

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: P939803

Luminaire Tested: **GALN-SB2C-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939803
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-SB2C-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12884 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

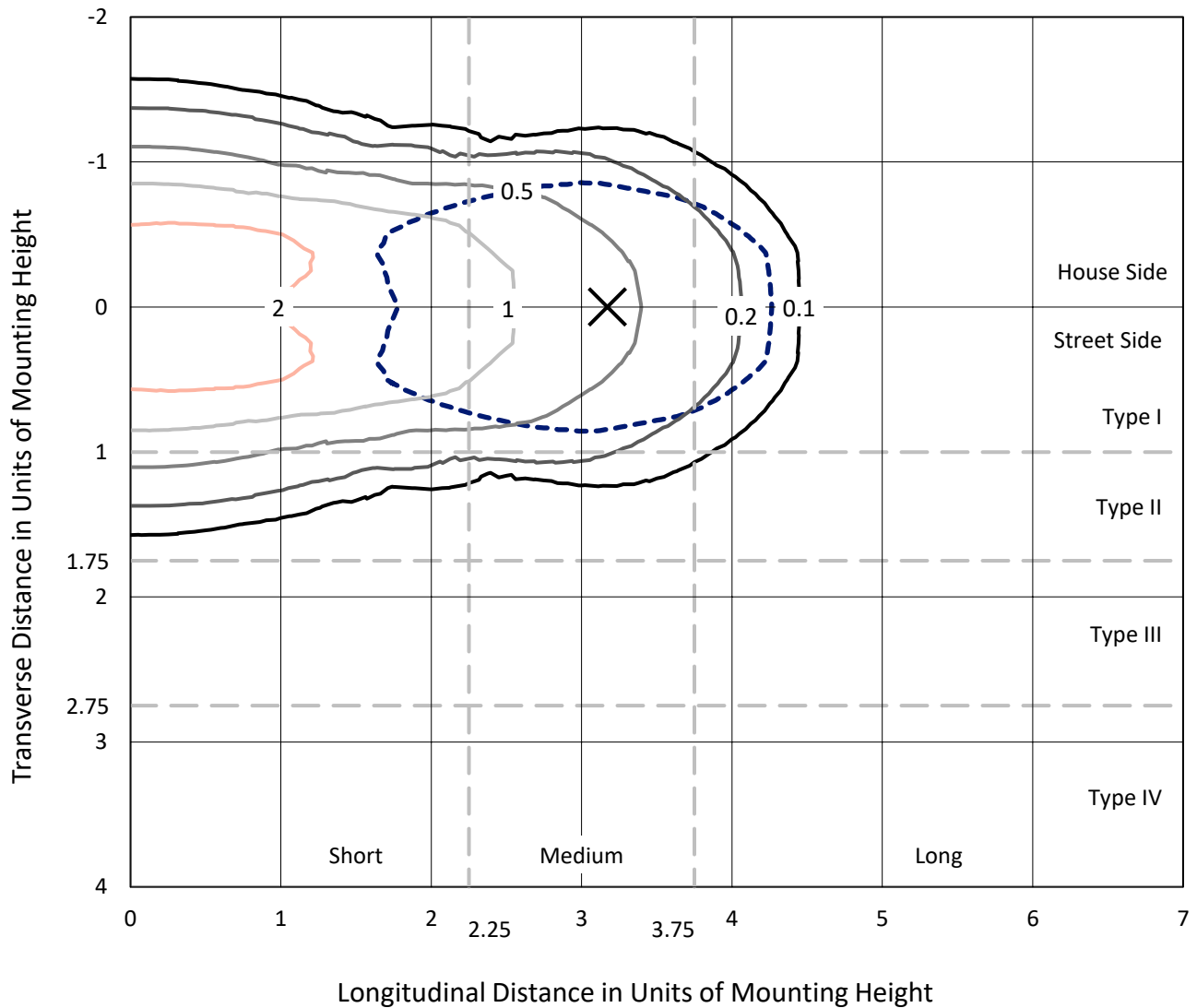
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

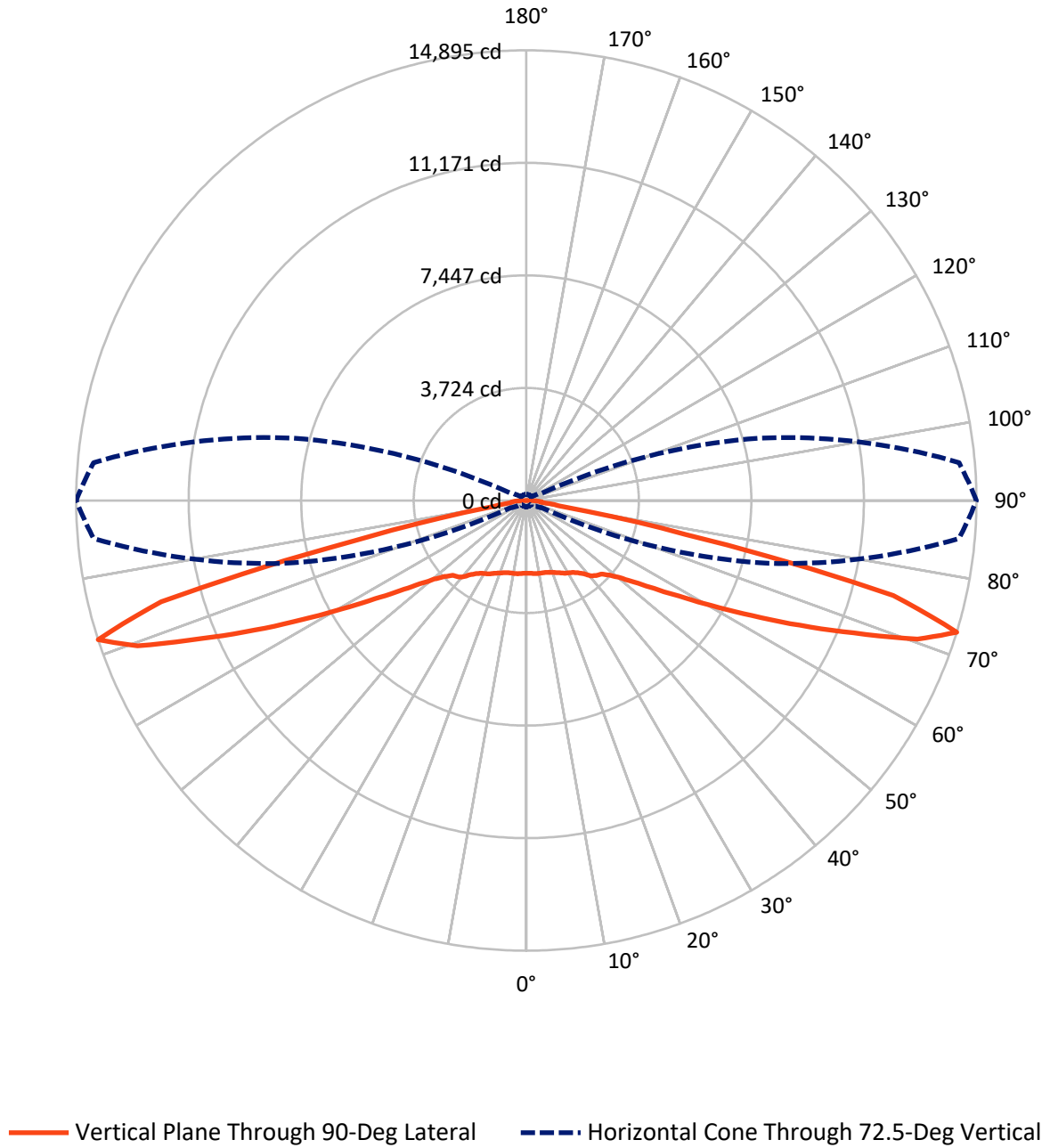
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	6442.0	0.0	6442.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6442.0	0.0	6442.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12884.0	0.0	12884.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.4	1.8
10°-20°	713.8	5.5
20°-30°	1190.1	9.2
30°-40°	1636.8	12.7
40°-50°	1999.0	15.5
50°-60°	2312.0	17.9
60°-70°	2756.7	21.4
70°-80°	1924.0	14.9
80°-90°	118.2	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°	12884.0	100.0
0°-180°	12884.0	100.0



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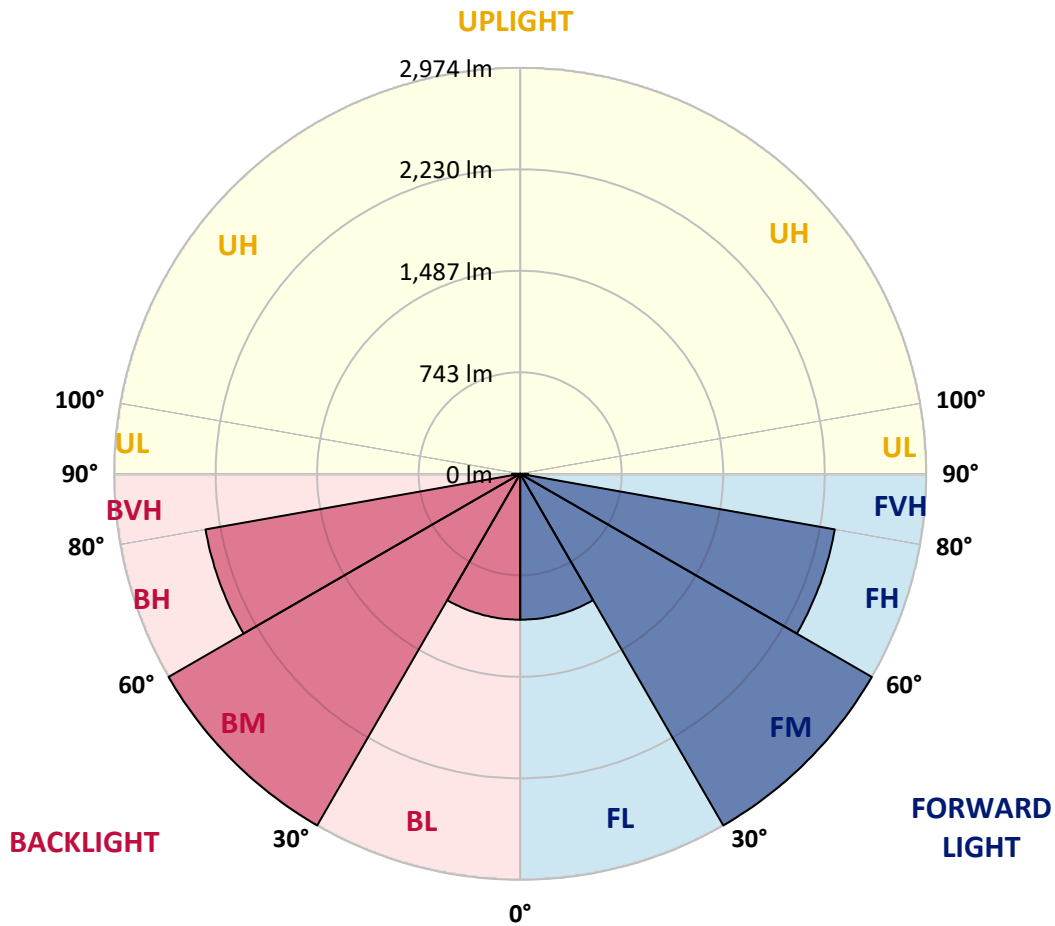
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1068.7	8.3			
FM (30°-60°)	2973.9	23.1			
FH (60°-80°)	2340.4	18.2			G2/5000
FVH (80°-90°)	59.1	0.5			G1/100
BL (0°-30°)	1068.7	8.3	B3/2500		
BM (30°-60°)	2973.9	23.1	B3/5000		
BH (60°-80°)	2340.4	18.2	B3/2500		G3/2500
BVH (80°-90°)	59.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2407.5	2407.5	2407.5	2407.5	2407.5	2407.5	2407.5	2407.5	2407.5	2407.5
2.5°	2409.6	2412.3	2412.3	2410.3	2415.0	2410.9	2410.9	2408.9	2410.9	2408.9
5°	2421.9	2425.3	2426.7	2426.0	2432.2	2428.7	2428.7	2426.0	2426.7	2424.6
7.5°	2445.2	2450.0	2452.7	2456.1	2465.0	2460.9	2458.2	2450.0	2446.5	2441.1
10°	2452.7	2458.2	2467.1	2484.9	2505.4	2506.1	2497.9	2477.4	2461.6	2449.3
12.5°	2429.4	2437.0	2455.4	2491.7	2537.6	2556.1	2543.1	2508.9	2478.0	2456.1
15°	2400.0	2408.2	2436.3	2491.0	2558.8	2602.0	2600.6	2555.4	2506.1	2471.9
17.5°	2354.1	2362.3	2402.7	2479.4	2575.3	2646.5	2665.7	2619.1	2549.9	2504.1
20°	2271.3	2278.8	2334.9	2442.4	2580.7	2693.7	2743.7	2702.6	2616.4	2554.0
22.5°	2163.7	2175.4	2241.1	2378.8	2567.7	2743.0	2832.7	2804.7	2693.7	2607.5
25°	2048.7	2061.0	2137.7	2300.7	2534.2	2778.6	2938.2	2920.4	2781.4	2673.9
27.5°	1949.4	1962.4	2046.0	2223.3	2482.1	2792.3	3042.3	3051.2	2887.5	2747.1
30°	1871.4	1883.7	1972.7	2161.0	2415.0	2778.6	3133.3	3195.0	2995.7	2810.8
32.5°	1785.8	1801.5	1895.3	2085.0	2335.6	2745.8	3212.8	3350.4	3121.0	2879.3
35°	1677.6	1692.0	1790.6	1980.9	2231.5	2693.0	3279.2	3522.9	3300.4	2983.4
37.5°	1546.1	1559.8	1657.7	1850.8	2128.1	2619.1	3329.8	3717.4	3514.0	3133.3
40°	1414.0	1427.0	1518.7	1705.7	2004.2	2524.6	3347.6	3907.8	3759.2	3339.4
42.5°	1292.8	1304.4	1388.6	1562.6	1865.2	2404.1	3324.4	4073.5	3979.0	3483.2
45°	1181.2	1191.4	1266.1	1428.3	1720.7	2257.6	3254.5	4251.5	4240.5	3585.9
47.5°	1053.8	1064.1	1141.4	1298.2	1576.2	2085.7	3136.1	4426.8	4604.1	3818.7
50°	898.4	907.3	986.7	1148.3	1426.3	1902.9	2971.7	4564.4	5062.9	4171.4
52.5°	714.2	723.8	801.1	962.7	1248.3	1706.3	2755.4	4654.1	5592.9	4686.3
55°	531.4	538.2	605.3	750.5	1027.8	1482.4	2484.2	4679.4	6194.1	5390.2
57.5°	385.5	389.6	432.7	540.9	779.2	1202.4	2154.8	4613.7	6909.6	6292.7
60°	312.2	313.6	326.6	374.5	541.6	886.0	1757.0	4387.8	7686.1	7456.0
62.5°	283.5	283.5	286.9	299.9	366.3	584.8	1275.7	3919.4	8518.7	8926.1
65°	263.6	263.6	265.0	271.2	289.0	372.5	805.2	3156.6	9220.6	10648.2
67.5°	245.8	246.5	245.8	247.9	258.1	275.3	467.0	2180.2	9598.5	12432.6
70°	227.3	228.7	225.3	225.3	233.5	234.2	292.4	1195.5	9284.9	13928.1
72.5°	205.4	207.5	202.0	200.6	206.8	204.0	219.8	573.8	7971.6	14374.5
75°	186.2	189.0	176.7	173.2	173.2	171.2	178.7	294.4	5173.8	11726.0
77.5°	169.1	174.6	154.7	143.8	141.1	134.9	145.8	180.1	2263.0	5505.2
80°	139.7	147.2	127.4	114.3	109.6	102.7	115.0	126.0	673.1	1278.4
82.5°	104.1	107.5	90.4	81.5	77.4	72.6	86.3	87.6	219.1	452.6
85°	66.4	67.8	55.5	47.9	45.9	43.8	54.8	47.9	83.5	332.8
87.5°	23.3	26.7	21.2	19.2	20.5	17.1	25.3	14.4	23.3	234.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

2407.5
2408.9
2424.6
2441.1
2447.2
2452.7
2466.4
2496.5
2542.4
2591.7
2652.0
2723.9
2777.3
2836.8
2936.1
3070.3
3272.3
3396.9
3469.5
3684.5
4002.9
4478.8
5130.7
5966.1
7044.5
8374.9
9951.2
11680.1
13730.2
14894.9
12542.2
5390.9
1224.3
511.5
483.4
291.0
0.0

OF REPORT)