

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: P949349

Luminaire Tested: **GALN-SB4A-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949349
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-SB4A-850-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 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: 17708 lumens
Efficiency: N/A
Efficacy: 155.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

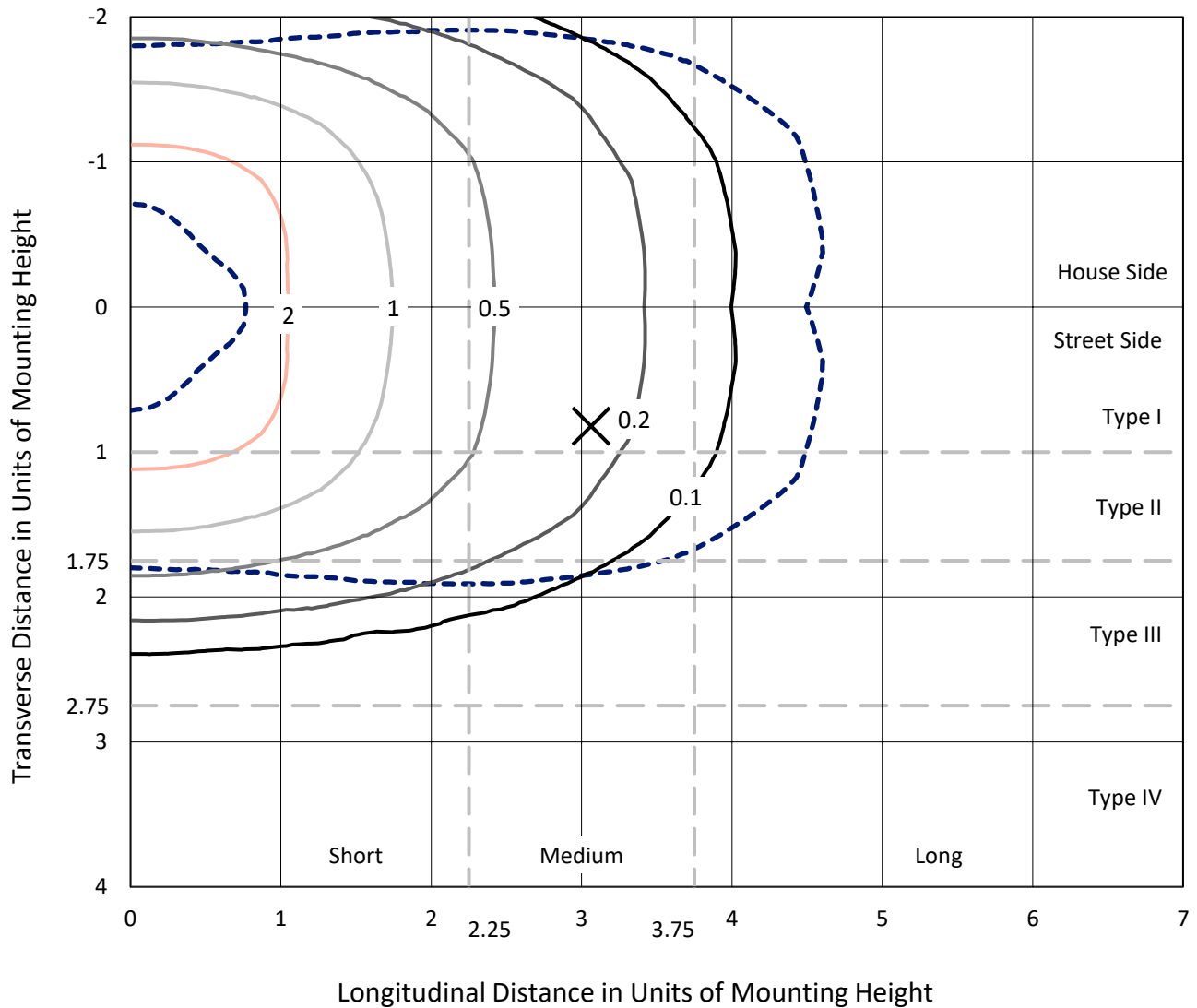
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

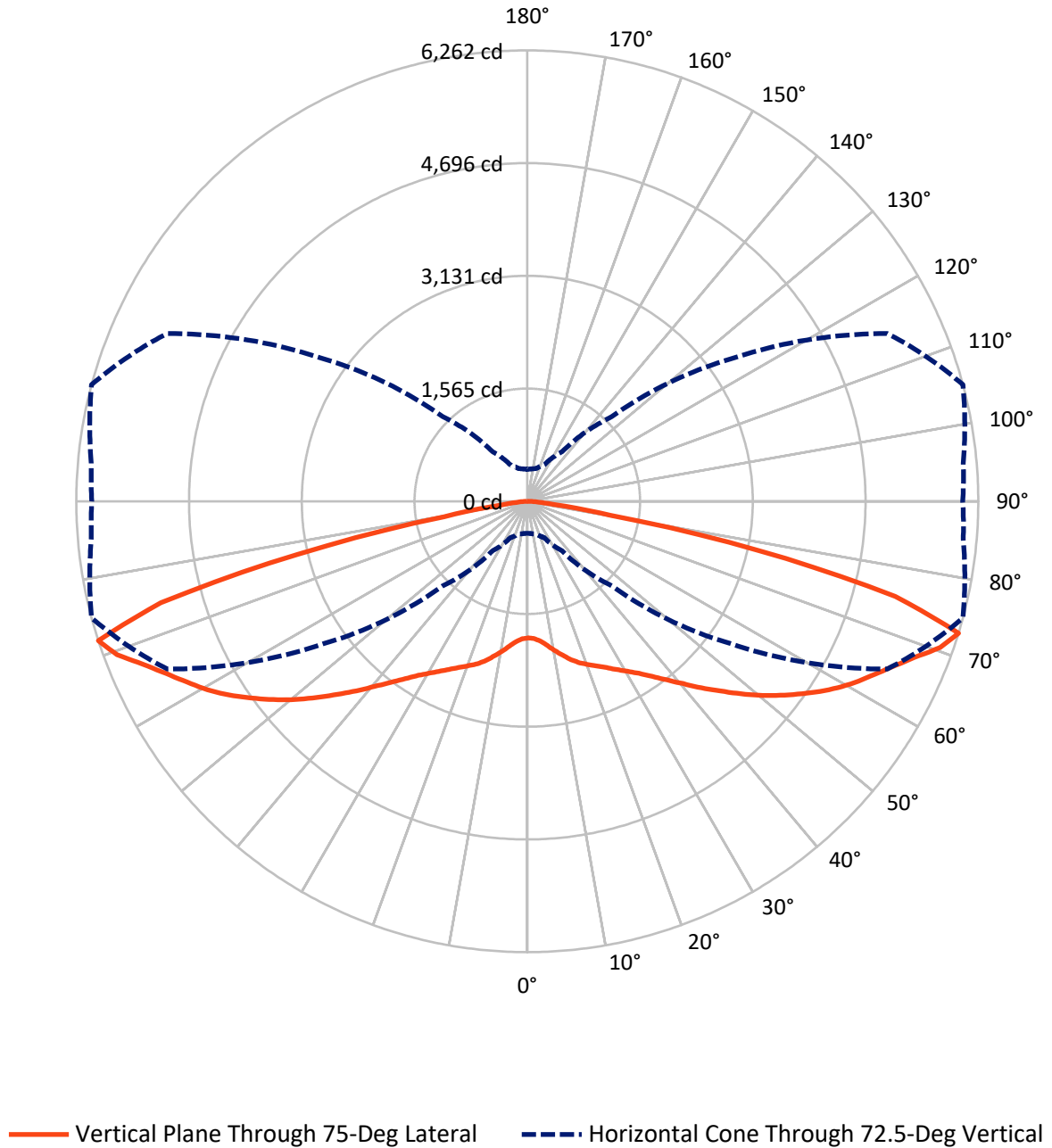
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	8854.0	0.0	8854.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8854.0	0.0	8854.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	17708.0	0.0	17708.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	1.0
10°-20°	612.8	3.5
20°-30°	1184.2	6.7
30°-40°	1999.6	11.3
40°-50°	3171.1	17.9
50°-60°	4245.8	24.0
60°-70°	4040.6	22.8
70°-80°	2108.5	11.9
80°-90°	159.6	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°	17708.0	100.0
0°-180°	17708.0	100.0

Coefficient of Utilization

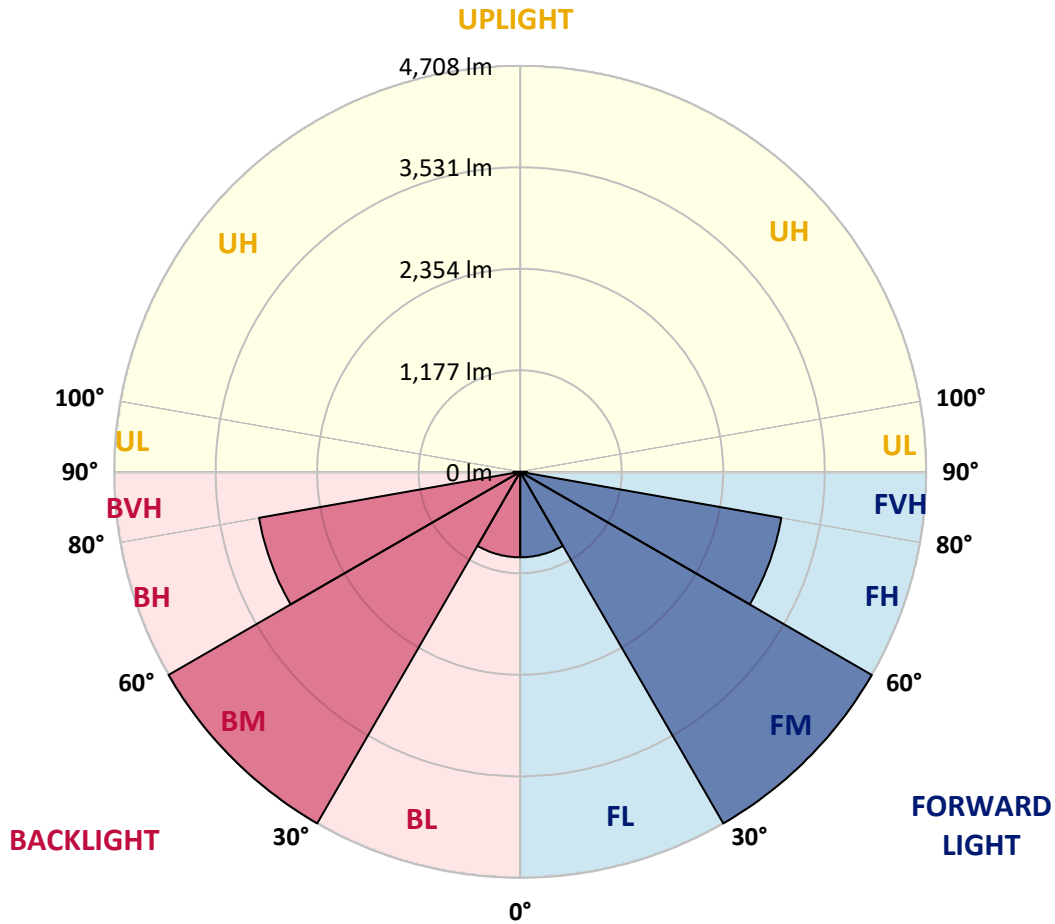


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	991.4	5.6			
FM (30°-60°)	4708.2	26.6			
FH (60°-80°)	3074.5	17.4			G2/5000
FVH (80°-90°)	79.8	0.5			G1/100
BL (0°-30°)	991.4	5.6	B2/1000		
BM (30°-60°)	4708.2	26.6	B3/5000		
BH (60°-80°)	3074.5	17.4	B4/5000		G4/5000
BVH (80°-90°)	79.8	0.5			G1/100
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°	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8	1896.8
2.5°	1896.8	1895.0	1896.8	1898.7	1897.7	1897.7	1902.3	1905.0	1910.4	1909.5
5°	1884.2	1883.3	1890.5	1898.7	1905.0	1915.8	1929.4	1939.3	1952.0	1954.7
7.5°	1877.9	1875.1	1887.8	1902.3	1922.2	1949.3	1975.5	2002.6	2024.3	2031.6
10°	1882.4	1883.3	1900.5	1927.6	1959.2	1997.2	2034.3	2080.4	2111.1	2118.4
12.5°	1903.2	1901.4	1930.3	1973.7	2017.1	2065.0	2108.4	2159.0	2192.5	2209.7
15°	1941.1	1937.5	1978.2	2042.4	2105.7	2161.8	2197.0	2244.9	2283.8	2305.5
17.5°	1986.4	1988.2	2041.5	2124.7	2207.9	2271.1	2304.6	2329.0	2358.8	2377.8
20°	2065.9	2069.5	2129.2	2227.8	2322.7	2395.0	2422.1	2413.1	2421.2	2435.7
22.5°	2172.6	2174.4	2241.3	2348.0	2447.5	2527.0	2545.1	2508.0	2485.4	2495.4
25°	2296.5	2308.2	2375.1	2484.5	2586.7	2662.6	2670.8	2614.7	2558.7	2561.4
27.5°	2447.5	2458.3	2526.1	2634.6	2738.6	2804.6	2803.7	2728.6	2646.4	2625.6
30°	2611.1	2622.9	2692.5	2804.6	2901.3	2959.2	2946.5	2857.0	2739.5	2700.6
32.5°	2805.5	2812.7	2883.2	2995.3	3084.9	3131.0	3104.7	2994.4	2848.0	2803.7
35°	3040.6	3051.4	3103.8	3209.6	3288.3	3326.3	3282.0	3151.8	2987.2	2937.5
37.5°	3309.1	3301.8	3361.5	3455.5	3520.6	3544.2	3483.6	3329.0	3146.3	3087.6
40°	3589.4	3585.7	3650.8	3741.2	3776.5	3791.0	3701.5	3532.4	3329.9	3266.6
42.5°	3843.4	3840.7	3928.4	4028.8	4071.3	4055.0	3942.0	3748.5	3542.3	3470.0
45°	4046.8	4043.2	4150.8	4291.9	4375.0	4347.9	4196.0	3987.2	3757.5	3682.5
47.5°	4203.3	4205.1	4320.8	4495.3	4640.8	4650.8	4455.5	4230.4	3994.4	3909.4
50°	4316.3	4321.7	4445.6	4639.0	4837.9	4925.6	4720.4	4479.9	4239.4	4143.6
52.5°	4344.3	4354.2	4503.4	4730.4	4964.5	5131.8	4989.8	4719.5	4471.8	4380.5
55°	4195.1	4215.0	4404.0	4723.1	5042.3	5267.4	5226.7	4962.7	4705.9	4611.9
57.5°	3852.5	3880.5	4101.1	4517.9	5025.1	5360.5	5410.3	5196.0	4940.1	4849.7
60°	3372.4	3405.8	3617.4	4072.2	4782.8	5394.9	5539.5	5422.9	5155.3	5067.6
62.5°	2648.2	2691.6	2944.7	3478.1	4271.1	5234.9	5649.8	5628.1	5348.8	5239.4
65°	1698.8	1745.0	2011.7	2641.8	3588.5	4744.8	5684.2	5828.0	5553.1	5400.3
67.5°	1024.4	1045.2	1177.2	1601.2	2622.9	4006.2	5393.1	6049.5	5791.8	5601.9
70°	655.5	667.2	745.9	940.3	1482.8	2923.0	4671.6	6091.1	6081.1	5809.0
72.5°	444.8	448.4	469.2	556.9	839.0	1660.9	3445.6	5514.2	6261.9	6075.7
75°	325.5	345.4	378.8	394.2	476.5	830.0	1974.6	3874.2	5277.3	5358.7
77.5°	242.3	243.2	289.3	307.4	339.9	442.1	835.4	2162.7	3276.5	3440.2
80°	205.2	194.4	193.5	247.7	255.9	275.8	373.4	746.8	1173.5	711.5
82.5°	170.9	159.1	143.8	193.5	174.5	169.1	161.8	303.8	373.4	183.5
85°	119.3	113.9	108.5	126.6	99.5	85.0	77.8	141.9	157.3	77.8
87.5°	51.5	53.3	54.2	56.1	41.6	29.8	29.8	39.8	39.8	30.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1896.8
1908.6
1954.7
2033.4
2125.6
2216.9
2313.6
2386.9
2446.5
2502.6
2565.9
2631.9
2705.1
2814.5
2944.7
3098.4
3287.4
3488.1
3699.7
3934.7
4172.5
4404.0
4638.1
4870.5
5086.6
5252.0
5419.3
5616.4
5807.2
6046.8
5161.6
3068.6
538.0
156.4
68.7
22.6
0.0

OF REPORT)