

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: P941843

Luminaire Tested: **GALN-SB5C-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941843
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-SB5C-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 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: 32543 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G5

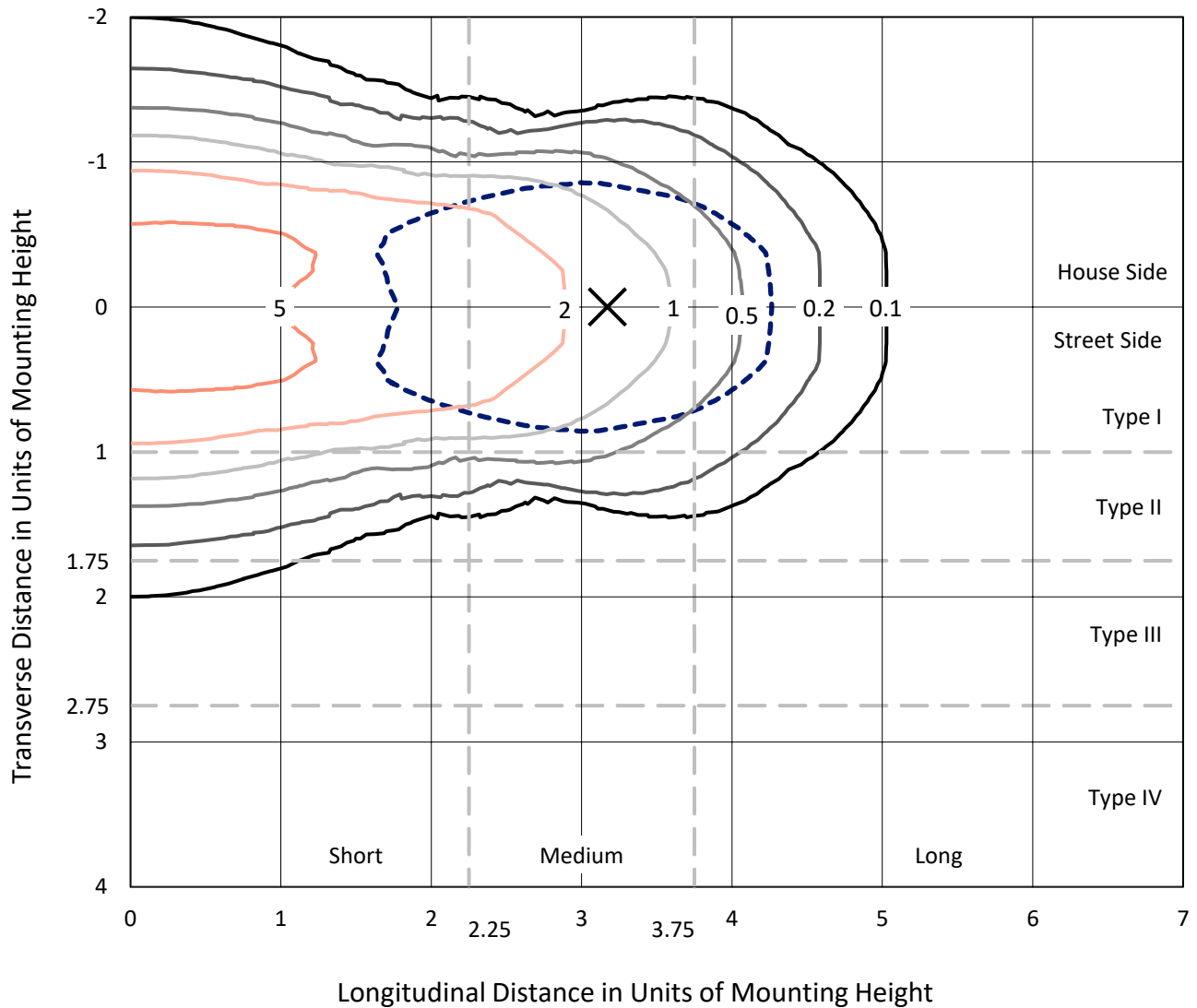
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

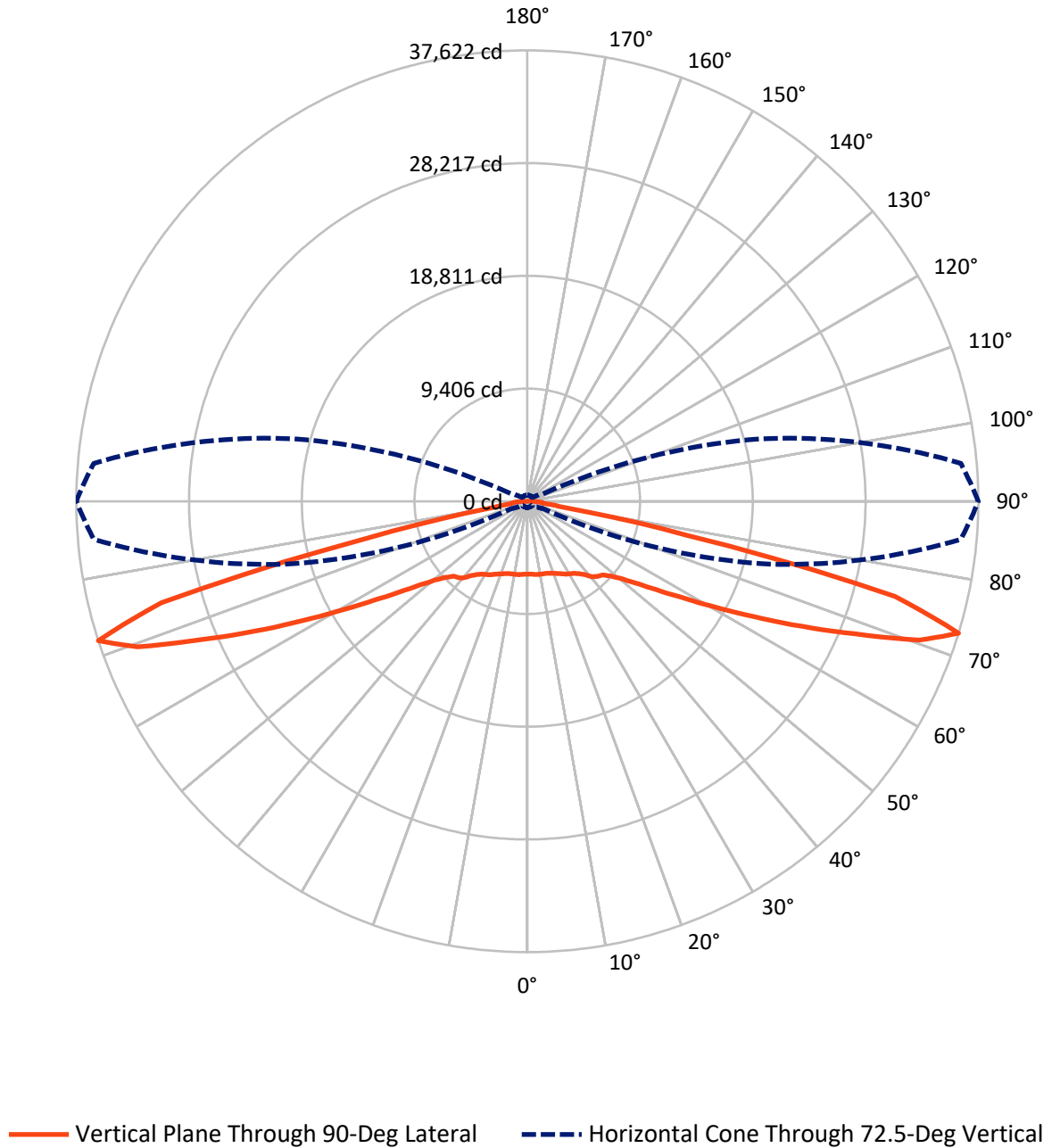
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 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	16271.5	0.0	16271.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16271.5	0.0	16271.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	32543.0	0.0	32543.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.6	1.8
10°-20°	1802.8	5.5
20°-30°	3006.1	9.2
30°-40°	4134.3	12.7
40°-50°	5049.1	15.5
50°-60°	5839.8	17.9
60°-70°	6963.0	21.4
70°-80°	4859.7	14.9
80°-90°	298.5	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°	32543.0	100.0
0°-180°	32543.0	100.0



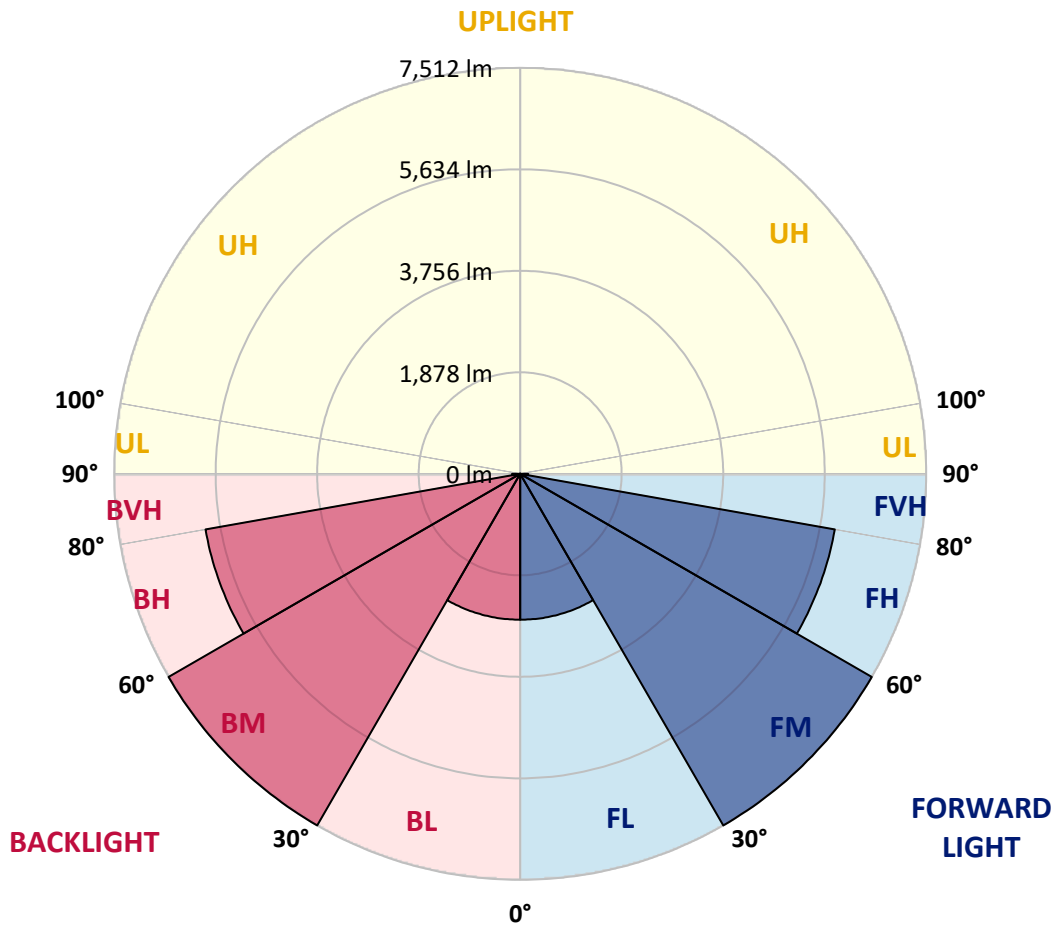
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2699.3	8.3			
FM (30°-60°)	7511.6	23.1			
FH (60°-80°)	5911.4	18.2			G3/7500
FVH (80°-90°)	149.2	0.5			G2/225
BL (0°-30°)	2699.3	8.3	B4/5000		
BM (30°-60°)	7511.6	23.1	B4/8500		
BH (60°-80°)	5911.4	18.2	B5		G5
BVH (80°-90°)	149.2	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°	6081.0	6081.0	6081.0	6081.0	6081.0	6081.0	6081.0	6081.0	6081.0	6081.0
2.5°	6086.2	6093.1	6093.1	6087.9	6100.0	6089.7	6089.7	6084.5	6089.7	6084.5
5°	6117.3	6126.0	6129.4	6127.7	6143.3	6134.6	6134.6	6127.7	6129.4	6124.2
7.5°	6176.1	6188.2	6195.2	6203.8	6226.3	6215.9	6209.0	6188.2	6179.6	6165.7
10°	6195.2	6209.0	6231.5	6276.4	6328.3	6330.1	6309.3	6257.4	6217.6	6186.5
12.5°	6136.3	6155.4	6202.1	6293.7	6409.6	6456.3	6423.4	6337.0	6259.1	6203.8
15°	6062.0	6082.7	6153.6	6292.0	6463.2	6572.2	6568.7	6454.6	6330.1	6243.6
17.5°	5946.1	5966.9	6068.9	6262.6	6504.7	6684.6	6733.0	6615.4	6440.7	6324.9
20°	5736.8	5755.9	5897.7	6169.2	6518.6	6803.9	6930.2	6826.4	6608.5	6451.1
22.5°	5465.3	5494.7	5660.7	6008.4	6485.7	6928.5	7155.0	7084.1	6803.9	6586.0
25°	5174.7	5205.9	5399.6	5811.2	6401.0	7018.4	7421.4	7376.4	7025.3	6753.8
27.5°	4924.0	4956.8	5167.8	5615.8	6269.5	7053.0	7684.3	7706.8	7293.4	6938.8
30°	4726.8	4757.9	4982.8	5458.4	6100.0	7018.4	7914.3	8070.0	7566.7	7099.7
32.5°	4510.6	4550.4	4787.3	5266.4	5899.4	6935.4	8114.9	8462.6	7883.2	7272.6
35°	4237.3	4273.7	4522.7	5003.5	5636.5	6802.2	8282.7	8898.4	8336.3	7535.5
37.5°	3905.3	3939.9	4187.2	4674.9	5375.4	6615.4	8410.7	9389.6	8875.9	7914.3
40°	3571.5	3604.3	3836.1	4308.2	5062.3	6376.8	8455.6	9870.4	9495.1	8434.9
42.5°	3265.3	3294.7	3507.5	3946.8	4711.2	6072.4	8396.8	10288.9	10050.3	8798.1
45°	2983.4	3009.4	3197.9	3607.8	4346.3	5702.2	8220.4	10738.6	10710.9	9057.5
47.5°	2661.7	2687.7	2883.1	3279.2	3981.4	5268.1	7921.2	11181.4	11629.3	9645.6
50°	2269.1	2291.6	2492.2	2900.4	3602.6	4806.3	7506.1	11529.0	12788.1	10536.3
52.5°	1803.9	1828.1	2023.5	2431.7	3152.9	4310.0	6959.6	11755.6	14126.7	11836.9
55°	1342.1	1359.4	1528.9	1895.6	2596.0	3744.4	6274.7	11819.6	15645.3	13614.8
57.5°	973.7	984.1	1093.1	1366.3	1968.2	3037.0	5442.8	11653.5	17452.6	15894.3
60°	788.7	792.1	825.0	946.0	1368.1	2238.0	4438.0	11082.8	19413.9	18832.8
62.5°	716.0	716.0	724.7	757.5	925.3	1477.0	3222.1	9899.8	21517.0	22546.1
65°	665.9	665.9	669.3	684.9	729.9	940.9	2033.9	7973.1	23289.8	26895.8
67.5°	620.9	622.6	620.9	626.1	652.0	695.3	1179.5	5506.8	24244.5	31403.0
70°	574.2	577.7	569.0	569.0	589.8	591.5	738.5	3019.7	23452.3	35180.2
72.5°	518.9	524.0	510.2	506.8	522.3	515.4	555.2	1449.3	20135.1	36307.9
75°	470.4	477.3	446.2	437.6	437.6	432.4	451.4	743.7	13068.3	29618.1
77.5°	427.2	441.0	390.9	363.2	356.3	340.7	368.4	454.9	5716.1	13905.4
80°	352.8	371.8	321.7	288.8	276.7	259.4	290.6	318.2	1700.1	3229.0
82.5°	262.9	271.5	228.3	205.8	195.4	183.3	217.9	221.4	553.4	1143.2
85°	167.8	171.2	140.1	121.1	115.9	110.7	138.4	121.1	211.0	840.5
87.5°	58.8	67.5	53.6	48.4	51.9	43.2	64.0	36.3	58.8	593.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

6081.0
6084.5
6124.2
6165.7
6181.3
6195.2
6229.7
6305.8
6421.7
6546.2
6698.4
6880.0
7014.9
7165.4
7416.2
7755.2
8265.4
8580.2
8763.5
9306.6
10110.8
11312.8
12959.3
15069.3
17793.3
21153.8
25135.2
29502.2
34680.4
37622.3
31679.7
13616.5
3092.4
1292.0
1221.0
735.0
0.0

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