GE Evolve™

LED Roadway Lighting

ERL1-ERLH-ERL2

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**

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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:

ERL1 LUMEN OUTPUT CODES	LXX(10K)@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

ERLH LUMEN OUTPUT CODES	LXX(10K)@HOURS 25,000 HR	50,000 HR	100,000 HR
10, 11	L97	L96	L94
13, 14	L95	L93	L88
15, 16	L94	L91	L85

ERL2 LUMEN OUTPUT CODES	LXX(10K)@HOURS 25,000 HR	50,000 HR	100,000 HR
16, 18, 19, 21, 23	L96	L94	L91
25, 27, 28	L95	L93	L88
30	L95	L93	L87

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.

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 tolerance exceptions: ERL1 "02" Lumen output: PF and THD within tolerances above only at 120 volt. ERL1 "03" Lumen output: @120 volt PF~0.89; @ 480 volt THD~26% ERL1 "04" Lumen output: @480 volt THD~22%*

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
- **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, 13	-40°C to 50°C
ERLH	14-16	-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
		E3	Type II Enhanced Back Light

**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.

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Project name _____
Date _____
Type _____

E R L 1 _ _ _ _ – _ _ _ _ _ _ _ _ – _ _ _ _

PROD. ID	VOLTAGE	LUMEN OUTPUT	DISTRIBUTION*	CCT	CONTROLS	COLOR	OPTIONS
E = Evolve **R** = Roadway **L** = Local **1** = Single Module	**0** = 120-277V* **1** = 120 **2** = 208 **3** = 240 **4** = 277 **5** = 480 **D** = 347 **H** = 347-480* * Not available with Fusing. Must choose a discrete voltage with F option.	**02*** **03<** **04<** **05<** **06** **07** **08** **09** **10** See Table *120V only, not compatible with 0-10V dimming. < See Note Under Controls Column	**A3** = Type II Narrow **B3** = Type II Wide **C3** = Type III **D3** = Type IV **E3** = Type II Enhanced Back Light See Table *Nominal IES Type classing subject to typical variation, individual units may differ.	**27** = 2700K<> **30** = 3000K **40** = 4000K <> Select 2700K or 3000K CCT for IDA approved units.	**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. < If dimming the 03 - 05 lumen output using a control supplied from a source other than GE call 1-888-694-3533, then select Option 2 at the prompt for assistance. **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 for Lumen Output Levels 07, 08, 09, and 10.

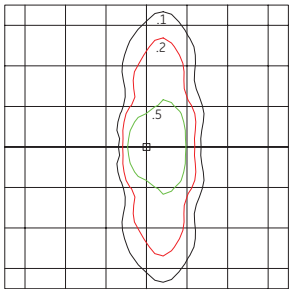
LUMEN OUTPUT	DISTRIBUTION	TYPICAL INITIAL LUMENS 4000K	3000K	2700K	TYPICAL SYSTEM WATTAGE 120-277V	347-480V	BUG RATING 4000K	3000K	2700K	IES FILE NUMBER 4000K 120-277V	347-480V	3000K 120-277V	347-480V	2700K 120-277V	347-480V
02	A3	2000	1900	1900	14	N/A	B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_02A340_-120VIES	N/A	ERL1_02A330_-120VIES	N/A	ERL1_02A327_-120VIES	N/A
	B3						B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_02B340_-120VIES	N/A	ERL1_02B330_-120VIES	N/A	ERL1_02B327_-120VIES	N/A
	C3						B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_02C340_-120VIES	N/A	ERL1_02C330_-120VIES	N/A	ERL1_02C327_-120VIES	N/A
	D3						B0-U0-G1	B0-U0-G1	B0-U0-G1	ERL1_02D340_-120VIES	N/A	ERL1_02D330_-120VIES	N/A	ERL1_02D327_-120VIES	N/A
	E3						B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_02E340_-120VIES	N/A	ERL1_02E330_-120VIES	N/A	ERL1_02E327_-120VIES	N/A
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	ERL1_03A327_-347-480VIES
	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	ERL1_03B327_-347-480VIES
	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	ERL1_03C327_-347-480VIES
	D3						B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_03D340_-120-277VIES	ERL1_03D340_-347-480VIES	ERL1_03D330_-120-277VIES	ERL1_03D330_-347-480VIES	ERL1_03D327_-120-277VIES	ERL1_03D327–347-480VIES
	E3						B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_03E340_-120-277VIES	ERL1_03E340_-347-480VIES	ERL1_03E330_-120-277VIES	ERL1_03E330_-347-480VIES	ERL1_03E327_-120-277VIES	ERL1_03E327_-347-480VIES
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	ERL1_04A327_-347-480VIES
	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	ERL1_04B327_-347-480VIES
	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	ERL1_04C327_-347-480VIES
	D3						B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_04D340_-120-277VIES	ERL1_04D340_-347-480VIES	ERL1_04D330_-120-277VIES	ERL1_04D330_-347-480VIES	ERL1_04D327_-120-277VIES	ERL1_04D327_-347-480VIES
	E3						B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_04E340_-120-277VIES	ERL1_04E340_-347-480VIES	ERL1_04E330_-120-277VIES	ERL1_04E330_-347-480VIES	ERL1_04E327_-120-277VIES	ERL1_04E327_-347-480VIES
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	ERL1_05A327_-347-480VIES
	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	ERL1_05B327_-347-480VIES
	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	ERL1_05C327_-347-480VIES
	D3						B1-U0-G1	B1-U0-G1	B1-U0-G1	ERL1_05D340_-120-277VIES	ERL1_05D340_-347-480VIES	ERL1_05D330_-120-277VIES	ERL1_05D330_-347-480VIES	ERL1_05D327_-120-277VIES	ERL1_05D327_-347-480VIES
	E3						B2-U0-G2	B1-U0-G1	B1-U0-G1	ERL1_05E340_-120-277VIES	ERL1_05E340_-347-480VIES	ERL1_05E330_-120-277VIES	ERL1_05E330_-347-480VIES	ERL1_05E327_-120-277VIES	ERL1_05E327_-347-480VIES
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	ERL1_06A327_-347-480VIES
	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	ERL1_06B327_-347-480VIES
	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	ERL1_06C327_-347-480VIES
	D3						B1-U0-G2	B1-U0-G2	B1-U0-G2	ERL1_06D340_-120-277VIES	ERL1_06D340_-347-480VIES	ERL1_06D330_-120-277VIES	ERL1_06D330_-347-480VIES	ERL1_06D327_-120-277VIES	ERL1_06D327_-347-480VIES
	E3						B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_06E340_-120-277VIES	ERL1_06E340_-347-480VIES	ERL1_06E330_-120-277VIES	ERL1_06E330_-347-480VIES	ERL1_06E327_-120-277VIES	ERL1_06E327_-347-480VIES
07	A3	7000	6800	6600	58		B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_07A340____.IES		ERL1_07A330____.IES		ERL1_07A327____.IES	
	B3						B1-U0-G2	B1-U0-G2	B1-U0-G2	ERL1_07B340____.IES		ERL1_07B330____.IES		ERL1_07B327____.IES	
	C3						B1-U0-G2	B1-U0-G2	B1-U0-G2	ERL1_07C340____.IES		ERL1_07C330____.IES		ERL1_07C327____.IES	
	D3						B1-U0-G2	B1-U0-G2	B1-U0-G2	ERL1_07D340____.IES		ERL1_07D330____.IES		ERL1_07D327____.IES	
	E3						B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_07E340____.IES		ERL1_07E330____.IES		ERL1_07E327____.IES	
08	A3	8000	7800	7600	71		B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_08A340____.IES		ERL1_08A330____.IES		ERL1_08A327____.IES	
	B3						B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_08B340____.IES		ERL1_08B330____.IES		ERL1_08B327____.IES	
	C3						B1-U0-G2	B1-U0-G2	B1-U0-G2	ERL1_08C340____.IES		ERL1_08C330____.IES		ERL1_08C327____.IES	
	D3						B1-U0-G2	B1-U0-G2	B1-U0-G2	ERL1_08D340____.IES		ERL1_08D330____.IES		ERL1_08D327____.IES	
	E3						B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_08E340____.IES		ERL1_08E330____.IES		ERL1_08E327____.IES	
09	A3	9000	8800	8500	84		B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_09A340____.IES		ERL1_09A330____.IES		ERL1_09A327____.IES	
	B3						B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_09B340____.IES		ERL1_09B330____.IES		ERL1_09B327____.IES	
	C3						B2-U0-G2	B1-U0-G2	B1-U0-G2	ERL1_09C340____.IES		ERL1_09C330____.IES		ERL1_09C327____.IES	
	D3						B1-U0-G2	B1-U0-G2	B1-U0-G2	ERL1_09D340____.IES		ERL1_09D330____.IES		ERL1_09D327____.IES	
	E3						B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_09E340____.IES		ERL1_09E330____.IES		ERL1_09E327____.IES	
10	A3	9800	9600	9250	97		B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_10A340____.IES		ERL1_10A330____.IES		ERL1_10A327____.IES	
	B3						B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_10B340____.IES		ERL1_10B330____.IES		ERL1_10B327____.IES	
	C3						B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_10C340____.IES		ERL1_10C330____.IES		ERL1_10C327____.IES	
	D3						B1-U0-G2	B1-U0-G2	B1-U0-G2	ERL1_10D340____.IES		ERL1_10D330____.IES		ERL1_10D327____.IES	
	E3						B2-U0-G2	B2-U0-G2	B2-U0-G2	ERL1_10E340____.IES		ERL1_10E330____.IES		ERL1_10E327____.IES	

Photometrics:

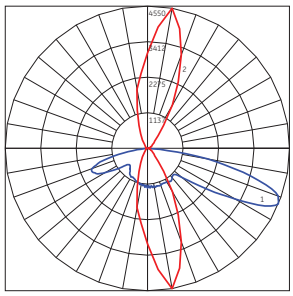
Evolve™ LED Streetlight (ERL1)

ERL1
Type II Narrow
(05A340)

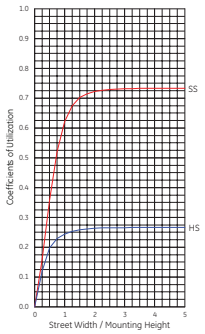
5,000 Lumens
4000K
ERL1_05A340___.IES



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

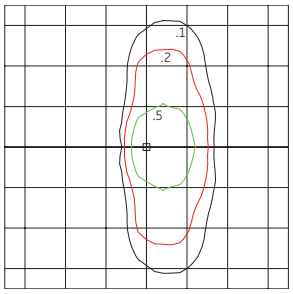


– Vertical plane through horizontal angle of Max. Cd at 80°
– Horizontal cone through vertical angle of Max. Cd at 67°

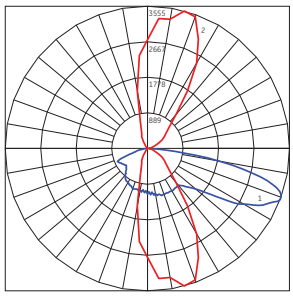


ERL1
Type II Wide
(05B340)

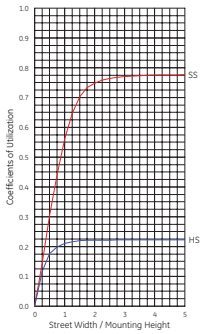
5,000 Lumens
4000K
ERL1_05B340___.IES



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

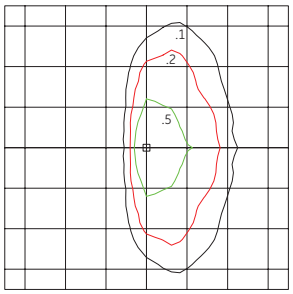


– Vertical plane through horizontal angle of Max. Cd at 75°
– Horizontal cone through vertical angle of Max. Cd at 69°

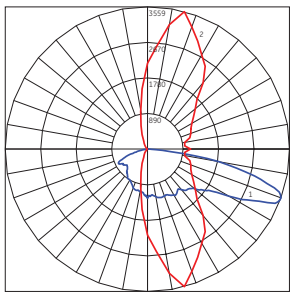


ERL1
Type III
((05C340)

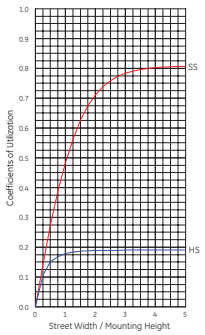
5,000 Lumens
4000K
ERL1_05C340___.IES



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

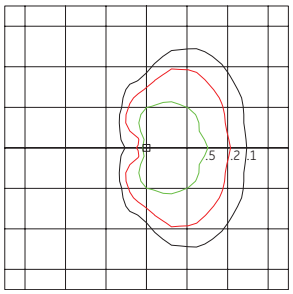


– Vertical plane through horizontal angle of Max. Cd at 75°
– Horizontal cone through vertical angle of Max. Cd at 70°

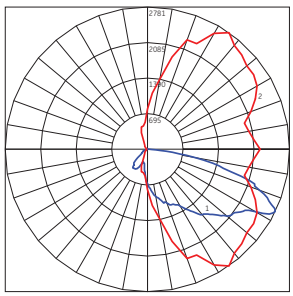


ERL1
Type IV
(05D340)

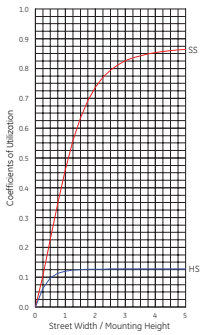
5,000 Lumens
4000K
ERL1_(05D340)___.IES



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

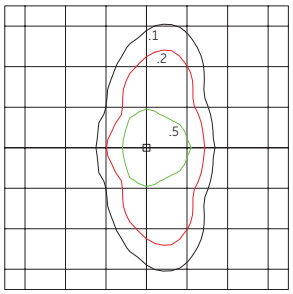


– Vertical plane through horizontal angle of Max. Cd at 55°
– Horizontal cone through vertical angle of Max. Cd at 64°

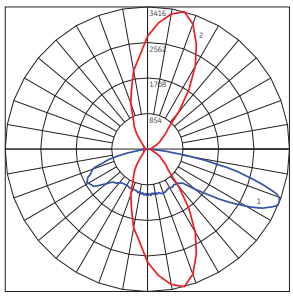


ERL1
Type II Enhanced Back Light
(05E340)

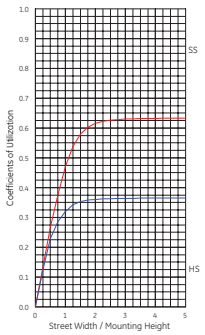
5,000 Lumens
4000K
ERL1_(05E340)___.IES



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



– Vertical plane through horizontal angle of Max. Cd at 75°
– Horizontal cone through vertical angle of Max. Cd at 67°



GE Evolve™
LED Roadway Lighting
ERL1-ERLH-ERL2

Project name _____
Date _____
Type _____

E R L H _ _ _ _ – __ __ __ __ – ____ ___

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* * Not available with Fusing. Must choose a discrete voltage with F option.	**10** **11** **13** **14** **15** **16** See Table	**A3** = Type II Narrow **B3** = Type II Wide **C3** = Type III **D3** = Type IV **E3** = Type II Enhanced Back Light See Table *Nominal IES Type classing subject to typical variation, individual units may differ.	**30** = 3000K<> **40** = 4000K <> Select 3000K CCT for IDA approved units.	**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.

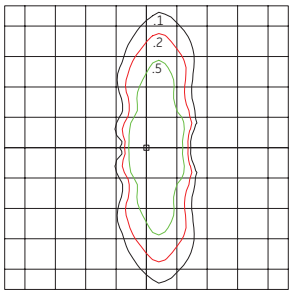
LUMEN OUTPUT	DISTRIBUTION	TYPICAL INITIAL LUMENS 4000K	TYPICAL INITIAL LUMENS 3000K	TYPICAL SYSTEM WATTAGE 120-277V	TYPICAL SYSTEM WATTAGE 347-480V	BUG RATING 4000K	BUG RATING 3000K	IES FILE NUMBER 4000K	IES FILE NUMBER 3000K
10	A3	10000	9600	82	82	B2-U0-G2	B2-U0-G2	ERLH_10A340____.IES	ERLH_10A330____.IES
	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					B1-U0-G3	B1-U0-G2	ERLH_10D340____.IES	ERLH_10D330____.IES
	E3					B3-U0-G3	B3-U0-G3	ERLH_10E340____.IES	ERLH_10E330____.IES
11	A3	11500	11000	98	98	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					B1-U0-G3	B1-U0-G2	ERLH_11D340____.IES	ERLH_11D330____.IES
	E3					B3-U0-G3	B3-U0-G3	ERLH_11E340____.IES	ERLH_11E330____.IES
13	A3	13000	12500	111	111	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					B2-U0-G3	B2-U0-G3	ERLH_13D340____.IES	ERLH_13D330____.IES
	E3					B3-U0-G3	B3-U0-G3	ERLH_13E340____.IES	ERLH_13E330____.IES
14	A3	14000	13400	122	122	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					B2-U0-G3	B2-U0-G3	ERLH_14D340____.IES	ERLH_14D330____.IES
	E3					B3-U0-G3	B3-U0-G3	ERLH_14E340____.IES	ERLH_14E330____.IES
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					B2-U0-G3	B2-U0-G3	ERLH_15D340____.IES	ERLH_15D330____.IES
	E3					B3-U0-G3	B3-U0-G3	ERLH_15E340____.IES	ERLH_15E330____.IES
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					B2-U0-G3	B2-U0-G3	ERLH_16D340____.IES	ERLH_16D330____.IES
	E3					B3-U0-G3	B3-U0-G3	ERLH_16E340____.IES	ERLH_16E330____.IES

Photometrics:

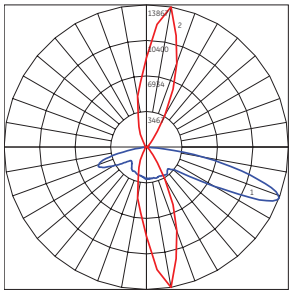
Evolve™ LED Streetlight (ERLH)

ERLH
Type II Narrow
(13A340)

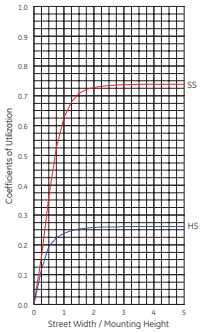
13,000 Lumens
4000K
ERLH_13A340___.IES



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

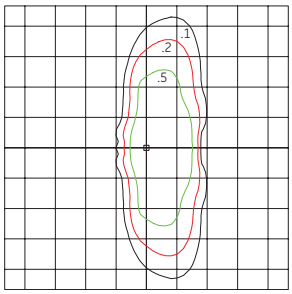


– Vertical plane through horizontal angle of Max. Cd at 80°
– Horizontal cone through vertical angle of Max. Cd at 69°

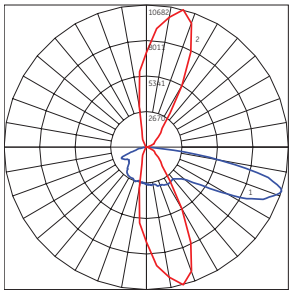


ERLH
Type II Wide
(13B340)

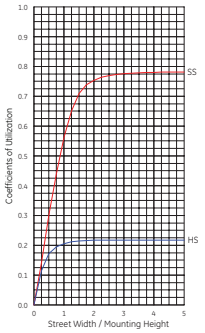
13,000 Lumens
4000K
ERLH_13B340___.IES



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

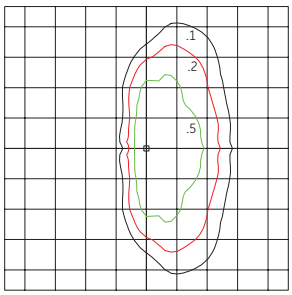


– Vertical plane through horizontal angle of Max. Cd at 75°
– Horizontal cone through vertical angle of Max. Cd at 72°

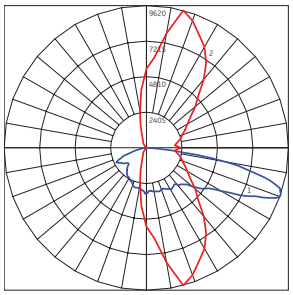


ERLH
Type III
(13C340)

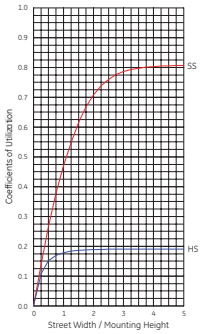
13,000 Lumens
4000K
ERLH_13C340___.IES



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

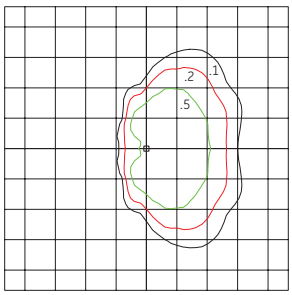


– Vertical plane through horizontal angle of Max. Cd at 75°
– Horizontal cone through vertical angle of Max. Cd at 71°

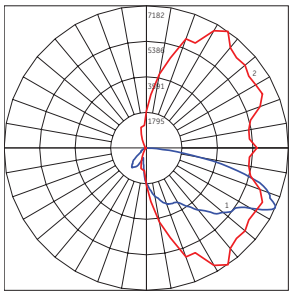


ERLH
Type IV
13D340

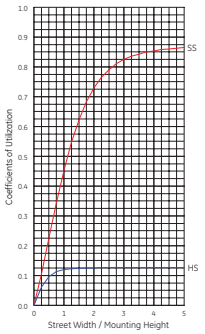
13,000 Lumens
4000K
ERLH_13D340___.IES



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

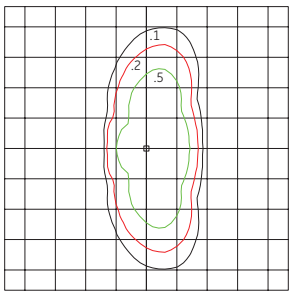


– Vertical plane through horizontal angle of Max. Cd at 55°
– Horizontal cone through vertical angle of Max. Cd at 65°

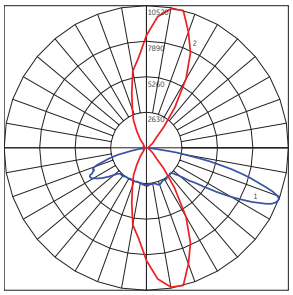


ERLH
Type II Enhanced Back Light
13E340

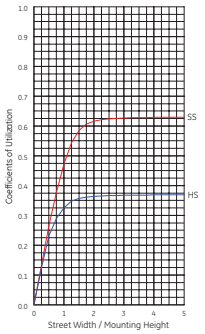
13,000 Lumens
4000K
ERLH_13E340___.IES



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



– Vertical plane through horizontal angle of Max. Cd at 75°
– Horizontal cone through vertical angle of Max. Cd at 69°



GE Evolve™

LED Roadway Lighting

ERL1-ERLH-ERL2

Project name ________________

Date ________________

Type ________________

E R L 2 _ _ _ _   _   _ _   _ _   _ _   _   _ _ _ _   _ _ _

PROD. ID	VOLTAGE	LUMEN OUTPUT	DISTRIBUTION*	CCT	CONTROLS	COLOR	OPTIONS
E = Evolve **R** = Roadway **L** = Local **2** = Double Module	**0** = 120-277V* **1** = 120 **2** = 208 **3** = 240 **4** = 277 **5** = 480 **D** = 347 **H** = 347-480* * Not available with Fusing. Must choose a discrete voltage with F option.	**16** **18** **19** **21** **23** **25** **27** **28** **30** See Table	**A3** = Type II Narrow **B3** = Type II Wide **C3** = Type III **D3** = Type IV **E3** = Type II Enhanced Back Light See Table *Nominal IES Type classing subject to typical variation, individual units may differ.	**30** = 3000K◇ **40** = 4000K ◇ Select 3000K CCT for IDA approved units.	**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 ^ **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.

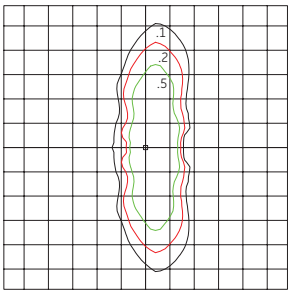
LUMEN OUTPUT	DISTRIBUTION	TYPICAL INITIAL LUMENS 4000K	TYPICAL INITIAL LUMENS 3000K	TYPICAL SYSTEM WATTAGE 120-277V	TYPICAL SYSTEM WATTAGE 347-480V	BUG RATING 4000K	BUG RATING 3000K	IES FILE NUMBER 4000K 120-277V	IES FILE NUMBER 4000K 347-480V	IES FILE NUMBER 3000K 120-277V	IES FILE NUMBER 3000K 347-480V
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					B2-U0-G3	B2-U0-G3	ERL2_16D340____.IES		ERL2_16D330____.IES	
	E3					B3-U0-G3	B3-U0-G3	ERL2_16E340____.IES		ERL2_16E330____.IES	
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					B2-U0-G3	B2-U0-G3	ERL2_18D340____.IES		ERL2_18D330____.IES	
	E3					B3-U0-G3	B3-U0-G3	ERL2_18E340____.IES		ERL2_18E330____.IES	
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					B2-U0-G3	B2-U0-G3	ERL2_19D340____.IES		ERL2_19D330____.IES	
	E3					B3-U0-G3	B3-U0-G3	ERL2_19E340____.IES		ERL2_19E330____.IES	
21	A3	21000	20100	174	177	B3-U0-G3	B3-U0-G3	ERL2_21A340_-120-277V.IES	ERL2_21A340_-347-480V.IES	ERL2_21A330_-120-277V.IES	ERL2_21A330_-347-480V.IES
	B3					B3-U0-G3	B3-U0-G3	ERL2_21B340_-120-277V.IES	ERL2_21B340_-347-480V.IES	ERL2_21B330_-120-277V.IES	ERL2_21B330_-347-480V.IES
	C3					B3-U0-G4	B3-U0-G3	ERL2_21C340_-120-277V.IES	ERL2_21C340_-347-480V.IES	ERL2_21C330_-120-277V.IES	ERL2_21C330_-347-480V.IES
	D3					B2-U0-G3	B2-U0-G3	ERL2_21D340_-120-277V.IES	ERL2_21D340_-347-480V.IES	ERL2_21D330_-120-277V.IES	ERL2_21D330_-347-480V.IES
	E3					B3-U0-G3	B3-U0-G3	ERL2_21E340_-120-277V.IES	ERL2_21E340_-347-480V.IES	ERL2_21E330_-120-277V.IES	ERL2_21E330_-347-480V.IES
23	A3	23000	22100	194	196	B3-U0-G3	B3-U0-G3	ERL2_23A340_-120-277V.IES	ERL2_23A340_-347-480V.IES	ERL2_23A330_-120-277V.IES	ERL2_23A330_-347-480V.IES
	B3					B3-U0-G3	B3-U0-G3	ERL2_23B340_-120-277V.IES	ERL2_23B340_-347-480V.IES	ERL2_23B330_-120-277V.IES	ERL2_23B330_-347-480V.IES
	C3					B3-U0-G4	B3-U0-G4	ERL2_23C340_-120-277V.IES	ERL2_23C340_-347-480V.IES	ERL2_23C330_-120-277V.IES	ERL2_23C330_-347-480V.IES
	D3					B2-U0-G4	B2-U0-G4	ERL2_23D340_-120-277V.IES	ERL2_23D340_-347-480V.IES	ERL2_23D330_-120-277V.IES	ERL2_23D330_-347-480V.IES
	E3					B4-U0-G4	B3-U0-G3	ERL2_23E340_-120-277V.IES	ERL2_23E340_-347-480V.IES	ERL2_23E330_-120-277V.IES	ERL2_23E330_-347-480V.IES
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-G4	B3-U0-G4	ERL2_25C340____.IES		ERL2_25C330____.IES	
	D3					B2-U0-G4	B2-U0-G4	ERL2_25D340____.IES		ERL2_25D330____.IES	
	E3					B4-U0-G4	B4-U0-G4	ERL2_25E340____.IES		ERL2_25E330____.IES	
27	A3	27000	25900	237	237	B3-U0-G3	B3-U0-G3	ERL2_27A340____.IES		ERL2_27A330____.IES	
	B3					B3-U0-G4	B3-U0-G4	ERL2_27B340____.IES		ERL2_27B330____.IES	
	C3					B3-U0-G4	B3-U0-G4	ERL2_27C340____.IES		ERL2_27C330____.IES	
	D3					B2-U0-G4	B2-U0-G4	ERL2_27D340____.IES		ERL2_27D330____.IES	
	E3					B4-U0-G4	B4-U0-G4	ERL2_27E340____.IES		ERL2_27E330____.IES	
28	A3	28000	26900	251	251	B3-U0-G3	B3-U0-G3	ERL2_28A340____.IES		ERL2_28A330____.IES	
	B3					B3-U0-G4	B3-U0-G4	ERL2_28B340____.IES		ERL2_28B330____.IES	
	C3					B3-U0-G4	B3-U0-G4	ERL2_28C340____.IES		ERL2_28C330____.IES	
	D3					B2-U0-G4	B2-U0-G4	ERL2_28D340____.IES		ERL2_28D330____.IES	
	E3					B4-U0-G4	B4-U0-G4	ERL2_28E340____.IES		ERL2_28E330____.IES	
30	A3	30000	28800	278	278	B4-U0-G4	B4-U0-G4	ERL2_30A340____.IES		ERL2_30A330____.IES	
	B3					B3-U0-G4	B3-U0-G4	ERL2_30B340____.IES		ERL2_30B330____.IES	
	C3					B3-U0-G4	B3-U0-G4	ERL2_30C340____.IES		ERL2_30C330____.IES	
	D3					B2-U0-G4	B2-U0-G4	ERL2_30D340____.IES		ERL2_30D330____.IES	
	E3					B4-U0-G4	B4-U0-G4	ERL2_30E340____.IES		ERL2_30E330____.IES	

Photometrics:

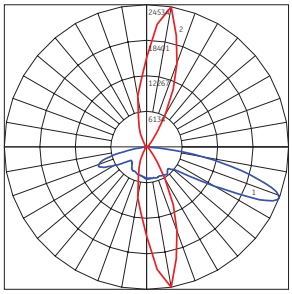
Evolve™ LED Streetlight (ERL2)

ERL2
Type II Narrow
(23A340)

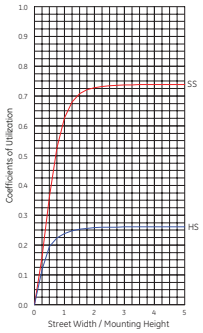
23,000 Lumens
4000K
ERL2_23A340___.IES



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

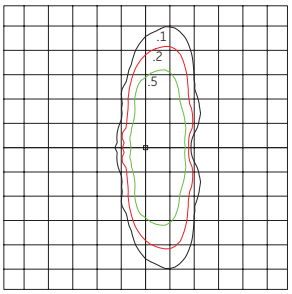


– Vertical plane through horizontal angle of Max. Cd at 80°
– Horizontal cone through vertical angle of Max. Cd at 69°

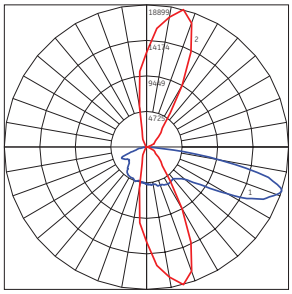


ERL2
Type II Wide
(23B340)

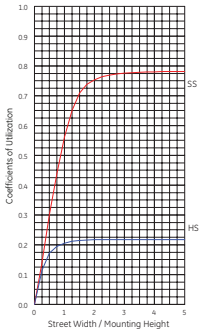
23,000 Lumens
4000K
ERL2_23B340___.IES



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

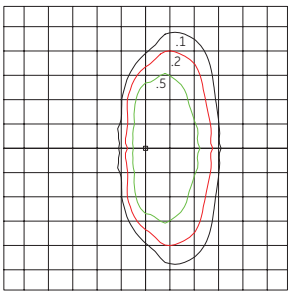


– Vertical plane through horizontal angle of Max. Cd at 75°
– Horizontal cone through vertical angle of Max. Cd at 72°

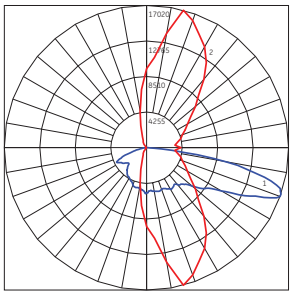


ERL2
Type III
(23C340)

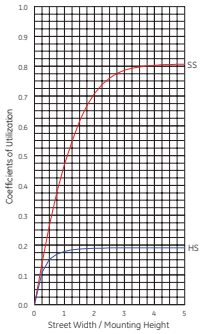
23,000 Lumens
4000K
ERL2_23C340___.IES



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

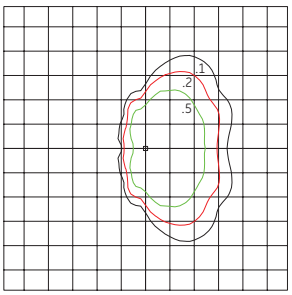


– Vertical plane through horizontal angle of Max. Cd at 75°
– Horizontal cone through vertical angle of Max. Cd at 71°

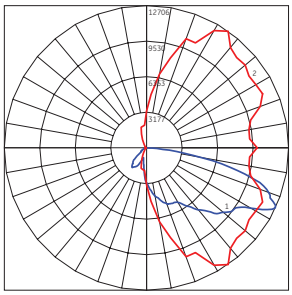


ERL2
Type IV
(23D340)

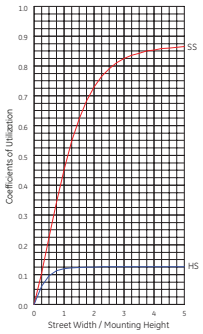
23,000 Lumens
4000K
ERL2_23D340___.IES



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

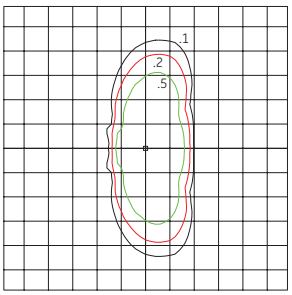


– Vertical plane through horizontal angle of Max. Cd at 55°
– Horizontal cone through vertical angle of Max. Cd at 65°

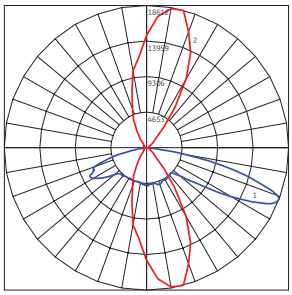


ERL2
Type II Enhanced Back Light
(23E340)

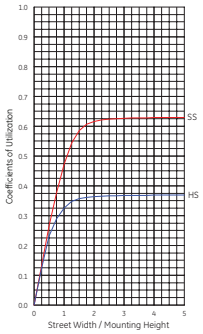
23,000 Lumens
4000K
ERL2_23E340___.IES



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



– Vertical plane through horizontal angle of Max. Cd at 75°
– Horizontal cone through vertical angle of Max. Cd at 69°



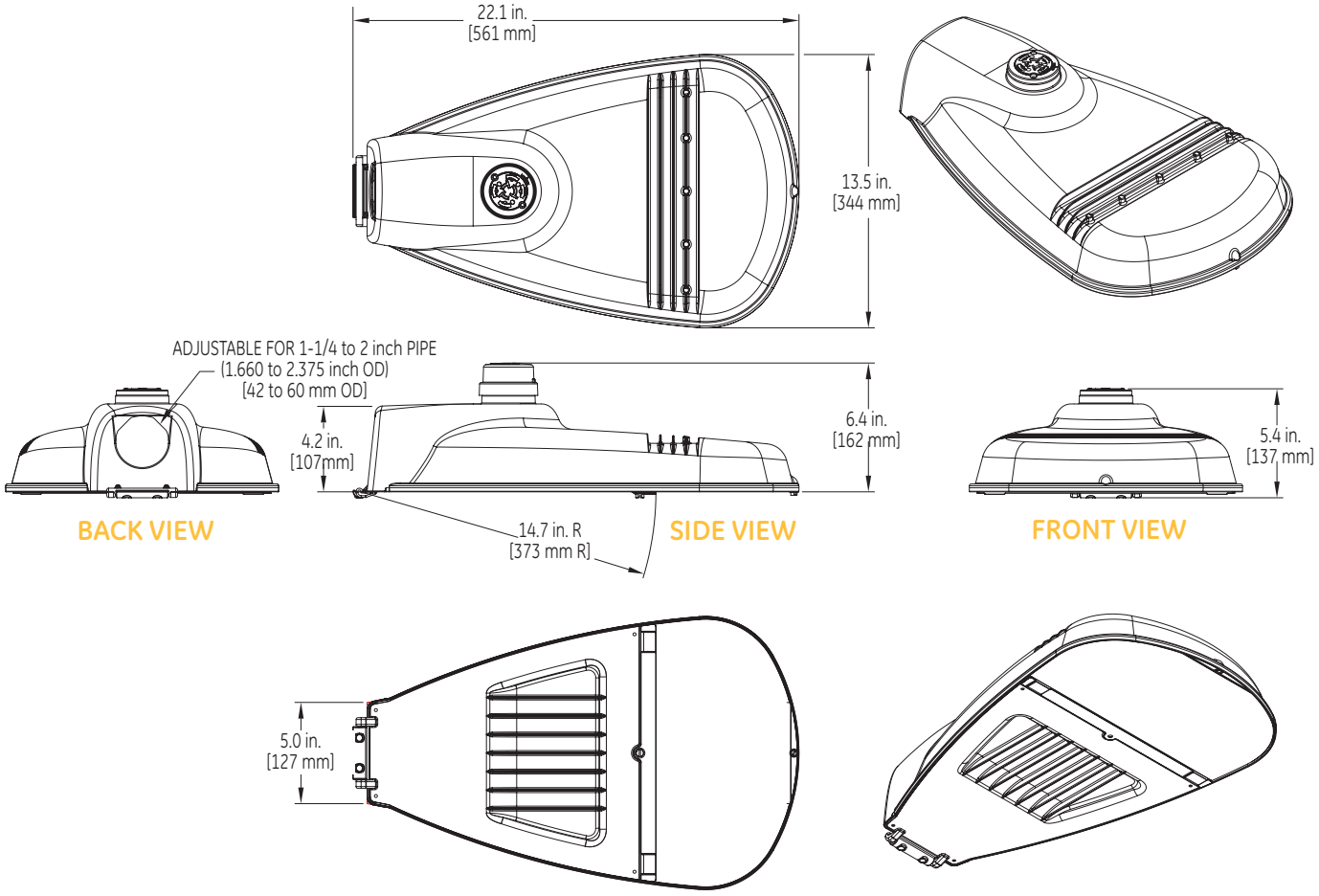
GE Evolve™

LED Roadway Lighting

ERL1-ERLH-ERL2

Product Dimensions:

Evolve™ LED Streetlight (ERL1)



DATA

- Approximate net weight: 12.4 lbs (5.6kgs) -15.5 lbs (7.0kgs) with XFMR
- Effective Projected Area (EPA): 0.5 sq ft max (0.046 sq m)

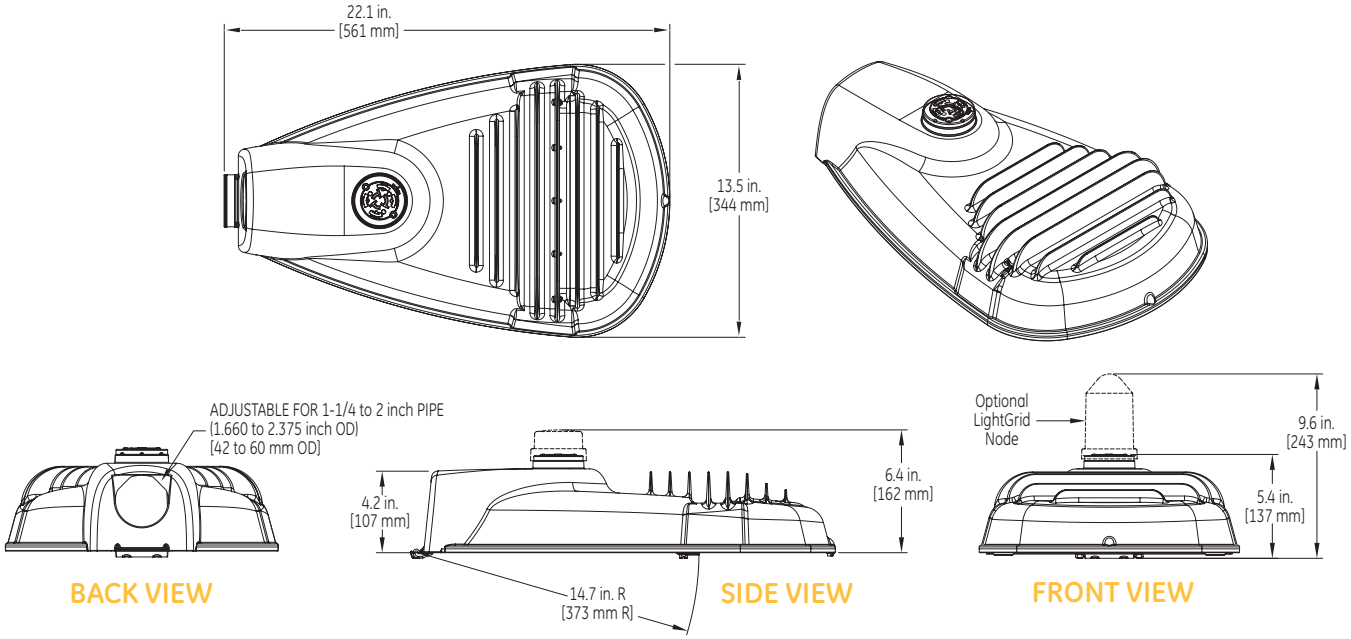
GE Evolve™

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)

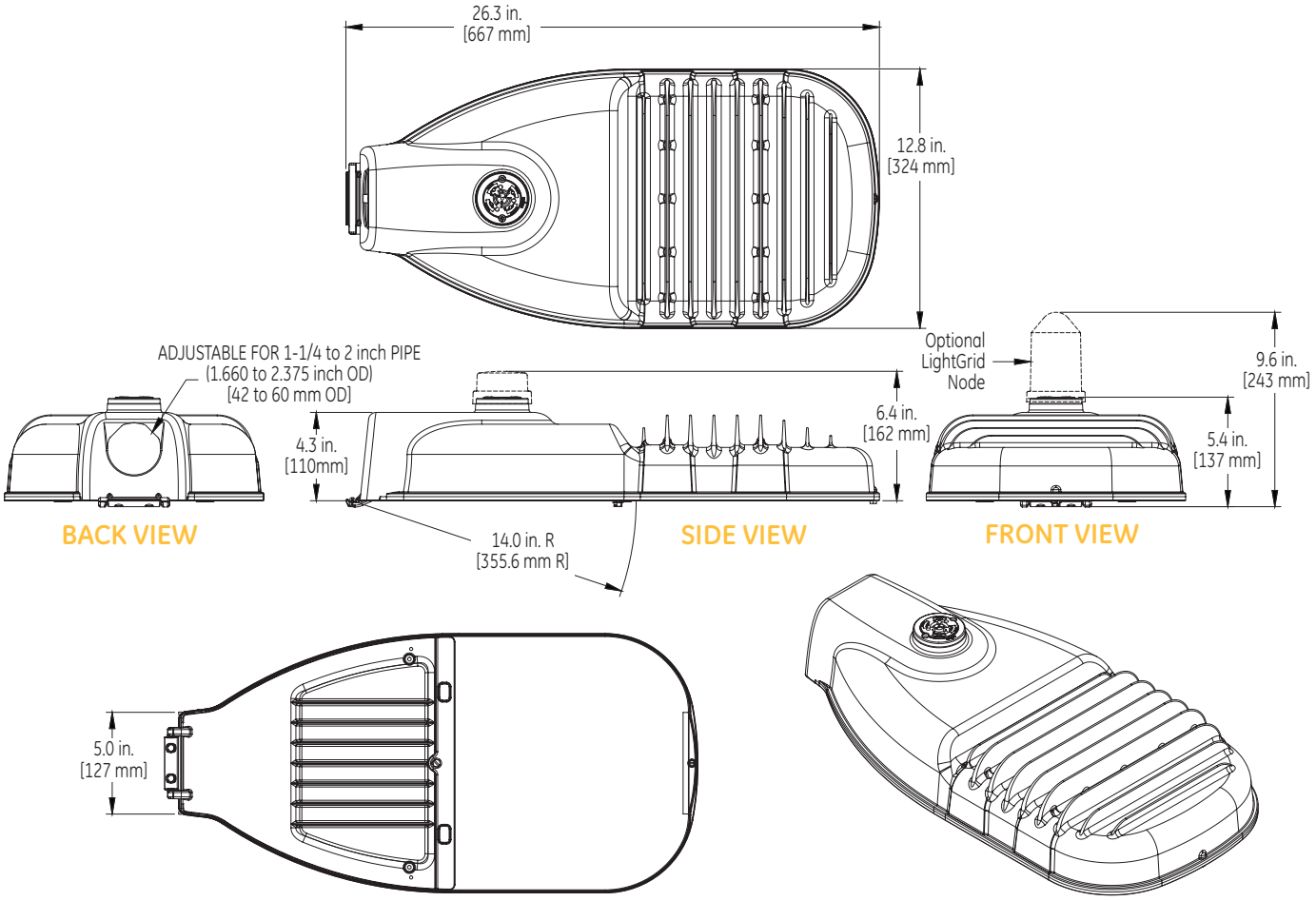
GE Evolve™

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)