

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: P944393

Luminaire Tested: **GALN-SB9B-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944393
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-SB9B-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44121 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

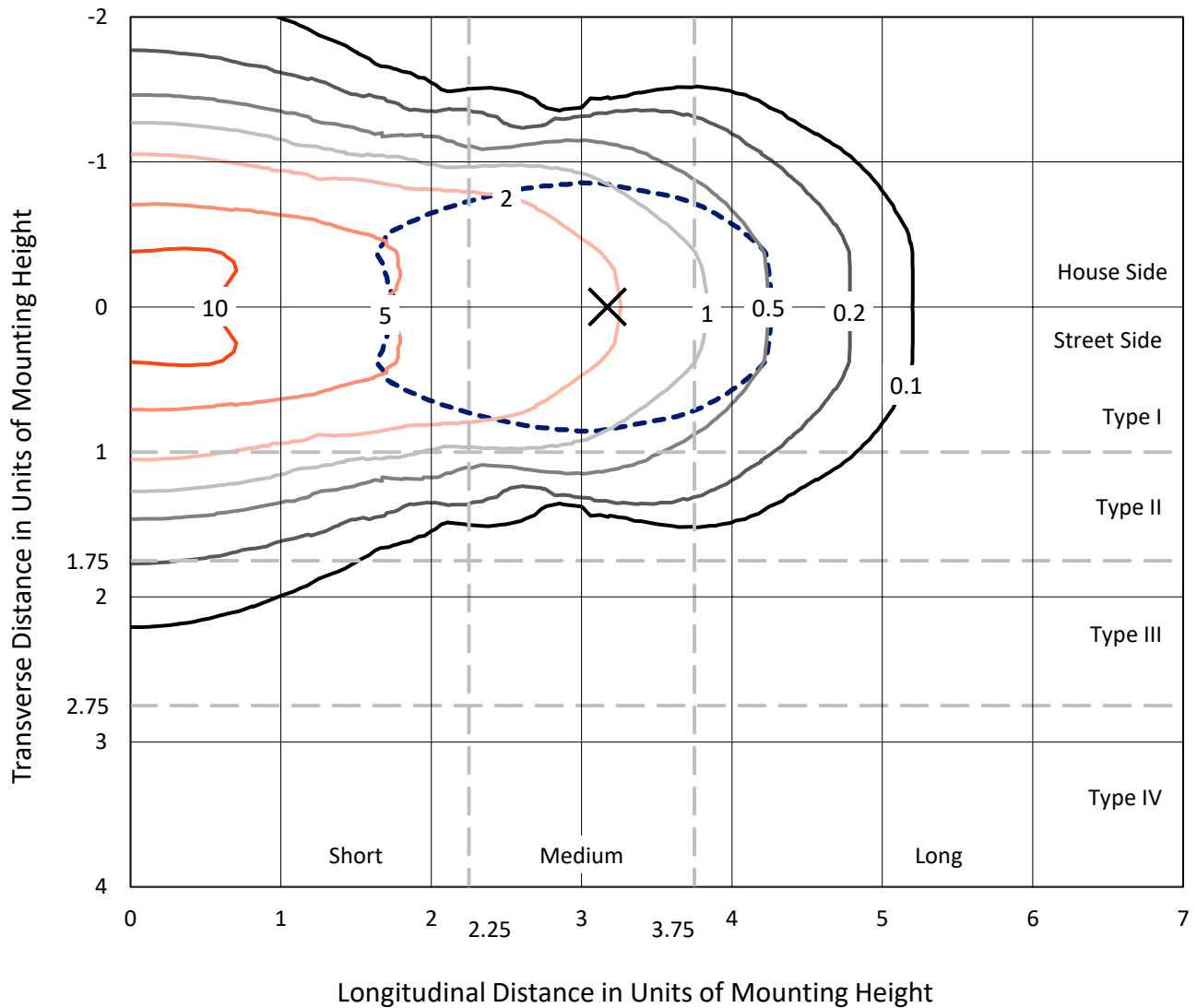
Input Watts (W): 329.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

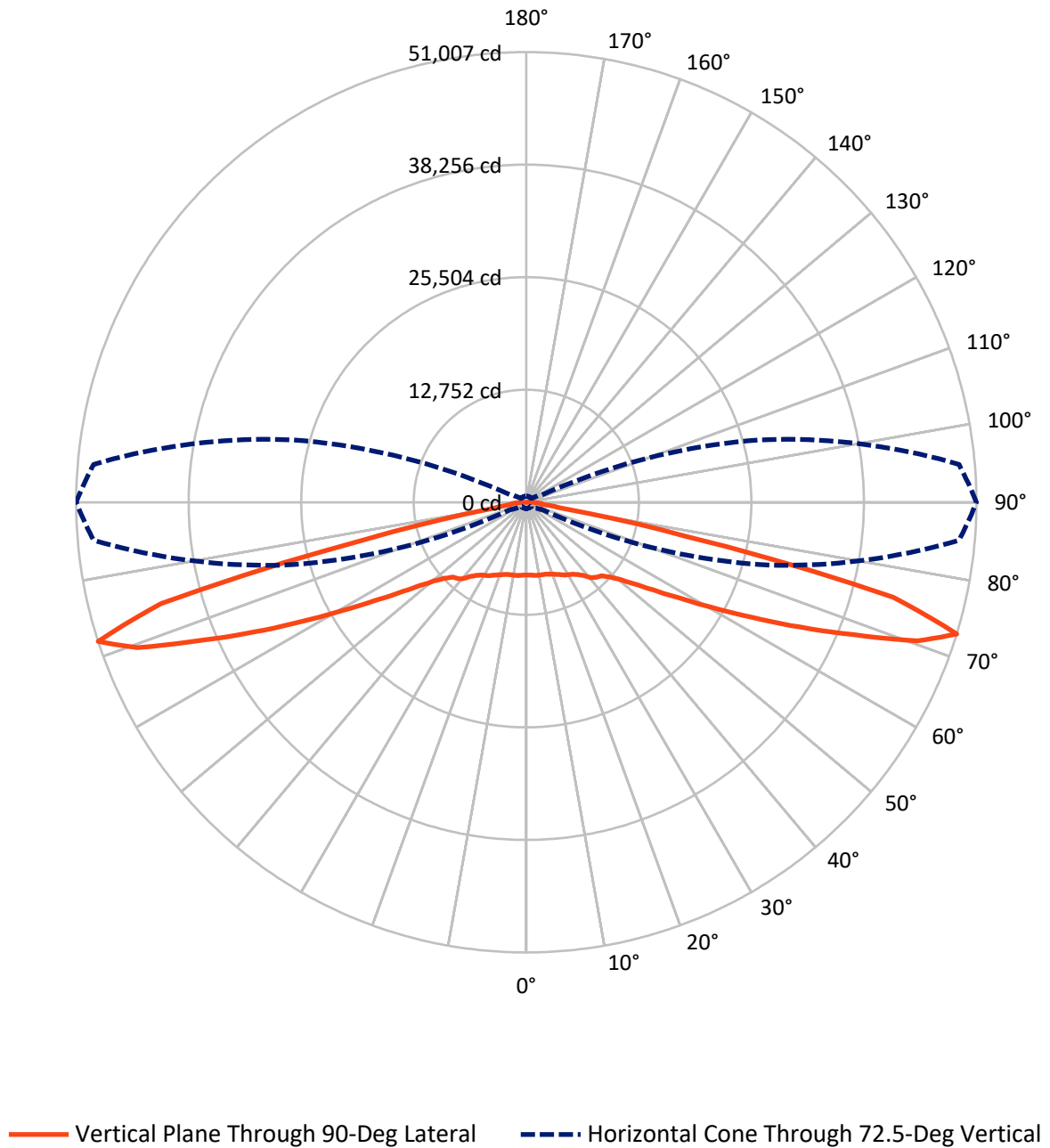
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 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	22060.5	0.0	22060.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	22060.5	0.0	22060.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	44121.0	0.0	44121.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	799.4	1.8
10°-20°	2444.2	5.5
20°-30°	4075.6	9.2
30°-40°	5605.2	12.7
40°-50°	6845.4	15.5
50°-60°	7917.5	17.9
60°-70°	9440.3	21.4
70°-80°	6588.7	14.9
80°-90°	404.7	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°	44121.0	100.0
0°-180°	44121.0	100.0

Coefficient of Utilization



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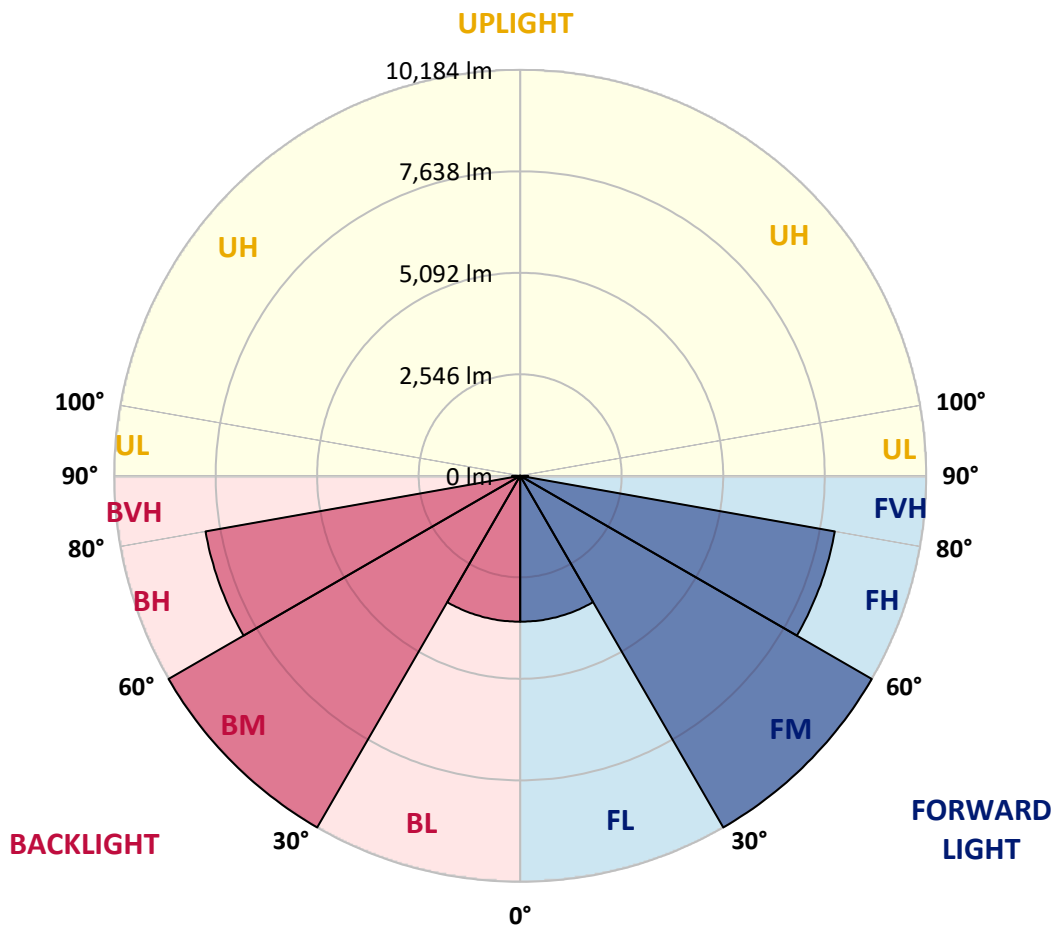
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3659.6	8.3			
FM (30°-60°)	10184.0	23.1			
FH (60°-80°)	8014.5	18.2			G4/12000
FVH (80°-90°)	202.3	0.5			G2/225
BL (0°-30°)	3659.6	8.3	B4/5000		
BM (30°-60°)	10184.0	23.1	B5		
BH (60°-80°)	8014.5	18.2	B5		G5
BVH (80°-90°)	202.3	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8244.5	8244.5	8244.5	8244.5	8244.5	8244.5	8244.5	8244.5	8244.5	8244.5
2.5°	8251.5	8260.9	8260.9	8253.9	8270.3	8256.2	8256.2	8249.2	8256.2	8249.2
5°	8293.7	8305.4	8310.1	8307.8	8328.9	8317.2	8317.2	8307.8	8310.1	8303.1
7.5°	8373.4	8389.9	8399.2	8411.0	8441.4	8427.4	8418.0	8389.9	8378.1	8359.4
10°	8399.2	8418.0	8448.5	8509.4	8579.8	8582.1	8554.0	8483.6	8429.7	8387.5
12.5°	8319.5	8345.3	8408.6	8532.9	8690.0	8753.3	8708.8	8591.5	8486.0	8411.0
15°	8218.7	8246.8	8343.0	8530.5	8762.7	8910.4	8905.7	8751.0	8582.1	8464.9
17.5°	8061.6	8089.7	8228.1	8490.7	8819.0	9062.8	9128.5	8969.0	8732.2	8575.1
20°	7777.9	7803.6	7995.9	8364.1	8837.7	9224.6	9395.8	9255.1	8959.7	8746.3
22.5°	7409.7	7449.6	7674.7	8146.0	8793.2	9393.4	9700.6	9604.5	9224.6	8929.2
25°	7015.8	7058.0	7320.6	7878.7	8678.3	9515.4	10061.7	10000.8	9524.8	9156.6
27.5°	6675.8	6720.3	7006.4	7613.7	8500.1	9562.3	10418.1	10448.6	9888.2	9407.5
30°	6408.5	6450.7	6755.5	7400.3	8270.3	9515.4	10730.0	10941.0	10258.7	9625.6
32.5°	6115.4	6169.3	6490.5	7140.1	7998.3	9402.8	11002.0	11473.3	10687.8	9860.1
35°	5744.9	5794.1	6131.8	6783.6	7641.8	9222.3	11229.5	12064.2	11302.2	10216.5
37.5°	5294.7	5341.6	5676.9	6338.1	7287.8	8969.0	11403.0	12730.2	12033.7	10730.0
40°	4842.1	4886.7	5200.9	5841.0	6863.4	8645.4	11463.9	13382.0	12873.2	11435.8
42.5°	4427.1	4466.9	4755.3	5350.9	6387.4	8232.8	11384.2	13949.5	13625.9	11928.2
45°	4044.9	4080.0	4335.6	4891.3	5892.6	7731.0	11145.0	14559.1	14521.6	12280.0
47.5°	3608.7	3643.9	3908.9	4445.8	5397.8	7142.4	10739.4	15159.4	15766.7	13077.2
50°	3076.4	3106.9	3378.9	3932.3	4884.3	6516.3	10176.6	15630.7	17337.8	14284.8
52.5°	2445.7	2478.5	2743.5	3296.9	4274.7	5843.4	9435.7	15937.9	19152.7	16048.1
55°	1819.6	1843.0	2072.8	2569.9	3519.6	5076.6	8507.1	16024.7	21211.5	18458.6
57.5°	1320.1	1334.2	1481.9	1852.4	2668.4	4117.5	7379.2	15799.6	23661.8	21549.1
60°	1069.2	1073.9	1118.5	1282.6	1854.8	3034.2	6016.9	15025.8	26320.9	25533.0
62.5°	970.8	970.8	982.5	1027.0	1254.5	2002.5	4368.4	13421.9	29172.2	30567.4
65°	902.8	902.8	907.5	928.6	989.5	1275.6	2757.5	10809.7	31575.7	36464.7
67.5°	841.8	844.1	841.8	848.8	884.0	942.6	1599.2	7466.0	32870.0	42575.3
70°	778.5	783.2	771.5	771.5	799.6	801.9	1001.2	4094.1	31796.1	47696.5
72.5°	703.5	710.5	691.7	687.0	708.1	698.8	752.7	1965.0	27298.7	49225.3
75°	637.8	647.2	605.0	593.2	593.2	586.2	612.0	1008.3	17717.6	40155.5
77.5°	579.2	597.9	529.9	492.4	483.0	461.9	499.5	616.7	7749.7	18852.6
80°	478.3	504.1	436.1	391.6	375.2	351.7	393.9	431.5	2305.0	4377.8
82.5°	356.4	368.1	309.5	279.0	265.0	248.6	295.5	300.1	750.4	1549.9
85°	227.4	232.1	189.9	164.1	157.1	150.1	187.6	164.1	286.1	1139.6
87.5°	79.7	91.4	72.7	65.7	70.3	58.6	86.8	49.2	79.7	804.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

8244.5
8249.2
8303.1
8359.4
8380.5
8399.2
8446.1
8549.3
8706.4
8875.2
9081.6
9327.8
9510.7
9714.7
10054.7
10514.3
11206.0
11632.8
11881.3
12617.6
13708.0
15337.6
17569.9
20430.6
24123.8
28679.8
34077.6
39998.4
47018.8
51007.4
42950.5
18461.0
4192.6
1751.6
1655.5
996.6
0.0

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