

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: P939743

Luminaire Tested: **GALN-SB2C-727-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939743
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-727-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13743 lumens
Efficiency: N/A
Efficacy: 136.2 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



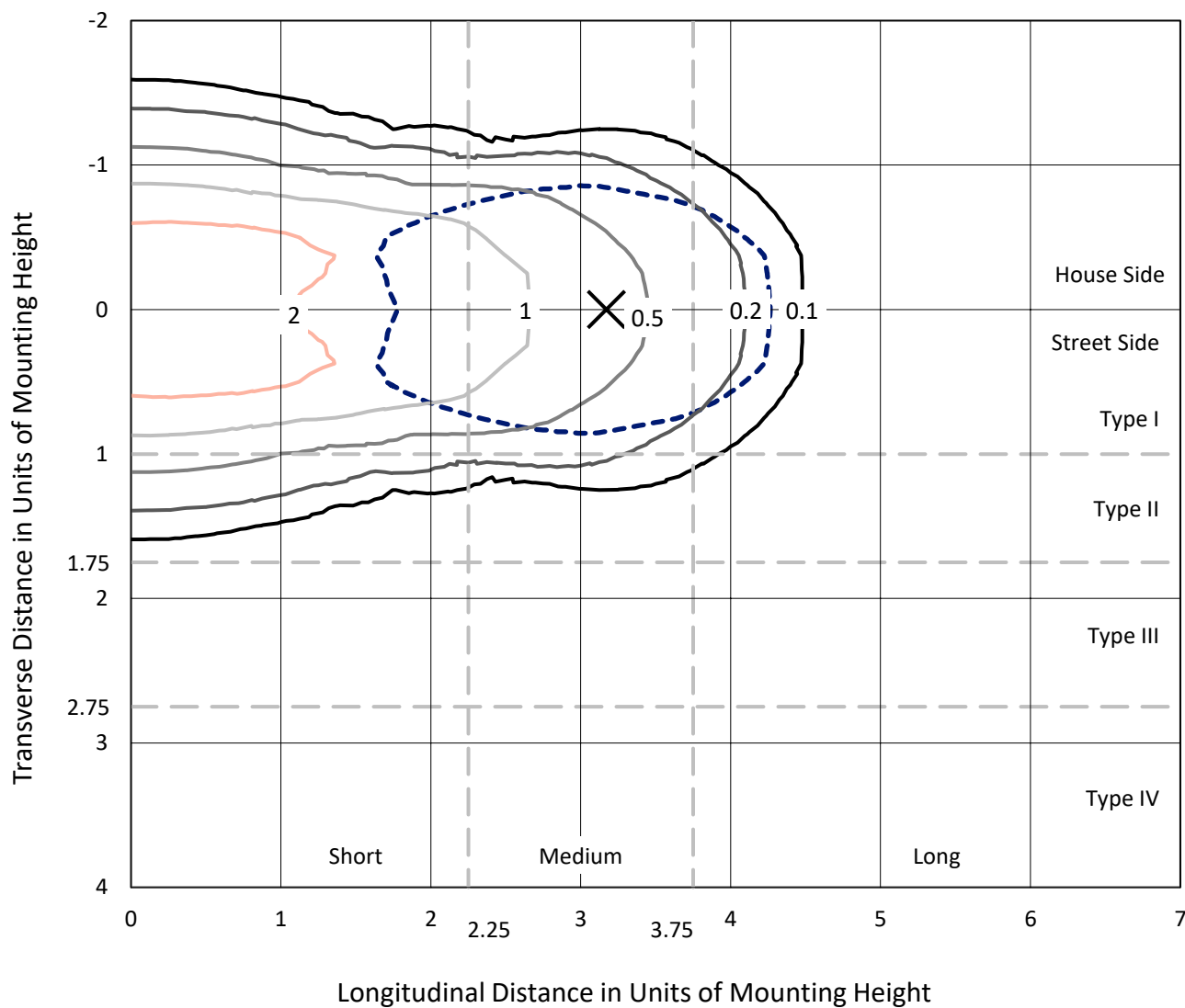
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

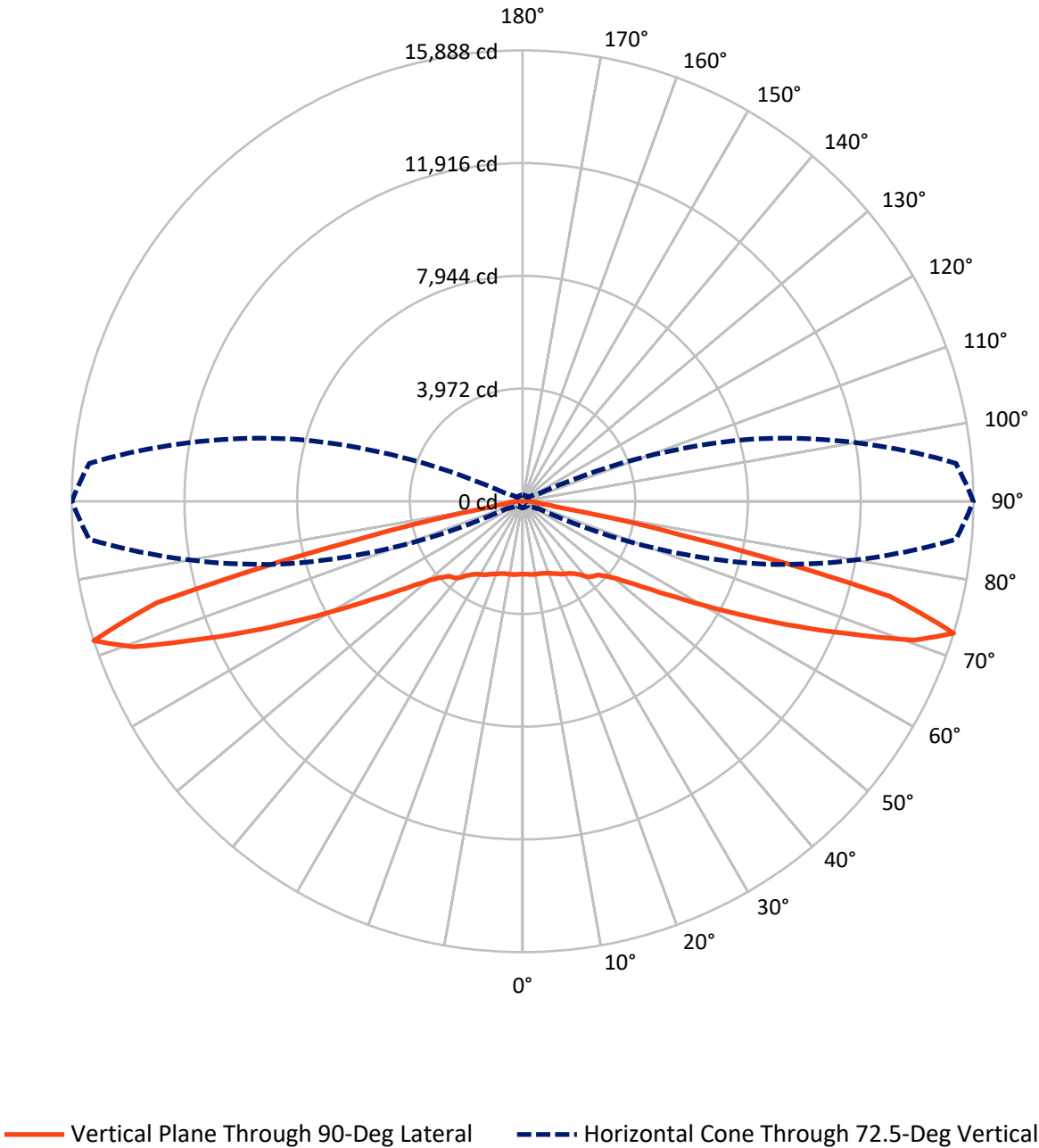
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	6871.5	0.0	6871.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6871.5	0.0	6871.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13743.0	0.0	13743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.0	1.8
10°-20°	761.3	5.5
20°-30°	1269.5	9.2
30°-40°	1745.9	12.7
40°-50°	2132.2	15.5
50°-60°	2466.2	17.9
60°-70°	2940.5	21.4
70°-80°	2052.3	14.9
80°-90°	126.0	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°	13743.0	100.0
0°-180°	13743.0	100.0

Coefficient of Utilization



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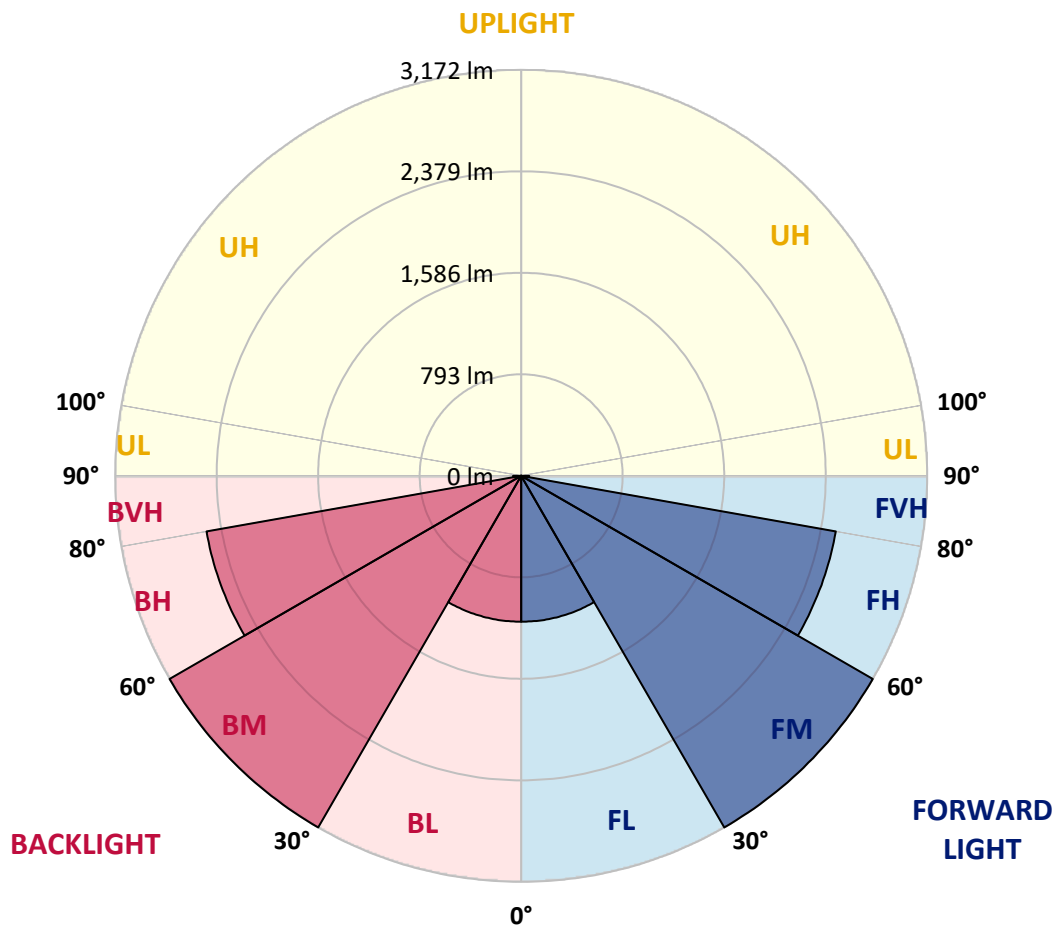
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1139.9	8.3			
FM	(30°-60°)	3172.2	23.1			
FH	(60°-80°)	2496.4	18.2			G2/5000
FVH	(80°-90°)	63.0	0.5			G1/100
BL	(0°-30°)	1139.9	8.3	B3/2500		
BM	(30°-60°)	3172.2	23.1	B3/5000		
BH	(60°-80°)	2496.4	18.2	B3/2500		G3/2500
BVH	(80°-90°)	63.0	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°	90°
0°	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0
2.5°	2570.2	2573.1	2573.1	2570.9	2576.1	2571.7	2571.7	2569.5	2571.7	2569.5	2569.5
5°	2583.4	2587.0	2588.5	2587.7	2594.3	2590.7	2590.7	2587.7	2588.5	2586.3	2586.3
7.5°	2608.2	2613.3	2616.2	2619.9	2629.4	2625.0	2622.1	2613.3	2609.7	2603.8	2603.8
10°	2616.2	2622.1	2631.6	2650.6	2672.5	2673.2	2664.4	2642.5	2625.7	2612.6	2610.4
12.5°	2591.4	2599.4	2619.2	2657.9	2706.8	2726.5	2712.6	2676.1	2643.3	2619.9	2616.2
15°	2560.0	2568.8	2598.7	2657.1	2729.4	2775.5	2774.0	2725.8	2673.2	2636.7	2630.8
17.5°	2511.1	2519.8	2562.9	2644.7	2747.0	2822.9	2843.4	2793.7	2719.9	2671.0	2663.0
20°	2422.7	2430.7	2490.6	2605.3	2752.8	2873.3	2926.6	2882.8	2790.8	2724.3	2711.9
22.5°	2308.0	2320.4	2390.5	2537.3	2738.9	2925.9	3021.6	2991.6	2873.3	2781.3	2764.5
25°	2185.3	2198.5	2280.3	2454.1	2703.1	2963.9	3134.1	3115.1	2966.8	2852.1	2828.8
27.5°	2079.4	2093.3	2182.4	2371.6	2647.6	2978.5	3245.1	3254.6	3080.0	2930.3	2905.5
30°	1996.1	2009.3	2104.2	2305.1	2576.1	2963.9	3342.2	3408.0	3195.4	2998.2	2962.4
32.5°	1904.8	1921.6	2021.7	2224.0	2491.3	2928.8	3427.0	3573.8	3329.1	3071.3	3026.0
35°	1789.4	1804.8	1910.0	2113.0	2380.3	2872.6	3497.8	3757.8	3520.4	3182.3	3131.9
37.5°	1649.2	1663.8	1768.3	1974.2	2270.0	2793.7	3551.8	3965.2	3748.3	3342.2	3275.0
40°	1508.2	1522.1	1620.0	1819.4	2137.8	2692.9	3570.8	4168.3	4009.8	3562.1	3490.5
42.5°	1379.0	1391.4	1481.2	1666.7	1989.6	2564.4	3546.0	4345.0	4244.3	3715.5	3623.4
45°	1259.9	1270.9	1350.5	1523.6	1835.5	2408.1	3471.5	4534.9	4523.3	3825.0	3700.8
47.5°	1124.1	1135.0	1217.5	1384.8	1681.3	2224.7	3345.2	4721.9	4911.1	4073.3	3930.2
50°	958.3	967.8	1052.5	1224.9	1521.4	2029.7	3169.9	4868.7	5400.4	4449.5	4269.8
52.5°	761.8	772.0	854.5	1026.9	1331.5	1820.1	2939.1	4964.4	5965.8	4998.7	4777.4
55°	566.8	574.1	645.7	800.5	1096.3	1581.3	2649.8	4991.4	6607.0	5749.6	5472.8
57.5°	411.2	415.6	461.6	577.0	831.2	1282.6	2298.5	4921.3	7370.3	6712.2	6363.8
60°	333.1	334.5	348.4	399.5	577.7	945.1	1874.2	4680.3	8198.5	7953.1	7514.2
62.5°	302.4	302.4	306.0	319.9	390.8	623.7	1360.7	4180.7	9086.7	9521.3	8933.3
65°	281.2	281.2	282.7	289.2	308.2	397.3	858.9	3367.1	9835.3	11358.2	10614.6
67.5°	262.2	262.9	262.2	264.4	275.4	293.6	498.1	2325.5	10238.5	13261.6	12458.9
70°	242.5	243.9	240.3	240.3	249.1	249.8	311.9	1275.2	9904.0	14856.7	14645.6
72.5°	219.1	221.3	215.5	214.0	220.6	217.7	234.5	612.1	8503.1	15332.9	15888.0
75°	198.7	201.6	188.4	184.8	184.8	182.6	190.6	314.1	5518.8	12507.8	13378.4
77.5°	180.4	186.2	165.1	153.4	150.5	143.9	155.6	192.1	2413.9	5872.3	5750.3
80°	149.0	157.0	135.9	122.0	116.9	109.6	122.7	134.4	718.0	1363.6	1305.9
82.5°	111.0	114.7	96.4	86.9	82.5	77.4	92.0	93.5	233.7	482.8	545.6
85°	70.8	72.3	59.2	51.1	48.9	46.7	58.4	51.1	89.1	355.0	515.6
87.5°	24.8	28.5	22.6	20.5	21.9	18.3	27.0	15.3	24.8	250.5	310.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)