

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: P950777

Luminaire Tested: **GALN-SB5A-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950777
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-SB5A-850-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22319 lumens
Efficiency: N/A
Efficacy: 157.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

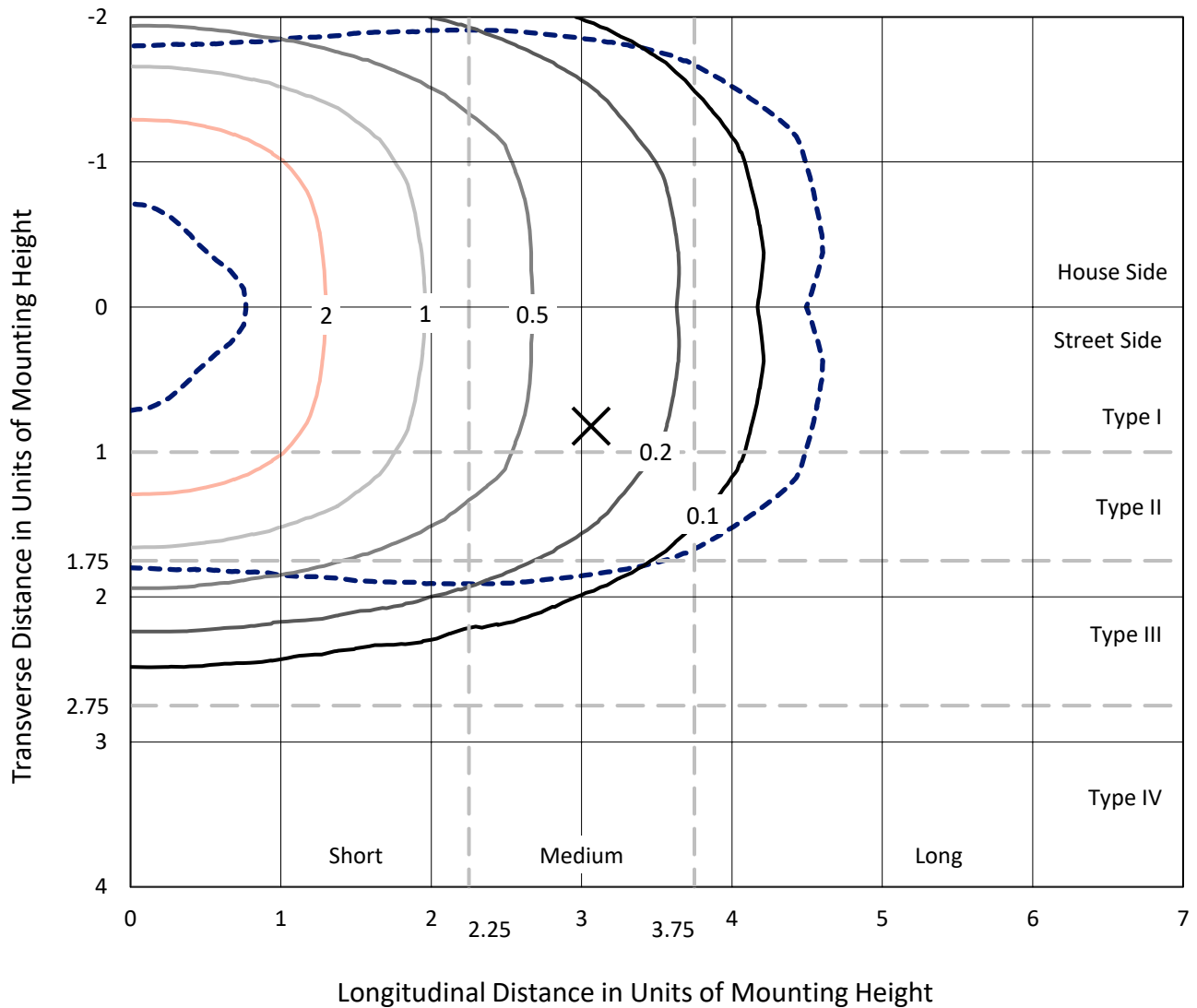
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

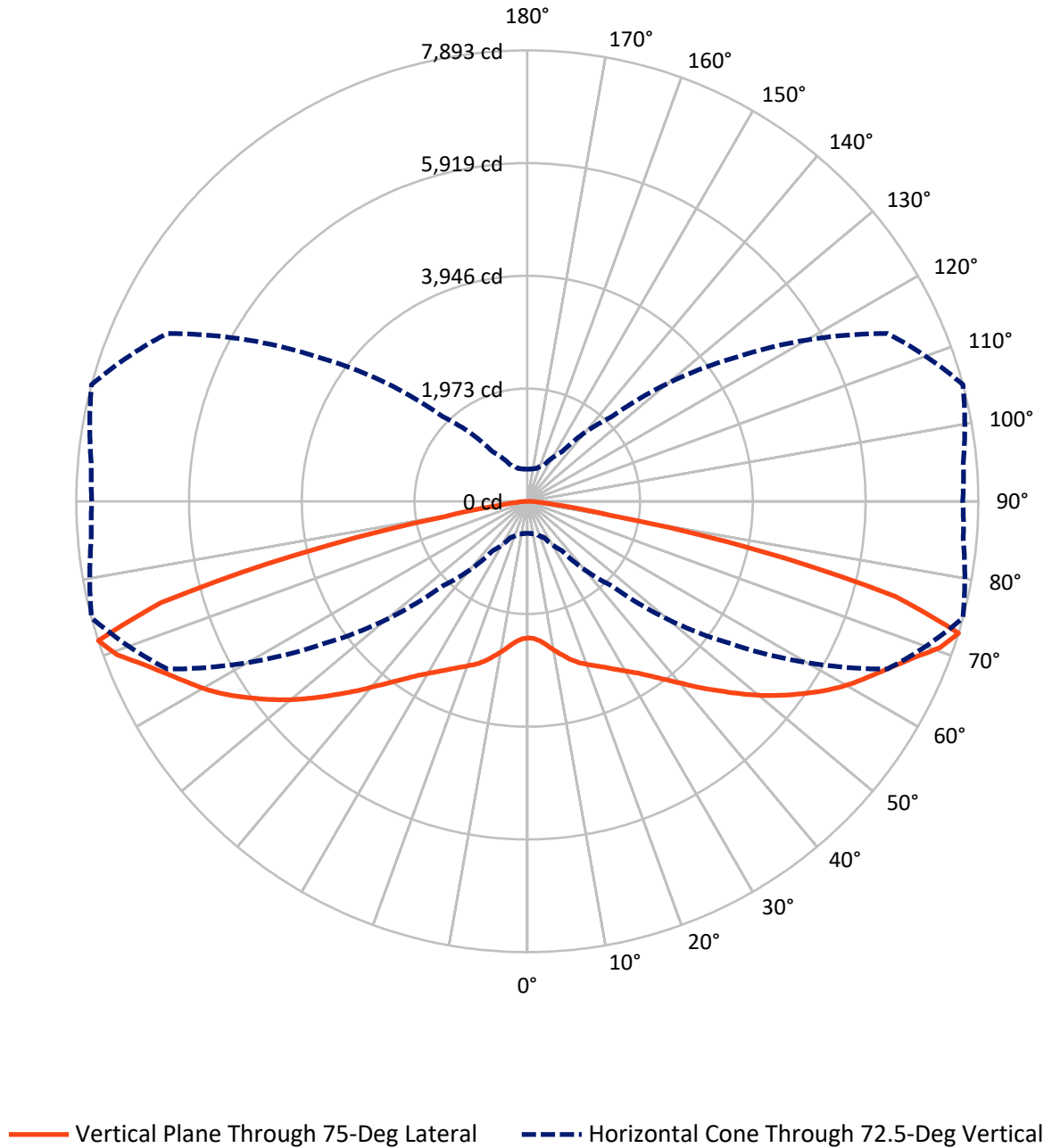
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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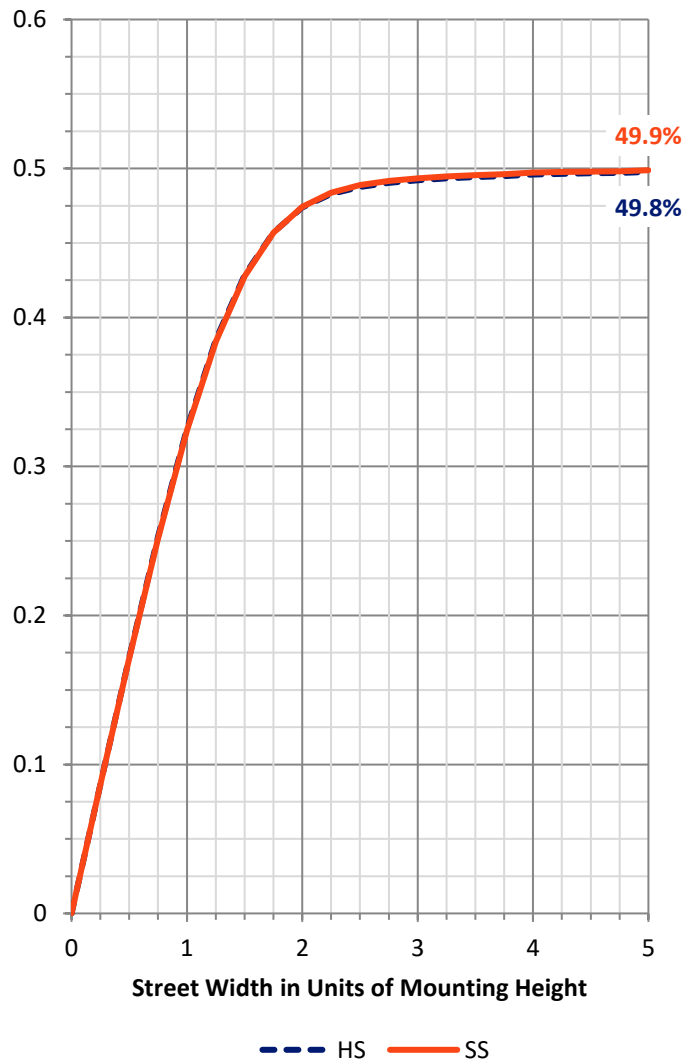
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11159.5	0.0	11159.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11159.5	0.0	11159.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22319.0	0.0	22319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.2	1.0
10°-20°	772.4	3.5
20°-30°	1492.5	6.7
30°-40°	2520.3	11.3
40°-50°	3996.9	17.9
50°-60°	5351.3	24.0
60°-70°	5092.7	22.8
70°-80°	2657.5	11.9
80°-90°	201.2	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°	22319.0	100.0
0°-180°	22319.0	100.0

Coefficient of Utilization



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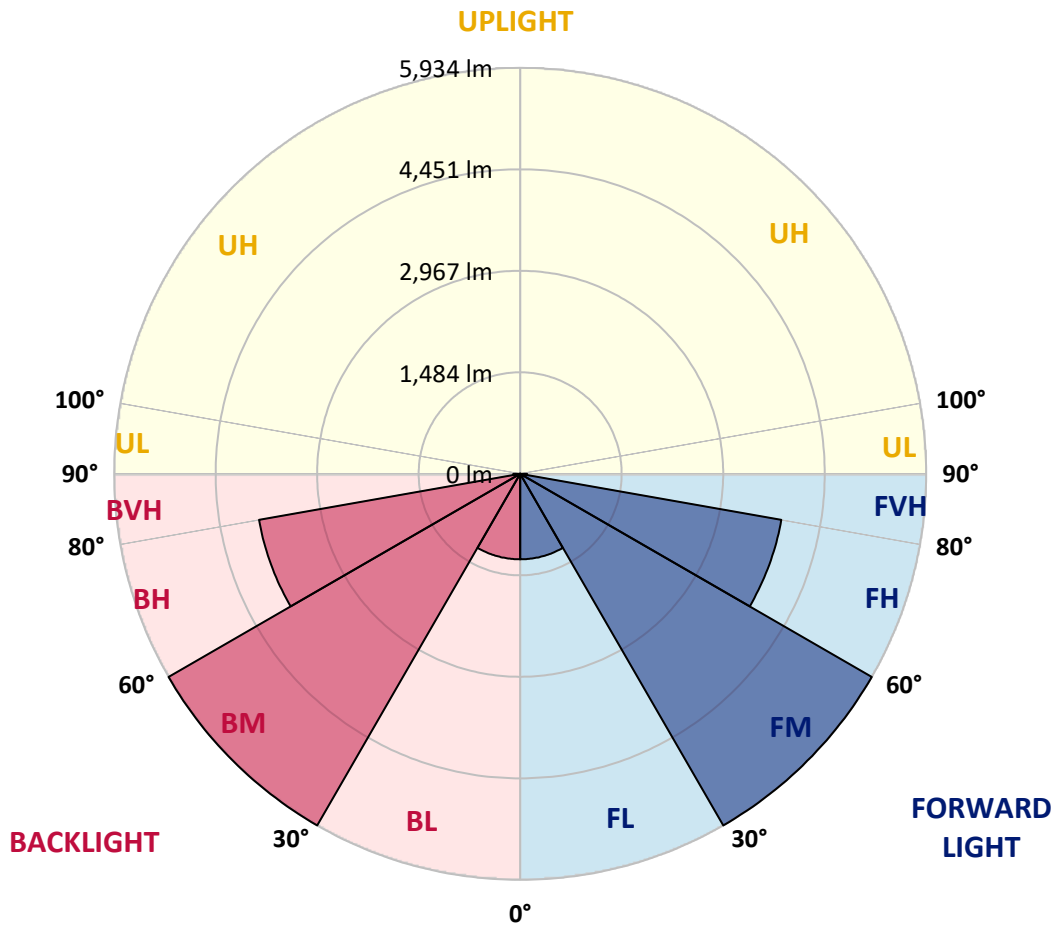
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.6	5.6			
FM (30°-60°)	5934.2	26.6			
FH (60°-80°)	3875.1	17.4			G2/5000
FVH (80°-90°)	100.6	0.5			G2/225
BL (0°-30°)	1249.6	5.6	B3/2500		
BM (30°-60°)	5934.2	26.6	B4/8500		
BH (60°-80°)	3875.1	17.4	B4/5000		G4/5000
BVH (80°-90°)	100.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2390.8	2390.8	2390.8	2390.8	2390.8	2390.8	2390.8	2390.8	2390.8	2390.8
2.5°	2390.8	2388.5	2390.8	2393.0	2391.9	2391.9	2397.6	2401.0	2407.9	2406.7
5°	2374.8	2373.7	2382.8	2393.0	2401.0	2414.7	2431.8	2444.3	2460.3	2463.7
7.5°	2366.8	2363.4	2379.4	2397.6	2422.7	2456.9	2489.9	2524.1	2551.4	2560.6
10°	2372.5	2373.7	2395.3	2429.5	2469.4	2517.3	2564.0	2622.1	2660.8	2670.0
12.5°	2398.7	2396.5	2432.9	2487.6	2542.3	2602.7	2657.4	2721.2	2763.4	2785.0
15°	2446.6	2442.0	2493.3	2574.2	2654.0	2724.7	2769.1	2829.5	2878.5	2905.8
17.5°	2503.6	2505.9	2573.1	2677.9	2782.8	2862.5	2904.7	2935.5	2973.1	2997.0
20°	2603.9	2608.4	2683.6	2807.8	2927.5	3018.7	3052.8	3041.4	3051.7	3069.9
22.5°	2738.3	2740.6	2824.9	2959.4	3084.7	3185.0	3207.8	3161.1	3132.6	3145.1
25°	2894.4	2909.3	2993.6	3131.5	3260.2	3356.0	3366.2	3295.6	3224.9	3228.3
27.5°	3084.7	3098.4	3183.9	3320.6	3451.7	3534.9	3533.7	3439.1	3335.4	3309.2
30°	3291.0	3305.8	3393.6	3534.9	3656.8	3729.7	3713.8	3601.0	3452.8	3403.8
32.5°	3536.0	3545.1	3634.0	3775.3	3888.1	3946.2	3913.2	3774.2	3589.6	3533.7
35°	3832.3	3846.0	3912.1	4045.4	4144.5	4192.4	4136.5	3972.5	3765.1	3702.4
37.5°	4170.7	4161.6	4236.8	4355.3	4437.4	4467.0	4390.7	4195.8	3965.6	3891.5
40°	4524.0	4519.4	4601.5	4715.4	4759.9	4778.1	4665.3	4452.2	4196.9	4117.2
42.5°	4844.2	4840.8	4951.3	5077.8	5131.4	5110.9	4968.4	4724.6	4464.7	4373.6
45°	5100.6	5096.0	5231.6	5409.4	5514.3	5480.1	5288.6	5025.4	4735.9	4641.4
47.5°	5297.7	5300.0	5445.9	5665.8	5849.3	5861.8	5615.7	5331.9	5034.5	4927.4
50°	5440.2	5447.0	5603.1	5847.0	6097.7	6208.2	5949.6	5646.4	5343.3	5222.5
52.5°	5475.5	5488.0	5676.1	5962.1	6257.2	6468.1	6289.1	5948.4	5636.2	5521.1
55°	5287.5	5312.6	5550.7	5953.0	6355.2	6639.0	6587.7	6255.0	5931.3	5812.8
57.5°	4855.6	4890.9	5169.0	5694.3	6333.6	6756.4	6819.0	6549.0	6226.5	6112.5
60°	4250.5	4292.7	4559.3	5132.5	6028.2	6799.7	6982.0	6835.0	6497.7	6387.1
62.5°	3337.7	3392.4	3711.5	4383.8	5383.2	6598.0	7121.0	7093.7	6741.5	6603.7
65°	2141.2	2199.3	2535.5	3329.7	4522.9	5980.3	7164.3	7345.5	6999.1	6806.5
67.5°	1291.1	1317.3	1483.7	2018.1	3305.8	5049.3	6797.4	7624.7	7299.9	7060.6
70°	826.2	841.0	940.1	1185.1	1868.9	3684.1	5888.0	7677.1	7664.6	7321.6
72.5°	560.7	565.2	591.4	702.0	1057.5	2093.3	4342.8	6950.1	7892.5	7657.7
75°	410.2	435.3	477.5	496.8	600.5	1046.1	2488.8	4882.9	6651.5	6754.1
77.5°	305.4	306.5	364.7	387.4	428.5	557.2	1052.9	2725.8	4129.7	4336.0
80°	258.7	245.0	243.9	312.2	322.5	347.6	470.6	941.3	1479.1	896.8
82.5°	215.4	200.6	181.2	243.9	219.9	213.1	204.0	382.9	470.6	231.3
85°	150.4	143.6	136.7	159.5	125.3	107.1	98.0	178.9	198.3	98.0
87.5°	65.0	67.2	68.4	70.7	52.4	37.6	37.6	50.1	50.1	38.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2390.8
2405.6
2463.7
2562.8
2679.1
2794.2
2916.1
3008.4
3083.6
3154.3
3234.0
3317.2
3409.5
3547.4
3711.5
3905.2
4143.4
4396.4
4663.0
4959.3
5259.0
5550.7
5845.9
6138.7
6411.1
6619.6
6830.4
7078.9
7319.3
7621.3
6505.7
3867.6
678.0
197.1
86.6
28.5
0.0

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