

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: P944733

Luminaire Tested: **GALN-SB9D-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944733
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-SB9D-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 79732 lumens
Efficiency: N/A
Efficacy: 121.2 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

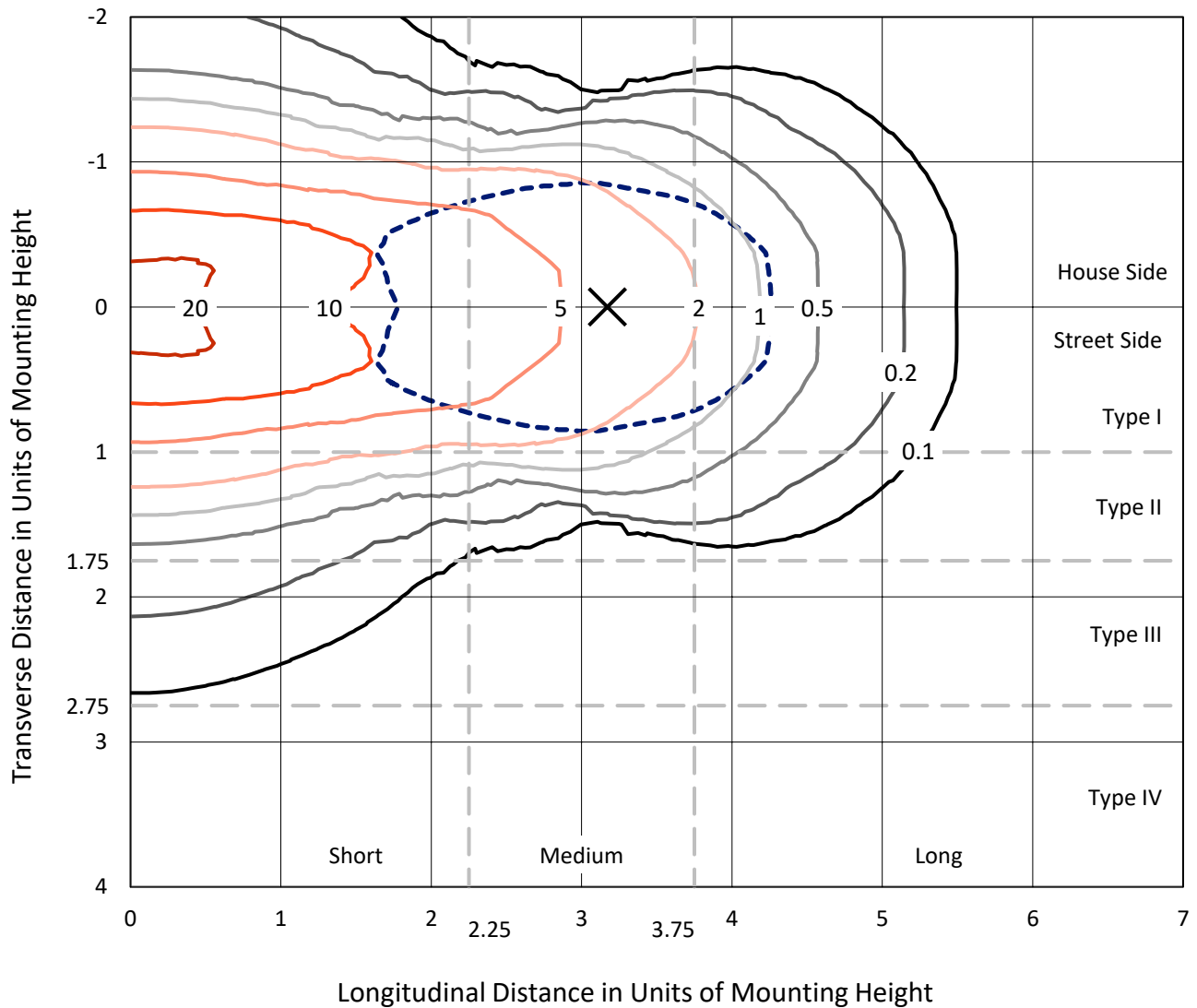
Input Watts (W): 658
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

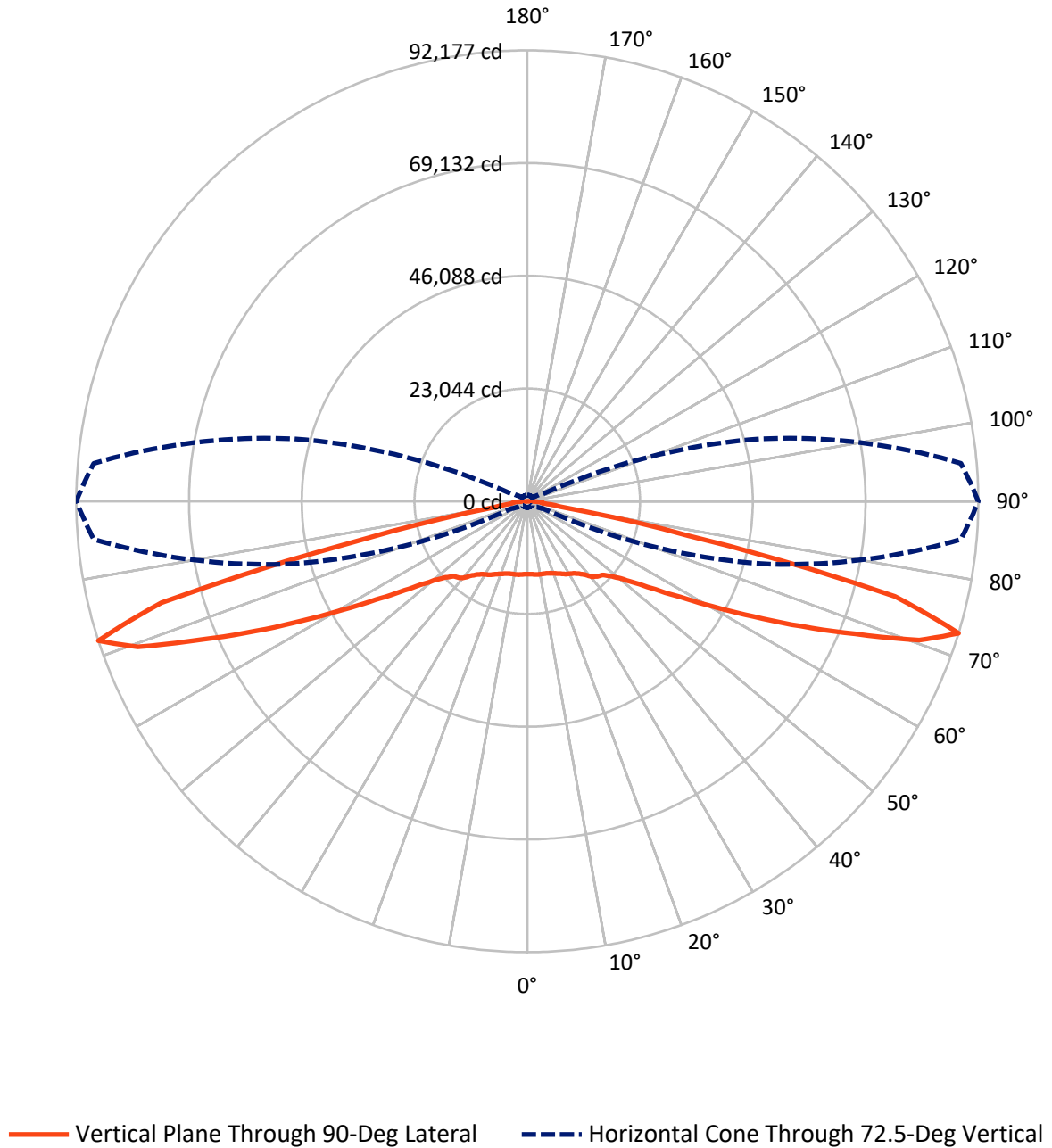
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.8 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	39866.0	0.0	39866.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	39866.0	0.0	39866.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	79732.0	0.0	79732.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1444.6	1.8
10°-20°	4417.1	5.5
20°-30°	7365.0	9.2
30°-40°	10129.2	12.7
40°-50°	12370.5	15.5
50°-60°	14307.8	17.9
60°-70°	17059.8	21.4
70°-80°	11906.6	14.9
80°-90°	731.3	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°	79732.0	100.0
0°-180°	79732.0	100.0

Coefficient of Utilization



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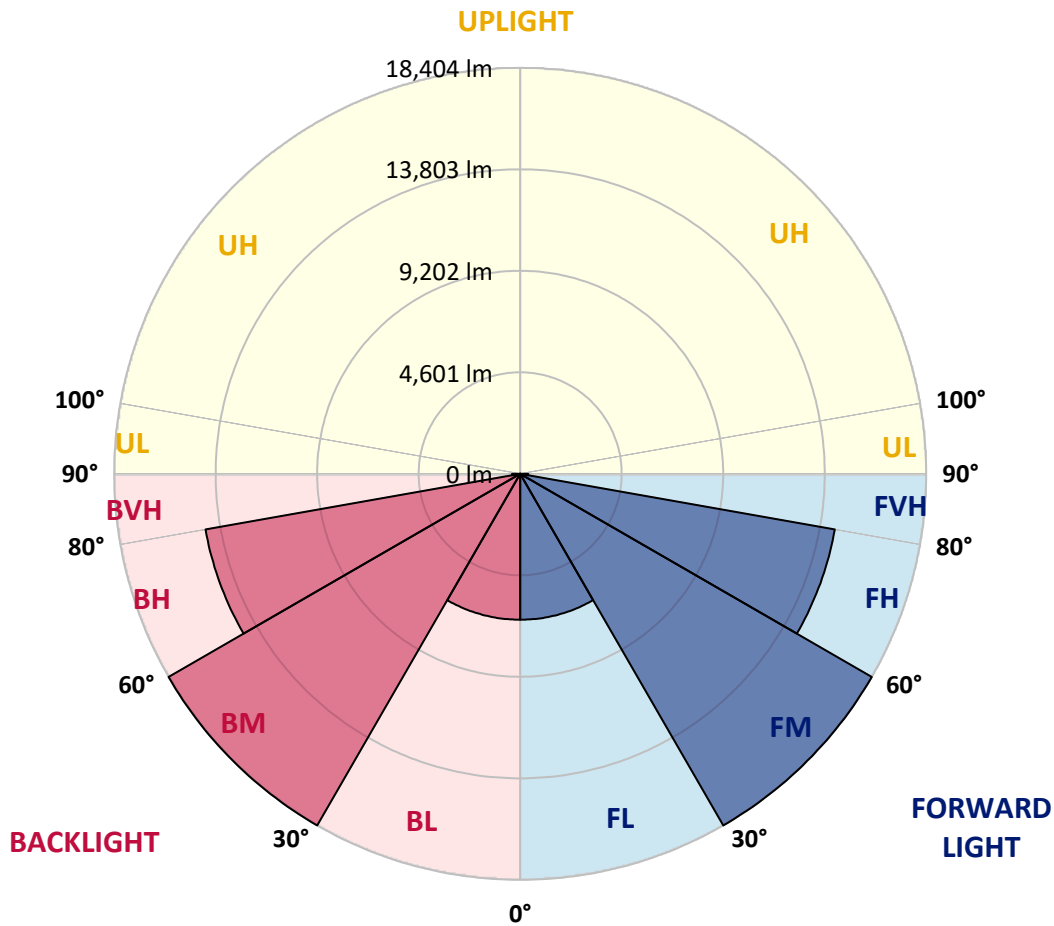
CATALOG NUMBER: GALN-SB9D-827-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6613.4	8.3			
FM (30°-60°)	18403.8	23.1			
FH (60°-80°)	14483.2	18.2			G5
FVH (80°-90°)	365.7	0.5			G3/500
BL (0°-30°)	6613.4	8.3	B5		
BM (30°-60°)	18403.8	23.1	B5		
BH (60°-80°)	14483.2	18.2	B5		G5
BVH (80°-90°)	365.7	0.5			G3/500
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°	14898.8	14898.8	14898.8	14898.8	14898.8	14898.8	14898.8	14898.8	14898.8	14898.8
2.5°	14911.5	14928.4	14928.4	14915.7	14945.4	14920.0	14920.0	14907.2	14920.0	14907.2
5°	14987.8	15008.9	15017.4	15013.2	15051.3	15030.1	15030.1	15013.2	15017.4	15004.7
7.5°	15131.8	15161.5	15178.4	15199.6	15254.7	15229.3	15212.3	15161.5	15140.3	15106.4
10°	15178.4	15212.3	15267.4	15377.6	15504.7	15509.0	15458.1	15331.0	15233.5	15157.2
12.5°	15034.4	15081.0	15195.4	15420.0	15703.9	15818.3	15737.8	15525.9	15335.2	15199.6
15°	14852.2	14903.0	15076.7	15415.7	15835.2	16102.2	16093.7	15814.0	15509.0	15297.1
17.5°	14568.2	14619.1	14869.1	15343.7	15936.9	16377.6	16496.3	16208.1	15780.1	15496.2
20°	14055.5	14102.1	14449.6	15114.9	15970.8	16670.0	16979.3	16725.1	16191.2	15805.6
22.5°	13390.2	13462.3	13869.1	14720.8	15890.3	16975.1	17530.2	17356.5	16670.0	16136.1
25°	12678.4	12754.6	13229.2	14237.7	15682.7	17195.4	18182.8	18072.6	17212.4	16547.1
27.5°	12063.9	12144.4	12661.4	13758.9	15360.6	17280.2	18826.9	18881.9	17869.2	17000.5
30°	11580.9	11657.1	12208.0	13373.3	14945.4	17195.4	19390.4	19771.8	18538.7	17394.6
32.5°	11051.2	11148.6	11729.2	12902.9	14453.8	16992.1	19882.0	20733.7	19314.2	17818.3
35°	10381.7	10470.7	11080.9	12258.9	13809.7	16665.8	20293.0	21801.5	20424.4	18462.4
37.5°	9568.1	9652.8	10258.8	11453.7	13169.9	16208.1	20606.6	23004.9	21746.4	19390.4
40°	8750.3	8830.8	9398.6	10555.4	12402.9	15623.4	20716.7	24183.0	23263.4	20665.9
42.5°	8000.2	8072.3	8593.5	9669.8	11542.7	14877.6	20572.7	25208.4	24623.6	21555.8
45°	7309.5	7373.1	7835.0	8839.3	10648.6	13970.8	20140.5	26310.1	26242.3	22191.4
47.5°	6521.4	6584.9	7063.8	8034.1	9754.5	12907.2	19407.4	27394.9	28492.4	23632.1
50°	5559.5	5614.6	6106.1	7106.2	8826.5	11775.8	18390.4	28246.6	31331.5	25814.4
52.5°	4419.6	4479.0	4957.8	5957.8	7724.8	10559.6	17051.4	28801.7	34611.2	29000.9
55°	3288.2	3330.6	3745.9	4644.2	6360.4	9174.0	15373.4	28958.5	38331.7	33357.0
57.5°	2385.7	2411.1	2678.0	3347.6	4822.2	7440.9	13335.2	28551.7	42759.8	38941.9
60°	1932.3	1940.7	2021.2	2317.9	3351.8	5483.2	10873.2	27153.4	47565.0	46141.3
62.5°	1754.3	1754.3	1775.5	1856.0	2267.0	3618.8	7894.3	24255.0	52717.7	55239.0
65°	1631.4	1631.4	1639.9	1678.0	1788.2	2305.2	4983.2	19534.5	57061.1	65896.1
67.5°	1521.2	1525.5	1521.2	1533.9	1597.5	1703.4	2889.9	13491.9	59400.1	76938.8
70°	1406.8	1415.3	1394.1	1394.1	1445.0	1449.2	1809.4	7398.5	57459.4	86193.3
72.5°	1271.2	1283.9	1250.0	1241.6	1279.7	1262.8	1360.2	3551.0	49332.0	88956.1
75°	1152.6	1169.5	1093.3	1072.1	1072.1	1059.4	1106.0	1822.1	32017.9	72565.8
77.5°	1046.6	1080.5	957.7	889.9	872.9	834.8	902.6	1114.4	14004.7	34068.9
80°	864.4	911.0	788.2	707.6	678.0	635.6	711.9	779.7	4165.4	7911.3
82.5°	644.1	665.3	559.3	504.3	478.8	449.2	533.9	542.4	1356.0	2800.9
85°	411.0	419.5	343.2	296.6	283.9	271.2	339.0	296.6	517.0	2059.4
87.5°	144.1	165.3	131.4	118.6	127.1	105.9	156.8	89.0	144.1	1453.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

14898.8
14907.2
15004.7
15106.4
15144.5
15178.4
15263.2
15449.6
15733.5
16038.6
16411.5
16856.5
17187.0
17555.6
18170.1
19000.6
20250.6
21021.8
21471.0
22801.6
24772.0
27717.0
31751.0
36920.6
43594.6
51827.9
61582.4
72281.9
84968.7
92176.6
77616.8
33361.2
7576.5
3165.4
2991.6
1800.9
0.0

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