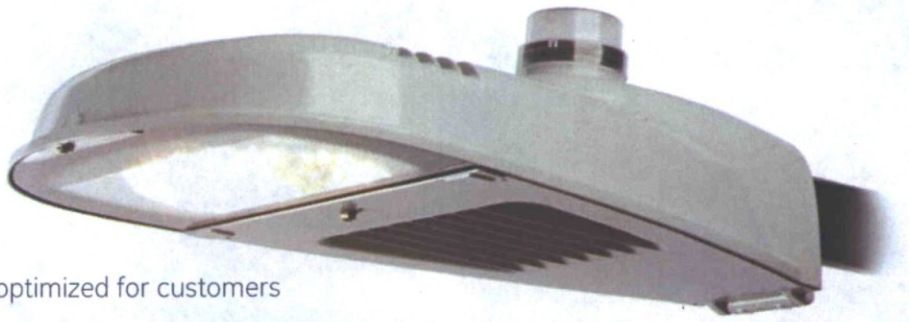
current
powered by GE



Subject to Change

14-PP-2017
11/15/2017

GE Evolve™ LED Roadway Lighting ERL1-ERLH-ERL2



The **Evolve** LED Roadway Luminaire is optimized for customers requiring a LED solution for local, collector and major roadways. GE's unique reflective optics are designed to optimize application efficiency and minimize glare. The modern design incorporates the heat sink directly into the unit for heat transfer to prolong LED life. This reliable unit has a 100,000 hour design life, significantly reducing maintenance needs and expense over the life of the fixture. This efficient solution lowers energy consumption compared to a traditional HID fixture for additional operating cost savings.

Features:

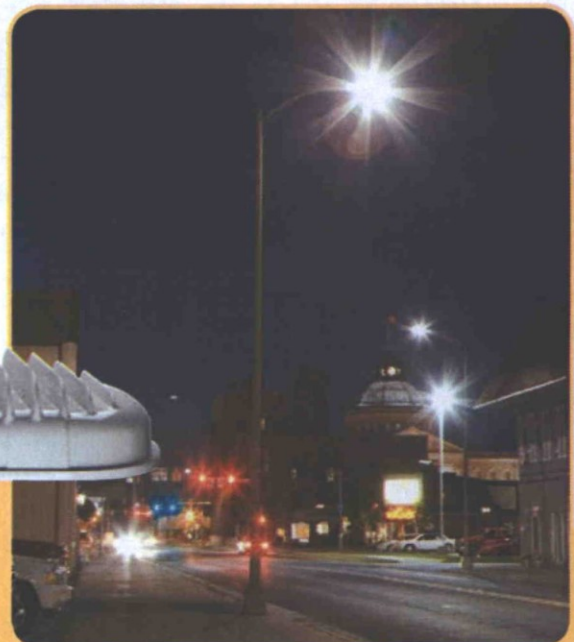
- Optimized roadway photometric distributions
- **Evolve™** light engine consisting of reflective technology designed to optimize application efficiency and minimize glare
- 70 CRI at 2700K, 3000K and 4000K typical.
- -40°C to 50°C UL Ambient Typical.
- ULOR = 0 (zero uplight)
- Designed & Assembled in USA

Applications:

- Local Roadways
- Collector Roadways
- Major Roadway/Streets



Compatible with **LightGrid™** Outdoor Wireless Control System



To learn more about **GE Evolve LED Roadway Lighting**, go to: www.currentbyge.com

GE Evolve™

LED Roadway Lighting

ERL1-ERLH-ERL2



Project name _____

Date _____

Type _____

Typical Specifications: ERL1-ERLH-ERL2

LED & Optical

- **Output Range:** 1900 – 30000 lm
- **Photometric Options:** Type II Narrow, Type II Wide, Type III, Type IV
- **System Efficacy:** 100 - 145 LPW
- **CCT:** 2700K, 3000K, 4000K; High brightness LEDs @ 70 CRI
- **Lumen Maintenance Tables:**

Projected Lxx per IES TM-21 at 25°C for reference:

OPTICAL CODES	LXX@10,000 HOURS		
	25,000 HR	50,000 HR	100,000 HR
02,03,04,05,06	L96	L95	L91
07,08,09	L95	L91	L84
10	L89	L80	L64

Note: Projected Lxx based on LM80 (10,000 hour testing). DOE Lighting Facts Verification Testing Tolerances apply to initial luminous flux and lumen maintenance measurements.

OPTICAL CODES	LXX@6,000 HOURS		
	25,000 HR	50,000 HR	100,000 HR
10, 11	L96	L94	L90
13, 14	L95	L92	L86
15, 16	L93	L89	L81

Note: Projected Lxx based on LM80 (6,000 hour testing). DOE Lighting Facts Verification Testing Tolerances apply to initial luminous flux and lumen maintenance measurements.

Electrical

- **Input Voltage:** 120-277 volt and 347-480 volt
- **Input Frequency:** 50/60Hz
- **Power Factor (PF)*:** >90%
- **Total Harmonic Distortion (THD)*:** <20%

* Power factor and THD is tested and specified at 120V input and maximum load conditions. PF>0.88 and THD<26% for 347/480V supply applicable only to the ERL1H03 version.

Ratings

- **Surge Protection:** per ANSI C136.2-2015:
(Driver Internal):
 - 6kV/3kA "Basic: (120 Strikes)" - Standard on ERL1 (02-06)
 - 10kV/5kA "Enhanced: (40 Strikes)" - Standard on ERL1 (07 - 10), ERLH, ERL2
- **(Additional Separate Secondary SPD)**
 - 10kV/5kA "Enhanced: (40 Strikes)" - Option "R"
 - 20kV/10kA "Elevated" (40 Strikes) - Option "T"
- **Safety:** UL/cUL Listed. UL 1598 listed, suitable for wet locations (UL/cUL)
- **Environmental:** Compliant with the materials restrictions of RoHS
- **EMI:** Title 47 CFR Part 15 Class A
- **Vibration:** 3G per ANSI C136.31-2010
- **LM-79** testing in accordance with IESNA Standards
- **Std. Optical enclosure** rated per ANSI C136.25-2009:
 - ERL1/ERLH/ERL2 = IP65, Optional: IP66

Operating Temperature:

PRODUCT ID	LUMEN OUTPUT	AMBIENT READING
ERL1	02-10	-40°C to 50°C
ERLH	10-11	-40°C to 50°C
ERLH	13-16	-40°C to 45°C
ERL2	16-28	-40°C to 50°C
ERL2	30	-40°C to 45°C

Delayed start may be experienced < -35°C

Construction & Finish

- **Housing:**
 - Die Cast Enclosure
 - Casting-integral heat sink for maximum heat transfer
- **Lensing:** Impact resistant tempered glass, standard
- **Paint:** Corrosion resistant polyester powder painted, minimum 2.0 mil. thickness.
 - Standard Colors: Dark Bronze, Black, & Gray
 - RAL & custom colors available
 - Optional coastal finish available.
- **Weight:** 12.4lbs (5.6kg) – 24lbs (10.9kg)

Warranty

- **System Warranty:** 5 Year Standard, 10 Year Optional

Controls

- **Dimming:**
 - Standard: 0-10V; Optional: DALI (120-277V Only)
- **Sensors:**
 - Photo electric sensors (PE) available.
- **LightGrid™** compatible

Mounting

- Slipfitter with +/- 5 degree of adjustment for leveling.
- Integral die cast mounting pipe stop.
- Adjustable for 1.25 in. or 2 in. mounting pipe.

Suggested HID Replacement Lumen Levels

- ~4,000–5,000 lumens to replace 100W HPS Cobra-head
- ~7,000–8,800 lumens to replace 150W HPS Cobra-head
- ~8,500–11,500 lumens to replace 200W HPS Cobra-head
- ~11,500–14,000 lumens to replace 250W HPS Cobra-head
- ~21,000–30,000 lumens to replace 400W HPS Cobra-head

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

CONVERSION FROM PREVIOUS GENERATION OPTICS TO CURRENT GENERATION OPTICS**			
PREVIOUS	DESCRIPTION	CURRENT	DESCRIPTION
A1, B1	Extra Narrow/Narrow Asymmetric	A3	Type II Narrow
C1, E1	Asymmetric Short/Medium	B3	Type II Wide
D1, G1	Asymmetric Forward/Extra Wide	C3	Type III
F1	Asymmetric Wide	D3	Type IV

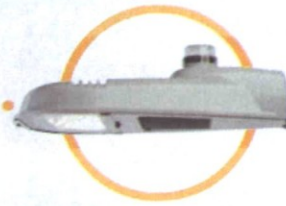
**The information above is designed to provide a guideline to select the correct luminaire for a roadway application. The best and most accurate way to ensure the proper design is do a lighting layout Utilizing AGI.

Subject to Change

GE Evolve™

LED Roadway Lighting

ERL1-ERLH-ERL2



Project name _____

Date _____

Type _____

ERL1

PROD. ID	VOLTAGE	LUMEN OUTPUT	DISTRIBUTION*	CCT	CONTROLS	COLOR	OPTIONS
E = Evolve	0 = 120-277V*	02*	A3 = Type II Narrow	27 = 2700K	A = ANSI C136.41 7-pin	GRAY = Gray	A = 4 Bolt Slipfitter†
R = Roadway	1 = 120	03	B3 = Type II Wide	30 = 3000K	D = ANSI C136.41 7-pin with Shorting Cap	BLCK = Black	F = Fusing
L = Local	2 = 208	04	C3 = Type III	40 = 4000K	E = ANSI C136.41 7-pin with non-Dimming PE Control.*	DKBZ = Dark Bronze	G = Internal Bubble Level
1 = Single Module	3 = 240	05	D3 = Type IV				I = IP66 Optical
	4 = 277	06	See Table				L = Tool-Less Entry
	5 = 480	07					R = Secondary 10kV/5kA SPD
	D = 347	08	*Nominal IES Type				U = DALI Programmable +^
	H = 347-480*	09	classing subject to				X = Single Package #
		10	typical variation,				Y = Coastal Finish *
			individual units				XXX = Special Options
			may differ.				† Contact manufacturer for Lead-Time.
							# "X" option provides single pack box per fixture. Std Packaging = 20 units per Magna pak container.
							* Recommended for installations within 750 ft. from the coast. Contact Factory for Lead-Time.
							+ Compatible with LightGrid 2.0 nodes.
							^ Not available in 347V, 480V or 347-480V for Lumen Output Levels 07, 08, 09, and 10.

LUMEN OUTPUT	DISTRIBUTION	TYPICAL INITIAL LUMENS			TYPICAL SYSTEM WATTAGE			BUG RATING			IES FILE NUMBER			
		4000K	3000K	2700K	120-277V	347-480V		4000K	3000K	2700K	120-277V	347-480V	120-277V	347-480V
02	A3	2000	1900	1900	14	N/A	B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_02A340-120VIES	N/A	ERL1_02A330-120VIES	N/A	ERL1_02A327-120VIES
	B3						B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_02B340-120VIES	N/A	ERL1_02B330-120VIES	N/A	ERL1_02B327-120VIES
	C3						B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_02C340-120VIES	N/A	ERL1_02C330-120VIES	N/A	ERL1_02C327-120VIES
	D3						TBD	TBD	TBD	TBD	N/A	TBD	N/A	TBD
03	A3	3000	2900	2800	22	26	B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_03A340-120-277VIES	ERL1_03A340-347-480VIES	ERL1_03A330-120-277VIES	ERL1_03A330-347-480VIES	ERL1_03A327-120-277VIES
	B3						B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_03B340-120-277VIES	ERL1_03B340-347-480VIES	ERL1_03B330-120-277VIES	ERL1_03B330-347-480VIES	ERL1_03B327-120-277VIES
	C3						B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_03C340-120-277VIES	ERL1_03C340-347-480VIES	ERL1_03C330-120-277VIES	ERL1_03C330-347-480VIES	ERL1_03C327-120-277VIES
	D3						TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
04	A3	4000	3900	3800	31	34	B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_04A340-120-277VIES	ERL1_04A340-347-480VIES	ERL1_04A330-120-277VIES	ERL1_04A330-347-480VIES	ERL1_04A327-120-277VIES
	B3						B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_04B340-120-277VIES	ERL1_04B340-347-480VIES	ERL1_04B330-120-277VIES	ERL1_04B330-347-480VIES	ERL1_04B327-120-277VIES
	C3						B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_04C340-120-277VIES	ERL1_04C340-347-480VIES	ERL1_04C330-120-277VIES	ERL1_04C330-347-480VIES	ERL1_04C327-120-277VIES
	D3						TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
05	A3	5000	4900	4700	39	43	B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_05A340-120-277VIES	ERL1_05A340-347-480VIES	ERL1_05A330-120-277VIES	ERL1_05A330-347-480VIES	ERL1_05A327-120-277VIES
	B3						B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_05B340-120-277VIES	ERL1_05B340-347-480VIES	ERL1_05B330-120-277VIES	ERL1_05B330-347-480VIES	ERL1_05B327-120-277VIES
	C3						B1-U0-G2	B1-U0-G2	B1-U0-G2	ERL1_05C340-120-277VIES	ERL1_05C340-347-480VIES	ERL1_05C330-120-277VIES	ERL1_05C330-347-480VIES	ERL1_05C327-120-277VIES
	D3						TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
06	A3	6000	5800	5700	47	52	B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_06A340-120-277VIES	ERL1_06A340-347-480VIES	ERL1_06A330-120-277VIES	ERL1_06A330-347-480VIES	ERL1_06A327-120-277VIES
	B3						B1-U0-G2	B1-U0-G2	B1-U0-G2	ERL1_06B340-120-277VIES	ERL1_06B340-347-480VIES	ERL1_06B330-120-277VIES	ERL1_06B330-347-480VIES	ERL1_06B327-120-277VIES
	C3						B1-U0-G2	B1-U0-G2	B1-U0-G2	ERL1_06C340-120-277VIES	ERL1_06C340-347-480VIES	ERL1_06C330-120-277VIES	ERL1_06C330-347-480VIES	ERL1_06C327-120-277VIES
	D3						TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
07	A3	7000	6800	6600	58		B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_07A340-120-277VIES	ERL1_07A340-347-480VIES	ERL1_07A330-120-277VIES	ERL1_07A330-347-480VIES	ERL1_07A327-120-277VIES
	B3						B1-U0-G2	B1-U0-G2	B1-U0-G2	ERL1_07B340-120-277VIES	ERL1_07B340-347-480VIES	ERL1_07B330-120-277VIES	ERL1_07B330-347-480VIES	ERL1_07B327-120-277VIES
	C3						B1-U0-G2	B1-U0-G2	B1-U0-G2	ERL1_07C340-120-277VIES	ERL1_07C340-347-480VIES	ERL1_07C330-120-277VIES	ERL1_07C330-347-480VIES	ERL1_07C327-120-277VIES
	D3						TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
08	A3	8000	7800	7600	71		B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_08A340-120-277VIES	ERL1_08A340-347-480VIES	ERL1_08A330-120-277VIES	ERL1_08A330-347-480VIES	ERL1_08A327-120-277VIES
	B3						B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_08B340-120-277VIES	ERL1_08B340-347-480VIES	ERL1_08B330-120-277VIES	ERL1_08B330-347-480VIES	ERL1_08B327-120-277VIES
	C3						B1-U0-G2	B1-U0-G2	B1-U0-G2	ERL1_08C340-120-277VIES	ERL1_08C340-347-480VIES	ERL1_08C330-120-277VIES	ERL1_08C330-347-480VIES	ERL1_08C327-120-277VIES
	D3						TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
09	A3	9000	8800	8500	84		B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_09A340-120-277VIES	ERL1_09A340-347-480VIES	ERL1_09A330-120-277VIES	ERL1_09A330-347-480VIES	ERL1_09A327-120-277VIES
	B3						B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_09B340-120-277VIES	ERL1_09B340-347-480VIES	ERL1_09B330-120-277VIES	ERL1_09B330-347-480VIES	ERL1_09B327-120-277VIES
	C3						B2-U0-G2	B1-U0-G2	B1-U0-G2	ERL1_09C340-120-277VIES	ERL1_09C340-347-480VIES	ERL1_09C330-120-277VIES	ERL1_09C330-347-480VIES	ERL1_09C327-120-277VIES
	D3						TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
10	A3	9800	9600	9250	97		B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_10A340-120-277VIES	ERL1_10A340-347-480VIES	ERL1_10A330-120-277VIES	ERL1_10A330-347-480VIES	ERL1_10A327-120-277VIES
	B3						B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_10B340-120-277VIES	ERL1_10B340-347-480VIES	ERL1_10B330-120-277VIES	ERL1_10B330-347-480VIES	ERL1_10B327-120-277VIES
	C3						B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_10C340-120-277VIES	ERL1_10C340-347-480VIES	ERL1_10C330-120-277VIES	ERL1_10C330-347-480VIES	ERL1_10C327-120-277VIES
	D3						TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

GE Evolve™

LED Roadway Lighting

ERL1-ERLH-ERL2

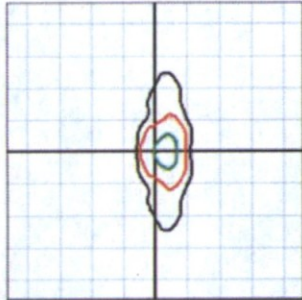
Photometrics:

Evolve™ LED Streetlight (ERL1)

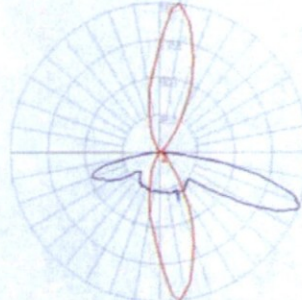
ERL1

Type II Narrow
(02A3)

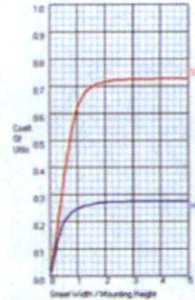
2,000 Lumens
4000K
ERL1_02A340____.IES



Grid Distance in Units of Mounting Height
at 30' Initial Footcandle Values at Grade



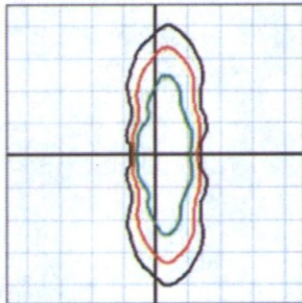
— Vertical plane through horizontal angle
of maximum candlepower at 80°
— Vertical plane through horizontal angle of 67°



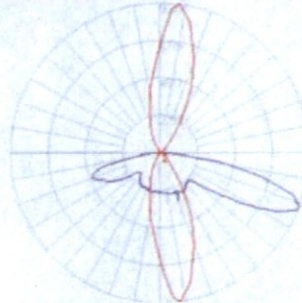
ERL1

Type II Narrow
(10A3)

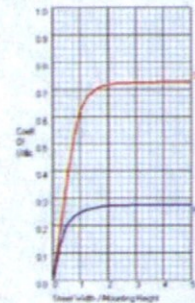
10,000 Lumens
4000K
ERL1_10A340____.IES



Grid Distance in Units of Mounting Height
at 30' Initial Footcandle Values at Grade



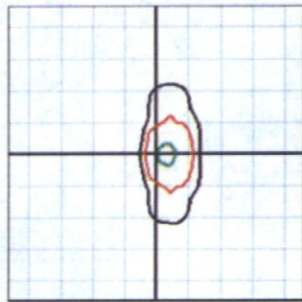
— Vertical plane through horizontal angle
of maximum candlepower at 80°
— Vertical plane through horizontal angle of 67°



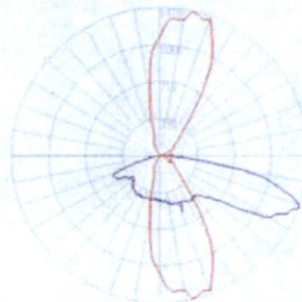
ERL1

Type II Wide
(02B3)

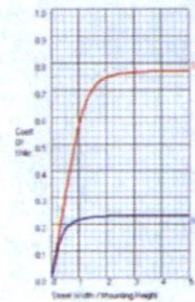
2,000 Lumens
4000K
ERL1_02B340____.IES



Grid Distance in Units of Mounting Height
at 30' Initial Footcandle Values at Grade



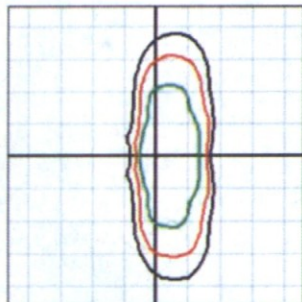
— Vertical plane through horizontal angle
of maximum candlepower at 75°
— Vertical plane through horizontal angle of 69°



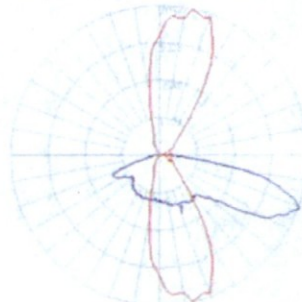
ERL1

Type II Wide
(10B3)

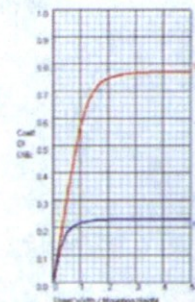
10,000 Lumens
4000K
ERL1_10B340____.IES



Grid Distance in Units of Mounting Height
at 30' Initial Footcandle Values at Grade



— Vertical plane through horizontal angle
of maximum candlepower at 75°
— Vertical plane through horizontal angle of 69°



GE Evolve

LED Roadway Lighting

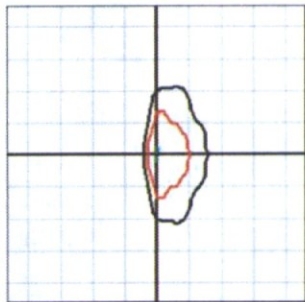
ERL1-ERLH-ERL2

Photometrics:

Evolve™ LED Streetlight (ERL1)

ERL1
Type III
(02C3)

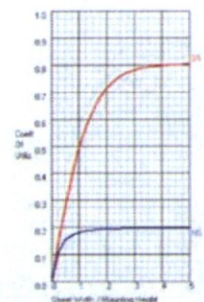
2,000 Lumens
4000K
ERL1_02C340____.IES



Grid Distance in Units of Mounting Height
at 30° Initial Footcandle Values at Grade

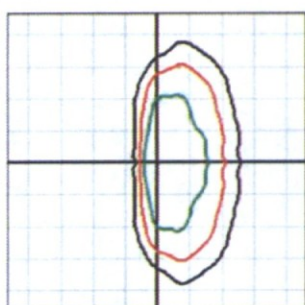


— Vertical plane through horizontal angle
of maximum candlepower at 75°
— Vertical plane through horizontal angle of 70°

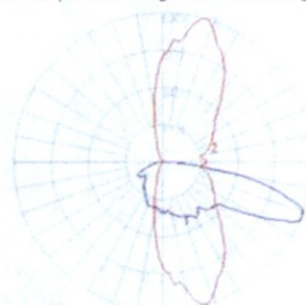


ERL1
Type III
(10C3)

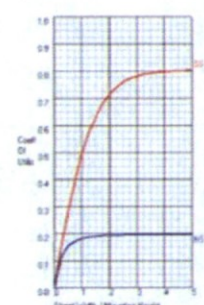
10,000 Lumens
4000K
ERL1_10C340____.IES



Grid Distance in Units of Mounting Height
at 30° Initial Footcandle Values at Grade



— Vertical plane through horizontal angle
of maximum candlepower at 75°
— Vertical plane through horizontal angle of 70°



ERL1
Type IV
(02D3)

2,000 Lumens
4000K
ERL1_02D340____.IES

**AVAILABLE
JUNE 2017**

**AVAILABLE
JUNE 2017**

Grid Distance in Units of Mounting Height
at xx° Initial Footcandle Values at Grade

— Vertical plane through horizontal angle
of maximum candlepower at xx°
— Vertical plane through horizontal angle of xx°

ERL1
Type IV
(10D3)

10,000 Lumens
4000K
ERL1_10D340____.IES

**AVAILABLE
JUNE 2017**

**AVAILABLE
JUNE 2017**

Grid Distance in Units of Mounting Height
at xx° Initial Footcandle Values at Grade

— Vertical plane through horizontal angle
of maximum candlepower at xx°
— Vertical plane through horizontal angle of xx°

GE Evolve™

LED Roadway Lighting

ERL1-ERLH-ERL2



Project name _____

Date _____

Type _____

ERLH

PROD. ID	VOLTAGE	LUMEN OUTPUT	DISTRIBUTION*	CCT	CONTROLS	COLOR	OPTIONS
E = Evolve R = Roadway L = Local H = High Output	0 = 120-277V* 1 = 120 2 = 208 3 = 240 4 = 277 5 = 480 D = 347 H = 347-480*	10 11 13 14 15 16 See Table	A3 = Type II Narrow B3 = Type II Wide C3 = Type III D3 = Type IV See Table *Nominal IES Type classing subject to typical variation, individual units may differ.	30 = 3000K 40 = 4000K	A = ANSI C136.41 7-pin D = ANSI C136.41 7-pin with Shorting Cap E = ANSI C136.41 7-pin with non-Dimming PE Control.* *PE Control Only available for 120-277V or 480V Discrete. Not available for 347-480V or 347V Discrete. NOTE: Dimming controls wired for 0-10V standard unless DALI option "U" requested.	GRAY = Gray BLCK = Black DKBZ = Dark Bronze	A = 4 Bolt Slipfitter † F = Fusing G = Internal Bubble Level I = IP66 Optical L = Tool-Less Entry R = Secondary 10kV/5kA SPD U = DALI Programmable +^ X = Single Package # Y = Coastal Finish * XXX = Special Options † Contact manufacturer for Lead-Time. # "X" option provides single pack box per fixture. Std Packaging = 20 units per Magna pak container. * Recommended for installations within 750 ft. from the coast. Contact Factory for Lead-Time. + Compatible with LightGrid 2.0 nodes. ^ Not available in 347V, 480V or 347-480V.

LUMEN OUTPUT	DISTRIBUTION	TYPICAL INITIAL LUMENS		TYPICAL SYSTEM WATTAGE		BUG RATING		IES FILE NUMBER	
		4000K	3000K	120-277V	347-480V	4000K	3000K	4000K	3000K
10	A3	10000	9600	82	82	B2-U0-G2	B2-U0-G2	ERLH_10A340 .IES	ERLH_10A330 .IES
	B3					B2-U0-G2	B2-U0-G2	ERLH_10B340 .IES	ERLH_10B330 .IES
	C3					B2-U0-G3	B2-U0-G2	ERLH_10C340 .IES	ERLH_10C330 .IES
	D3					TBD	TBD	TBD	TBD
11	A3	11500	11000	96	97	B3-U0-G3	B2-U0-G2	ERLH_11A340 .IES	ERLH_11A330 .IES
	B3					B3-U0-G3	B2-U0-G2	ERLH_11B340 .IES	ERLH_11B330 .IES
	C3					B2-U0-G3	B2-U0-G3	ERLH_11C340 .IES	ERLH_11C330 .IES
	D3					TBD	TBD	TBD	TBD
13	A3	13000	12500	111	112	B3-U0-G3	B3-U0-G3	ERLH_13A340 .IES	ERLH_13A330 .IES
	B3					B2-U0-G3	B2-U0-G3	ERLH_13B340 .IES	ERLH_13B330 .IES
	C3					B2-U0-G3	B2-U0-G3	ERLH_13C340 .IES	ERLH_13C330 .IES
	D3					TBD	TBD	TBD	TBD
14	A3	14000	13400	122	123	B3-U0-G3	B3-U0-G3	ERLH_14A340 .IES	ERLH_14A330 .IES
	B3					B2-U0-G3	B2-U0-G3	ERLH_14B340 .IES	ERLH_14B330 .IES
	C3					B2-U0-G3	B2-U0-G3	ERLH_14C340 .IES	ERLH_14C330 .IES
	D3					TBD	TBD	TBD	TBD
15	A3	15000	14400	136	136	B3-U0-G3	B3-U0-G3	ERLH_15A340 .IES	ERLH_15A330 .IES
	B3					B2-U0-G3	B2-U0-G3	ERLH_15B340 .IES	ERLH_15B330 .IES
	C3					B2-U0-G3	B2-U0-G3	ERLH_15C340 .IES	ERLH_15C330 .IES
	D3					TBD	TBD	TBD	TBD
16	A3	16000	15300	149	149	B3-U0-G3	B3-U0-G3	ERLH_16A340 .IES	ERLH_16A330 .IES
	B3					B3-U0-G3	B3-U0-G3	ERLH_16B340 .IES	ERLH_16B330 .IES
	C3					B2-U0-G3	B2-U0-G3	ERLH_16C340 .IES	ERLH_16C330 .IES
	D3					TBD	TBD	TBD	TBD

GE Evolve™ LED Roadway Lighting

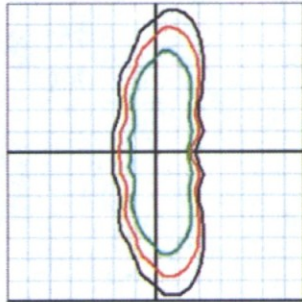
ERL1-ERLH-ERL2

Photometrics: Evolve™ LED Streetlight (ERLH)

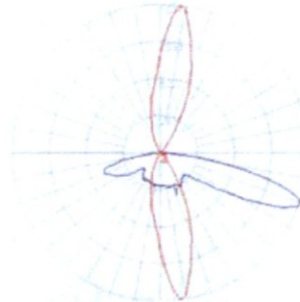
ERLH

Type II Narrow
(10A3)

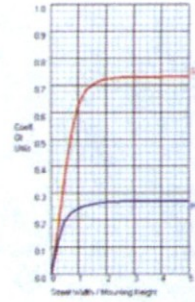
10,000 Lumens
4000K
ERLH_10A340____.IES



Grid Distance in Units of Mounting Height
at 30' Initial Footcandle Values at Grade



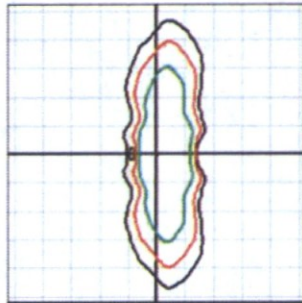
— Vertical plane through horizontal angle
of maximum candlepower at 80°
— Vertical plane through horizontal angle of 69°



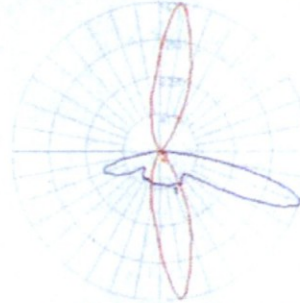
ERLH

Type II Narrow
(16A3)

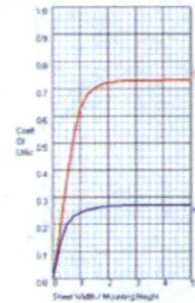
16,000 Lumens
4000K
ERLH_16A340____.IES



Grid Distance in Units of Mounting Height
at 30' Initial Footcandle Values at Grade



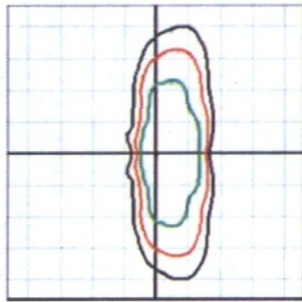
— Vertical plane through horizontal angle
of maximum candlepower at 80°
— Vertical plane through horizontal angle of 69°



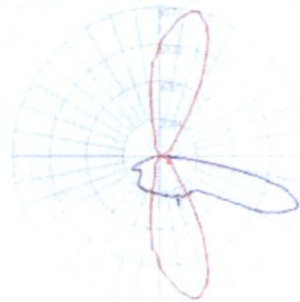
ERLH

Type II Wide
(10B3)

10,000 Lumens
4000K
ERLH_10B340____.IES



Grid Distance in Units of Mounting Height
at 30' Initial Footcandle Values at Grade



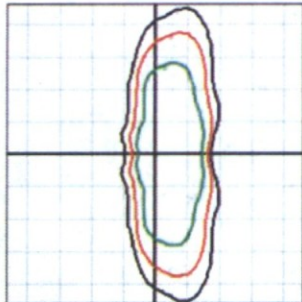
— Vertical plane through horizontal angle
of maximum candlepower at 75°
— Vertical plane through horizontal angle of 72°



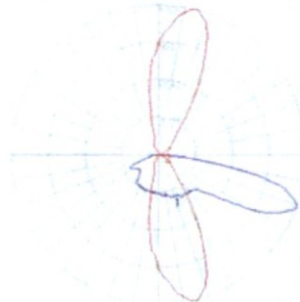
ERLH

Type II Wide
(16B3)

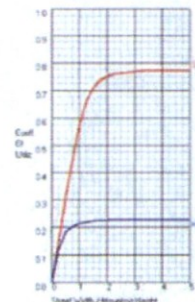
16,000 Lumens
4000K
ERLH_16B340____.IES



Grid Distance in Units of Mounting Height
at 30' Initial Footcandle Values at Grade



— Vertical plane through horizontal angle
of maximum candlepower at 75°
— Vertical plane through horizontal angle of 72°



GE Evolve™

LED Roadway Lighting

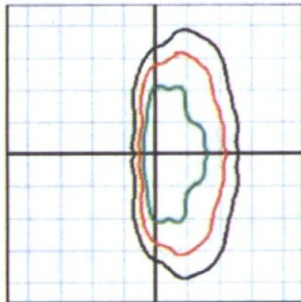
ERL1-ERLH-ERL2

Photometrics:

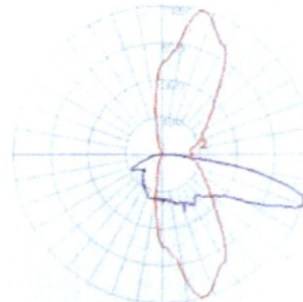
Evolve™ LED Streetlight (ERLH)

ERLH
Type III
(10C3)

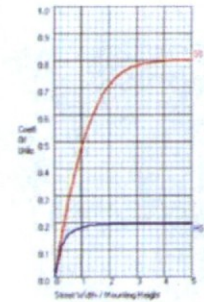
10,000 Lumens
4000K
ERLH_10C340____IES



Grid Distance in Units of Mounting Height
at 30' Initial Footcandle Values at Grade

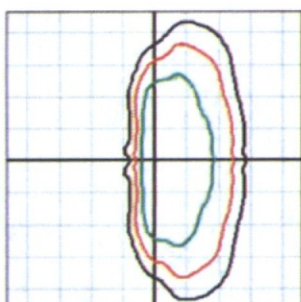


— Vertical plane through horizontal angle
of maximum candlepower at 75°
— Vertical plane through horizontal angle of 71°

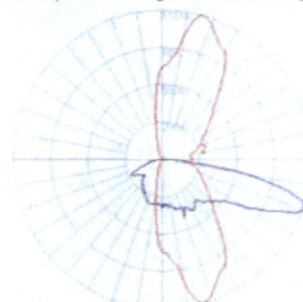


ERLH
Type III
(16C3)

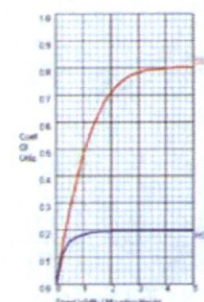
16,000 Lumens
4000K
ERLH_16C340____IES



Grid Distance in Units of Mounting Height
at 30' Initial Footcandle Values at Grade



— Vertical plane through horizontal angle
of maximum candlepower at 75°
— Vertical plane through horizontal angle of 71°



ERLH
Type IV
(10D3)

10,000 Lumens
4000K
ERLH_10D340____IES

**AVAILABLE
JUNE 2017**

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JUNE 2017**

Grid Distance in Units of Mounting Height
at xx' Initial Footcandle Values at Grade

— Vertical plane through horizontal angle
of maximum candlepower at xx°
— Vertical plane through horizontal angle of xx°

ERLH
Type IV
(16D3)

16,000 Lumens
4000K
ERLH_16D340____IES

**AVAILABLE
JUNE 2017**

**AVAILABLE
JUNE 2017**

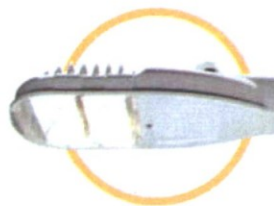
Grid Distance in Units of Mounting Height
at xx' Initial Footcandle Values at Grade

— Vertical plane through horizontal angle
of maximum candlepower at xx°
— Vertical plane through horizontal angle of xx°

GE Evolve

LED Roadway Lighting

ERL1-ERLH-ERL2



Project name _____

Date _____

Type _____

ERL2

PROD. ID	VOLTAGE	LUMEN OUTPUT	DISTRIBUTION*	CCT	CONTROLS	COLOR	OPTIONS
E = Evolve	0 = 120-277V*	16	A3 = Type II Narrow	30 = 3000K	A = ANSI C136.41 7-pin	GRAY = Gray	A = 4 Bolt Slipfitter †
R = Roadway	1 = 120	18	B3 = Type II Wide	40 = 4000K	D = ANSI C136.41 7-pin with Shorting Cap	BLCK = Black	F = Fusing
L = Local	2 = 208	19	C3 = Type III		E = ANSI C136.41 7-pin with non-Dimming PE Control.*	DKBZ = Dark Bronze	G = Internal Bubble Level
2 = Double Module	3 = 240	21	D3 = Type IV				I = IP66 Optical
	4 = 277	23	See Table				L = Tool-Less Entry
	5 = 480	25					R = Secondary 10kV/5kA SPD
	D = 347	27					T = Secondary 20kV/10kA SPD
	H = 347-480*	28					U = DALI Programmable ^
		30					Y = Coastal Finish *
							XXX = Special Options
							† Contact manufacturer for Lead-Time.
							* Recommended for installations within 750 ft. from the coast. Contact Factory for Lead-Time.
							+ Compatible with LightGrid 2.0 nodes.
							^ Not available in 347V, 480V or 347-480V.

LUMEN OUTPUT	DISTRIBUTION	TYPICAL INITIAL LUMENS		TYPICAL SYSTEM WATTAGE		BUG RATING		IES FILE NUMBER			
		4000K	3000K	120-277V	347-480V	4000K	3000K	120-277V	347-480V	120-277V	347-480V
16	A3	16000	15300	120	120	B3-U0-G3	B3-U0-G3	ERL2_16A340	IES	ERL2_16A330	IES
	B3					B3-U0-G3	B3-U0-G3	ERL2_16B340	IES	ERL2_16B330	IES
	C3					B2-U0-G3	B2-U0-G3	ERL2_16C340	IES	ERL2_16C330	IES
	D3					TBD	TBD	TBD	TBD	TBD	TBD
18	A3	18000	17300	140	140	B3-U0-G3	B3-U0-G3	ERL2_18A340	IES	ERL2_18A330	IES
	B3					B3-U0-G3	B3-U0-G3	ERL2_18B340	IES	ERL2_18B330	IES
	C3					B2-U0-G3	B2-U0-G3	ERL2_18C340	IES	ERL2_18C330	IES
	D3					TBD	TBD	TBD	TBD	TBD	TBD
19	A3	19000	18200	149	149	B3-U0-G3	B3-U0-G3	ERL2_19A340	IES	ERL2_19A330	IES
	B3					B3-U0-G3	B3-U0-G3	ERL2_19B340	IES	ERL2_19B330	IES
	C3					B3-U0-G3	B2-U0-G3	ERL2_19C340	IES	ERL2_19C330	IES
	D3					TBD	TBD	TBD	TBD	TBD	TBD
21	A3	21000	20100	174	177	B3-U0-G3	B3-U0-G3	ERL2_21A340	IES	ERL2_21A330	IES
	B3					B3-U0-G3	B3-U0-G3	ERL2_21B340	IES	ERL2_21B330	IES
	C3					B3-U0-G3	B3-U0-G3	ERL2_21C340	IES	ERL2_21C330	IES
	D3					TBD	TBD	TBD	TBD	TBD	TBD
23	A3	23000	22100	194	196	B3-U0-G3	B3-U0-G3	ERL2_23A340	IES	ERL2_23A330	IES
	B3					B3-U0-G3	B3-U0-G3	ERL2_23B340	IES	ERL2_23B330	IES
	C3					B3-U0-G3	B3-U0-G3	ERL2_23C340	IES	ERL2_23C330	IES
	D3					TBD	TBD	TBD	TBD	TBD	TBD
25	A3	25000	24000	214	214	B3-U0-G3	B3-U0-G3	ERL2_25A340	IES	ERL2_25A330	IES
	B3					B3-U0-G3	B3-U0-G3	ERL2_25B340	IES	ERL2_25B330	IES
	C3					B3-U0-G3	B3-U0-G3	ERL2_25C340	IES	ERL2_25C330	IES
	D3					TBD	TBD	TBD	TBD	TBD	TBD
27	A3	27000	25900	237	237	B3-U0-G3	B3-U0-G3	ERL2_27A340	IES	ERL2_27A330	IES
	B3					B3-U0-G3	B3-U0-G3	ERL2_27B340	IES	ERL2_27B330	IES
	C3					B3-U0-G3	B3-U0-G3	ERL2_27C340	IES	ERL2_27C330	IES
	D3					TBD	TBD	TBD	TBD	TBD	TBD
28	A3	28000	26900	251	251	B3-U0-G3	B3-U0-G3	ERL2_28A340	IES	ERL2_28A330	IES
	B3					B3-U0-G3	B3-U0-G3	ERL2_28B340	IES	ERL2_28B330	IES
	C3					B3-U0-G3	B3-U0-G3	ERL2_28C340	IES	ERL2_28C330	IES
	D3					TBD	TBD	TBD	TBD	TBD	TBD
30	A3	30000	28800	278	278	B3-U0-G3	B3-U0-G3	ERL2_30A340	IES	ERL2_30A330	IES
	B3					B3-U0-G3	B3-U0-G3	ERL2_30B340	IES	ERL2_30B330	IES
	C3					B3-U0-G3	B3-U0-G3	ERL2_30C340	IES	ERL2_30C330	IES
	D3					TBD	TBD	TBD	TBD	TBD	TBD

GE Evolve

LED Roadway Lighting

ERL1-ERLH-ERL2

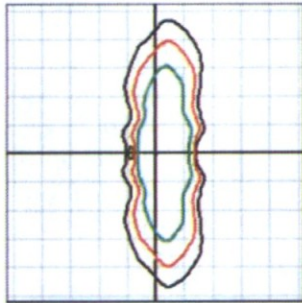
Photometrics:

Evolve™ LED Streetlight (ERL2)

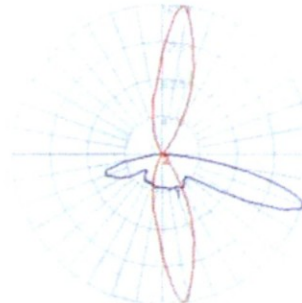
ERL2

Type II Narrow
(16A3)

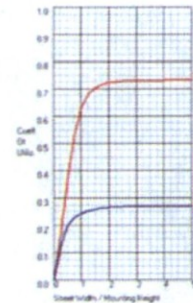
16,000 Lumens
4000K
ERL2_16A340____.IES



Grid Distance in Units of Mounting Height
at 30' Initial Footcandle Values at Grade



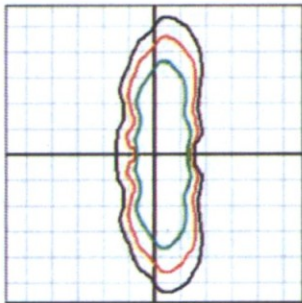
— Vertical plane through horizontal angle
of maximum candlepower at 80°
— Vertical plane through horizontal angle of 69°



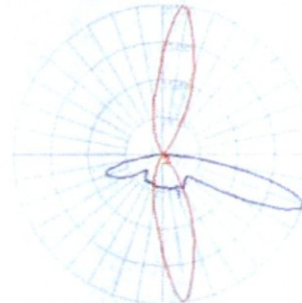
ERL2

Type II Narrow
(30A3)

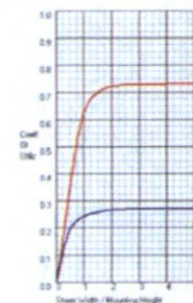
30,000 Lumens
4000K
ERL2_30A340____.IES



Grid Distance in Units of Mounting Height
at 30' Initial Footcandle Values at Grade



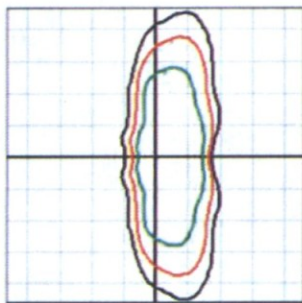
— Vertical plane through horizontal angle
of maximum candlepower at 80°
— Vertical plane through horizontal angle of 69°



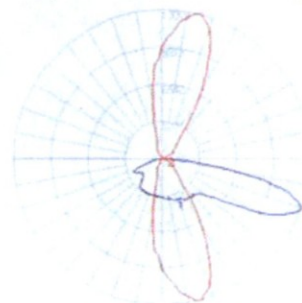
ERL2

Type II Wide
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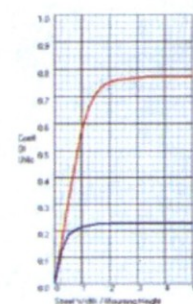
16,000 Lumens
4000K
ERL2_16B340____.IES



Grid Distance in Units of Mounting Height
at 30' Initial Footcandle Values at Grade



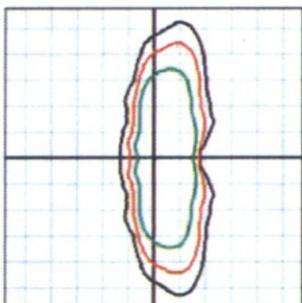
— Vertical plane through horizontal angle
of maximum candlepower at 75°
— Vertical plane through horizontal angle of 72°



ERL2

Type II Wide
(30B3)

30,000 Lumens
4000K
ERL2_30B340____.IES



Grid Distance in Units of Mounting Height
at 30' Initial Footcandle Values at Grade



— Vertical plane through horizontal angle
of maximum candlepower at 75°
— Vertical plane through horizontal angle of 72°



GE Evolve™

LED Roadway Lighting

ERL1-ERLH-ERL2

Photometrics:

Evolve™ LED Streetlight (ERL2)

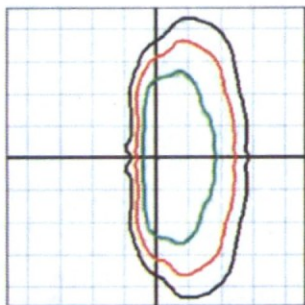
ERL2

Type III
(16C3)

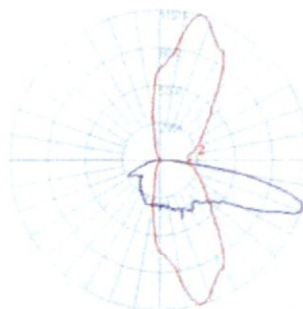
16,000 Lumens

4000K

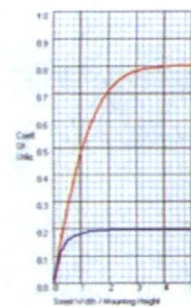
ERL2_16C340____.IES



Grid Distance in Units of Mounting Height
at 30' Initial Footcandle Values at Grade



— Vertical plane through horizontal angle
of maximum candlepower at 75°
— Vertical plane through horizontal angle of 71°



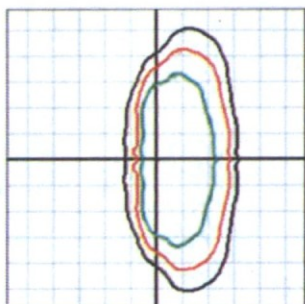
ERL2

Type III
(30C3)

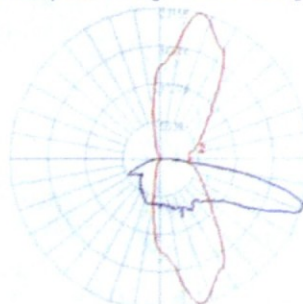
30,000 Lumens

4000K

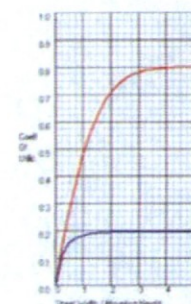
ERL2_30C340____.IES



Grid Distance in Units of Mounting Height
at 30' Initial Footcandle Values at Grade



— Vertical plane through horizontal angle
of maximum candlepower at 75°
— Vertical plane through horizontal angle of 71°



ERL2

Type IV
(16D3)

16,000 Lumens

4000K

ERL2_16D340____.IES

**AVAILABLE
JUNE 2017**

**AVAILABLE
JUNE 2017**

Grid Distance in Units of Mounting Height
at xx' Initial Footcandle Values at Grade

— Vertical plane through horizontal angle
of maximum candlepower at xx°
— Vertical plane through horizontal angle of xx°

ERL2

Type IV
(30D3)

30,000 Lumens

4000K

ERL2_30D340____.IES

**AVAILABLE
JUNE 2017**

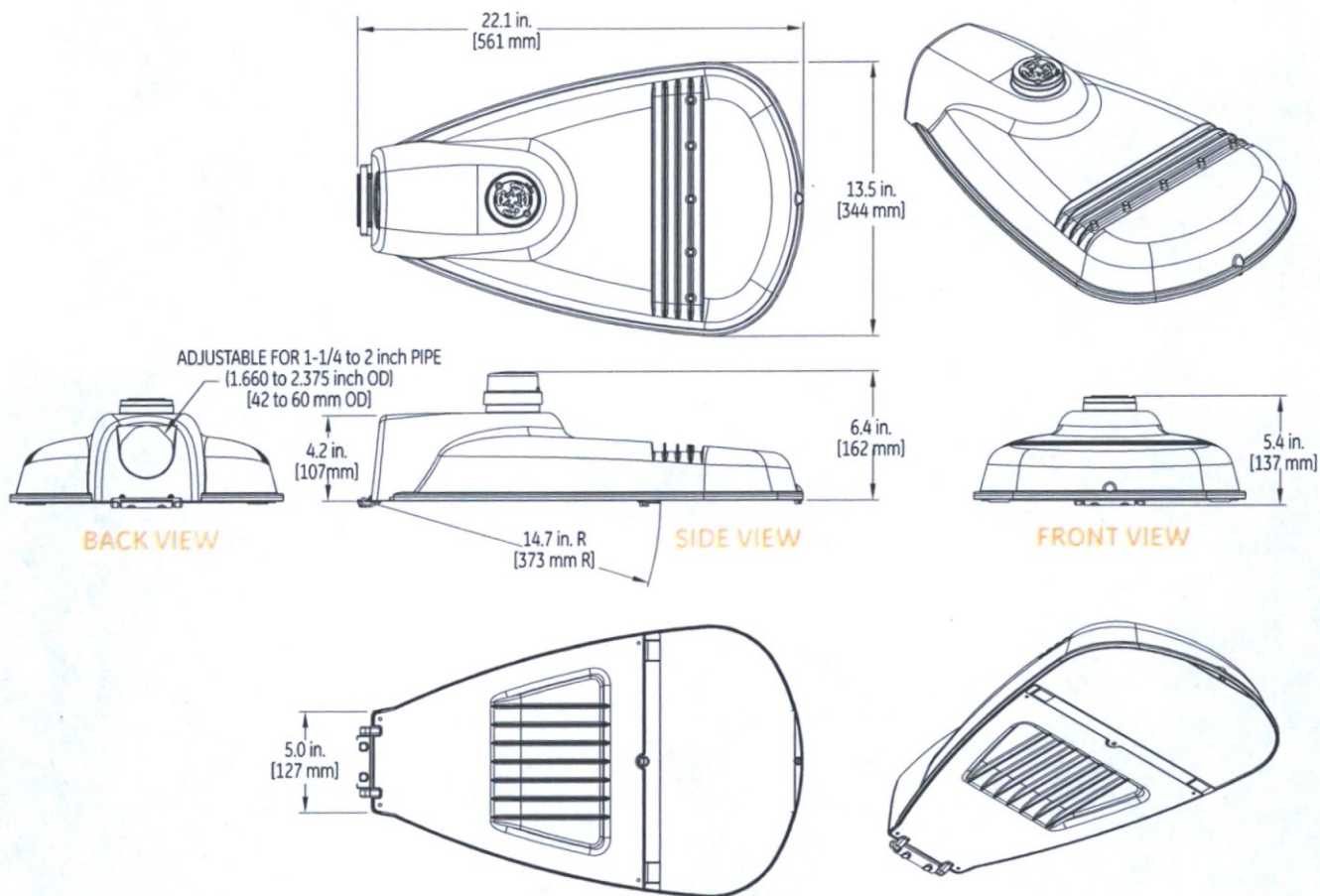
**AVAILABLE
JUNE 2017**

Grid Distance in Units of Mounting Height
at xx' Initial Footcandle Values at Grade

— Vertical plane through horizontal angle
of maximum candlepower at xx°
— Vertical plane through horizontal angle of xx°

GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2

Product Dimensions:
Evolve™ LED Streetlight (ERL1)



DATA

- Approximate net weight: 15.5 lbs (7.0 kgs)
Contact manufacturer for specific configuration weight.
- Effective Projected Area (EPA): 0.5 sq ft max (0.046 sq m)

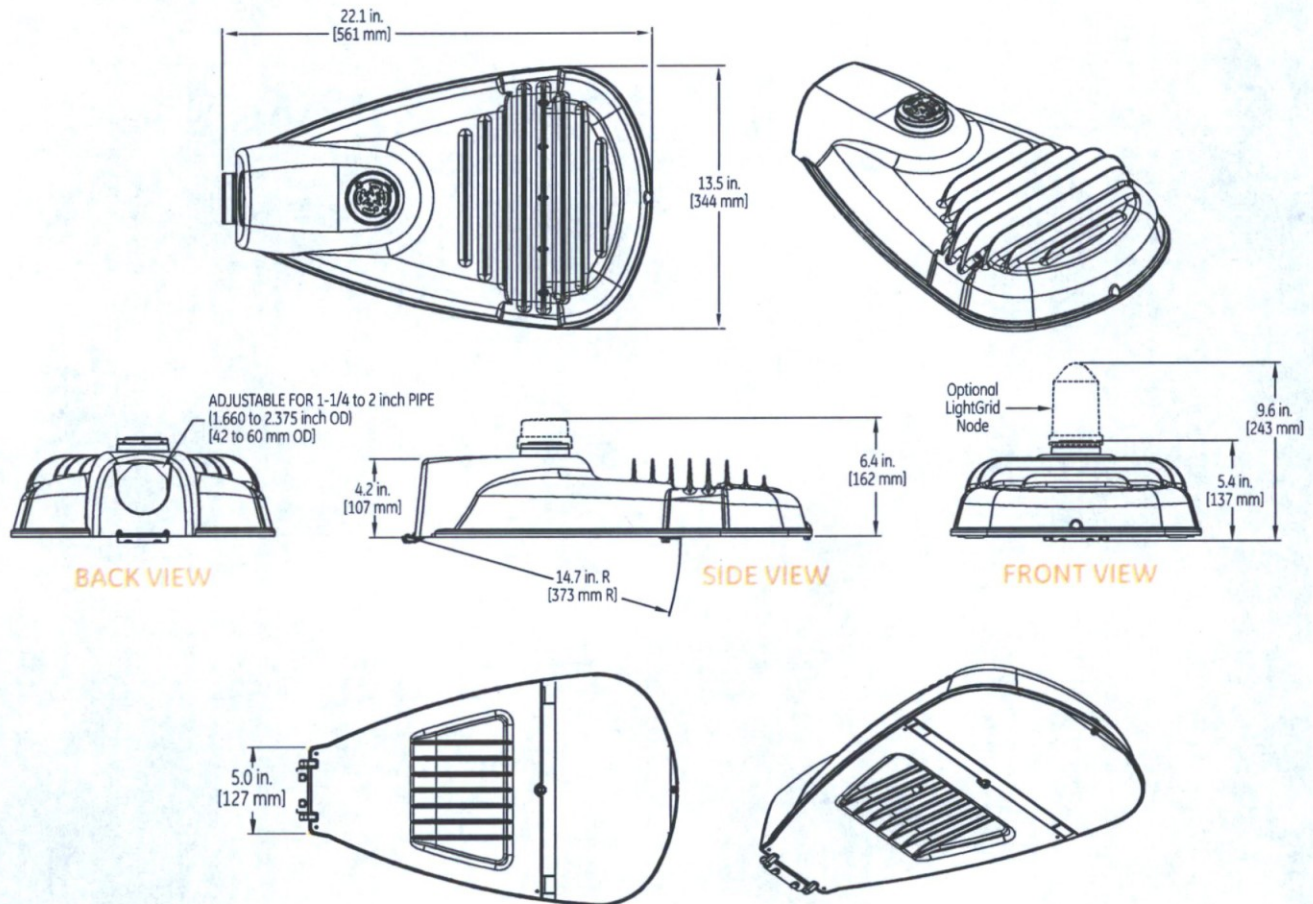
GE Evolve™

LED Roadway Lighting

ERL1-ERLH-ERL2

Product Dimensions:

Evolve™ LED Streetlight (ERLH)

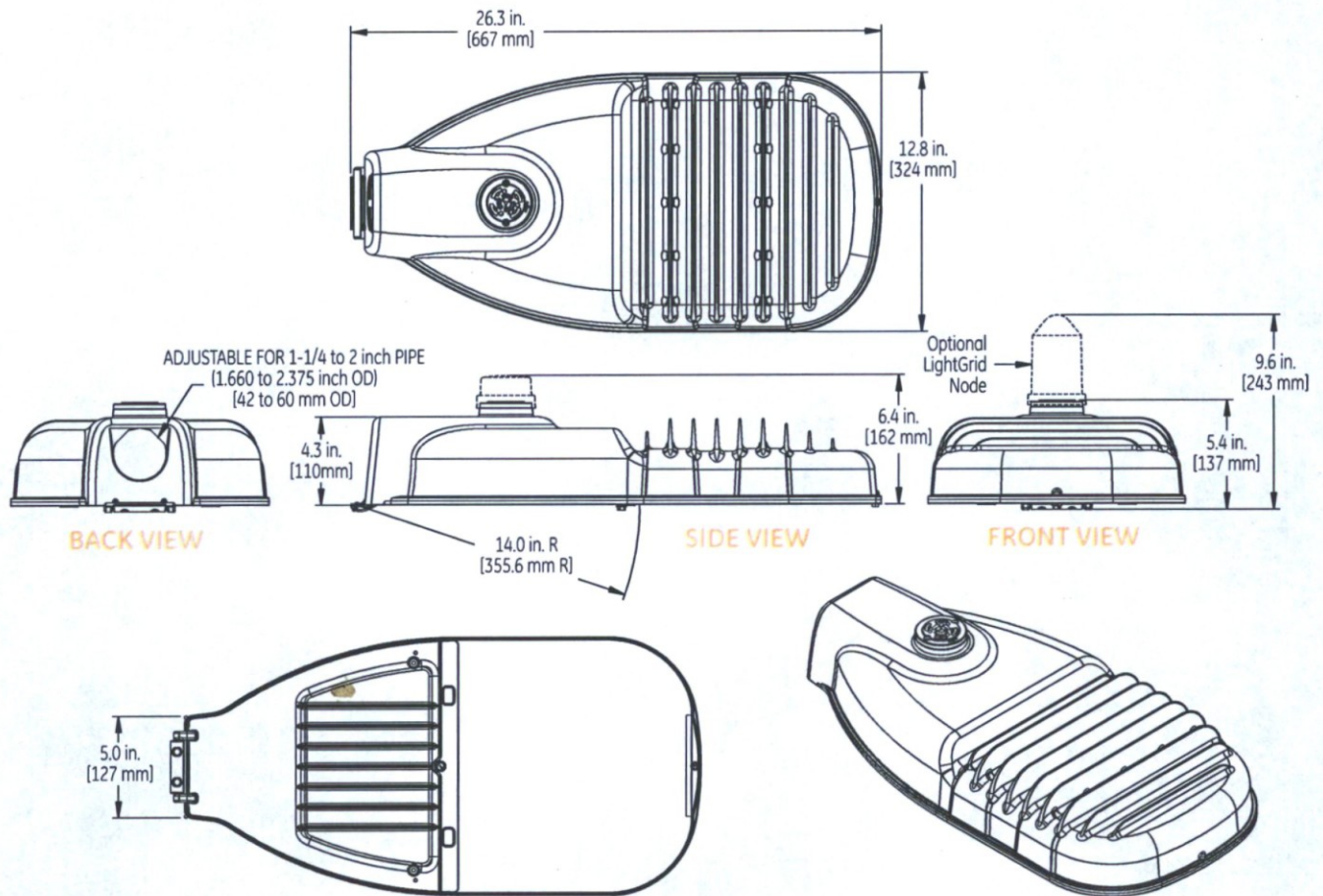


DATA

- Approximate net weight: 15.15 lbs (6.9 kgs) - 2 Bolt Slipfitter
- Approximate net weight: 15.85 lbs (7.2 kgs) - 4 Bolt Slipfitter
- Effective Projected Area (EPA): 0.5 sq ft max (0.046 sq m)

GE Evolve
LED Roadway Lighting
ERL1-ERLH-ERL2

Product Dimensions:
Evolve™ LED Streetlight (ERL2)



DATA

- Approximate net weight: 24.0 lbs (10.9 kgs)
Contact manufacturer for specific configuration weight.
- Effective Projected Area (EPA): 0.57 sq ft max (0.053 sq m)

GE Evolve

LED Roadway Lighting

ERL1-ERLH-ERL2



The GE Difference

Building on a reputation for quality and excellence that dates back to Edison's first electric light bulb, GE brings an unsurpassed depth and breadth of expertise to every product. Our commitment to providing the greatest value in high technological solutions is stronger than ever. We deliver innovative options backed by the international reputation of our 130-plus years in the business.

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powered by GE

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Subject to Change



Native Plant Inventory

Wolf Springs Ranch
9390 E. Cactus Road
Scottsdale, AZ

11/16/2016

Plant #	Common Name	Caliper (in)/ Height (ft)	Status	Comments
1	Ironwood	7	NS	Trunk Form / Leaning
2	Mesquite	8	S	
3	Saguaro	52	S	2 arms
4	Saguaro	27	NS	2 arms / Damaged
5	Mesquite	8	NS	Trunk Form / Leaning
6	Mesquite	16	NS	Trunk Form / Leaning
7	Mesquite	20	NS	Trunk Form / Leaning
8	Mesquite	10	NS	Trunk Form / Leaning
9	Mesquite	18	NS	Trunk Form / Leaning
10	Mesquite	12	NS	Trunk Form / Leaning
11	Mesquite	30	NS	Exposed Roots / Proximity to Building
12	Mesquite	30	NS	Leaning / Proximity to Building
13	Mesquite	14	NS	Trunk Form / Leaning
14	Mesquite	8	NS	Branch Dieback / Cambium Damage
15	Mesquite	6	S	
16	Mesquite	10	NS	Proximity to Concrete
17	Mesquite	12	NS	Trunk Form / Leaning
18	Mesquite	8	S	
19	Mesquite	6	NS	Trunk Form / Leaning
20	Mesquite	6	S	
21	Mesquite	14	NS	Proximity to Wall
22	Mesquite	10	S	
23	Mesquite	20	NS	Trunk Form / Leaning
24	Mesquite	30	NS	Wide Base / Leaning
25	Ironwood	20	NS	Trunk Form / Leaning
26	Ironwood	36	NS	Proximity to Wall
27	Saguaro	49	NS	10 arms / Damaged
28	Blue Palo Verde	22	NS	Form / Poor Structure
29	Yucca elata	14	NS	3 heads / Form / Proximity to Wall
30	Blue Palo Verde	14	NS	Leaning / Cambium Damage
31	Saguaro	62	NS	7 arms / Poor Form
32	Blue Palo Verde	14	NS	Leaning / Cambium Damage
33	Blue Palo Verde	20	NS	Leaning / Cambium Damage
34	Mesquite	30	NS	Trunk Form / Leaning
35	Mesquite	7	NS	Trunk Form / Leaning
36	Mesquite	6	NS	Trunk Form / Leaning
37	Mesquite	18	S	

Plant #	Common Name	Caliper (in)/ Height (ft)	Status	Comments
38	Mesquite	18	S	
39	Mesquite	10	NS	Trunk Form / Leaning
40	Mesquite	22	NS	Trunk Form / Leaning
41	Mesquite	24	NS	Leaning / Cambium Damage
42	Hackberry	10	NS	Leaning / Cambium Damage
43	Mesquite	10	NS	Trunk Form / Leaning
44	Mesquite	7	NS	Trunk Form / Leaning
45	Blue Palo Verde	10	NS	Leaning / Cambium Damage
46	Blue Palo Verde	12	NS	Leaning / Cambium Damage
47	Blue Palo Verde	16	NS	Branch Dieback / Cambium Damage
48	Mesquite	32	NS	Proximity to Concrete / Leaning
49	Mesquite	10	NS	Proximity to Concrete / Leaning
50	Mesquite	18	NS	Proximity to Concrete / Leaning
51	Mesquite	16	NS	Proximity to Concrete / Leaning
52	Mesquite	32	NS	Trunk Form / Poor Structure
53	Mesquite	8	NS	Trunk Form / Leaning
54	Blue Palo Verde	10	NS	Proximity to Concrete / Leaning
55	Blue Palo Verde	5	NS	Proximity to Concrete / Leaning
56	Mesquite	8	NS	Leaning / Cambium Damage
57	Mesquite	7	NS	Leaning / Cambium Damage
58	Mesquite	14	NS	Leaning / Cambium Damage
59	Mesquite	4	NS	Leaning / Cambium Damage
60	Mesquite	10	NS	Leaning / Cambium Damage
61	Mesquite	8	NS	Leaning / Cambium Damage
62	Mesquite	8	NS	Leaning / Cambium Damage
63	Mesquite	8	NS	Leaning / Cambium Damage
64	Mesquite	8	NS	Leaning / Cambium Damage
65	Mesquite	16	NS	Proximity to Concrete
66	Mesquite	7	NS	Trunk Form / Leaning
67	Mesquite	8	NS	Trunk Form / Leaning
68	Mesquite	12	NS	Proximity to Wall / Leaning
69	Mesquite	6	NS	Proximity to Wall / Leaning
70	Mesquite	8	NS	Proximity to Wall / Leaning
71	Mesquite	16	NS	Proximity to Wall / Leaning
72	Mesquite	10	NS	Proximity to Wall / Leaning
73	Mesquite	16	NS	Proximity to Wall / Leaning
74	Mesquite	16	NS	Proximity to Wall / Leaning
75	Mesquite	10	NS	Trunk Form / Leaning
76	Mesquite	4	S	
77	Mesquite	4	S	
78	Mesquite	4	NS	Cambium Damage
79	Mesquite	4	S	
80	Mesquite	4	S	
81	Blue Palo Verde	12	NS	Trunk Form / Leaning
82	Mesquite	8	NS	Trunk Form / Leaning
83	Mesquite	14	NS	Trunk Form / Leaning
84	Mesquite	36	S	
85	Mesquite	8	NS	Trunk Form / Leaning
86	Blue Palo Verde	4	NS	Trunk Form / Leaning

Plant #	Common Name	Caliper (in)/ Height (ft)	Status	Comments
87	Mesquite	10	NS	Trunk Form / Leaning
88	Blue Palo Verde	5	NS	Trunk Form / Leaning
89	Mesquite	8	NS	Trunk Form / Cambium Damage
90	Blue Palo Verde	4	NS	Trunk Form / Leaning
91	Blue Palo Verde	5	NS	Trunk Form / Leaning
92	Mesquite	16	NS	Trunk Form / Leaning
93	Mesquite	8	NS	Leaning / Cambium Damage
94	Mesquite	5	NS	Leaning / Cambium Damage
95	Mesquite	4	NS	Trunk Form / Leaning
96	Mesquite	4	NS	Trunk Form / Leaning
97	Mesquite	14	NS	Trunk Form / Leaning
98	Mesquite	6	NS	Proximity to Fence
99	Mesquite	5	S	
100	Mesquite	6	NS	Cambium Damage
101	Mesquite	6	NS	Proximity to Fence
102	Mesquite	5	NS	Proximity to Fence
103	Mesquite	7	NS	Proximity to Fence
104	Mesquite	22	NS	Exposed Roots / Leaning
105	Mesquite	20	NS	Exposed Roots / Leaning
106	Mesquite	22	NS	Exposed Roots / Leaning
107	Mesquite	24	NS	Exposed Roots / Leaning
108	Mesquite	10	NS	Trunk Form
109	Mesquite	10	NS	Trunk Form
110	Mesquite	6	NS	Trunk Form / Leaning
111	Mesquite	10	S	
112	Mesquite	12	NS	Proximity to Fence
113	Mesquite	12	NS	Trunk Form / Leaning
114	Mesquite	5	NS	Proximity to Concrete
115	Mesquite	12	NS	Trunk Form / Leaning
116	Mesquite	16	NS	Exposed Roots
117	Mesquite	12	NS	Trunk Form / Leaning

Summary

	Trees	Cacti
Salvageable	14	1
Non-Salvageable	98	4
Remain-In-Place	0	0
Total	112	5

Legend

S = Salvageable
NS = Non-Salvageable
RIP = Remain-In-Place