

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: P940823

Luminaire Tested: **GALN-SB4A-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940823
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4A-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15465 lumens
Efficiency: N/A
Efficacy: 135.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

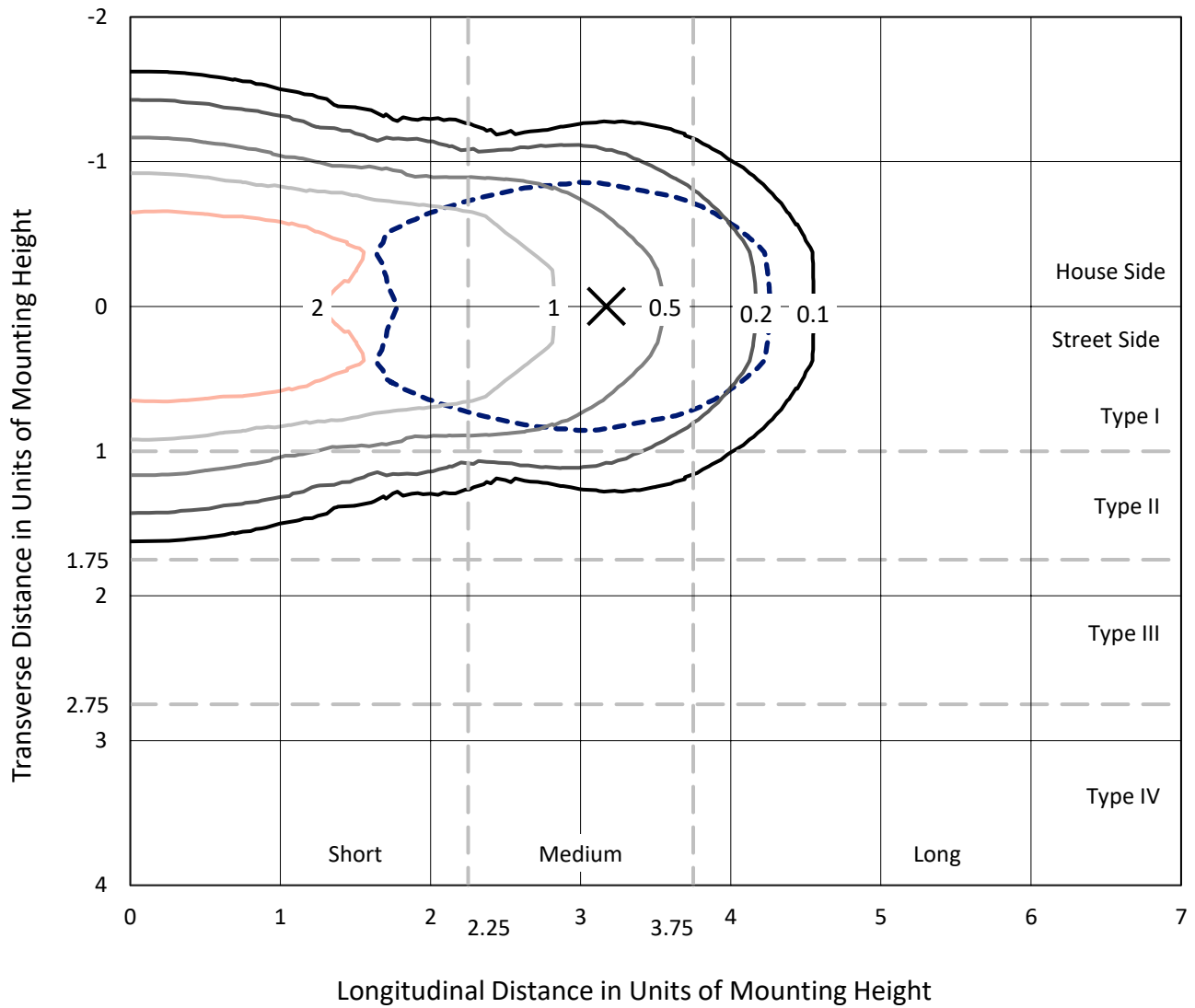
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

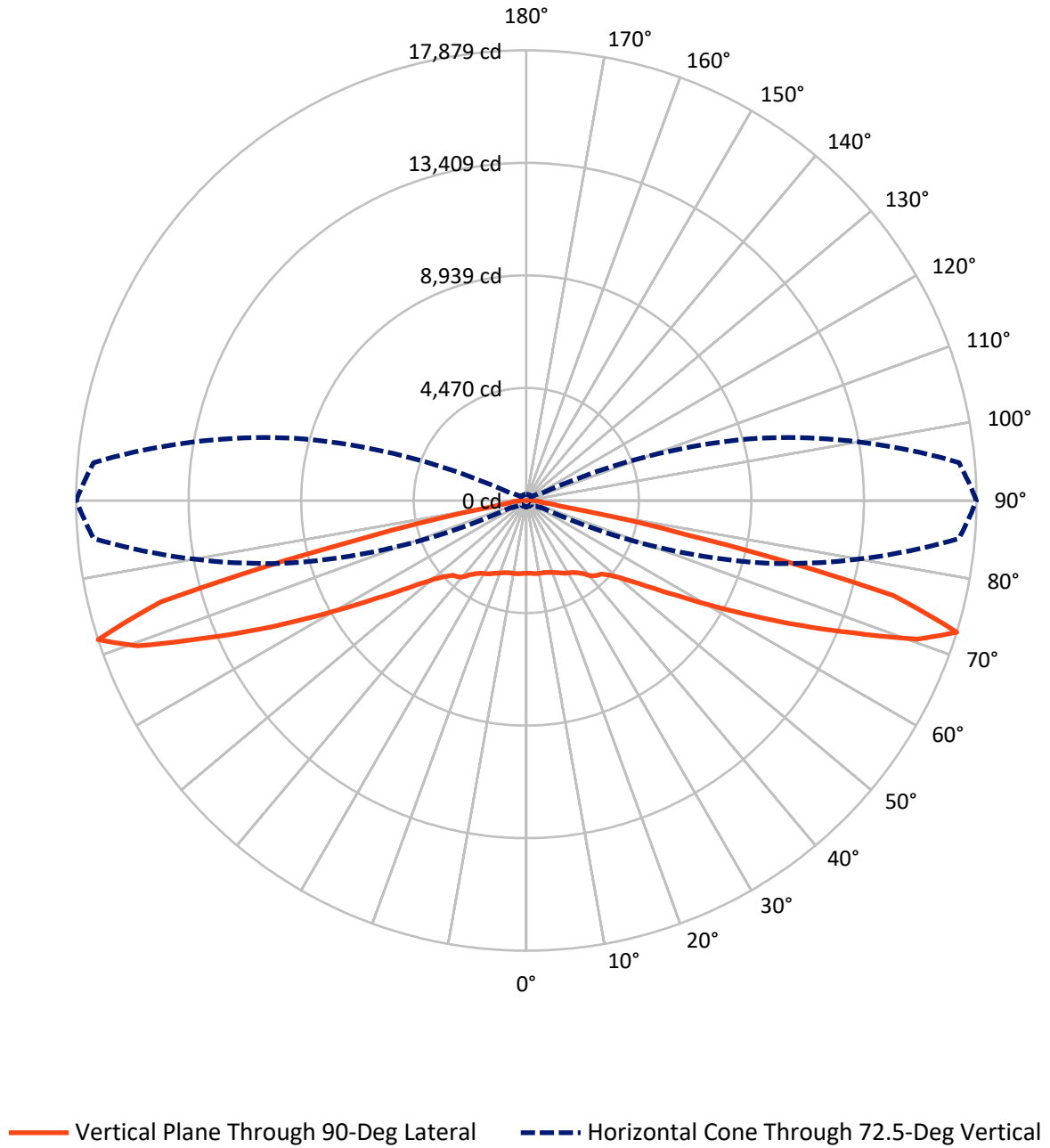
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7732.5	0.0	7732.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7732.5	0.0	7732.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15465.0	0.0	15465.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.2	1.8
10°-20°	856.7	5.5
20°-30°	1428.5	9.2
30°-40°	1964.7	12.7
40°-50°	2399.4	15.5
50°-60°	2775.2	17.9
60°-70°	3309.0	21.4
70°-80°	2309.4	14.9
80°-90°	141.9	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°	15465.0	100.0
0°-180°	15465.0	100.0



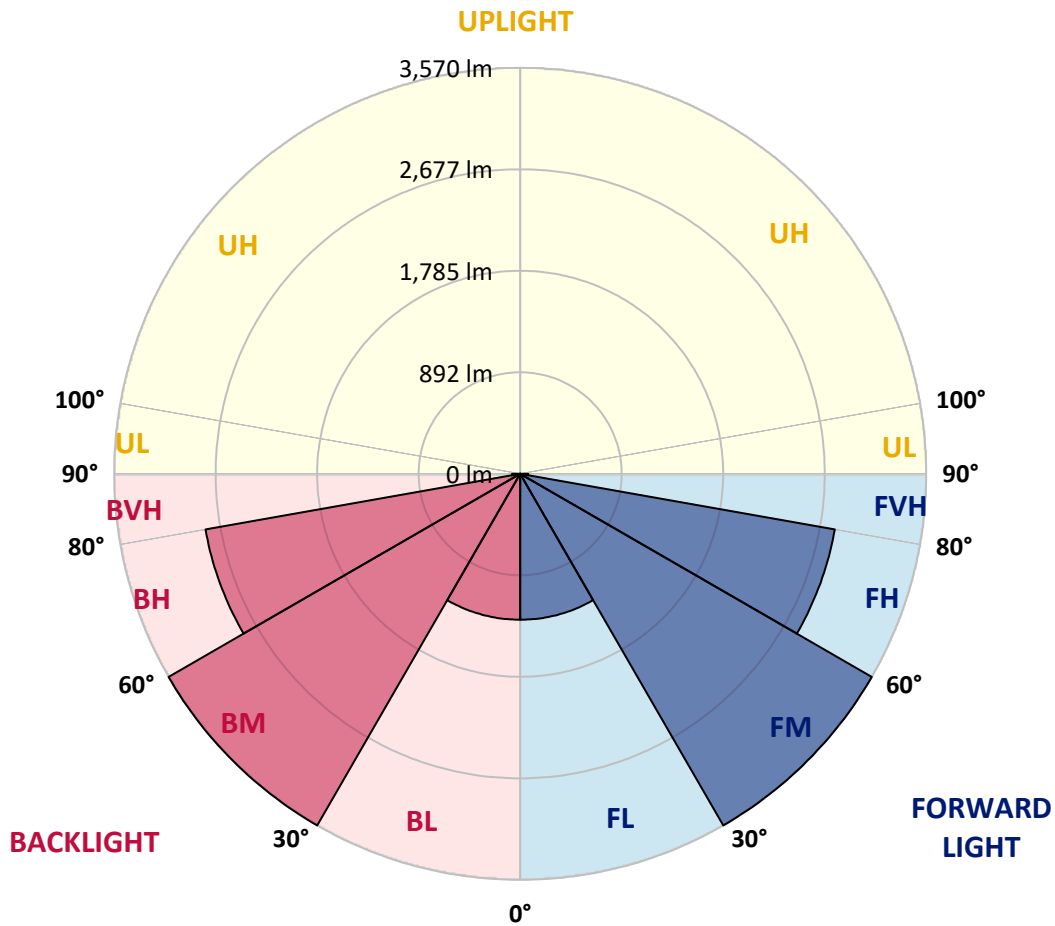
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1282.7	8.3			
FM (30°-60°)	3569.6	23.1			
FH (60°-80°)	2809.2	18.2			G2/5000
FVH (80°-90°)	70.9	0.5			G1/100
BL (0°-30°)	1282.7	8.3	B3/2500		
BM (30°-60°)	3569.6	23.1	B3/5000		
BH (60°-80°)	2809.2	18.2	B4/5000		G4/5000
BVH (80°-90°)	70.9	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 I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2889.8	2889.8	2889.8	2889.8	2889.8	2889.8	2889.8	2889.8	2889.8	2889.8
2.5°	2892.3	2895.6	2895.6	2893.1	2898.8	2893.9	2893.9	2891.4	2893.9	2891.4
5°	2907.1	2911.2	2912.8	2912.0	2919.4	2915.3	2915.3	2912.0	2912.8	2910.3
7.5°	2935.0	2940.8	2944.0	2948.2	2958.8	2953.9	2950.6	2940.8	2936.6	2930.1
10°	2944.0	2950.6	2961.3	2982.7	3007.3	3008.2	2998.3	2973.6	2954.7	2939.9
12.5°	2916.1	2925.1	2947.3	2990.9	3046.0	3068.2	3052.5	3011.4	2974.5	2948.2
15°	2880.8	2890.6	2924.3	2990.1	3071.4	3123.2	3121.6	3067.3	3008.2	2967.1
17.5°	2825.7	2835.6	2884.0	2976.1	3091.2	3176.6	3199.7	3143.8	3060.8	3005.7
20°	2726.2	2735.3	2802.7	2931.7	3097.7	3233.4	3293.4	3244.0	3140.5	3065.7
22.5°	2597.2	2611.2	2690.1	2855.3	3082.1	3292.5	3400.2	3366.5	3233.4	3129.8
25°	2459.1	2473.9	2566.0	2761.6	3041.8	3335.3	3526.8	3505.4	3338.6	3209.5
27.5°	2339.9	2355.6	2455.8	2668.7	2979.4	3351.7	3651.7	3662.4	3466.0	3297.5
30°	2246.3	2261.0	2367.9	2593.9	2898.8	3335.3	3761.0	3835.0	3595.8	3373.9
32.5°	2143.5	2162.4	2275.0	2502.7	2803.5	3295.8	3856.4	4021.6	3746.2	3456.1
35°	2013.7	2030.9	2149.3	2377.8	2678.6	3232.5	3936.1	4228.7	3961.6	3581.0
37.5°	1855.8	1872.3	1989.8	2221.6	2554.5	3143.8	3996.9	4462.1	4218.0	3761.0
40°	1697.2	1712.8	1823.0	2047.4	2405.7	3030.3	4018.3	4690.6	4512.2	4008.4
42.5°	1551.7	1565.7	1666.8	1875.6	2238.9	2885.7	3990.3	4889.5	4776.1	4181.0
45°	1417.8	1430.1	1519.7	1714.5	2065.4	2709.8	3906.5	5103.2	5090.0	4304.3
47.5°	1264.9	1277.2	1370.1	1558.3	1892.0	2503.5	3764.3	5313.6	5526.5	4583.7
50°	1078.3	1089.0	1184.4	1378.3	1712.0	2284.1	3567.0	5478.8	6077.1	5007.0
52.5°	857.2	868.7	961.6	1155.6	1498.3	2048.2	3307.3	5586.5	6713.3	5625.1
55°	637.8	646.0	726.6	900.8	1233.7	1779.4	2981.9	5616.9	7434.9	6470.0
57.5°	462.7	467.7	519.4	649.3	935.3	1443.3	2586.5	5538.0	8293.8	7553.3
60°	374.8	376.4	392.0	449.6	650.1	1063.5	2109.0	5266.7	9225.8	8949.7
62.5°	340.3	340.3	344.4	360.0	439.7	701.9	1531.2	4704.6	10225.3	10714.3
65°	316.4	316.4	318.1	325.5	346.8	447.1	966.6	3789.0	11067.7	12781.4
67.5°	295.1	295.9	295.1	297.5	309.9	330.4	560.5	2616.9	11521.4	14923.2
70°	272.9	274.5	270.4	270.4	280.3	281.1	351.0	1435.0	11145.0	16718.3
72.5°	246.6	249.0	242.5	240.8	248.2	244.9	263.8	688.8	9568.6	17254.1
75°	223.6	226.8	212.1	207.9	207.9	205.5	214.5	353.4	6210.3	14075.0
77.5°	203.0	209.6	185.7	172.6	169.3	161.9	175.1	216.2	2716.4	6608.1
80°	167.7	176.7	152.9	137.3	131.5	123.3	138.1	151.2	807.9	1534.5
82.5°	124.9	129.0	108.5	97.8	92.9	87.1	103.6	105.2	263.0	543.3
85°	79.7	81.4	66.6	57.5	55.1	52.6	65.8	57.5	100.3	399.4
87.5°	27.9	32.1	25.5	23.0	24.7	20.5	30.4	17.3	27.9	281.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

2889.8
2891.4
2910.3
2930.1
2937.5
2944.0
2960.5
2996.6
3051.7
3110.9
3183.2
3269.5
3333.6
3405.1
3524.3
3685.4
3927.9
4077.4
4164.6
4422.6
4804.8
5376.0
6158.5
7161.2
8455.7
10052.7
11944.7
14020.0
16480.7
17878.8
15054.7
6470.8
1469.6
614.0
580.3
349.3
0.0

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