

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: P944223

Luminaire Tested: **GALN-SB9A-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944223
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-SB9A-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35147 lumens
Efficiency: N/A
Efficacy: 137.6 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

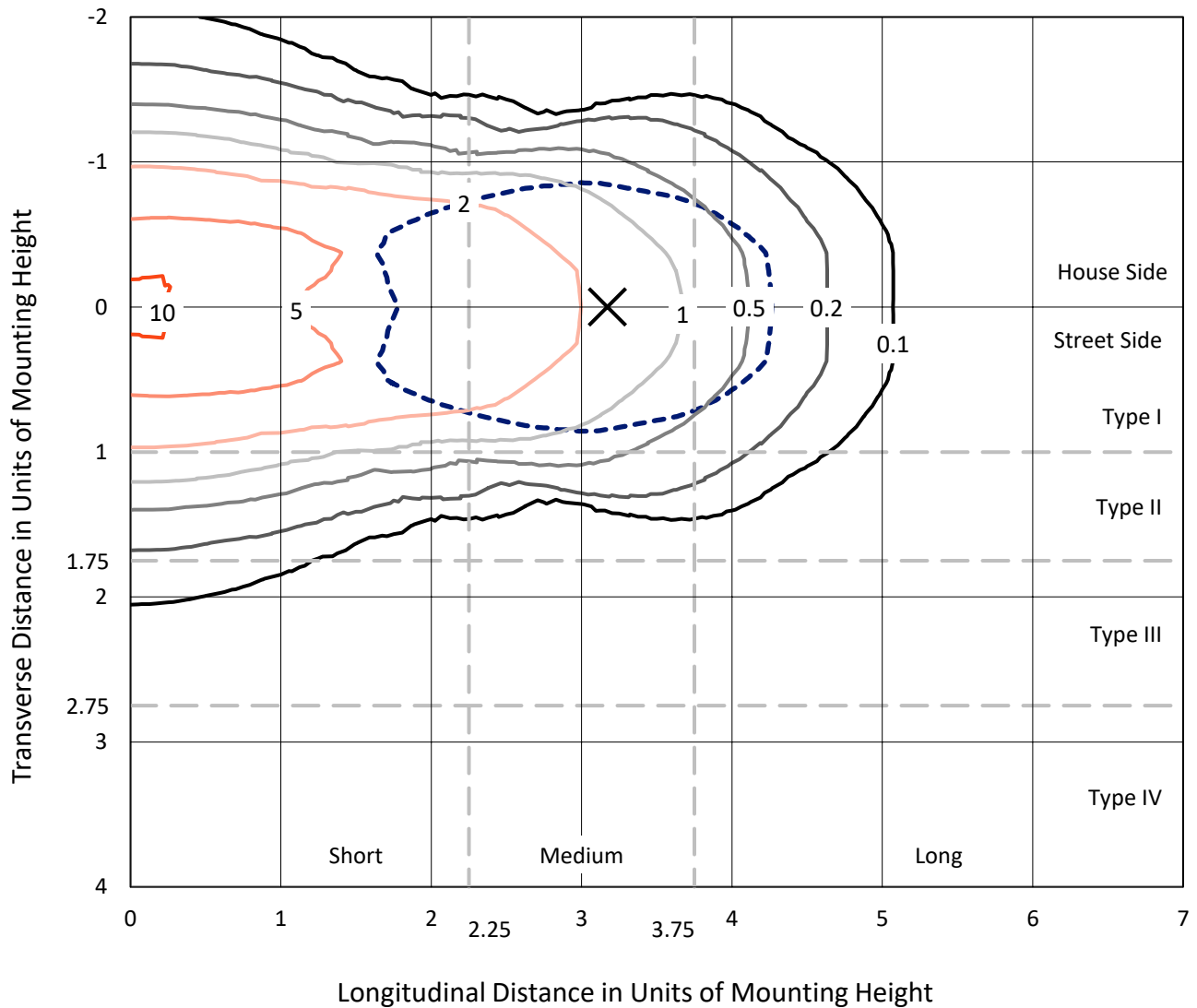
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

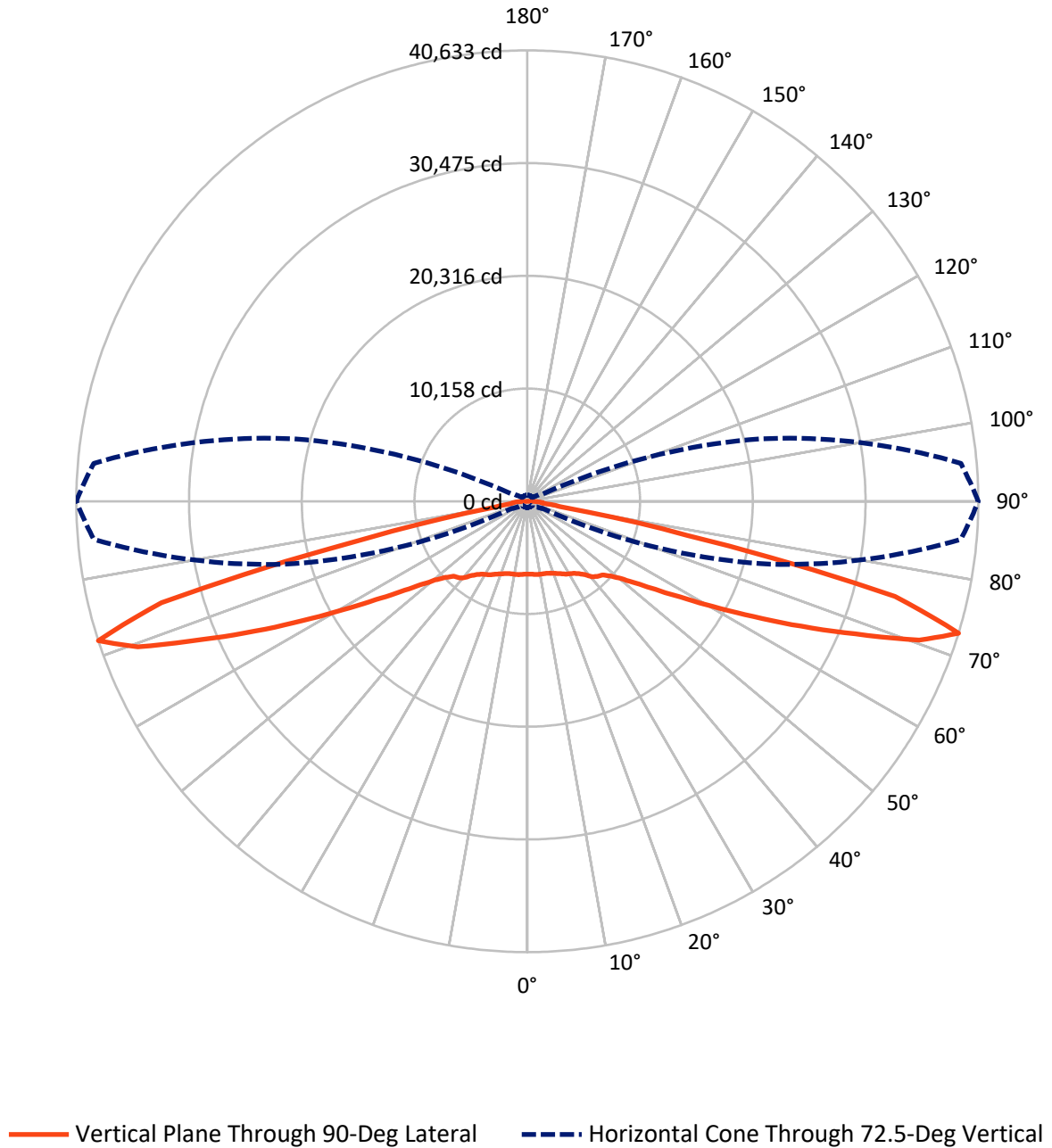
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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	17573.5	0.0	17573.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17573.5	0.0	17573.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	35147.0	0.0	35147.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	636.8	1.8
10°-20°	1947.1	5.5
20°-30°	3246.6	9.2
30°-40°	4465.1	12.7
40°-50°	5453.1	15.5
50°-60°	6307.1	17.9
60°-70°	7520.2	21.4
70°-80°	5248.6	14.9
80°-90°	322.4	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°	35147.0	100.0
0°-180°	35147.0	100.0

Coefficient of Utilization



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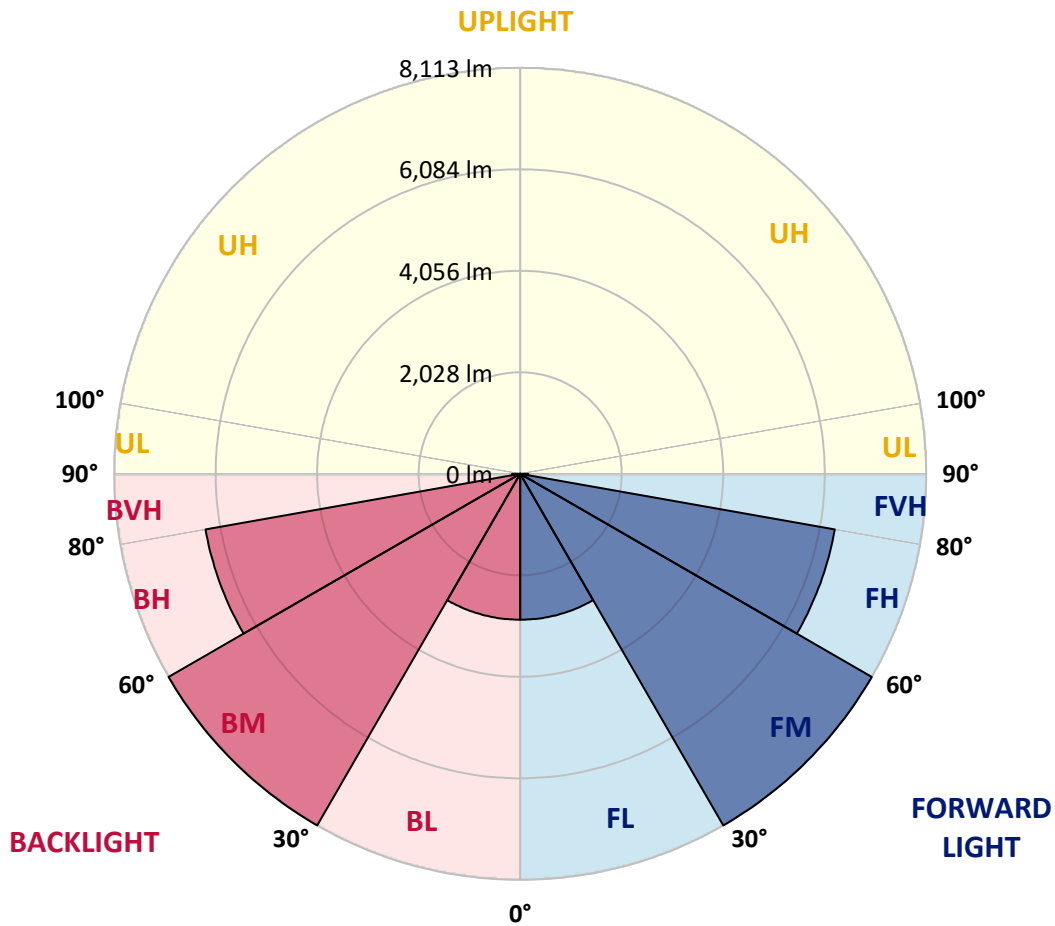
CATALOG NUMBER: GALN-SB9A-827-U-T1

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2915.3	8.3			
FM (30°-60°)	8112.7	23.1			
FH (60°-80°)	6384.4	18.2			G3/7500
FVH (80°-90°)	161.2	0.5			G2/225
BL (0°-30°)	2915.3	8.3	B4/5000		
BM (30°-60°)	8112.7	23.1	B4/8500		
BH (60°-80°)	6384.4	18.2	B5		G5
BVH (80°-90°)	161.2	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°	6567.6	6567.6	6567.6	6567.6	6567.6	6567.6	6567.6	6567.6	6567.6	6567.6
2.5°	6573.2	6580.7	6580.7	6575.1	6588.1	6576.9	6576.9	6571.3	6576.9	6571.3
5°	6606.8	6616.2	6619.9	6618.0	6634.8	6625.5	6625.5	6618.0	6619.9	6614.3
7.5°	6670.3	6683.4	6690.9	6700.2	6724.5	6713.3	6705.8	6683.4	6674.1	6659.1
10°	6690.9	6705.8	6730.1	6778.7	6834.7	6836.6	6814.2	6758.1	6715.2	6681.5
12.5°	6627.4	6647.9	6698.3	6797.3	6922.5	6972.9	6937.4	6844.0	6760.0	6700.2
15°	6547.0	6569.5	6646.0	6795.5	6980.4	7098.1	7094.3	6971.1	6836.6	6743.2
17.5°	6421.9	6444.3	6554.5	6763.7	7025.2	7219.5	7271.8	7144.8	6956.1	6831.0
20°	6195.9	6216.4	6369.6	6662.9	7040.2	7348.4	7484.7	7372.7	7137.3	6967.3
22.5°	5902.6	5934.4	6113.7	6489.1	7004.7	7482.9	7727.6	7651.0	7348.4	7113.0
25°	5588.8	5622.4	5831.6	6276.2	6913.2	7580.0	8015.2	7966.7	7587.5	7294.2
27.5°	5318.0	5353.4	5581.3	6065.1	6771.2	7617.4	8299.1	8323.4	7877.0	7494.1
30°	5105.0	5138.6	5381.5	5895.1	6588.1	7580.0	8547.6	8715.7	8172.1	7667.8
32.5°	4871.5	4914.5	5170.4	5687.8	6371.5	7490.3	8764.3	9139.7	8514.0	7854.6
35°	4576.4	4615.6	4884.6	5403.9	6087.5	7346.5	8945.4	9610.4	9003.3	8138.5
37.5°	4217.8	4255.1	4522.2	5049.0	5805.5	7144.8	9083.7	10140.9	9586.1	8547.6
40°	3857.2	3892.7	4143.0	4653.0	5467.4	6887.0	9132.2	10660.2	10254.9	9109.8
42.5°	3526.6	3558.4	3788.1	4262.6	5088.2	6558.2	9068.7	11112.2	10854.5	9502.1
45°	3222.2	3250.2	3453.8	3896.5	4694.1	6158.5	8878.2	11597.9	11568.0	9782.3
47.5°	2874.7	2902.7	3113.8	3541.6	4299.9	5689.7	8555.0	12076.1	12559.9	10417.4
50°	2450.7	2475.0	2691.7	3132.5	3890.9	5190.9	8106.7	12451.5	13811.4	11379.3
52.5°	1948.2	1974.4	2185.5	2626.3	3405.2	4654.8	7516.5	12696.2	15257.1	12784.0
55°	1449.5	1468.2	1651.2	2047.2	2803.7	4044.0	6776.8	12765.3	16897.2	14704.2
57.5°	1051.6	1062.8	1180.5	1475.7	2125.7	3280.1	5878.3	12586.0	18849.1	17166.1
60°	851.8	855.5	891.0	1021.7	1477.5	2417.1	4793.1	11969.6	20967.3	20339.7
62.5°	773.3	773.3	782.7	818.1	999.3	1595.2	3479.9	10691.9	23238.7	24350.1
65°	719.1	719.1	722.9	739.7	788.3	1016.1	2196.7	8611.1	25153.3	29047.9
67.5°	670.6	672.4	670.6	676.2	704.2	750.9	1273.9	5947.4	26184.4	33915.7
70°	620.1	623.9	614.5	614.5	637.0	638.8	797.6	3261.4	25328.9	37995.3
72.5°	560.4	566.0	551.0	547.3	564.1	556.6	599.6	1565.3	21746.3	39213.1
75°	508.1	515.5	481.9	472.6	472.6	467.0	487.5	803.2	14114.0	31988.0
77.5°	461.4	476.3	422.1	392.3	384.8	368.0	397.9	491.3	6173.5	15018.0
80°	381.1	401.6	347.4	311.9	298.9	280.2	313.8	343.7	1836.2	3487.4
82.5°	283.9	293.3	246.6	222.3	211.1	198.0	235.4	239.1	597.7	1234.7
85°	181.2	184.9	151.3	130.8	125.2	119.5	149.4	130.8	227.9	907.8
87.5°	63.5	72.8	57.9	52.3	56.0	46.7	69.1	39.2	63.5	640.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

6567.6
6571.3
6614.3
6659.1
6675.9
6690.9
6728.2
6810.4
6935.6
7070.1
7234.4
7430.6
7576.3
7738.8
8009.6
8375.7
8926.8
9266.7
9464.7
10051.2
10919.8
12218.0
13996.3
16275.1
19217.1
22846.5
27146.4
31862.9
37455.4
40632.7
34214.6
14706.1
3339.8
1395.3
1318.7
793.9
0.0

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