



GE Evolve™

LED Roadway Lighting
Security Light (E2SB)



current
powered by GE



Product Features

GE Roadway Lighting systems have been recognized for the highest quality and reliability in Outdoor, Utility, DOT and infrastructure lighting applications. The Evolve™ LED Security Light provides energy efficiency in a robust fixture built to withstand even the harshest elements. GE's advanced optical design offers various photometric options to meet your lighting requirements.

Applications

- Designed for outdoor work yards, roadside commercial establishments, suburban developments, rural areas.

Housing

- Die-cast aluminum

LED & Optical Assembly

- Structured LED arrays for optimized type 3 and type 5 square distributions
- Evolve™ light engine consisting of reflective technology designed to optimize application efficiency
- Utilizes high brightness LEDs, 70CRI typical at 3000K, 4000K and 5000K
- LM-79 test and reports are performed in accordance with IESNA standards

Lumen Maintenance

- Projected L90 > 60,000 hours per IES TM-21
- Projected Lxx per IES TM-21 at 25°C for reference:

SKU	Lxx (10k) @ Hours		
	25,000 hr	50,000 hr	100,000 hr
E2SB	L95	L91	L84



Note:

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

Lumen Ambient Temperature Factors:

Ambient Temp (°C)	Initial Flux Factor
10	1.02
20	1.01
25	1.00
30	0.99
40	0.98

Ratings

- /  UL/cUL listed, suitable for wet locations per UL 1598.
- UL 8750 LED equipment in Lighting Products.
- IP65 rated optical enclosure per ANSI C136.25-2009.
- Vibration rating at 3G (min) per ANSI C136.31-2010.

Mounting

- Slipfitter is adjustable for 1-1/4 in. to 2 in. pipe
- Mounting Hardware Kit
 - (1) 5/8 x 10 Throughbolt and Nut (15.9mm x 254mm)
 - (2) 3/8 x 3 Lag Screws (9.5mm x 76mm)

Finish

- Cast aluminum

Electrical

- 120-277 volt.
- System power factor is >90% and THD <20%
- Class "A" Sound rating.
- Surge Protection per ANSI C136.2-2015
 - Standard: 6Kv/3kA "Basic"
 - Optional: 10kV/5kA "Enhanced"
- EMI: Title 47 CFR 15 Class A.
- Photo Control/Socket includes ANSI Twist Lock per
 - ANSI C136.10 for PE function options 2, 4, and 5
 - ANSI C136.41 for PE function options A, D
- Temperature Range -40° C to +40° C



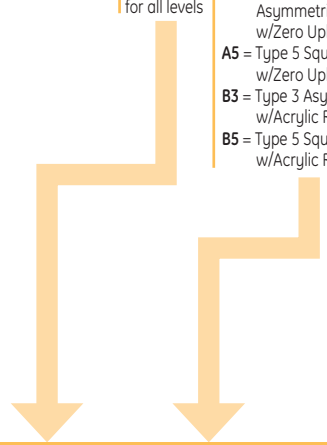
Ordering Number Logic

Evolve™ LED Security Light (E2SB)



E 2 S B **0** **1** **R**

PROD. ID	VOLTAGE	OPTICAL CODE	PHOTOMETRIC TYPE	DRIVE CURRENT	LED COLOR TEMP	PE FUNCTION	MOUNTING	POWER LEADS	OPTIONS
E2SB = Evolve Security Light	0 = 120-277	See Charts for all levels	A3 = Type 3 Asymmetric w/Zero Uplight A5 = Type 5 Square w/Zero Uplight B3 = Type 3 Asymmetric w/Acrylic Refractor B5 = Type 5 Square w/Acrylic Refractor	1 = Standard	30 = 3000K 40 = 4000K 50 = 5000K	2 = PE Rec.* 4 = PE Rec. with Shorting Cap* 5 = PE Rec. with Control* A = ANSI C136.41-7-pin Dimming Receptacle D = ANSI C136.41-7-pin Dimming Receptacle with Shorting Cap * Compliant with ANSI C136.10	N = None L = Long 24 in Bracket	N = None 2 = 3 ft #14 Leads 4 = 5 ft #14 Leads 5 = 8 ft #14 Leads 6 = 8 ft #10 Leads	R = Secondary Enhanced Surge Protection (10kV/5kA)



PRODUCT ID	OPTICAL CODE	PHOTOMETRIC TYPE	TYPICAL SYSTEM WATTAGE			TYPICAL INITIAL LUMENS		BUG RATING		IES FILE NUMBERS		
			120-277V	3000K	4000K/5000K	3000K	4000K/5000K	3000K	4000K	5000K		
E2SB	A1	A3	42	4000	4200	B1-U0-G1	B1-U0-G1	E2SB_A1A3130_IES	E2SB_A1A3140_IES	E2SB_A1A3150_IES		
E2SB	B1		57	5700	5900	B1-U0-G1	B1-U0-G1	E2SB_B1A3130_IES	E2SB_B1A3140_IES	E2SB_B1A3150_IES		
E2SB	A1	A5	42	4000	4200	B2-U0-G0	B2-U0-G0	E2SB_A1A5130_IES	E2SB_A1A5140_IES	E2SB_A1A5150_IES		
E2SB	B1		57	5700	5900	B2-U0-G0	B2-U0-G0	E2SB_B1A5130_IES	E2SB_B1A5140_IES	E2SB_B1A5150_IES		
E2SB	A1	B3	42	3800	4000	B1-U3-G1	B1-U3-G1	E2SB_A1B3130_IES	E2SB_A1B3140_IES	E2SB_A1B3150_IES		
E2SB	B1		57	5500	5700	B1-U3-G1	B1-U3-G1	E2SB_B1B3130_IES	E2SB_B1B3140_IES	E2SB_B1B3150_IES		
E2SB	A1	B5	42	3800	4000	B2-U2-G1	B2-U3-G1	E2SB_A1B5130_IES	E2SB_A1B5140_IES	E2SB_A1B5150_IES		
E2SB	B1		57	5500	5700	B2-U3-G1	B2-U3-G1	E2SB_B1B5130_IES	E2SB_B1B5140_IES	E2SB_B1B5150_IES		

DLC 4.X LISTED MODEL NUMBERS

- E2SB-(0,1,2,3,4)-A1-A3-1-30-X-X-X-XXX
- E2SB-(0,1,2,3,4)-A1-A3-1-40-X-X-X-XXX
- E2SB-(0,1,2,3,4)-A1-A3-1-50-X-X-X-XXX
- E2SB-(0,1,2,3,4)-B1-A3-1-30-X-X-X-XXX
- E2SB-(0,1,2,3,4)-B1-A3-1-40-X-X-X-XXX
- E2SB-(0,1,2,3,4)-B1-A3-1-50-X-X-X-XXX
- E2SB-(0,1,2,3,4)-A1-A5-1-30-X-X-X-XXX
- E2SB-(0,1,2,3,4)-A1-A5-1-40-X-X-X-XXX
- E2SB-(0,1,2,3,4)-A1-A5-1-50-X-X-X-XXX
- E2SB-(0,1,2,3,4)-B1-A5-1-30-X-X-X-XXX
- E2SB-(0,1,2,3,4)-B1-A5-1-40-X-X-X-XXX
- E2SB-(0,1,2,3,4)-B1-A5-1-50-X-X-X-XXX



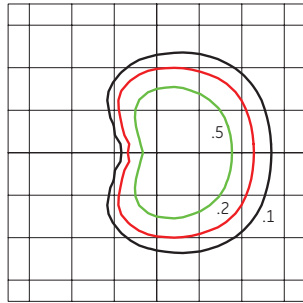
Photometrics

Evolve™ LED Security Light (E2SB)

E2SB Asymmetric (B1A3)

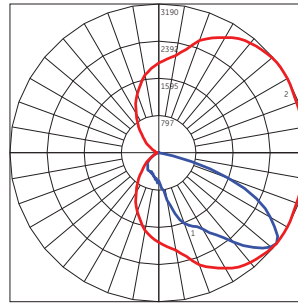
5,900 Lumens
4000K
E2SB_B1A3140.ies

ISO Plot



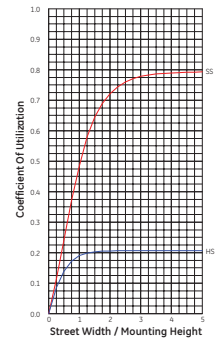
Grid Distance in Units of Mounting Height at 25' Initial Footcandle Values at Grade

Polar Curve



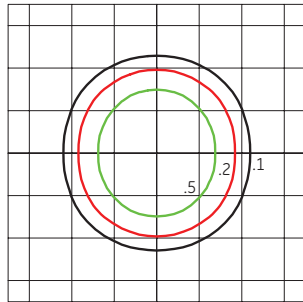
— Vertical plane through horizontal angle of maximum candpower at 35°
— Vertical plane through horizontal angle of 52.5°

CU Graph

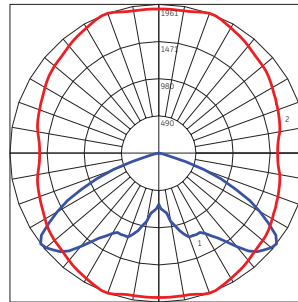


E2SB Symmetric Square (B1A5)

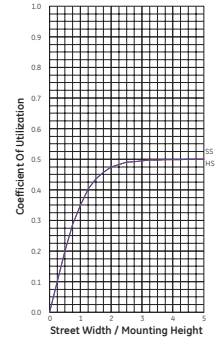
5,900 Lumens
4000K
E2SB_B1A5140.ies



Grid Distance in Units of Mounting Height at 25' Initial Footcandle Values at Grade

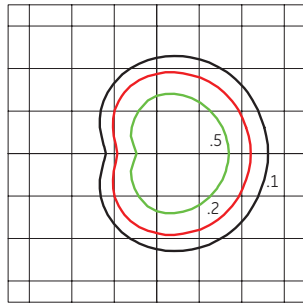


— Vertical plane through horizontal angle of maximum candpower at 70°
— Vertical plane through horizontal angle of 52.5°

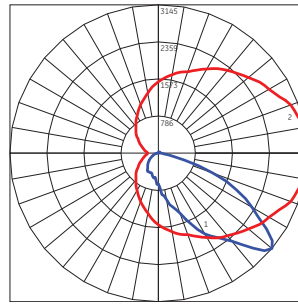


E2SB Asymmetric (B1B3)

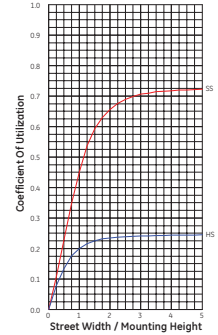
5,700 Lumens
4000K
E2SB_B1B3140.ies



Grid Distance in Units of Mounting Height at 25' Initial Footcandle Values at Grade

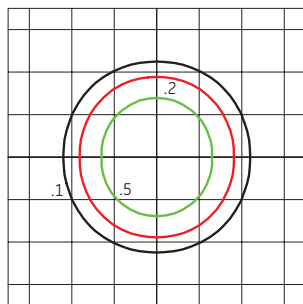


— Vertical plane through horizontal angle of maximum candpower at 7.5°
— Vertical plane through horizontal angle of 52.5°

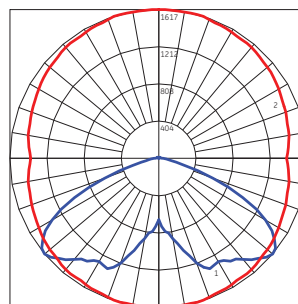


E2SB Symmetric Square (B1B5)

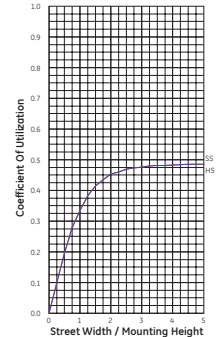
5,700 Lumens
4000K
E2SB_B1B5140.ies



Grid Distance in Units of Mounting Height at 25' Initial Footcandle Values at Grade

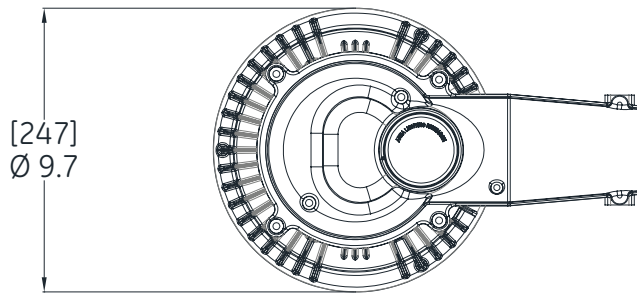


— Vertical plane through horizontal angle of maximum candpower at 75°
— Vertical plane through horizontal angle of 50°

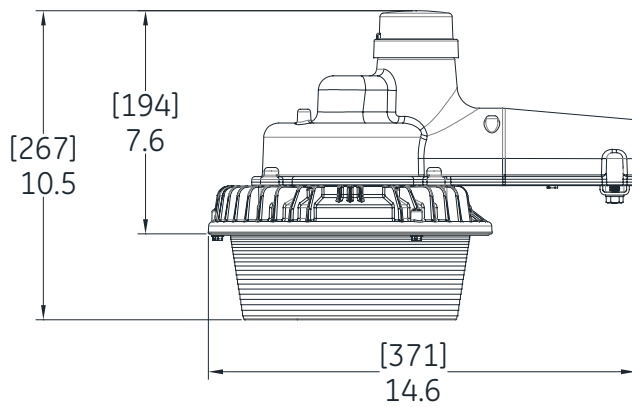
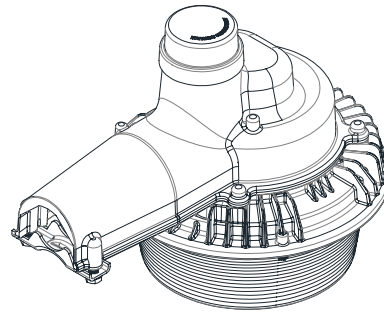


Product Dimensions

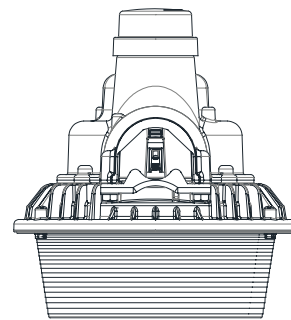
Evolve™ LED Security Light (E2SB)



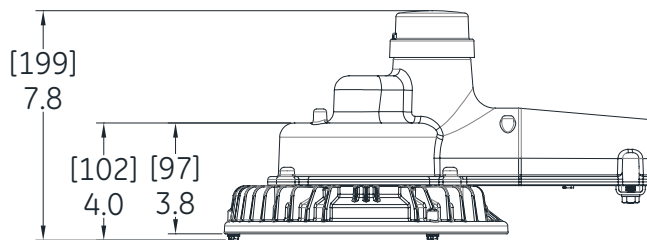
TOP VIEW



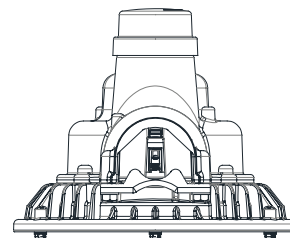
SIDE VIEW



BACK VIEW



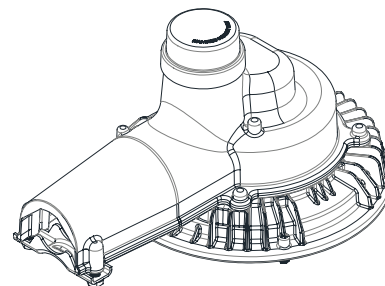
SIDE VIEW



BACK VIEW

DATA

- Approximate Net Weight 7.2 - 7.6 lbs without mounting bracket
Long 24 in. (610 mm) Mounting Bracket: 16 lbs (7.3 kgs)
- Effective Projected Area: 0.38 sq. ft.
- Suggested Mounting Height: 12-25 ft. (4-8 M)





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