

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P941670

Luminaire Tested: **GALN-SB5B-827-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941670  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5B-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

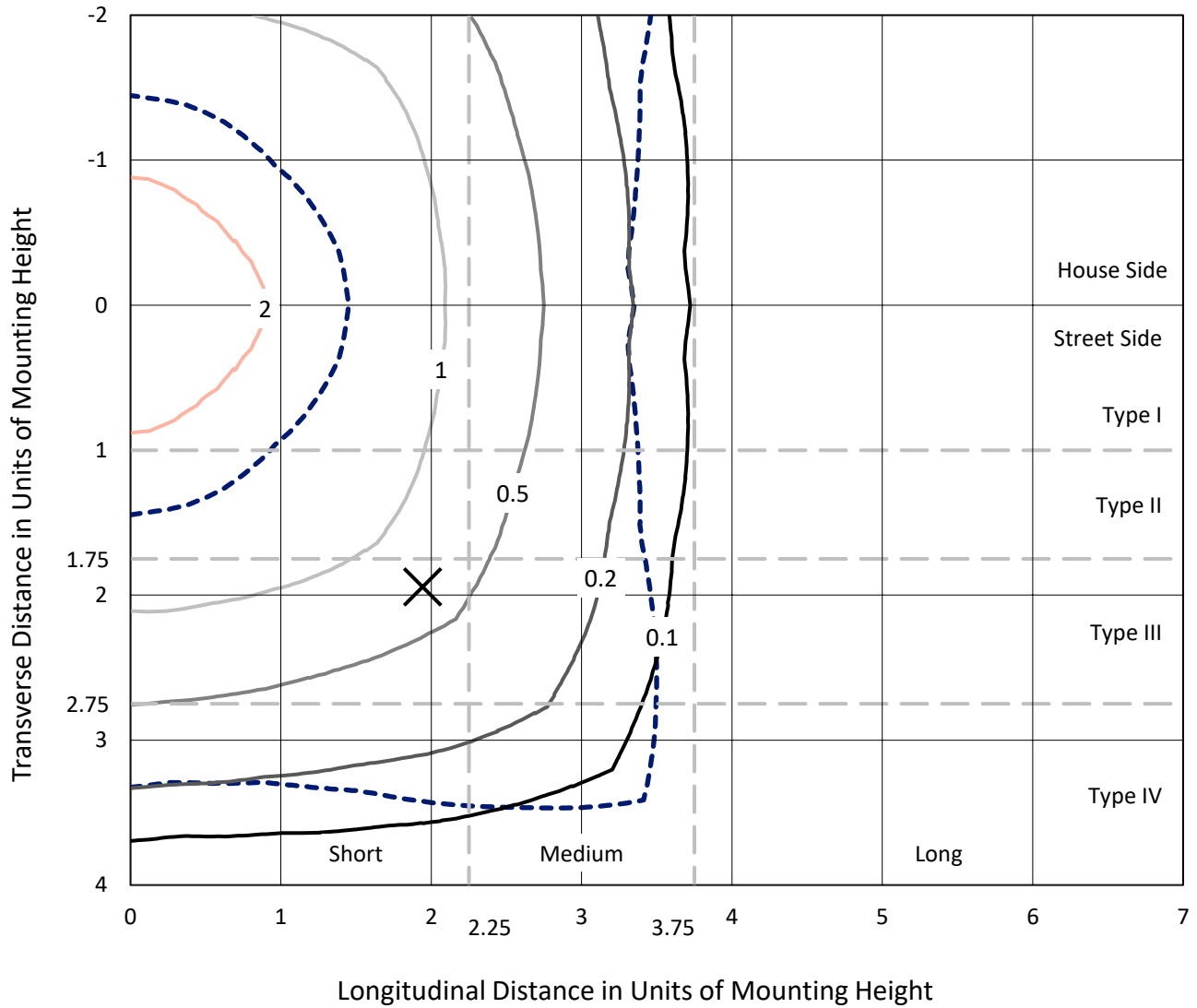
Lumens per Lamp: N/A  
Luminaire Lumens: 25019 lumens  
Efficiency: N/A  
Efficacy: 136.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

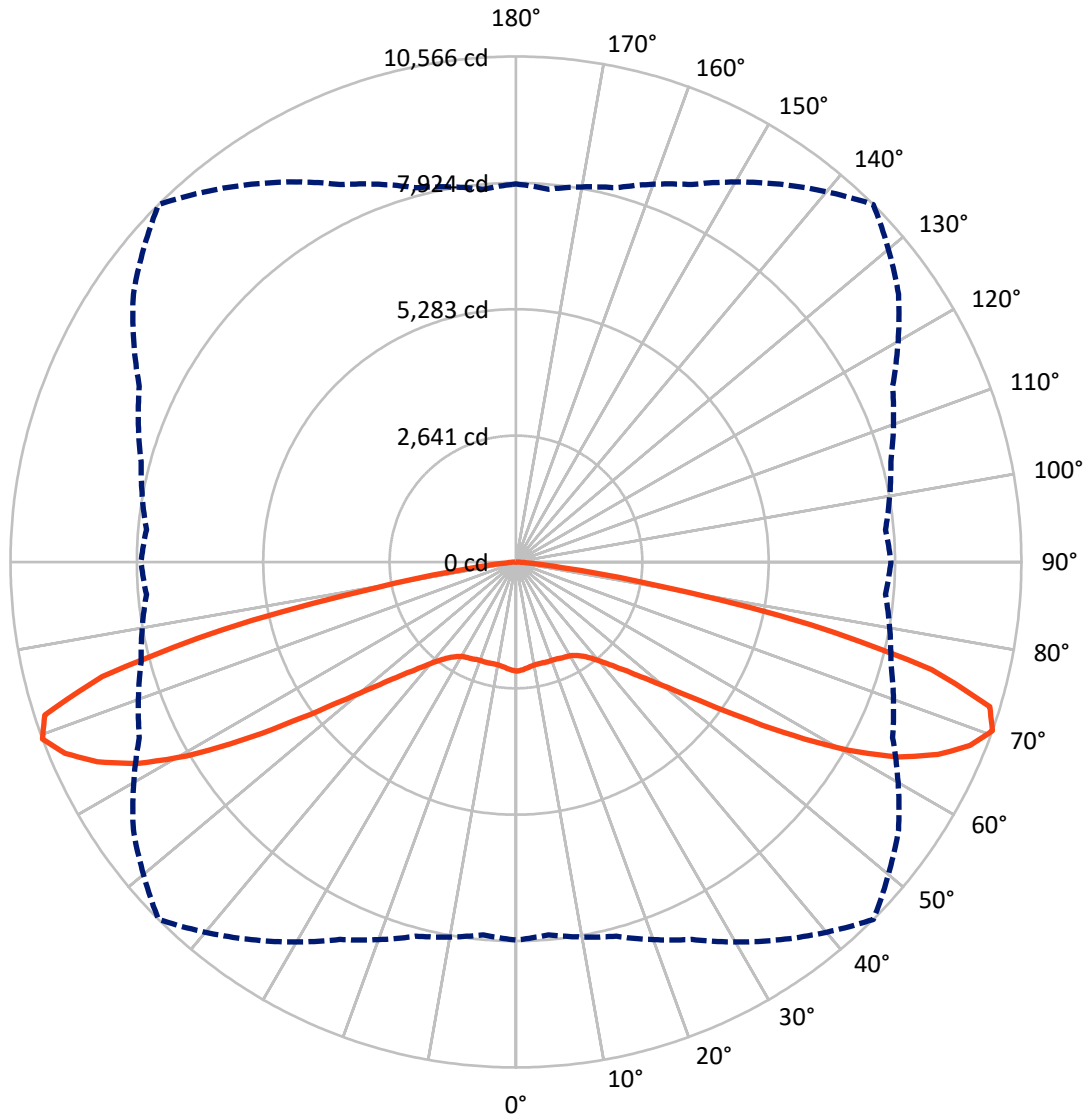
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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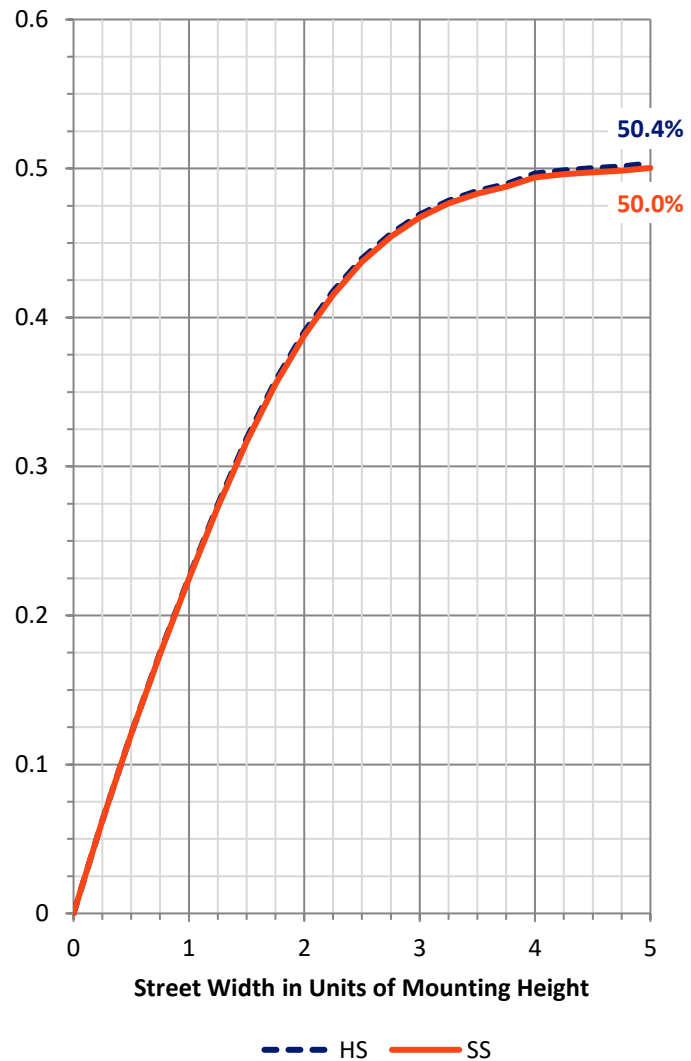
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12509.5	0.0	12509.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12509.5	0.0	12509.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25019.0	0.0	25019.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.3	0.8
10°-20°	623.4	2.5
20°-30°	1037.4	4.1
30°-40°	1568.8	6.3
40°-50°	2607.0	10.4
50°-60°	4919.4	19.7
60°-70°	8306.5	33.2
70°-80°	5458.2	21.8
80°-90°	286.0	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25019.0	100.0
0°-180°	25019.0	100.0



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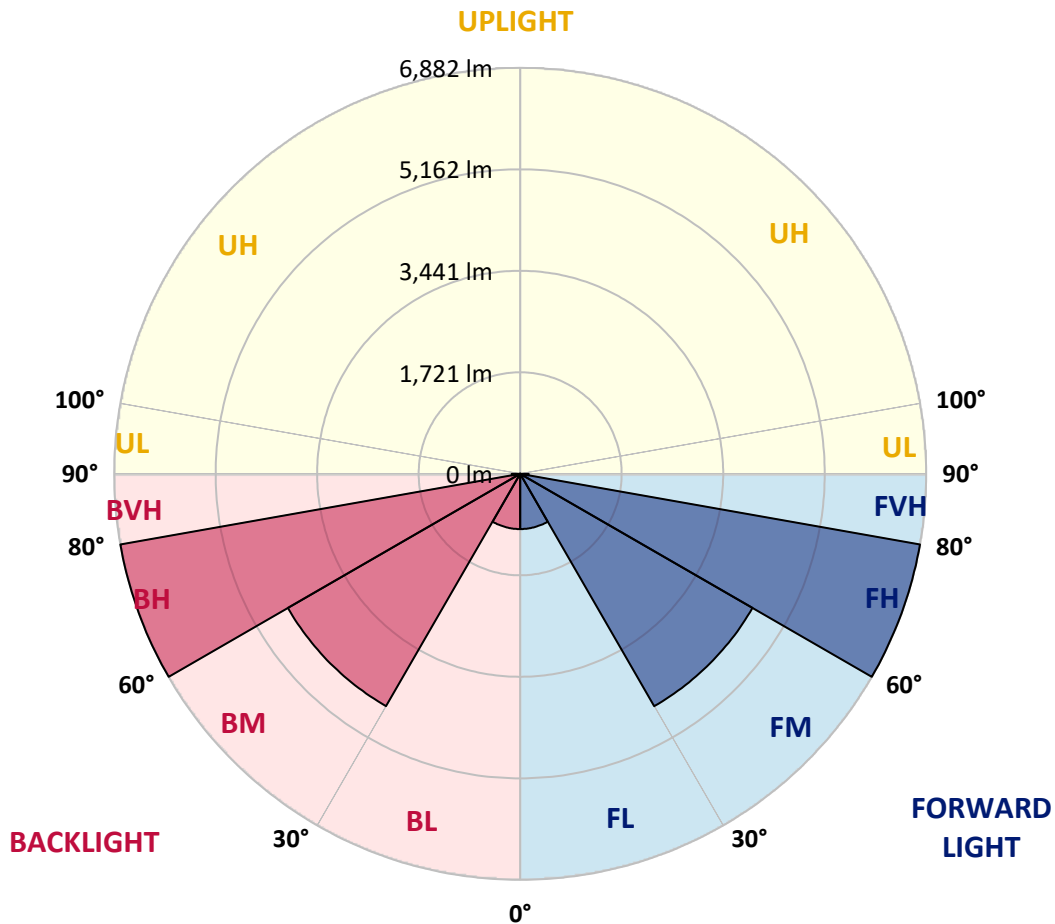
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	936.5	3.7			
FM (30°-60°)	4547.6	18.2			
FH (60°-80°)	6882.4	27.5			G3/7500
FVH (80°-90°)	143.0	0.6			G2/225
BL (0°-30°)	936.5	3.7	B2/1000		
BM (30°-60°)	4547.6	18.2	B3/5000		
BH (60°-80°)	6882.4	27.5	B5		G3/7500
BVH (80°-90°)	143.0	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2	2282.2
2.5°	2267.9	2274.4	2271.8	2266.6	2266.6	2262.7	2266.6	2269.2	2273.1	2275.7
5°	2238.0	2243.2	2241.9	2238.0	2239.3	2235.4	2238.0	2241.9	2244.5	2245.8
7.5°	2212.0	2217.2	2214.6	2208.1	2208.1	2204.2	2205.5	2209.4	2213.3	2214.6
10°	2205.5	2210.7	2202.9	2192.5	2188.6	2183.4	2184.7	2188.6	2196.4	2200.3
12.5°	2208.1	2212.0	2204.2	2188.6	2184.7	2179.5	2179.5	2183.4	2193.8	2199.0
15°	2215.9	2219.8	2208.1	2191.2	2187.3	2183.4	2182.1	2187.3	2199.0	2208.1
17.5°	2230.2	2234.1	2215.9	2192.5	2187.3	2188.6	2187.3	2191.2	2209.4	2226.3
20°	2243.2	2245.8	2221.1	2192.5	2187.3	2188.6	2187.3	2195.1	2218.5	2241.9
22.5°	2247.1	2249.7	2226.3	2201.6	2197.7	2199.0	2197.7	2205.5	2227.6	2251.0
25°	2248.4	2252.3	2234.1	2214.6	2221.1	2223.7	2221.1	2222.4	2239.3	2260.1
27.5°	2267.9	2273.1	2256.2	2239.3	2243.2	2241.9	2245.8	2249.7	2262.7	2283.5
30°	2308.2	2312.1	2297.8	2280.9	2278.3	2269.2	2280.9	2293.9	2308.2	2326.5
32.5°	2374.6	2382.4	2364.2	2346.0	2334.3	2329.1	2338.2	2360.3	2379.8	2399.3
35°	2485.1	2490.3	2473.4	2439.6	2418.8	2418.8	2426.6	2455.2	2486.4	2511.1
37.5°	2641.2	2647.7	2617.7	2577.4	2546.2	2546.2	2556.6	2586.5	2633.3	2668.5
40°	2831.0	2840.1	2802.4	2760.8	2730.9	2725.7	2738.7	2772.5	2816.7	2860.9
42.5°	3059.9	3070.3	3020.9	2984.5	2961.1	2961.1	2967.6	2998.8	3039.1	3093.7
45°	3352.5	3370.7	3303.1	3266.7	3244.5	3249.7	3253.7	3281.0	3317.4	3379.8
47.5°	3701.0	3719.2	3647.7	3610.0	3606.1	3630.8	3615.2	3634.7	3654.2	3725.7
50°	4096.3	4127.5	4078.1	4075.5	4083.3	4128.8	4092.4	4102.8	4080.7	4126.2
52.5°	4580.1	4625.6	4616.5	4632.1	4719.2	4812.9	4729.6	4693.2	4610.0	4624.3
55°	5166.6	5235.5	5248.5	5342.1	5539.8	5730.9	5554.1	5407.1	5230.3	5197.8
57.5°	5833.7	5888.3	5950.7	6141.9	6511.2	6850.6	6511.2	6186.1	5907.8	5841.5
60°	6551.5	6619.1	6679.0	6961.1	7509.9	7987.2	7499.5	6983.3	6615.2	6525.5
62.5°	7322.7	7409.8	7451.4	7764.8	8404.6	8974.2	8413.7	7788.2	7379.9	7283.7
65°	8062.6	8134.1	8180.9	8515.1	9126.3	9697.2	9168.0	8551.6	8131.5	8005.4
67.5°	8407.2	8446.2	8560.7	8939.1	9584.1	10235.6	9693.3	8979.4	8509.9	8288.9
70°	7902.7	7823.3	8099.0	8705.0	9638.7	10565.9	9763.6	8686.8	8112.0	7753.1
72.5°	6106.8	5970.2	6448.8	7485.2	9014.5	10355.2	9076.9	7543.7	6746.6	6018.3
75°	3322.6	3167.8	3828.4	5139.3	7188.7	8975.5	7353.9	5286.2	4262.8	3297.9
77.5°	937.6	879.1	1412.3	2486.4	4323.9	6301.8	4490.3	2541.0	1674.9	993.5
80°	287.4	278.3	377.1	749.0	1836.2	3018.3	1764.7	758.1	479.9	303.0
82.5°	170.4	156.1	187.3	273.1	468.2	948.0	455.1	284.8	228.9	153.4
85°	97.5	91.0	110.5	132.6	157.4	201.6	131.3	135.2	122.2	81.9
87.5°	40.3	36.4	42.9	41.6	36.4	46.8	35.1	41.6	49.4	32.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2282.2
2274.4
2245.8
2214.6
2200.3
2200.3
2209.4
2226.3
2243.2
2251.0
2258.8
2278.3
2322.5
2391.5
2502.0
2655.5
2846.6
3089.8
3377.2
3704.9
4098.9
4576.2
5147.1
5794.7
6447.5
7205.6
7943.0
8291.5
7838.9
6199.1
3512.4
1104.1
319.9
166.5
85.8
29.9
0.0

OF REPORT)