

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: P941163

Luminaire Tested: **GALN-SB4C-827-U-T1**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P941163  
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-SB4C-827-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 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: 25820 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

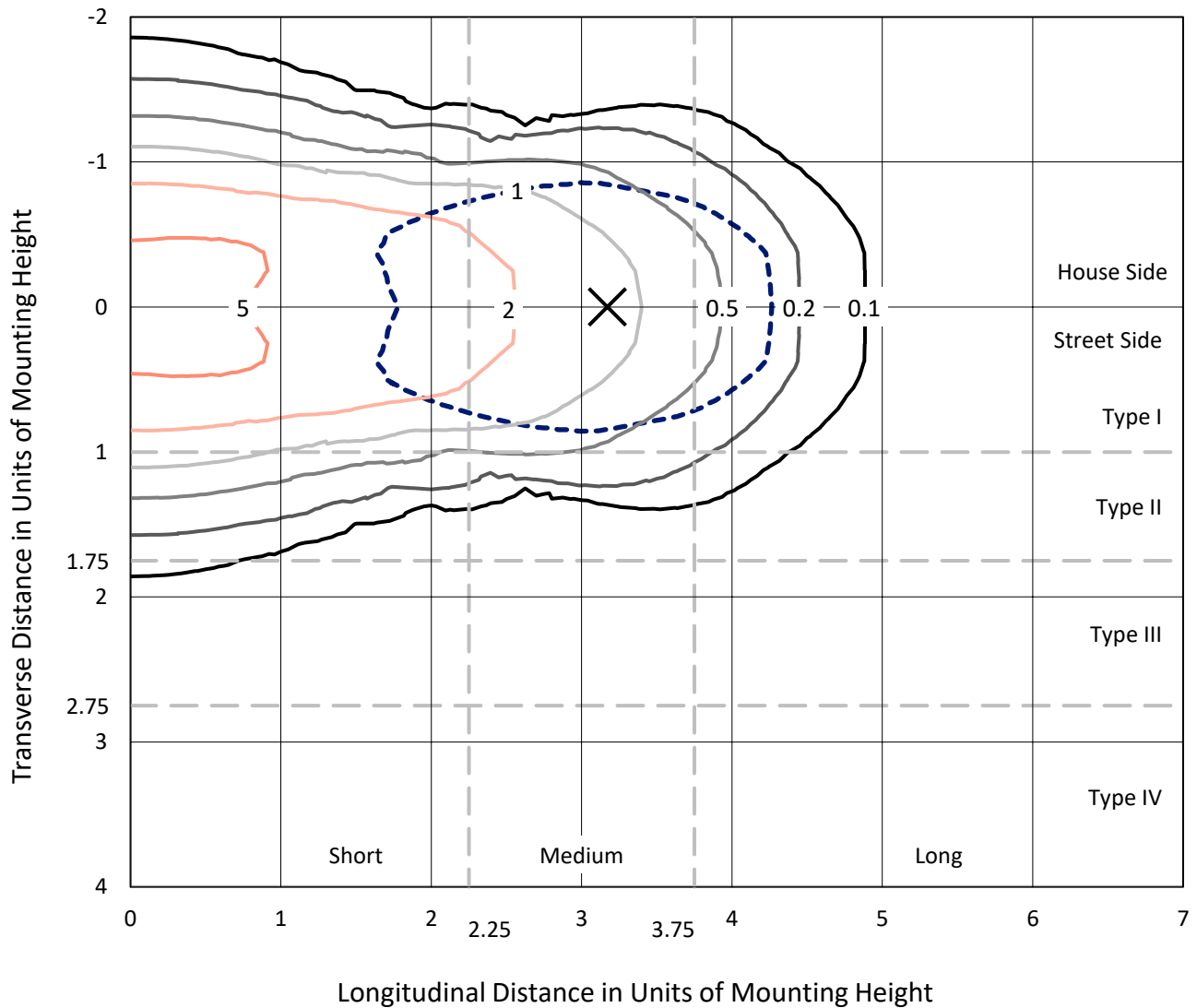
Input Watts (W): 200.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P941163  
 CATALOG NUMBER: GALN-SB4C-827-U-T1

### Iso-Footcandle Lines of Horizontal Illumination

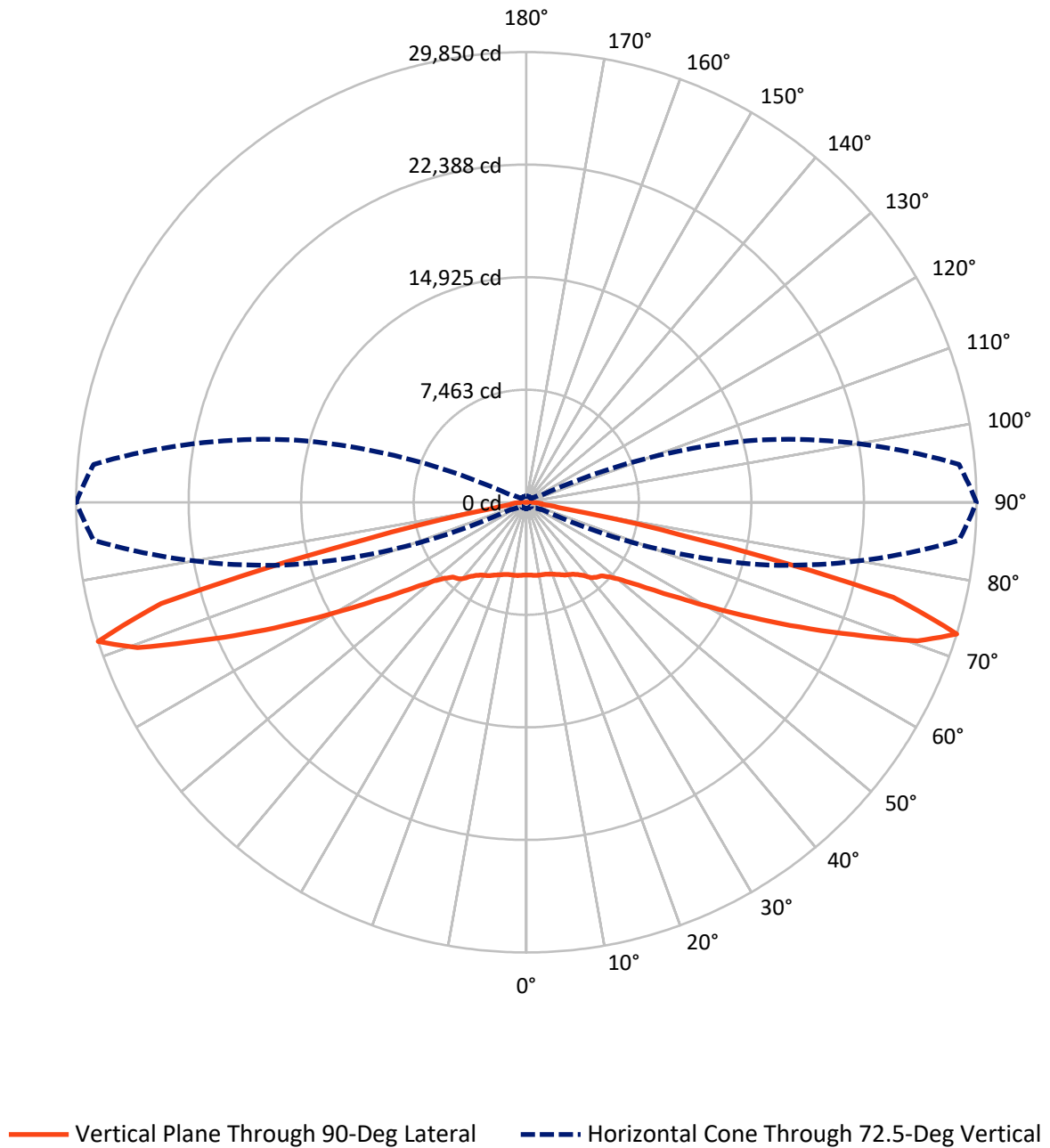
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type I - Short - N/A

REPORT NUMBER: P941163  
CATALOG NUMBER: GALN-SB4C-827-U-T1

### Luminous Intensity Polar Plot



REPORT NUMBER: P941163  
 CATALOG NUMBER: GALN-SB4C-827-U-T1

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12910.0	0.0	12910.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12910.0	0.0	12910.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25820.0	0.0	25820.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	467.8	1.8
10°-20°	1430.4	5.5
20°-30°	2385.1	9.2
30°-40°	3280.2	12.7
40°-50°	4006.0	15.5
50°-60°	4633.4	17.9
60°-70°	5524.5	21.4
70°-80°	3855.8	14.9
80°-90°	236.8	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°	25820.0	100.0
0°-180°	25820.0	100.0

**Coefficient of Utilization**



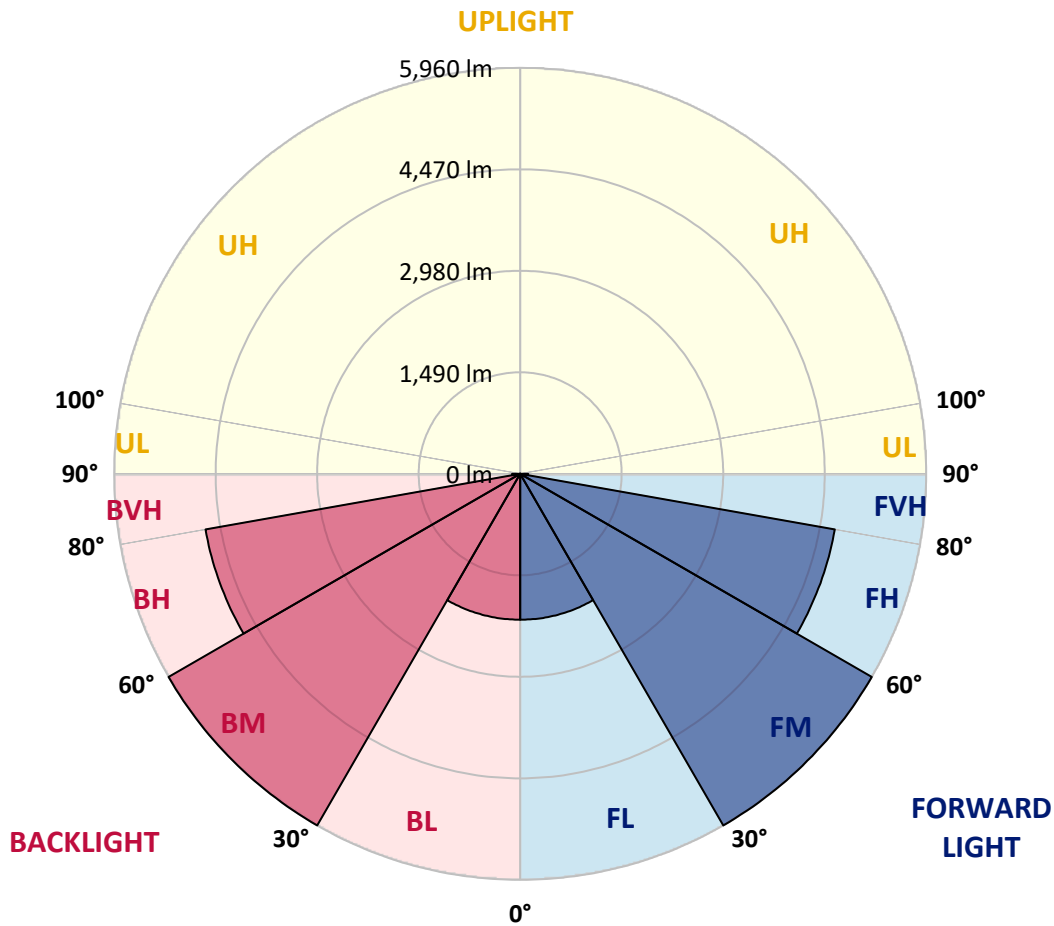
REPORT NUMBER: P941163  
 CATALOG NUMBER: GALN-SB4C-827-U-T1

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2141.6	8.3			
FM (30°-60°)	5959.8	23.1			
FH (60°-80°)	4690.2	18.2			G2/5000
FVH (80°-90°)	118.4	0.5			G2/225
BL (0°-30°)	2141.6	8.3	B3/2500		
BM (30°-60°)	5959.8	23.1	B4/8500		
BH (60°-80°)	4690.2	18.2	B4/5000		G4/5000
BVH (80°-90°)	118.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type I Short



REPORT NUMBER: P941163  
 CATALOG NUMBER: GALN-SB4C-827-U-T1

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4824.7	4824.7	4824.7	4824.7	4824.7	4824.7	4824.7	4824.7	4824.7	4824.7
2.5°	4828.9	4834.3	4834.3	4830.2	4839.8	4831.6	4831.6	4827.5	4831.6	4827.5
5°	4853.6	4860.4	4863.2	4861.8	4874.1	4867.3	4867.3	4861.8	4863.2	4859.0
7.5°	4900.2	4909.8	4915.3	4922.2	4940.0	4931.8	4926.3	4909.8	4903.0	4892.0
10°	4915.3	4926.3	4944.1	4979.8	5021.0	5022.3	5005.9	4964.7	4933.1	4908.4
12.5°	4868.7	4883.7	4920.8	4993.5	5085.5	5122.5	5096.4	5027.8	4966.1	4922.2
15°	4809.6	4826.1	4882.4	4992.2	5128.0	5214.5	5211.7	5121.1	5022.3	4953.7
17.5°	4717.7	4734.2	4815.1	4968.8	5160.9	5303.6	5342.1	5248.8	5110.2	5018.2
20°	4551.7	4566.8	4679.3	4894.7	5171.9	5398.3	5498.5	5416.2	5243.3	5118.4
22.5°	4336.2	4359.6	4491.3	4767.1	5145.8	5497.1	5676.9	5620.6	5398.3	5225.4
25°	4105.7	4130.4	4284.1	4610.7	5078.6	5568.5	5888.2	5852.5	5574.0	5358.5
27.5°	3906.7	3932.8	4100.2	4455.6	4974.3	5595.9	6096.8	6114.6	5786.7	5505.4
30°	3750.3	3775.0	3953.4	4330.7	4839.8	5568.5	6279.3	6402.8	6003.5	5633.0
32.5°	3578.8	3610.3	3798.3	4178.4	4680.7	5502.6	6438.5	6714.3	6254.6	5770.2
35°	3361.9	3390.8	3588.4	3969.8	4472.1	5397.0	6571.6	7060.1	6614.1	5978.8
37.5°	3098.5	3125.9	3322.2	3709.1	4264.9	5248.8	6673.1	7449.8	7042.3	6279.3
40°	2833.6	2859.7	3043.6	3418.2	4016.5	5059.4	6708.8	7831.3	7533.5	6692.3
42.5°	2590.8	2614.1	2782.9	3131.4	3737.9	4817.9	6662.1	8163.4	7974.0	6980.5
45°	2367.1	2387.7	2537.2	2862.5	3448.4	4524.2	6522.2	8520.1	8498.2	7186.3
47.5°	2111.9	2132.4	2287.5	2601.7	3158.9	4179.8	6284.8	8871.4	9226.8	7652.9
50°	1800.4	1818.2	1977.4	2301.2	2858.3	3813.4	5955.5	9147.2	10146.2	8359.6
52.5°	1431.2	1450.4	1605.5	1929.3	2501.6	3419.6	5521.8	9327.0	11208.3	9391.5
55°	1064.8	1078.6	1213.0	1504.0	2059.7	2970.9	4978.4	9377.8	12413.1	10802.1
57.5°	772.6	780.8	867.2	1084.1	1561.6	2409.6	4318.4	9246.0	13847.1	12610.7
60°	625.7	628.5	654.6	750.6	1085.4	1775.7	3521.1	8793.2	15403.2	14942.1
62.5°	568.1	568.1	575.0	601.0	734.1	1171.9	2556.5	7854.6	17071.8	17888.3
65°	528.3	528.3	531.1	543.4	579.1	746.5	1613.7	6326.0	18478.4	21339.5
67.5°	492.6	494.0	492.6	496.7	517.3	551.6	935.9	4369.2	19235.8	24915.5
70°	455.6	458.3	451.5	451.5	467.9	469.3	585.9	2395.9	18607.4	27912.4
72.5°	411.7	415.8	404.8	402.1	414.4	408.9	440.5	1149.9	15975.4	28807.1
75°	373.2	378.7	354.0	347.2	347.2	343.1	358.2	590.1	10368.5	23499.3
77.5°	338.9	349.9	310.1	288.2	282.7	270.3	292.3	360.9	4535.2	11032.7
80°	279.9	295.0	255.2	229.2	219.6	205.8	230.5	252.5	1348.9	2561.9
82.5°	208.6	215.4	181.1	163.3	155.1	145.5	172.9	175.6	439.1	907.0
85°	133.1	135.9	111.2	96.1	91.9	87.8	109.8	96.1	167.4	666.9
87.5°	46.7	53.5	42.5	38.4	41.2	34.3	50.8	28.8	46.7	470.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

4824.7  
4827.5  
4859.0  
4892.0  
4904.3  
4915.3  
4942.8  
5003.1  
5095.1  
5193.9  
5314.6  
5458.7  
5565.7  
5685.1  
5884.1  
6153.1  
6557.9  
6807.6  
6953.1  
7383.9  
8022.0  
8975.7  
10282.1  
11956.2  
14117.4  
16783.7  
19942.5  
23407.4  
27515.8  
29850.0  
25135.0  
10803.5  
2453.5  
1025.1  
968.8  
583.2  
0.0

OF REPORT)