

GE
Lighting

Evolve™ LED Roadway Lighting

LED Project Grade Streetlight (ERX1)



imagination at work

Product Features

The Evolve™ LED Streetlight is optimized for customers requiring a basic LED solution for local and collector 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 50,000 hour rated life, significantly reducing maintenance needs and expense over the life of the fixture. This efficient solution lowers energy consumption compared to traditional HID fixture for additional operating cost savings.

Applications

- Designed to meet recommended luminance and illuminance requirements for local and collector roadway / street classifications.

Housing

- The modern design incorporates the heat sink directly into the unit for heat transfer.
- Meets 3G vibration standards per ANSI C136.31-2010.
- Metal door assembly with tool less latch.



LED & Optical Assembly

- Structured LED array for optimized roadway photometric distribution.
- Evolve™ light engine consisting of reflective technology designed to optimize application efficiency and minimize glare.
- Utilizes high brightness LEDs, 70 CRI at 4000K typical.
- LM-79 tests and reports are performed in accordance with IESNA standards.

Lumen Maintenance

- Projected L87 (10K) ≥ 50,000 at Ta 25C
- Projected L70 (10K) > 100,000 at Ta 25C
Based on 10,000h LM-80 data for Lumiled Luxeon-T (ZES chip family)

Ratings

- /  listed, suitable for wet locations per UL 1598.
- IP65 rated optical enclosure per ANSI C136.25-2009.
- Temperature rated at -40° to 40°C.
- Upward Light Output Ratio (ULOR) = 0
- Compliant with the material restriction requirements of RoHS.

Mounting

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

Finish

- Corrosion resistant polyester powder painted, minimum 2.0 mil. thickness.
- Standard colors: Black and Gray.
- RAL & custom colors available.

Electrical

- 120-277 volt.
- System power factor is >90% and THD <20%.*
- Class "A" Sound rating.
- Integral surge protection:
 - For 120-266VAC per IEEE/ANSI C62.41.-1991, 6kV/3kA Location Category B3 (120 events)
 - Optional higher rated surge protection device available
- Photo electric sensors (PE) available for all voltages.

* System power factor and THD is tested and specified at 120V input and maximum load conditions.

Ambient Temperature Conversion Table

AMBIENT TEMPERATURE (°C)	INITIAL LUMENS FACTOR	INITIAL WATTS FACTOR
15	1.03	1.01
20	1.02	1.00
25	1.00	1.00
30	0.98	1.00
35	0.97	0.99

Ordering Number Logic

Evolve™ LED Project Grade Streetlight (ERX1)



E R X 1 **5** **40**

PROD. ID	VOLTAGE	OPTICAL CODE	PHOTOMETRIC TYPE	DRIVE CURRENT	LED COLOR TEMP	PE FUNCTION	COLOR	OPTIONS
E = Evolve R = Roadway X = Project Grade 1 = Single Module Optical Assembly	0 = 120-277 1 = 120 2 = 208 3 = 240 4 = 277	Product Tier *1 = Project Grade See Charts for all levels	A1 = Extra Narrow Asymmetric B1 = Narrow Asymmetric (Medium) B2 = Narrow Asymmetric Wide Pole Spacing C1 = Asymmetric (Short) D1 = Asymmetric Forward D2 = Asymmetric Forward Wide Pole Spacing E1 = Asymmetric (Medium) E2 = Asymmetric (Medium) Wide Pole Spacing	5 = 525mA	40 = 4000K	2 = PE Receptacle 4 = PE Receptacle w/shorting cap 5 = PE Rec. with Control A = 7-pin D = 7-pin w/shorting cap	GRAY = Gray BLCK = Black	D = Dimming* F = Fusing G = Internal Bubble Level I = IP 66 optical enclosure R = Additional Secondary Surge Protection Device XXX = Special Options * When ordering Dimming PE Receptacle 7, 9 or A, D=Dimming driver must be selected under "OPTIONS" column NOTE: If no dimming receptacle under PE Function is selected and D+Dimming is selected under OPTIONS, 0-10v dimming leads will be provided with access through slipfitter opening in unit

PRODUCT ID	OPTICAL CODE	PHOTOMETRIC TYPE	DRIVE CURRENT	TYPICAL SYSTEM WATTAGE 120-277V	TYPICAL INITIAL LUMENS 4000K	IES FILE NUMBERS
ERX1	A1	A1	525	42	3400	ERX1_A1A1540
ERX1	C1		525	61	5000	ERX1_C1A1540
ERX1	D1		525	80	6600	ERX1_D1A1540
ERX1	F1		525	98	8100	ERX1_F1A1540
ERX1	G1		525	116	9400	ERX1_G1A1540
ERX1	A1	B1	525	42	3500	ERX1_A1B1540
ERX1	C1		525	61	5400	ERX1_C1B1540
ERX1	D1		525	80	6800	ERX1_D1B1540
ERX1	F1		525	98	8300	ERX1_F1B1540
ERX1	G1	B2	525	116	9600	ERX1_G1B1540
ERX1	B1		525	52	4100	ERX1_B1B2540
ERX1	E1		525	97	7600	ERX1_E1B2540
ERX1	A1	C1	525	42	3500	ERX1_A1C1540
ERX1	C1		525	61	5200	ERX1_C1C1540
ERX1	D1		525	80	7000	ERX1_D1C1540
ERX1	F1		525	98	8700	ERX1_F1C1540
ERX1	G1		525	116	9600	ERX1_G1C1540
ERX1	A1	D1	525	42	3400	ERX1_A1D1540
ERX1	C1		525	61	5000	ERX1_C1D1540
ERX1	D1		525	80	6600	ERX1_D1D1540
ERX1	F1		525	98	8100	ERX1_F1D1540
ERX1	G1	D2	525	116	9400	ERX1_G1D1540
ERX1	B1		525	52	4100	ERX1_B1D2540
ERX1	E1		525	97	7600	ERX1_E1D2540
ERX1	A1	E1	525	42	3500	ERX1_A1E1540
ERX1	C1		525	61	5200	ERX1_C1E1540
ERX1	D1		525	80	6800	ERX1_D1E1540
ERX1	F1		525	98	8300	ERX1_F1E1540
ERX1	G1		525	116	9600	ERX1_G1E1540
ERX1	B1	E2	525	52	4200	ERX1_B1E2540
ERX1	E1		525	97	7900	ERX1_E1E2540

NOTES:
 • Max Operating Temp 40° C

Lumen Maintenance

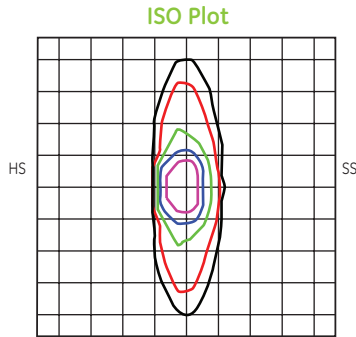
- Projected L87 (10K) ≥ 50,000 at Ta 25C
 - Projected L70 (10K) > 100,000 at Ta 25C
- Based on 10,000h LM-80 data for Lumiled Luxeon-T (ZES chip family)

Photometrics

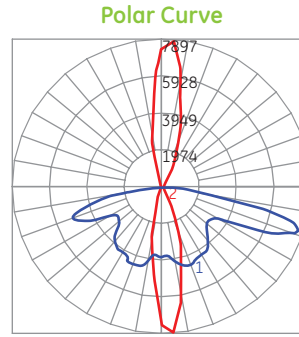
Evolve™ LED Streetlight (ERX1)

ERX1 Extra Narrow Asymmetric (G1A1)

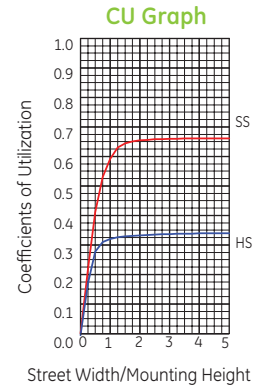
9,900 Lumens
4000K
ERX1_G1A1540



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

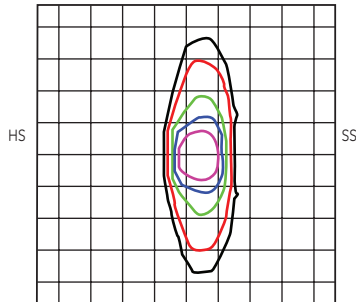


— Vertical plane through horizontal angle of maximum candlepower at 85°
— Vertical plane through horizontal angle of 0°

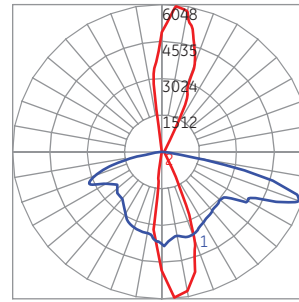


ERX1 Narrow Asymmetric (G1B1)

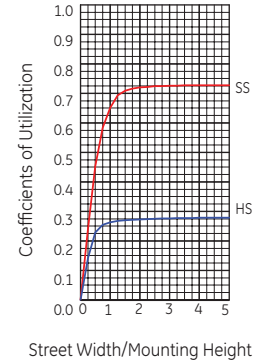
10,100 Lumens
4000K
ERX1_G1B1540



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

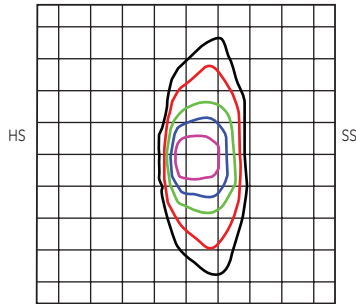


— Vertical plane through horizontal angle of maximum candlepower at 85°
— Vertical plane through horizontal angle of 0°

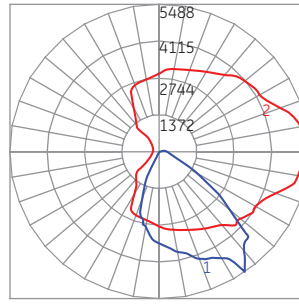


ERX1 Asymmetric Short (G1C1)

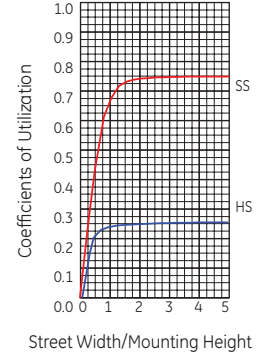
10,100 Lumens
4000K
ERX1_G1C1540



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

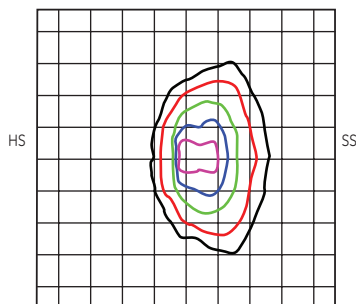


— Vertical plane through horizontal angle of maximum candlepower at 85°
— Vertical plane through horizontal angle of 0°

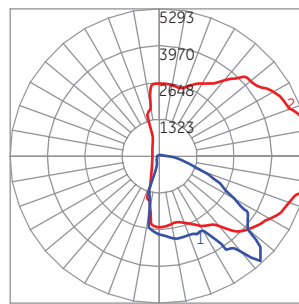


ERX1 Asymmetric Forward (G1D1)

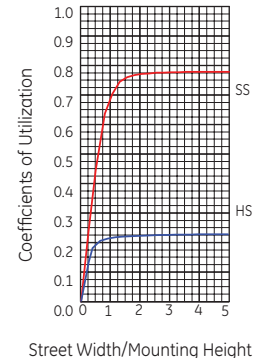
9,900 Lumens
4000K
ERX1_G1D1540



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



— Vertical plane through horizontal angle of maximum candlepower at 85°
— Vertical plane through horizontal angle of 0°

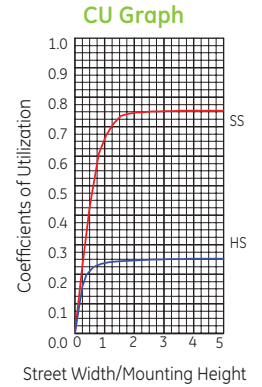
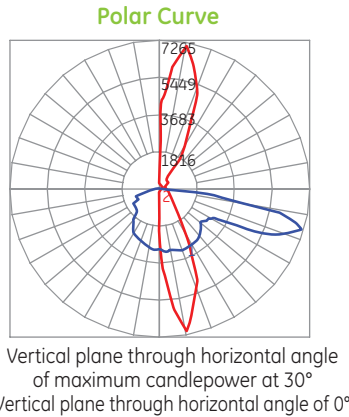
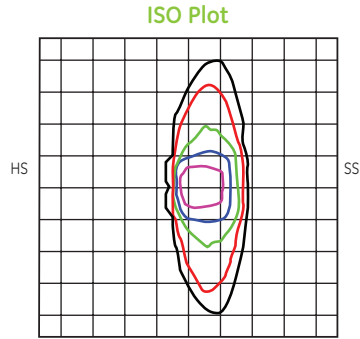


Photometrics

Evolve™ LED Streetlight (ERX1)

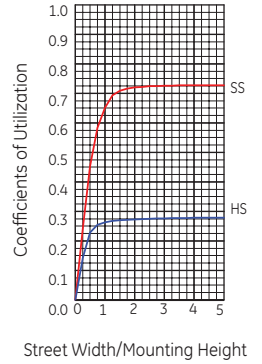
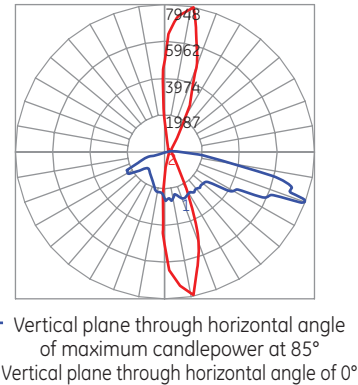
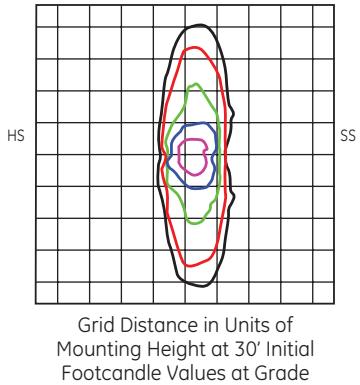
ERX1 Asymmetric Medium (G1E1)

10,100 Lumens
4000K
ERX1_G1E1540



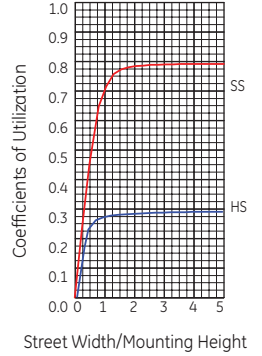
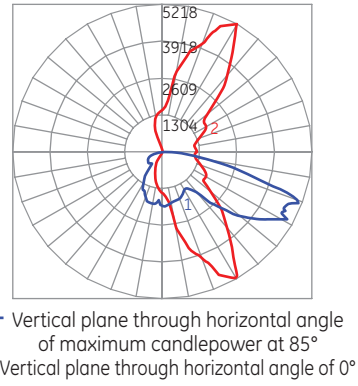
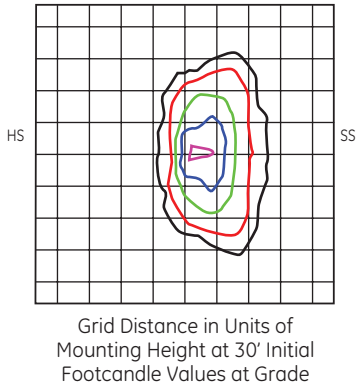
ERX1 Narrow Asymmetric (E1B2)

8,000 Lumens
4000K
ERX1_E1B2540



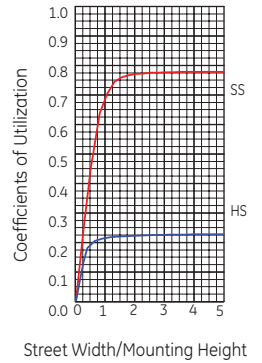
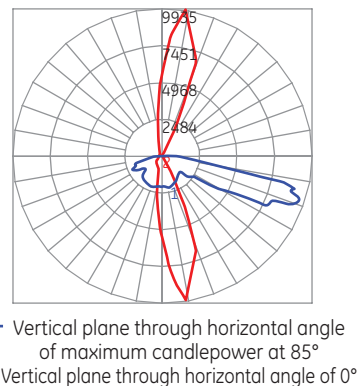
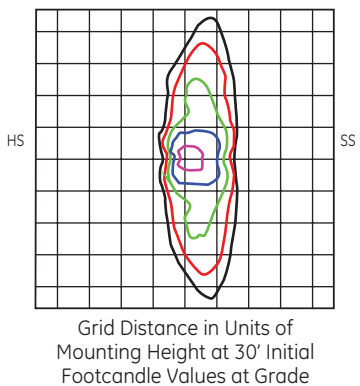
ERX1 Asymmetric Forward (E1D2)

8,000 Lumens
4000K
ERX1_E1D2540



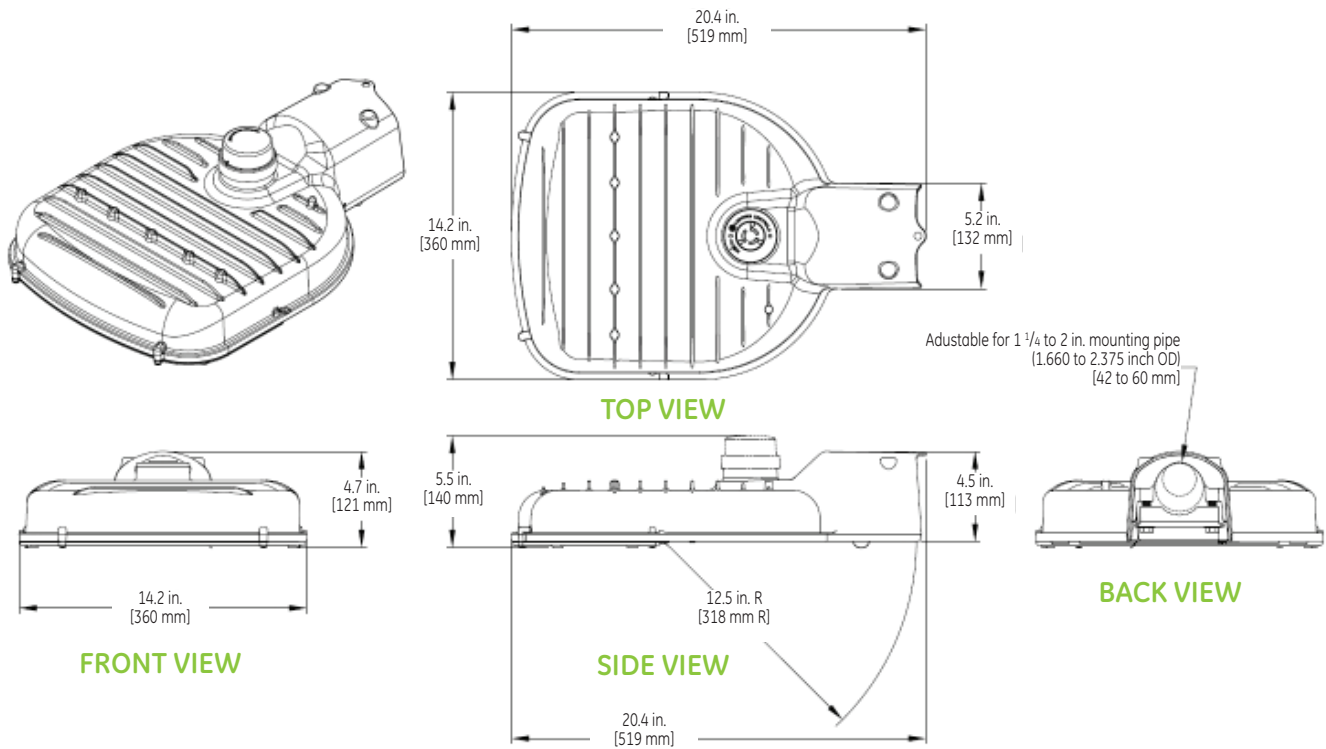
ERX1 Asymmetric Medium (E1E2)

8,300 Lumens
4000K
ERX1_E1E2540



Product Dimensions

Evolve™ LED Streetlight (ERX1)



DATA

- Approximate net weight: 15 lbs (6.8 kgs)
Contact manufacturer for specific configuration weight.
- Effective Projected Area (EPA): 0.7 sq ft max (0.065 sq m)



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OLP3069 (Rev 10/01/14)