

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: P949346

Luminaire Tested: **GALN-SB4A-850-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
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-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18020 lumens
Efficiency: N/A
Efficacy: 158.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

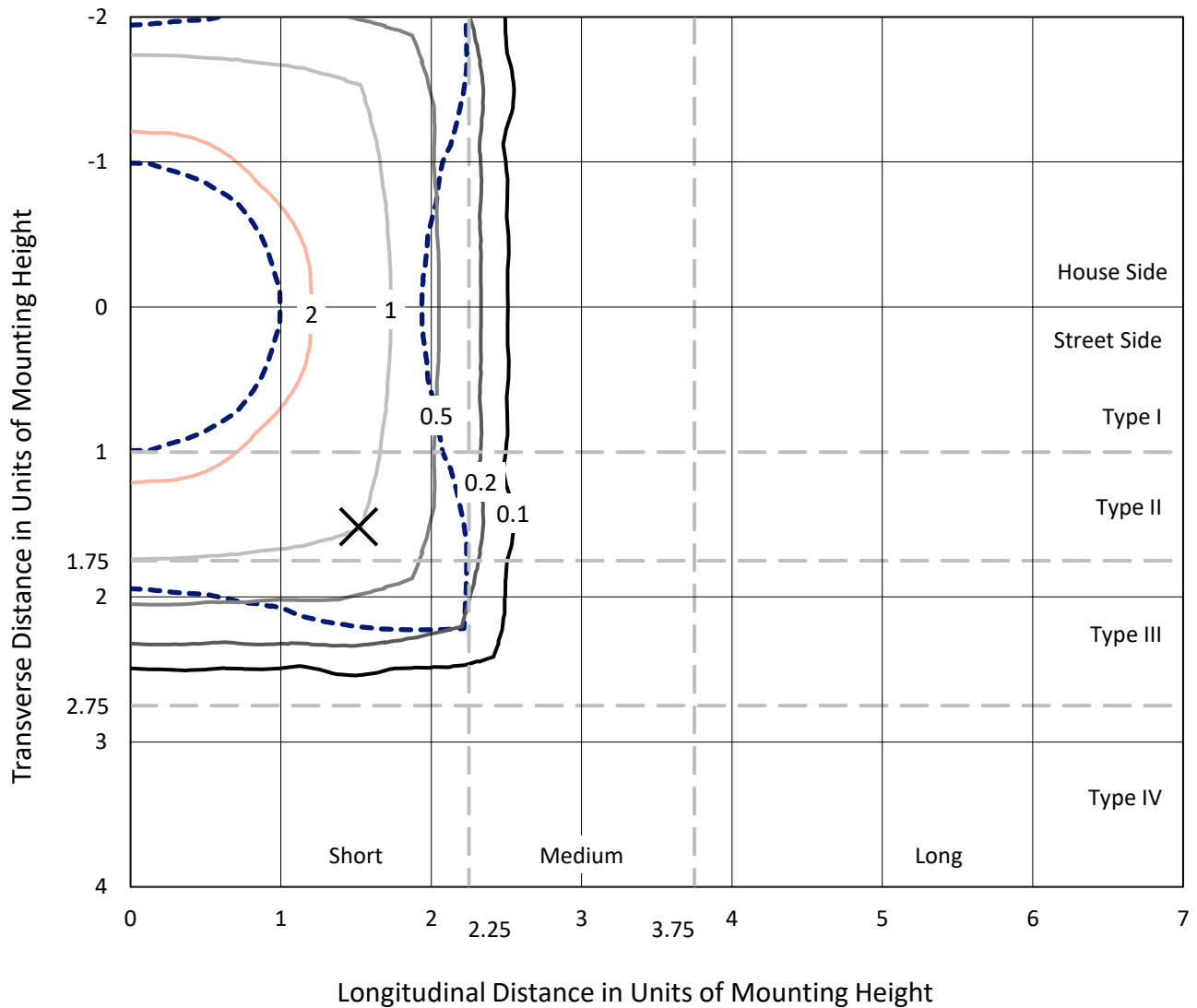
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

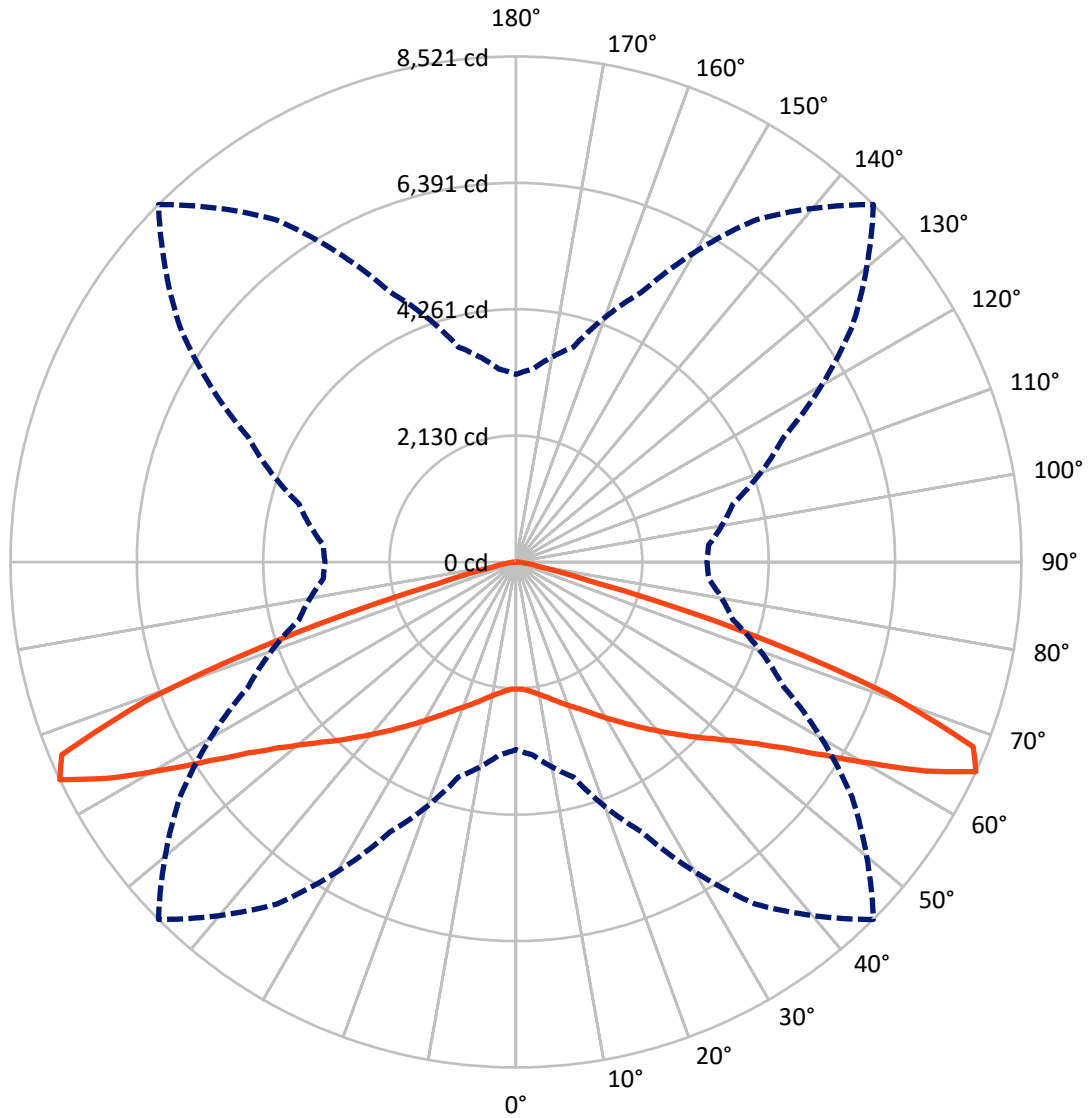
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9010.0	0.0	9010.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9010.0	0.0	9010.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18020.0	0.0	18020.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.6	1.2
10°-20°	690.6	3.8
20°-30°	1304.0	7.2
30°-40°	2135.2	11.8
40°-50°	3310.7	18.4
50°-60°	4890.5	27.1
60°-70°	4655.3	25.8
70°-80°	751.2	4.2
80°-90°	70.8	0.4
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°	18020.0	100.0
0°-180°	18020.0	100.0



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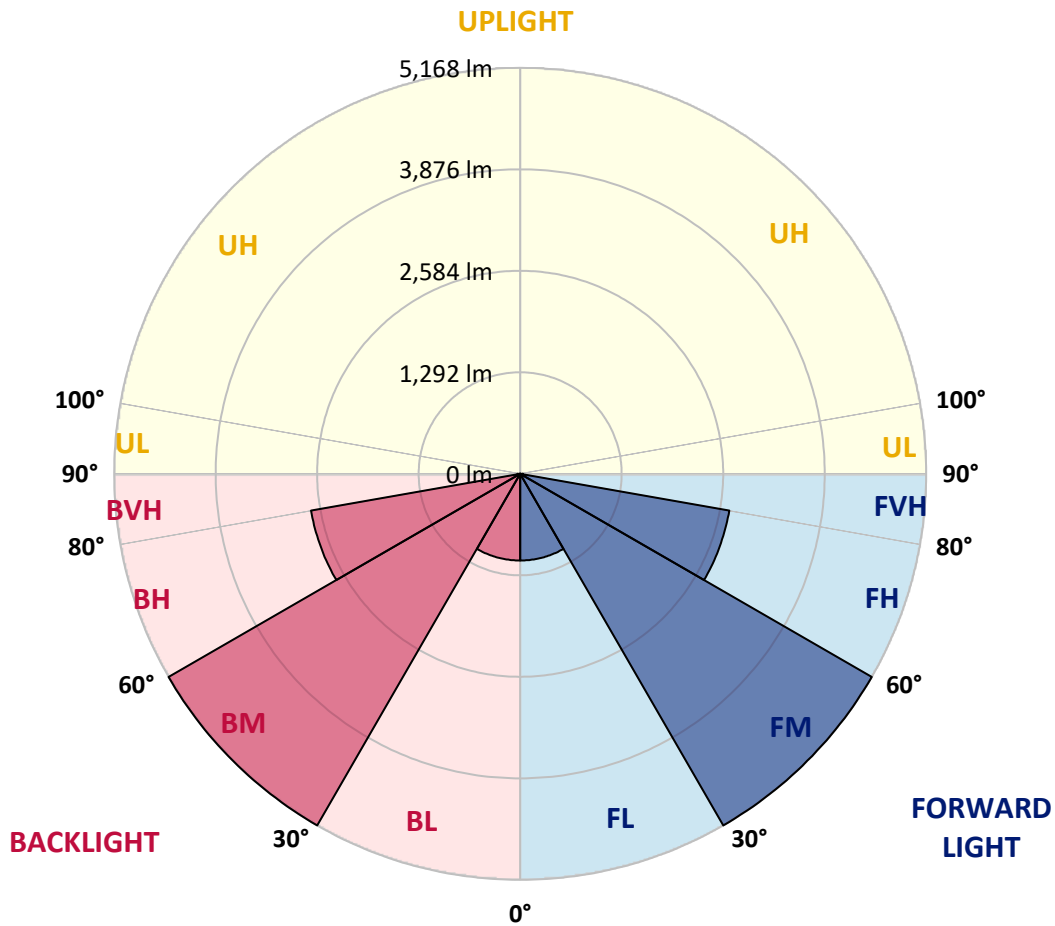
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1103.1	6.1			
FM (30°-60°)	5168.2	28.7			
FH (60°-80°)	2703.3	15.0			G2/5000
FVH (80°-90°)	35.4	0.2			G1/100
BL (0°-30°)	1103.1	6.1	B3/2500		
BM (30°-60°)	5168.2	28.7	B4/8500		
BH (60°-80°)	2703.3	15.0	B4/5000		G2/5000
BVH (80°-90°)	35.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6	2144.6
2.5°	2159.0	2151.8	2157.2	2152.7	2149.1	2145.5	2147.3	2153.6	2156.3	2157.2
5°	2188.0	2181.6	2184.3	2184.3	2178.0	2176.2	2177.1	2181.6	2187.1	2187.1
7.5°	2235.0	2228.6	2235.0	2231.4	2225.9	2224.1	2223.2	2226.8	2235.0	2235.0
10°	2291.9	2284.7	2288.3	2286.5	2280.2	2277.5	2276.6	2282.0	2289.2	2288.3
12.5°	2354.3	2346.2	2350.7	2345.3	2343.5	2340.8	2340.8	2339.8	2344.4	2340.8
15°	2423.9	2418.5	2420.3	2416.7	2419.4	2417.6	2410.4	2406.8	2408.6	2403.1
17.5°	2506.2	2493.5	2499.9	2498.1	2498.1	2501.7	2489.9	2485.4	2489.0	2483.6
20°	2601.1	2588.5	2591.2	2587.6	2583.1	2586.7	2572.2	2575.8	2578.5	2574.9
22.5°	2705.1	2688.8	2687.9	2689.7	2679.8	2680.7	2670.8	2679.8	2685.2	2675.3
25°	2811.8	2794.6	2806.4	2801.9	2789.2	2791.9	2784.7	2793.7	2798.2	2785.6
27.5°	2924.8	2913.1	2923.9	2926.6	2911.2	2922.1	2911.2	2919.4	2923.9	2904.9
30°	3056.8	3045.1	3055.0	3062.2	3044.2	3061.3	3052.3	3057.7	3058.6	3036.0
32.5°	3200.6	3182.5	3207.8	3211.4	3191.5	3212.3	3200.6	3207.8	3212.3	3181.6
35°	3376.0	3353.4	3382.3	3377.8	3360.6	3377.8	3366.9	3377.8	3388.6	3351.6
37.5°	3564.9	3541.4	3572.2	3564.0	3547.7	3559.5	3553.2	3560.4	3577.6	3537.8
40°	3772.9	3743.9	3785.5	3771.1	3755.7	3753.9	3757.5	3762.0	3784.6	3740.3
42.5°	3995.3	3964.5	4026.9	4004.3	3982.6	3968.2	3979.9	3989.0	4010.7	3960.9
45°	4249.3	4214.1	4295.4	4268.3	4234.0	4204.1	4223.1	4236.7	4268.3	4208.7
47.5°	4529.6	4489.8	4576.6	4568.5	4512.4	4447.3	4490.7	4529.6	4553.1	4480.8
50°	4803.6	4772.8	4886.7	4896.7	4828.0	4736.7	4797.2	4856.0	4862.3	4767.4
52.5°	5060.3	5029.6	5195.0	5257.4	5195.9	5087.5	5151.6	5211.3	5163.4	5040.4
55°	5265.6	5240.2	5450.9	5611.8	5632.6	5543.1	5581.1	5579.3	5422.0	5233.0
57.5°	5315.3	5311.7	5577.5	5918.3	6135.3	6146.2	6071.1	5879.5	5540.4	5286.4
60°	5089.3	5111.9	5477.1	6078.4	6657.0	6897.5	6572.9	6025.9	5405.7	5053.1
62.5°	4413.0	4472.7	4913.0	5883.1	7078.3	7761.8	6975.2	5803.5	4852.4	4392.2
65°	3162.6	3266.6	3753.0	5020.5	7040.3	8521.3	6917.4	4979.9	3789.1	3258.4
67.5°	1434.8	1540.6	1953.8	3437.4	6120.0	8315.1	6105.5	3473.6	2051.4	1546.0
70°	519.9	537.9	670.9	1376.1	3911.2	6625.4	4078.5	1386.0	713.3	573.2
72.5°	314.6	317.3	345.4	492.7	1358.9	4022.4	1416.7	509.0	352.6	312.8
75°	199.8	198.0	245.9	301.1	481.9	1357.1	505.4	301.1	245.0	223.3
77.5°	143.8	148.3	176.3	225.1	303.8	460.2	298.4	215.2	176.3	144.7
80°	107.6	110.3	128.4	175.4	213.4	286.6	189.9	159.1	132.9	90.4
82.5°	77.8	77.8	84.1	127.5	130.2	154.6	103.1	112.1	87.7	64.2
85°	46.1	45.2	52.4	75.9	67.8	57.0	47.0	68.7	55.2	39.8
87.5°	16.3	17.2	16.3	21.7	18.1	15.4	14.5	19.0	15.4	13.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2144.6
2157.2
2187.1
2232.3
2286.5
2342.6
2404.0
2488.1
2583.1
2685.2
2800.0
2919.4
3049.6
3202.4
3374.2
3562.2
3754.8
3987.1
4239.4
4505.2
4779.2
5044.1
5239.3
5270.1
5011.5
4365.1
3219.6
1523.4
566.0
318.2
225.1
147.4
93.1
64.2
38.9
12.7
0.0

OF REPORT)