

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: P943110

Luminaire Tested: **GALN-SB7B-940-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943110  
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-SB7B-940-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

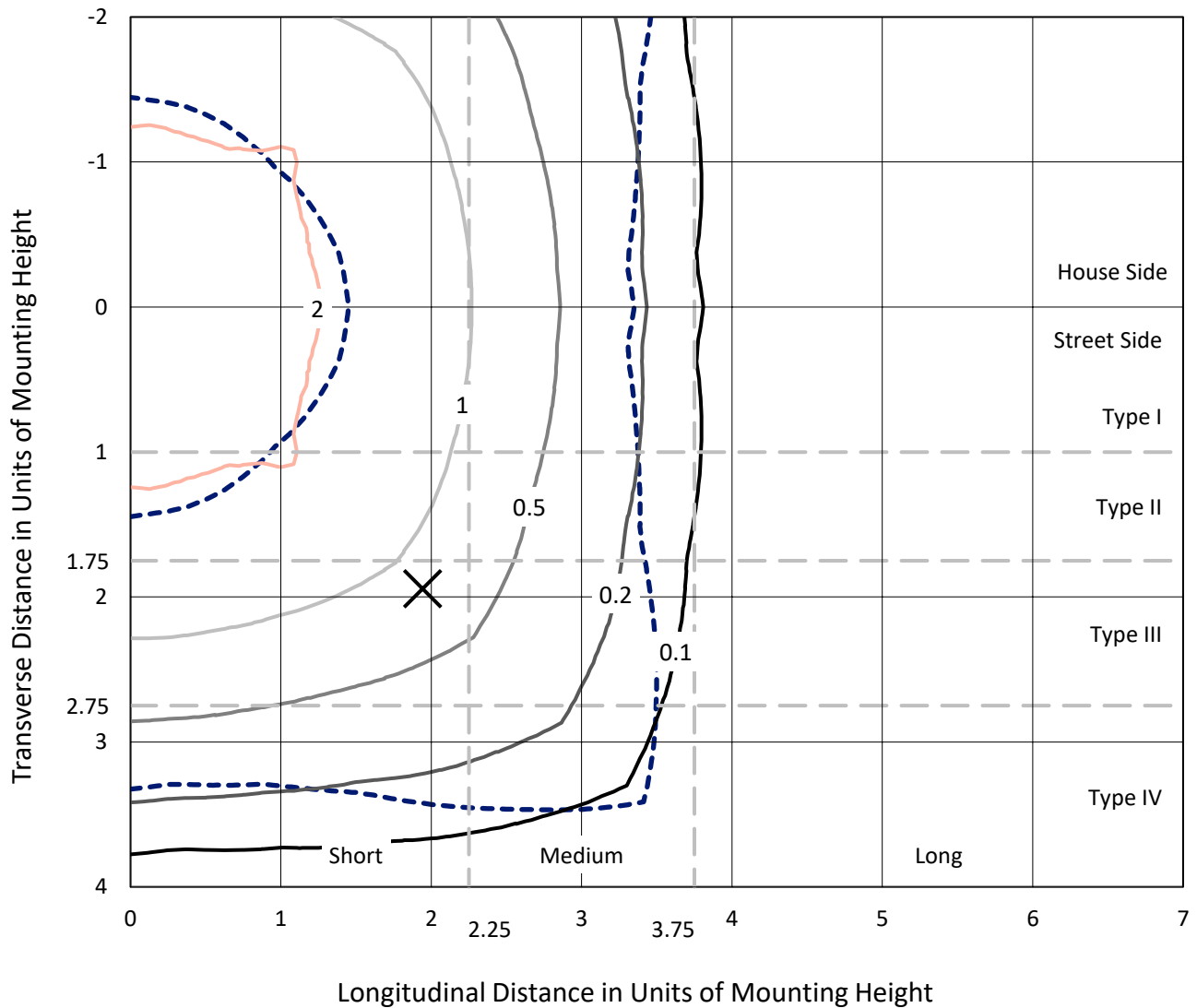
Lumens per Lamp: N/A  
Luminaire Lumens: 29353 lumens  
Efficiency: N/A  
Efficacy: 114.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

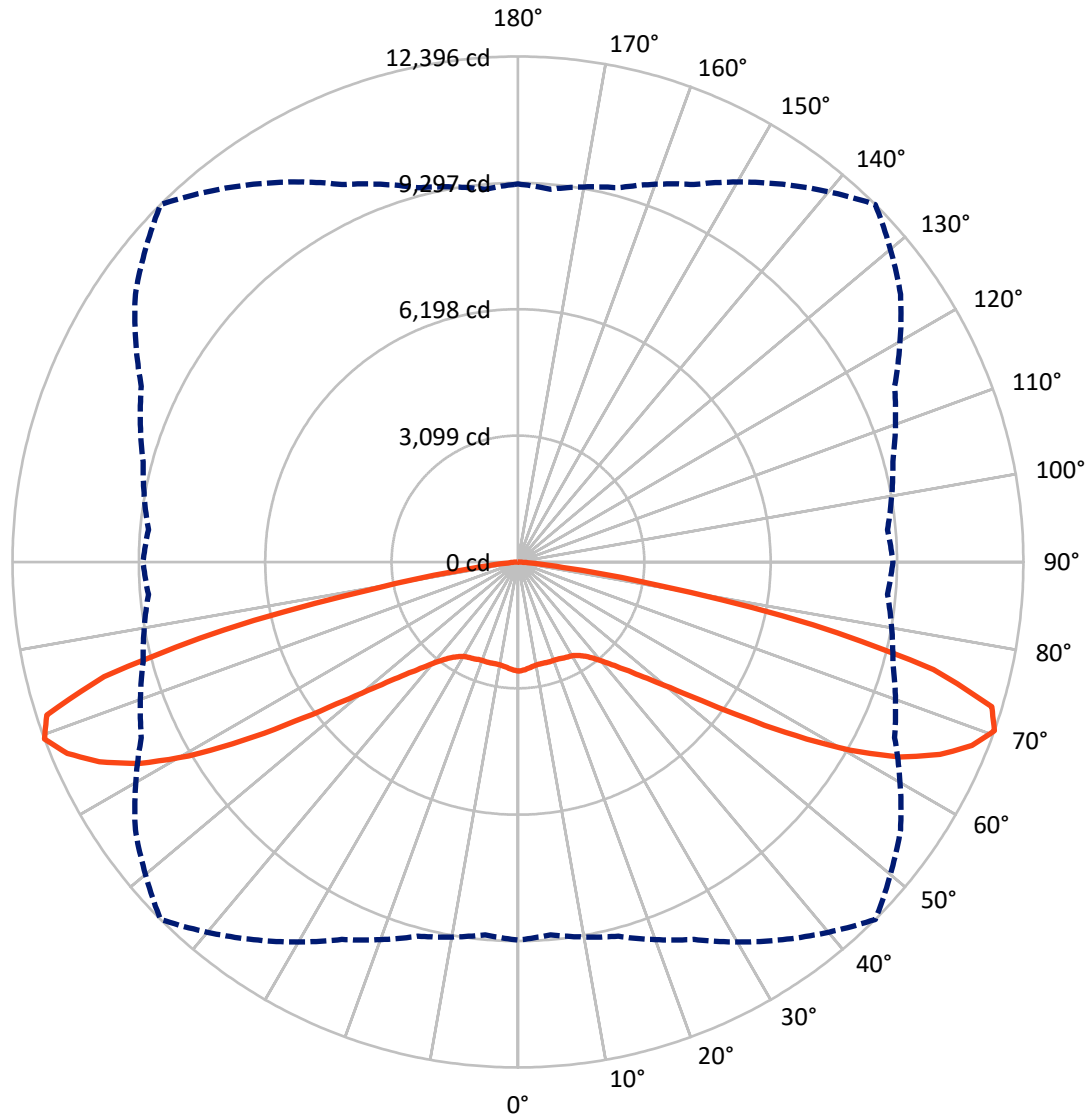
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	14676.5	0.0	14676.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14676.5	0.0	14676.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29353.0	0.0	29353.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.1	0.8
10°-20°	731.4	2.5
20°-30°	1217.1	4.1
30°-40°	1840.6	6.3
40°-50°	3058.6	10.4
50°-60°	5771.5	19.7
60°-70°	9745.5	33.2
70°-80°	6403.8	21.8
80°-90°	335.5	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°	29353.0	100.0
0°-180°	29353.0	100.0



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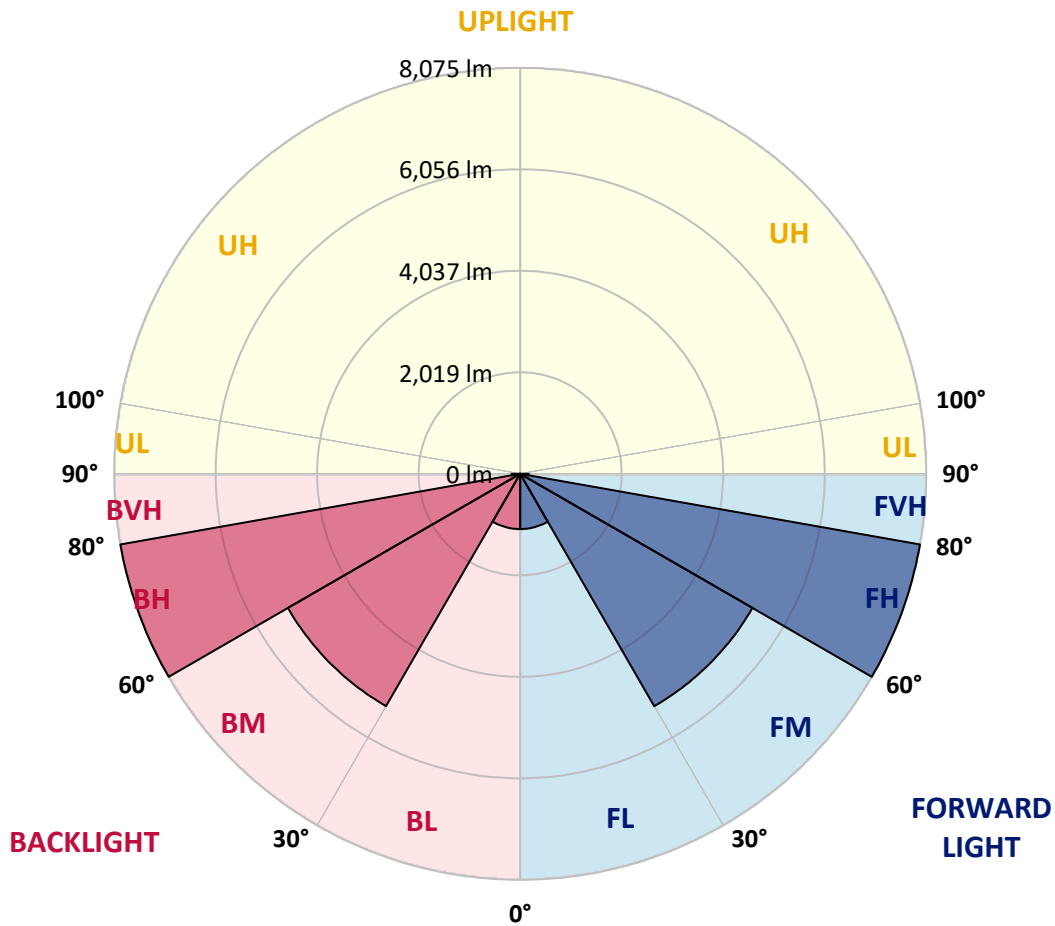
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1098.8	3.7			
FM (30°-60°)	5335.4	18.2			
FH (60°-80°)	8074.6	27.5			G4/12000
FVH (80°-90°)	167.7	0.6			G2/225
BL (0°-30°)	1098.8	3.7	B3/2500		
BM (30°-60°)	5335.4	18.2	B4/8500		
BH (60°-80°)	8074.6	27.5	B5		G4/12000
BVH (80°-90°)	167.7	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-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2677.6	2677.6	2677.6	2677.6	2677.6	2677.6	2677.6	2677.6	2677.6	2677.6
2.5°	2660.8	2668.4	2665.4	2659.3	2659.3	2654.7	2659.3	2662.3	2666.9	2670.0
5°	2625.7	2631.8	2630.3	2625.7	2627.2	2622.7	2625.7	2630.3	2633.3	2634.9
7.5°	2595.2	2601.3	2598.2	2590.6	2590.6	2586.0	2587.6	2592.1	2596.7	2598.2
10°	2587.6	2593.7	2584.5	2572.3	2567.7	2561.6	2563.2	2567.7	2576.9	2581.5
12.5°	2590.6	2595.2	2586.0	2567.7	2563.2	2557.1	2557.1	2561.6	2573.8	2579.9
15°	2599.8	2604.4	2590.6	2570.8	2566.2	2561.6	2560.1	2566.2	2579.9	2590.6
17.5°	2616.6	2621.1	2599.8	2572.3	2566.2	2567.7	2566.2	2570.8	2592.1	2612.0
20°	2631.8	2634.9	2605.9	2572.3	2566.2	2567.7	2566.2	2575.4	2602.8	2630.3
22.5°	2636.4	2639.4	2612.0	2583.0	2578.4	2579.9	2578.4	2587.6	2613.5	2641.0
25°	2637.9	2642.5	2621.1	2598.2	2605.9	2608.9	2605.9	2607.4	2627.2	2651.6
27.5°	2660.8	2666.9	2647.1	2627.2	2631.8	2630.3	2634.9	2639.4	2654.7	2679.1
30°	2708.1	2712.7	2695.9	2676.1	2673.0	2662.3	2676.1	2691.3	2708.1	2729.5
32.5°	2785.9	2795.1	2773.7	2752.3	2738.6	2732.5	2743.2	2769.1	2792.0	2814.9
35°	2915.6	2921.7	2901.9	2862.2	2837.8	2837.8	2846.9	2880.5	2917.1	2946.1
37.5°	3098.7	3106.3	3071.2	3023.9	2987.3	2987.3	2999.5	3034.6	3089.5	3130.7
40°	3321.4	3332.1	3287.9	3239.0	3203.9	3197.8	3213.1	3252.8	3304.6	3356.5
42.5°	3589.9	3602.2	3544.2	3501.5	3474.0	3474.0	3481.6	3518.2	3565.5	3629.6
45°	3933.2	3954.6	3875.3	3832.5	3806.6	3812.7	3817.3	3849.3	3892.0	3965.3
47.5°	4342.1	4363.5	4279.6	4235.3	4230.7	4259.7	4241.4	4264.3	4287.2	4371.1
50°	4805.9	4842.5	4784.6	4781.5	4790.7	4844.1	4801.3	4813.5	4787.6	4841.0
52.5°	5373.5	5426.9	5416.2	5434.5	5536.7	5646.6	5548.9	5506.2	5408.6	5425.4
55°	6061.6	6142.4	6157.7	6267.5	6499.4	6723.7	6516.2	6343.8	6136.3	6098.2
57.5°	6844.2	6908.3	6981.6	7205.8	7639.1	8037.3	7639.1	7257.7	6931.2	6853.4
60°	7686.4	7765.8	7835.9	8167.0	8810.9	9370.8	8798.6	8193.0	7761.2	7655.9
62.5°	8591.2	8693.4	8742.2	9109.9	9860.5	10528.8	9871.2	9137.4	8658.3	8545.4
65°	9459.3	9543.2	9598.1	9990.2	10707.3	11377.1	10756.1	10032.9	9540.1	9392.1
67.5°	9863.6	9909.4	10043.6	10487.6	11244.3	12008.7	11372.5	10534.9	9984.1	9724.7
70°	9271.6	9178.5	9502.0	10213.0	11308.4	12396.2	11454.9	10191.6	9517.2	9096.2
72.5°	7164.6	7004.4	7565.9	8781.9	10576.1	12149.1	10649.3	8850.5	7915.3	7060.9
75°	3898.1	3716.6	4491.6	6029.5	8434.0	10530.3	8627.8	6201.9	5001.2	3869.1
77.5°	1100.0	1031.4	1656.9	2917.1	5072.9	7393.5	5268.2	2981.2	1965.1	1165.6
80°	337.2	326.5	442.4	878.8	2154.3	3541.1	2070.4	889.5	563.0	355.5
82.5°	199.9	183.1	219.7	320.4	549.2	1112.2	534.0	334.1	268.5	180.0
85°	114.4	106.8	129.7	155.6	184.6	236.5	154.1	158.7	143.4	96.1
87.5°	47.3	42.7	50.3	48.8	42.7	54.9	41.2	48.8	58.0	38.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2677.6
2668.4
2634.9
2598.2
2581.5
2581.5
2592.1
2612.0
2631.8
2641.0
2650.1
2673.0
2724.9
2805.7
2935.4
3115.5
3339.7
3625.0
3962.2
4346.7
4809.0
5368.9
6038.7
6798.5
7564.4
8453.8
9318.9
9727.8
9196.9
7273.0
4120.9
1295.3
375.3
195.3
100.7
35.1
0.0

OF REPORT)