

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: P951046

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P951046  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
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-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

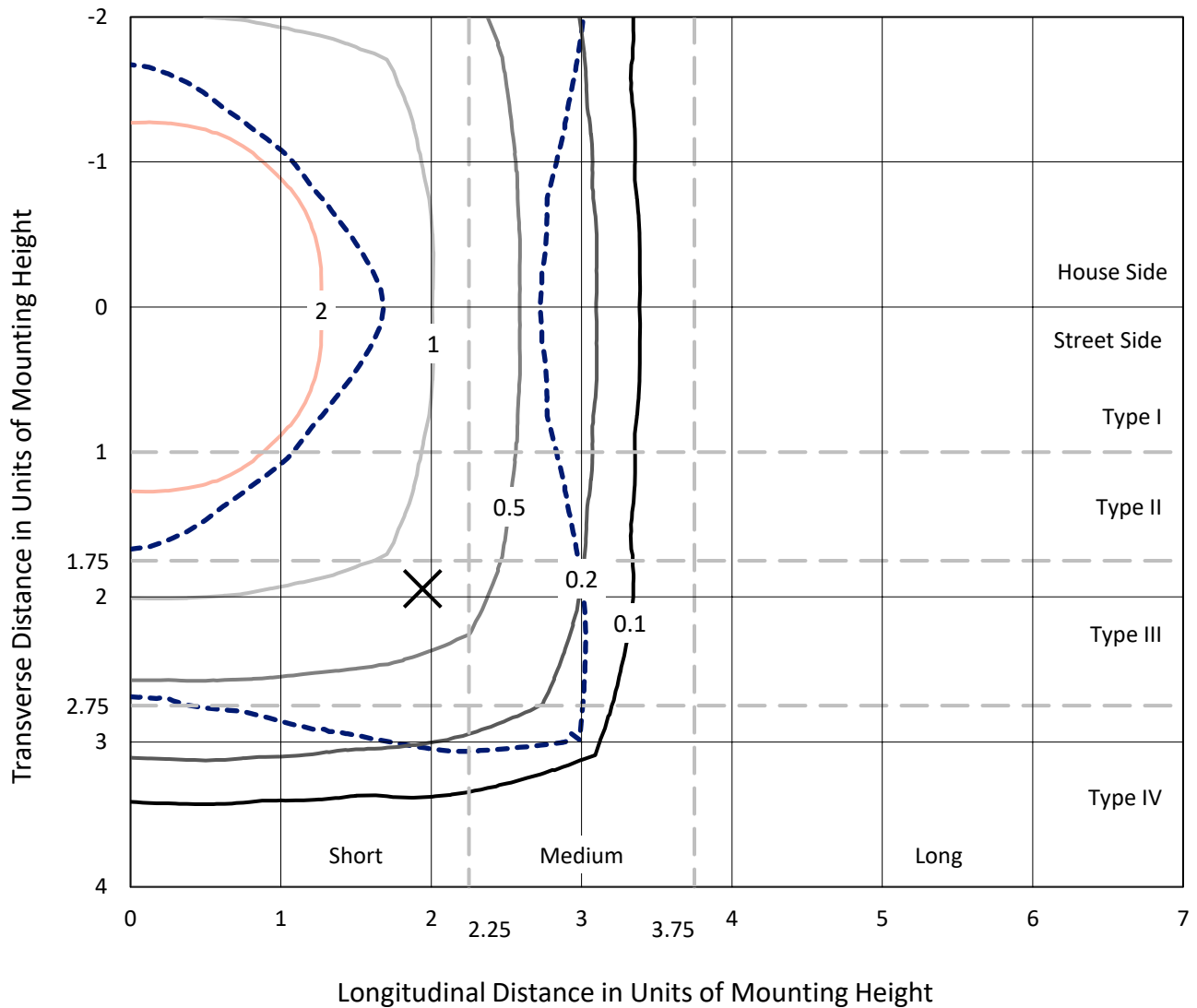
Lumens per Lamp: N/A  
Luminaire Lumens: 25904 lumens  
Efficiency: N/A  
Efficacy: 141.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

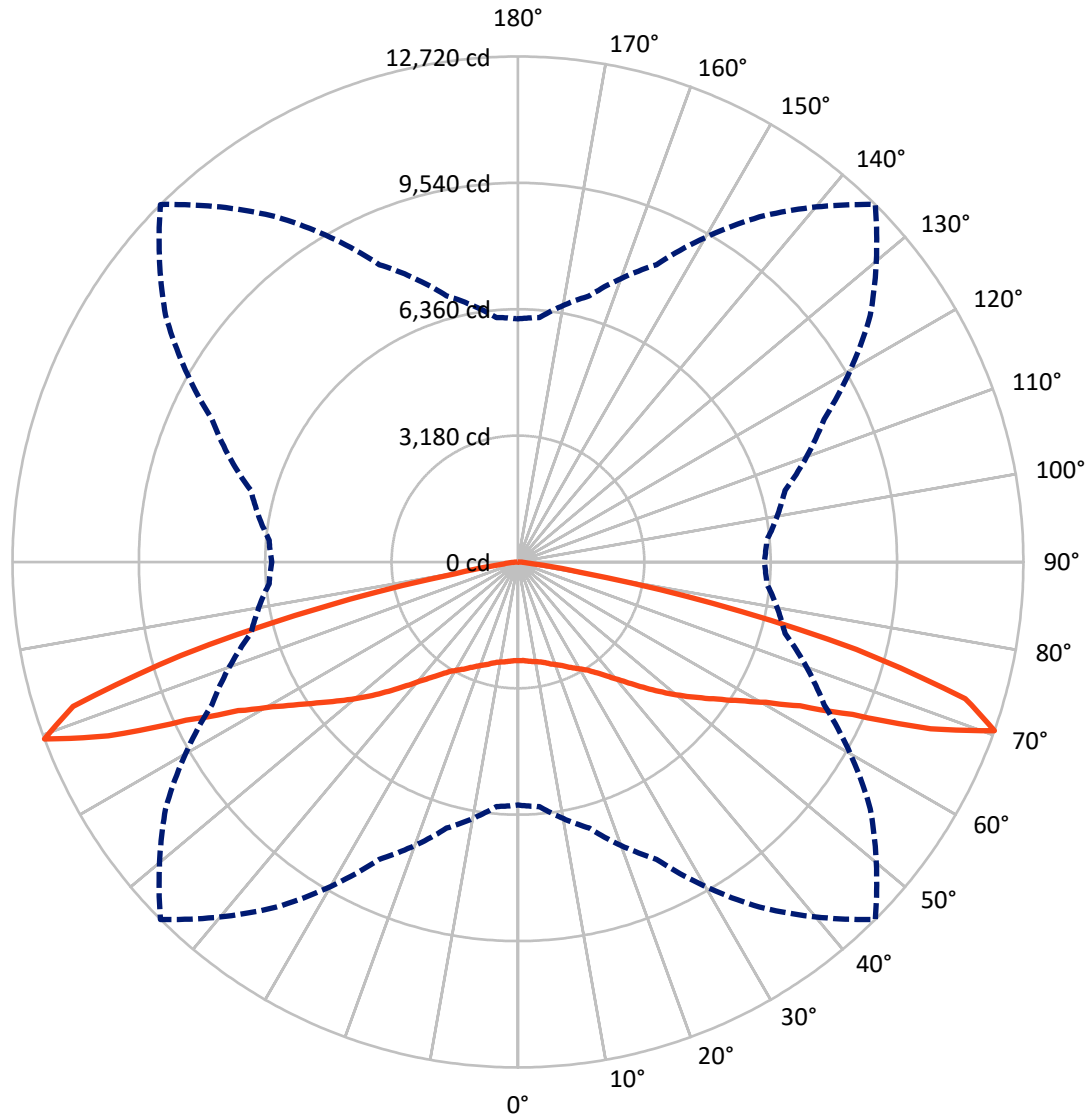
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	12952.0	0.0	12952.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12952.0	0.0	12952.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25904.0	0.0	25904.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.1	0.9
10°-20°	747.5	2.9
20°-30°	1335.9	5.2
30°-40°	2165.4	8.4
40°-50°	3527.2	13.6
50°-60°	5377.7	20.8
60°-70°	8000.3	30.9
70°-80°	4360.4	16.8
80°-90°	148.5	0.6
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°	25904.0	100.0
0°-180°	25904.0	100.0



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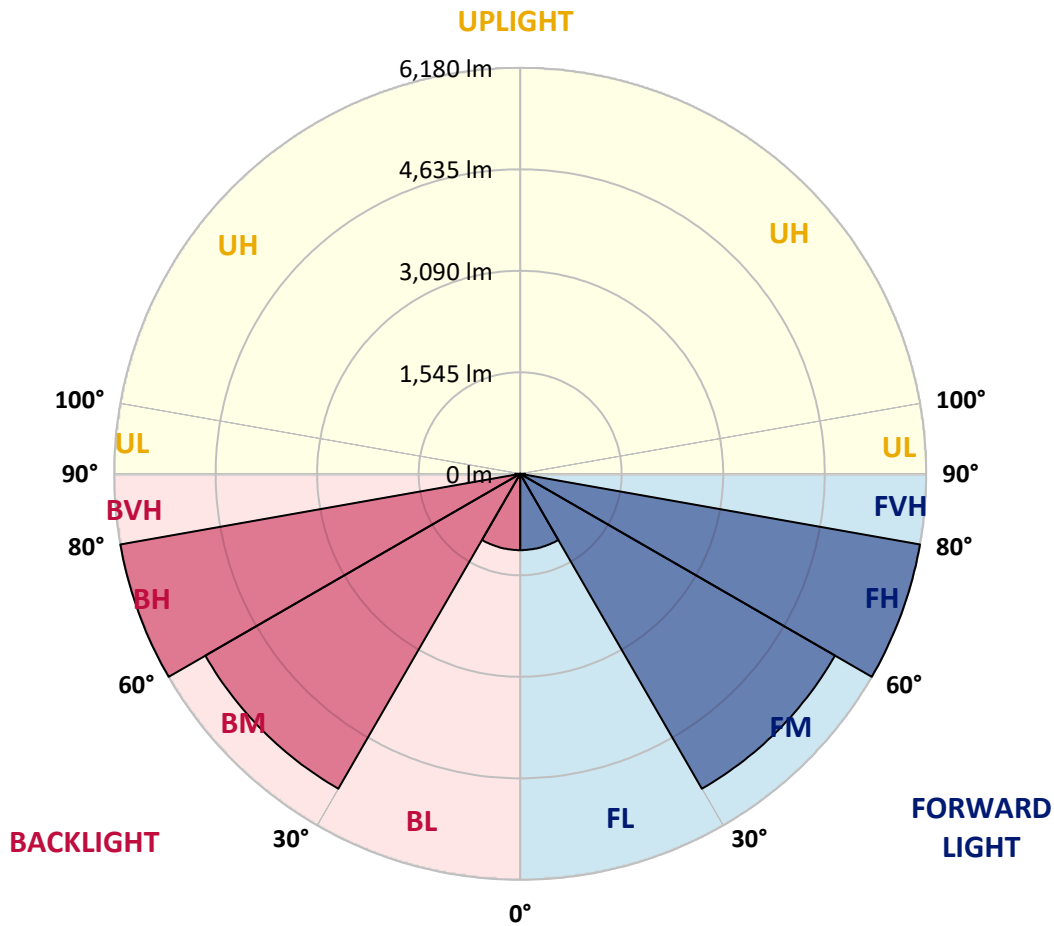
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1162.2	4.5			
FM (30°-60°)	5535.2	21.4			
FH (60°-80°)	6180.4	23.9			G3/7500
FVH (80°-90°)	74.2	0.3			G1/100
BL (0°-30°)	1162.2	4.5	B3/2500		
BM (30°-60°)	5535.2	21.4	B4/8500		
BH (60°-80°)	6180.4	23.9	B5		G3/7500
BVH (80°-90°)	74.2	0.3			G1/100
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°	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3	2481.3
2.5°	2493.0	2495.6	2490.4	2487.8	2485.2	2481.3	2482.6	2489.1	2494.3	2493.0
5°	2513.8	2516.4	2512.5	2511.2	2506.0	2504.7	2504.7	2511.2	2515.1	2512.5
7.5°	2537.3	2541.2	2534.7	2533.4	2530.8	2528.2	2526.9	2533.4	2537.3	2537.3
10°	2559.4	2563.3	2558.1	2554.2	2551.6	2551.6	2549.0	2554.2	2560.7	2559.4
12.5°	2582.8	2585.4	2580.2	2577.6	2577.6	2581.5	2577.6	2580.2	2585.4	2582.8
15°	2611.4	2612.7	2611.4	2615.3	2621.8	2634.8	2623.1	2620.5	2623.1	2616.6
17.5°	2650.4	2653.0	2658.2	2667.3	2676.4	2699.8	2679.0	2672.5	2672.5	2659.5
20°	2698.5	2702.4	2710.2	2725.8	2737.5	2759.6	2738.8	2729.7	2725.8	2708.9
22.5°	2749.2	2755.7	2767.4	2788.3	2809.1	2829.9	2809.1	2793.5	2781.7	2759.6
25°	2807.8	2815.6	2833.8	2867.6	2896.2	2926.1	2901.4	2870.2	2846.8	2815.6
27.5°	2891.0	2900.1	2922.2	2963.8	3000.2	3026.2	3002.8	2962.5	2930.0	2892.3
30°	3008.0	3017.1	3043.1	3087.4	3112.1	3129.0	3113.4	3082.2	3043.1	3000.2
32.5°	3158.9	3170.6	3199.2	3240.8	3246.0	3248.6	3243.4	3227.8	3199.2	3147.2
35°	3350.1	3363.1	3395.6	3429.4	3424.2	3429.4	3421.6	3416.4	3395.6	3335.8
37.5°	3584.2	3599.8	3633.6	3659.6	3646.6	3640.1	3641.4	3642.7	3631.0	3564.6
40°	3856.0	3876.8	3901.5	3928.8	3906.7	3887.2	3900.2	3910.6	3900.2	3832.5
42.5°	4135.6	4165.5	4191.5	4230.5	4212.3	4187.6	4205.8	4217.5	4195.4	4122.6
45°	4446.4	4475.0	4508.8	4567.3	4554.3	4528.3	4554.3	4556.9	4519.2	4433.4
47.5°	4767.6	4797.5	4848.2	4926.3	4921.1	4892.4	4926.3	4908.0	4859.9	4757.2
50°	5071.9	5113.5	5191.6	5300.8	5311.2	5276.1	5321.6	5286.5	5205.9	5077.1
52.5°	5358.0	5402.2	5525.8	5674.0	5711.8	5666.2	5727.4	5666.2	5545.3	5380.1
55°	5658.4	5707.9	5854.8	6048.6	6124.0	6090.2	6147.4	6055.1	5883.4	5683.1
57.5°	6012.2	6042.1	6217.6	6447.8	6575.3	6583.1	6609.1	6453.0	6245.0	6017.4
60°	6395.8	6437.4	6628.6	6904.3	7105.9	7170.9	7143.6	6912.1	6670.2	6408.8
62.5°	6887.4	6932.9	7161.8	7492.1	7810.7	7972.0	7865.4	7529.8	7230.7	6917.3
65°	7294.4	7345.2	7758.7	8347.8	8927.9	9251.7	8983.8	8366.1	7827.6	7385.5
67.5°	6999.2	7061.7	7710.6	8792.6	10234.9	11201.1	10284.3	8925.3	7870.6	7271.0
70°	6117.5	6176.0	6932.9	8255.5	10602.9	12720.1	10824.0	8498.7	6957.6	6286.6
72.5°	4061.4	4250.0	5016.0	6602.6	9467.6	11770.7	9561.2	6468.6	4653.2	4052.3
75°	1347.3	1498.2	2021.0	3422.9	6341.2	8803.0	6036.9	3028.8	1600.9	1152.2
77.5°	339.4	391.4	539.7	979.3	2529.5	5012.1	2277.2	799.8	435.7	304.3
80°	165.2	182.1	260.1	326.4	633.3	1593.1	594.3	306.9	205.5	158.7
82.5°	91.0	92.3	147.0	184.7	235.4	412.3	244.5	179.5	118.3	96.2
85°	55.9	54.6	78.0	98.8	98.8	147.0	117.0	98.8	67.6	59.8
87.5°	22.1	22.1	28.6	31.2	27.3	37.7	29.9	32.5	26.0	24.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2481.3
2494.3
2513.8
2537.3
2559.4
2581.5
2616.6
2659.5
2708.9
2758.3
2814.3
2891.0
3000.2
3148.5
3335.8
3564.6
3832.5
4127.8
4442.5
4750.7
5074.5
5364.5
5655.8
5986.2
6367.2
6862.7
7312.7
7181.3
6196.8
3921.0
1089.8
271.8
145.7
96.2
62.4
26.0
0.0

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