

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: P949706

Luminaire Tested: **GALN-SB4B-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-850-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22229 lumens
Efficiency: N/A
Efficacy: 151.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

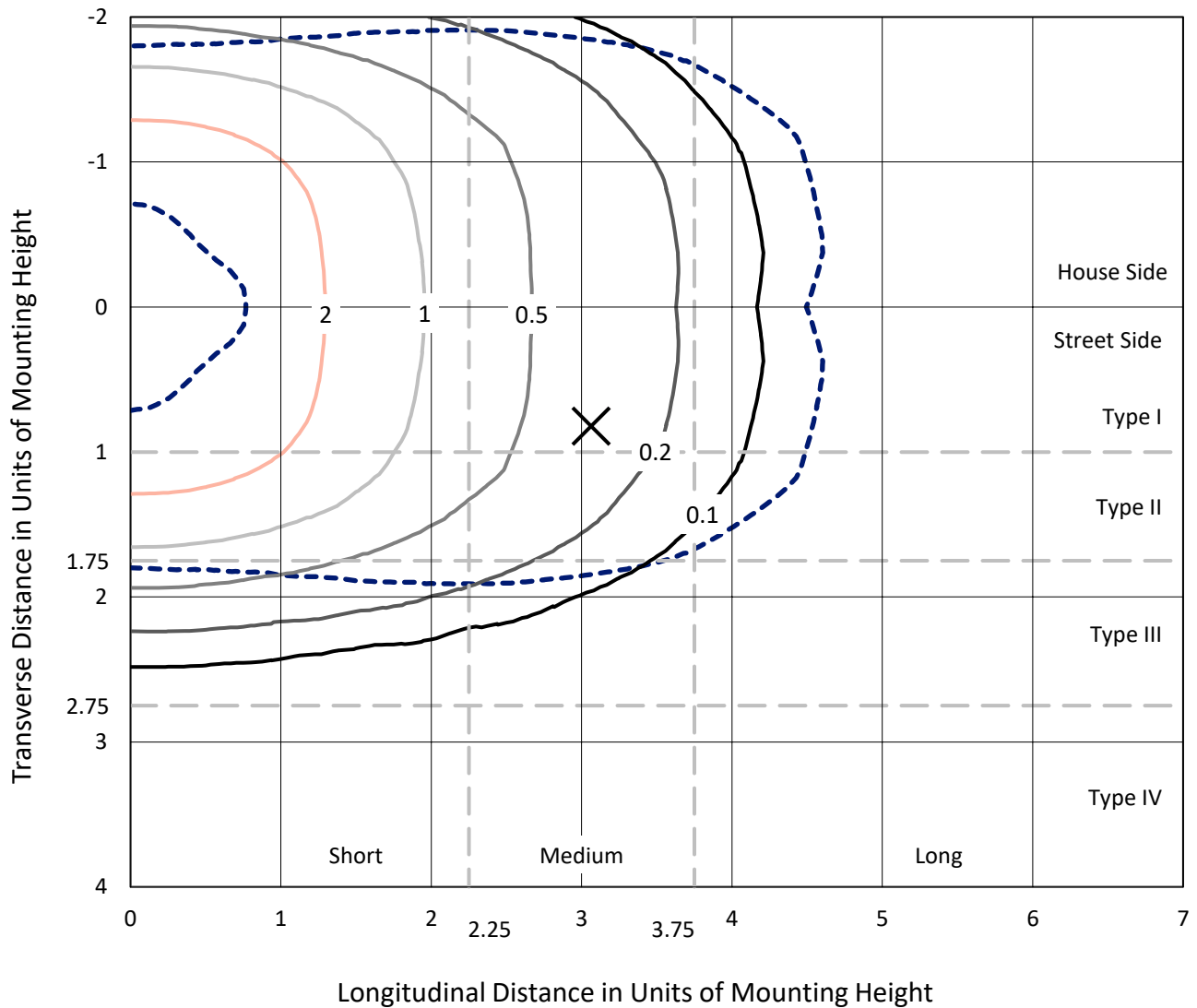
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

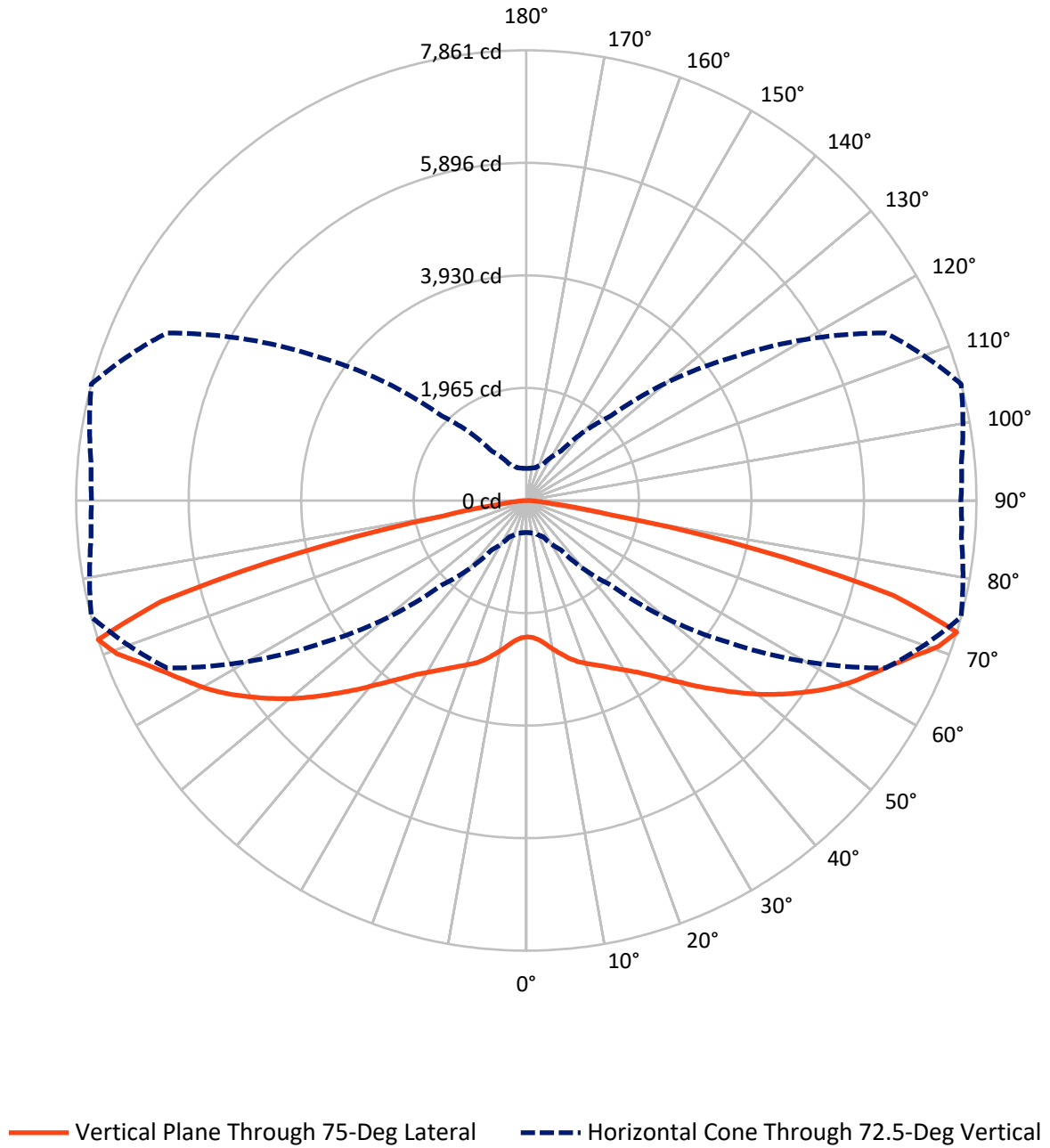
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P949706
CATALOG NUMBER: GALN-SB4B-850-U-RW

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11114.5	0.0	11114.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11114.5	0.0	11114.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22229.0	0.0	22229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.3	1.0
10°-20°	769.3	3.5
20°-30°	1486.5	6.7
30°-40°	2510.1	11.3
40°-50°	3980.7	17.9
50°-60°	5329.7	24.0
60°-70°	5072.2	22.8
70°-80°	2646.8	11.9
80°-90°	200.4	0.9
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°	22229.0	100.0
0°-180°	22229.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949706

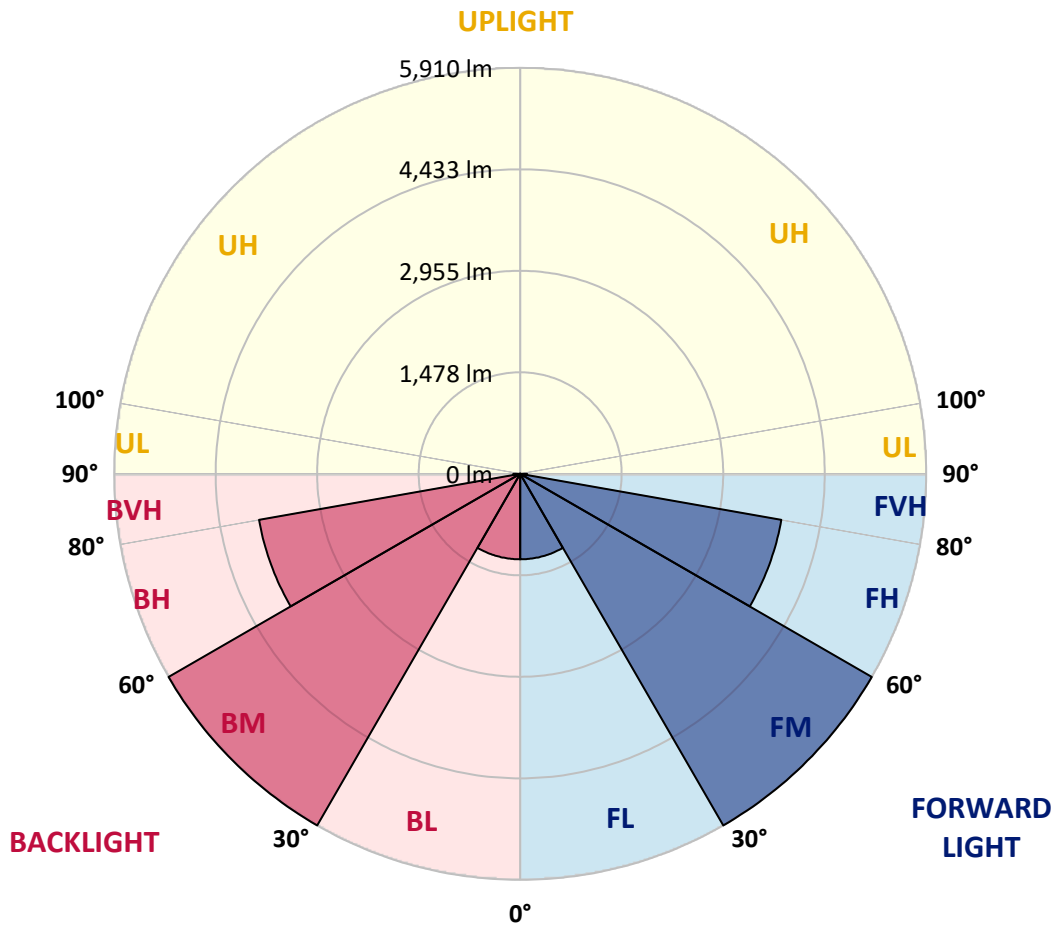
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1244.5	5.6			
FM (30°-60°)	5910.3	26.6			
FH (60°-80°)	3859.5	17.4			G2/5000
FVH (80°-90°)	100.2	0.5			G2/225
BL (0°-30°)	1244.5	5.6	B3/2500		
BM (30°-60°)	5910.3	26.6	B4/8500		
BH (60°-80°)	3859.5	17.4	B4/5000		G4/5000
BVH (80°-90°)	100.2	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



REPORT NUMBER: P949706

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1	2381.1
2.5°	2381.1	2378.9	2381.1	2383.4	2382.3	2382.3	2387.9	2391.3	2398.1	2397.0
5°	2365.2	2364.1	2373.2	2383.4	2391.3	2405.0	2422.0	2434.5	2450.4	2453.8
7.5°	2357.3	2353.9	2369.8	2387.9	2412.9	2447.0	2479.9	2513.9	2541.2	2550.2
10°	2363.0	2364.1	2385.7	2419.7	2459.4	2507.1	2553.6	2611.5	2650.1	2659.2
12.5°	2389.1	2386.8	2423.1	2477.6	2532.1	2592.2	2646.7	2710.3	2752.3	2773.8
15°	2436.7	2432.2	2483.3	2563.9	2643.3	2713.7	2757.9	2818.1	2866.9	2894.1
17.5°	2493.5	2495.8	2562.7	2667.1	2771.5	2851.0	2893.0	2923.6	2961.1	2984.9
20°	2593.4	2597.9	2672.8	2796.5	2915.7	3006.5	3040.5	3029.2	3039.4	3057.6
22.5°	2727.3	2729.6	2813.5	2947.5	3072.3	3172.2	3194.9	3148.3	3120.0	3132.5
25°	2882.8	2897.5	2981.5	3118.8	3247.1	3342.4	3352.6	3282.3	3211.9	3215.3
27.5°	3072.3	3085.9	3171.0	3307.2	3437.8	3520.6	3519.5	3425.3	3322.0	3295.9
30°	3277.7	3292.5	3379.9	3520.6	3642.1	3714.7	3698.8	3586.4	3438.9	3390.1
32.5°	3521.7	3530.8	3619.4	3760.1	3872.4	3930.3	3897.4	3759.0	3575.1	3519.5
35°	3816.8	3830.5	3896.3	4029.1	4127.8	4175.5	4119.9	3956.4	3749.9	3687.5
37.5°	4153.9	4144.8	4219.7	4337.8	4419.5	4449.0	4373.0	4178.9	3949.6	3875.9
40°	4505.7	4501.2	4582.9	4696.4	4740.7	4758.8	4646.5	4434.2	4180.0	4100.6
42.5°	4824.7	4821.3	4931.4	5057.3	5110.7	5090.2	4948.4	4705.5	4446.7	4355.9
45°	5080.0	5075.5	5210.6	5387.6	5492.0	5458.0	5267.3	5005.1	4716.8	4622.6
47.5°	5276.4	5278.6	5423.9	5643.0	5825.7	5838.2	5593.0	5310.4	5014.2	4907.5
50°	5418.2	5425.1	5580.5	5823.4	6073.1	6183.2	5925.6	5623.7	5321.8	5201.5
52.5°	5453.4	5465.9	5653.2	5938.1	6232.0	6442.0	6263.8	5924.4	5613.5	5498.8
55°	5266.2	5291.1	5528.3	5929.0	6329.6	6612.2	6561.1	6229.7	5907.4	5789.4
57.5°	4836.0	4871.2	5148.1	5671.3	6308.0	6729.1	6791.5	6522.6	6201.4	6087.9
60°	4233.4	4275.4	4540.9	5111.8	6003.9	6772.2	6953.8	6807.4	6471.5	6361.4
62.5°	3324.3	3378.7	3696.5	4366.2	5361.5	6571.4	7092.3	7065.1	6714.4	6577.0
65°	2132.6	2190.5	2525.3	3316.3	4504.6	5956.2	7135.4	7315.9	6970.9	6779.1
67.5°	1285.9	1312.0	1477.7	2010.0	3292.5	5029.0	6770.0	7593.9	7270.5	7032.1
70°	822.8	837.6	936.3	1180.3	1861.3	3669.3	5864.3	7646.2	7633.7	7292.0
72.5°	558.4	562.9	589.0	699.1	1053.2	2084.9	4325.3	6922.1	7860.7	7626.9
75°	408.6	433.6	475.5	494.8	598.1	1041.9	2478.7	4863.3	6624.7	6726.8
77.5°	304.2	305.3	363.2	385.9	426.7	555.0	1048.7	2714.8	4113.1	4318.5
80°	257.6	244.0	242.9	311.0	321.2	346.2	468.7	937.5	1473.2	893.2
82.5°	214.5	199.8	180.5	242.9	219.0	212.2	203.2	381.3	468.7	230.4
85°	149.8	143.0	136.2	158.9	124.8	106.7	97.6	178.2	197.5	97.6
87.5°	64.7	67.0	68.1	70.4	52.2	37.5	37.5	49.9	49.9	38.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2381.1
2395.9
2453.8
2552.5
2668.3
2782.9
2904.3
2996.3
3071.2
3141.5
3221.0
3303.8
3395.8
3533.1
3696.5
3889.5
4126.7
4378.6
4644.2
4939.3
5237.8
5528.3
5822.3
6114.0
6385.2
6592.9
6802.9
7050.3
7289.8
7590.5
6479.4
3852.0
675.3
196.3
86.3
28.4
0.0

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