

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: P941690

Luminaire Tested: **GALN-SB5B-835-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941690  
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-835-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

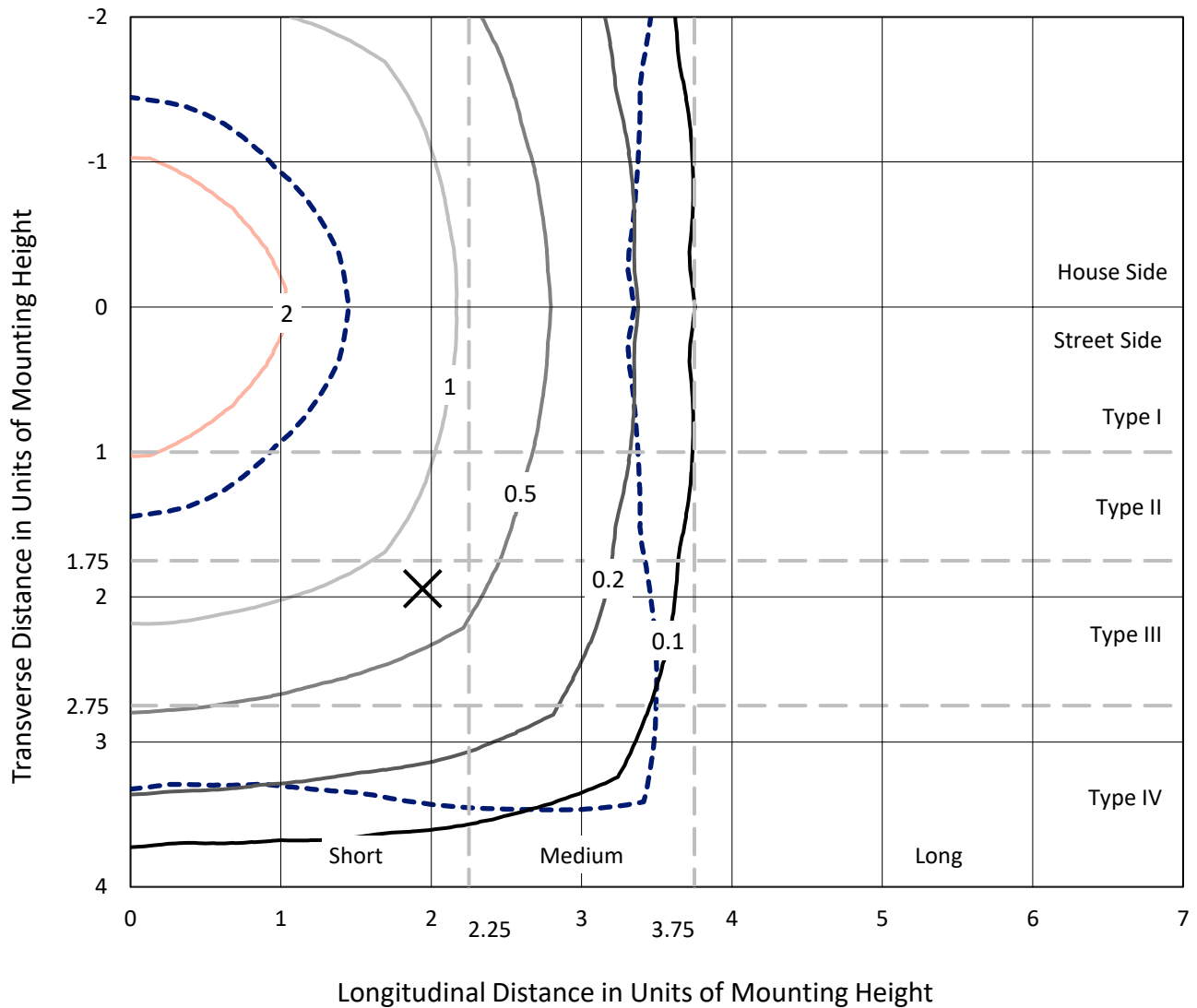
Lumens per Lamp: N/A  
Luminaire Lumens: 26687 lumens  
Efficiency: N/A  
Efficacy: 146.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

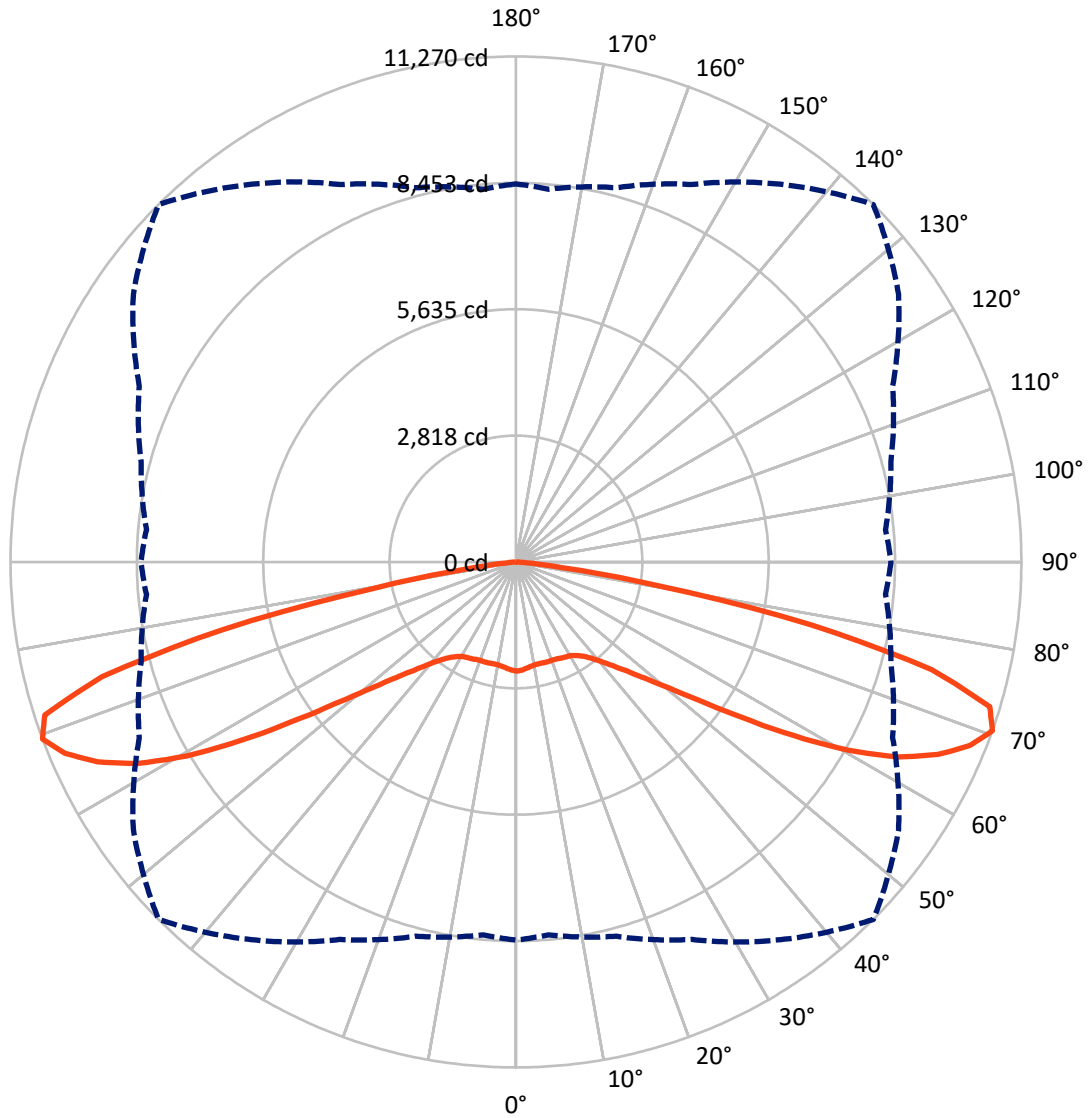
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	13343.5	0.0	13343.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13343.5	0.0	13343.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26687.0	0.0	26687.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.5	0.8
10°-20°	664.9	2.5
20°-30°	1106.5	4.1
30°-40°	1673.4	6.3
40°-50°	2780.8	10.4
50°-60°	5247.3	19.7
60°-70°	8860.3	33.2
70°-80°	5822.2	21.8
80°-90°	305.0	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°	26687.0	100.0
0°-180°	26687.0	100.0

**Coefficient of Utilization**



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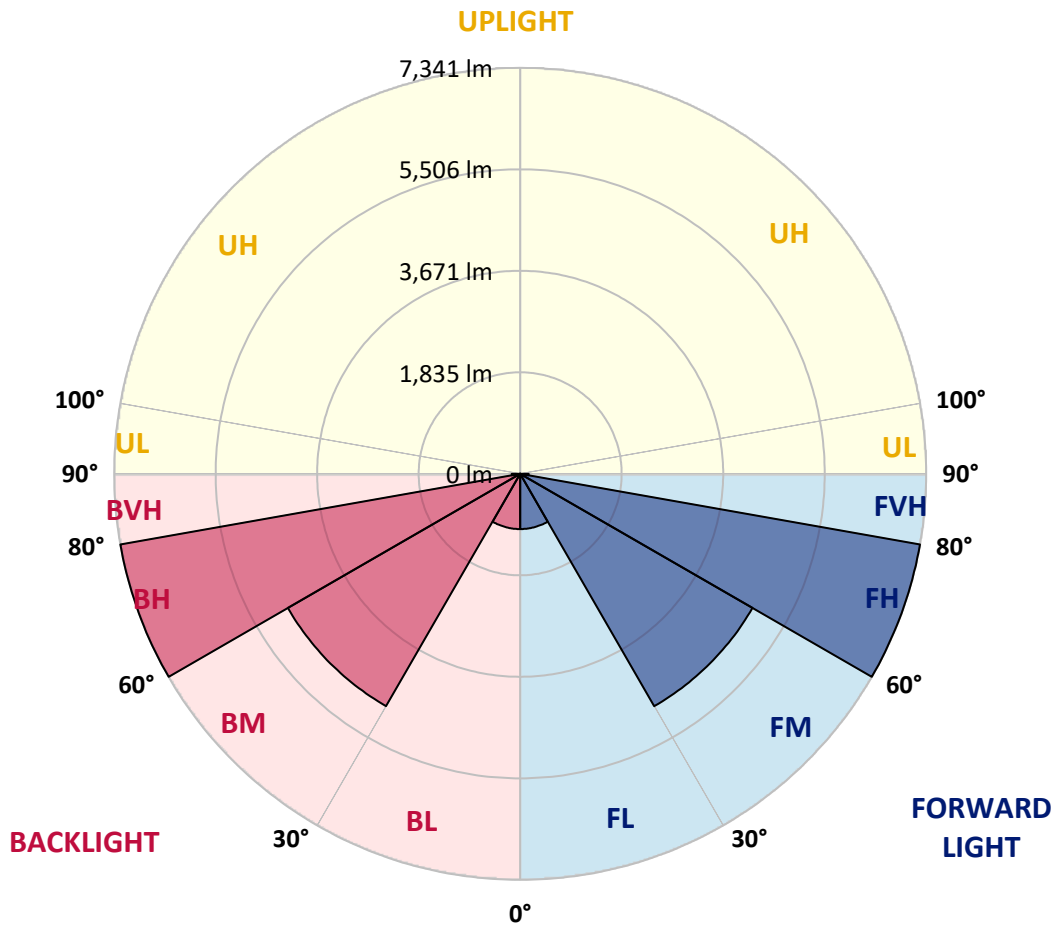
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	999.0	3.7			
FM (30°-60°)	4850.8	18.2			
FH (60°-80°)	7341.2	27.5			G3/7500
FVH (80°-90°)	152.5	0.6			G2/225
BL (0°-30°)	999.0	3.7	B2/1000		
BM (30°-60°)	4850.8	18.2	B3/5000		
BH (60°-80°)	7341.2	27.5	B5		G3/7500
BVH (80°-90°)	152.5	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°	2434.4	2434.4	2434.4	2434.4	2434.4	2434.4	2434.4	2434.4	2434.4	2434.4
2.5°	2419.1	2426.1	2423.3	2417.7	2417.7	2413.6	2417.7	2420.5	2424.7	2427.5
5°	2387.2	2392.8	2391.4	2387.2	2388.6	2384.5	2387.2	2391.4	2394.2	2395.6
7.5°	2359.5	2365.0	2362.3	2355.3	2355.3	2351.2	2352.6	2356.7	2360.9	2362.3
10°	2352.6	2358.1	2349.8	2338.7	2334.5	2329.0	2330.4	2334.5	2342.8	2347.0
12.5°	2355.3	2359.5	2351.2	2334.5	2330.4	2324.8	2324.8	2329.0	2340.1	2345.6
15°	2363.6	2367.8	2355.3	2337.3	2333.1	2329.0	2327.6	2333.1	2345.6	2355.3
17.5°	2378.9	2383.1	2363.6	2338.7	2333.1	2334.5	2333.1	2337.3	2356.7	2374.7
20°	2392.8	2395.6	2369.2	2338.7	2333.1	2334.5	2333.1	2341.5	2366.4	2391.4
22.5°	2396.9	2399.7	2374.7	2348.4	2344.2	2345.6	2344.2	2352.6	2376.1	2401.1
25°	2398.3	2402.5	2383.1	2362.3	2369.2	2372.0	2369.2	2370.6	2388.6	2410.8
27.5°	2419.1	2424.7	2406.6	2388.6	2392.8	2391.4	2395.6	2399.7	2413.6	2435.8
30°	2462.1	2466.3	2451.0	2433.0	2430.2	2420.5	2433.0	2446.9	2462.1	2481.6
32.5°	2532.9	2541.2	2521.8	2502.4	2489.9	2484.3	2494.0	2517.6	2538.4	2559.2
35°	2650.8	2656.3	2638.3	2602.2	2580.0	2580.0	2588.4	2618.9	2652.2	2678.5
37.5°	2817.2	2824.2	2792.3	2749.3	2716.0	2716.0	2727.1	2759.0	2808.9	2846.4
40°	3019.8	3029.5	2989.2	2944.9	2912.9	2907.4	2921.3	2957.3	3004.5	3051.7
42.5°	3263.9	3275.0	3222.3	3183.4	3158.5	3158.5	3165.4	3198.7	3241.7	3300.0
45°	3576.0	3595.4	3523.3	3484.4	3460.9	3466.4	3470.6	3499.7	3538.5	3605.1
47.5°	3947.7	3967.2	3890.9	3850.6	3846.5	3872.8	3856.2	3877.0	3897.8	3974.1
50°	4369.4	4402.7	4350.0	4347.2	4355.5	4404.1	4365.3	4376.4	4352.8	4401.3
52.5°	4885.4	4934.0	4924.3	4940.9	5033.9	5133.7	5044.9	5006.1	4917.3	4932.6
55°	5511.0	5584.5	5598.4	5698.3	5909.1	6113.0	5924.4	5767.6	5579.0	5544.3
57.5°	6222.6	6280.9	6347.5	6551.4	6945.3	7307.3	6945.3	6598.5	6301.7	6230.9
60°	6988.3	7060.4	7124.2	7425.2	8010.6	8519.7	7999.5	7448.8	7056.3	6960.6
62.5°	7810.9	7903.8	7948.2	8282.5	8964.9	9572.5	8974.7	8307.4	7871.9	7769.2
65°	8600.1	8676.4	8726.4	9082.8	9734.8	10343.7	9779.2	9121.7	8673.6	8539.1
67.5°	8967.7	9009.3	9131.4	9535.0	10223.1	10918.0	10339.6	9578.0	9077.3	8841.5
70°	8429.5	8344.9	8639.0	9285.4	10281.3	11270.3	10414.5	9265.9	8652.8	8270.0
72.5°	6513.9	6368.3	6878.7	7984.2	9615.5	11045.6	9682.1	8046.7	7196.4	6419.6
75°	3544.1	3379.0	4083.7	5481.9	7668.0	9573.9	7844.2	5638.6	4547.0	3517.7
77.5°	1000.1	937.7	1506.4	2652.2	4612.2	6722.0	4789.7	2710.4	1786.6	1059.8
80°	306.6	296.8	402.3	799.0	1958.6	3219.5	1882.3	808.7	511.8	323.2
82.5°	181.7	166.5	199.7	291.3	499.4	1011.2	485.5	303.8	244.1	163.7
85°	104.0	97.1	117.9	141.5	167.8	215.0	140.1	144.3	130.4	87.4
87.5°	43.0	38.8	45.8	44.4	38.8	49.9	37.5	44.4	52.7	34.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2434.4
2426.1
2395.6
2362.3
2347.0
2347.0
2356.7
2374.7
2392.8
2401.1
2409.4
2430.2
2477.4
2550.9
2668.8
2832.5
3036.4
3295.8
3602.3
3951.9
4372.2
4881.3
5490.2
6181.0
6877.3
7686.0
8472.5
8844.3
8361.5
6612.4
3746.6
1177.7
341.2
177.6
91.5
31.9
0.0

OF REPORT)