

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: P943713

Luminaire Tested: **GALN-SB8B-827-U-T1**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943713
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-SB8B-827-U-T1
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 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: 39169 lumens
Efficiency: N/A
Efficacy: 133.8 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

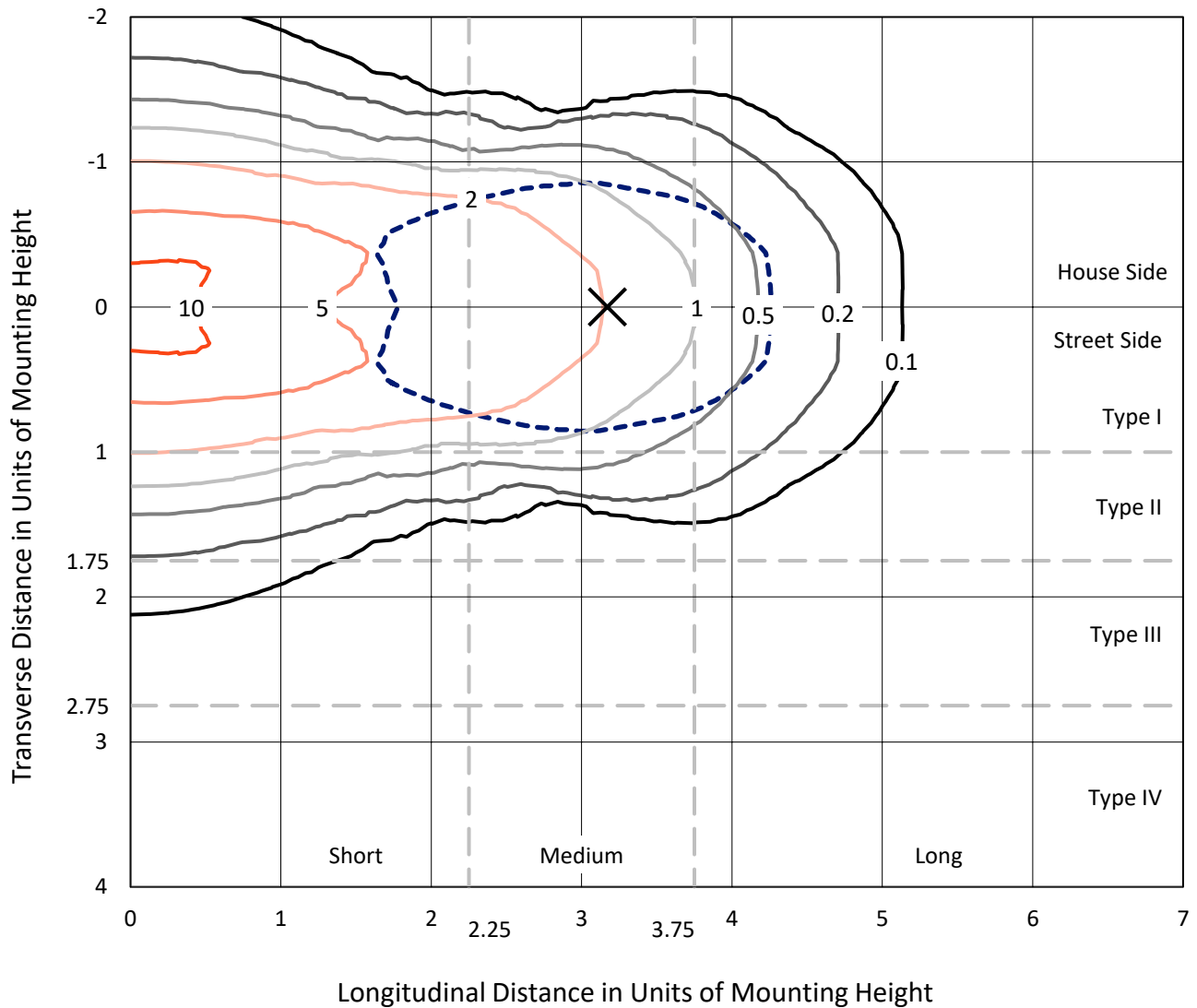
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

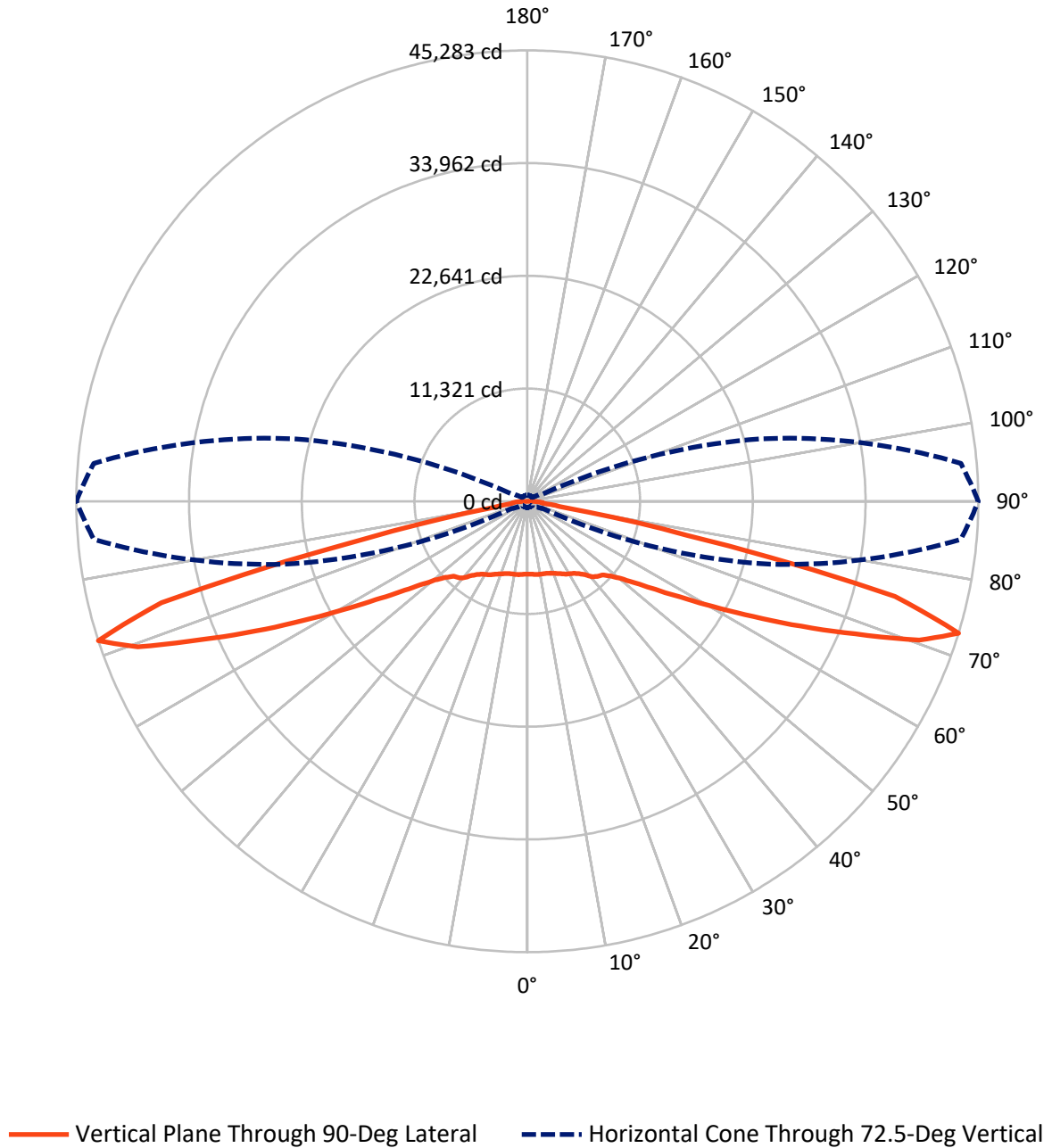
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	19584.5	0.0	19584.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19584.5	0.0	19584.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39169.0	0.0	39169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	709.7	1.8
10°-20°	2169.9	5.5
20°-30°	3618.1	9.2
30°-40°	4976.1	12.7
40°-50°	6077.1	15.5
50°-60°	7028.9	17.9
60°-70°	8380.7	21.4
70°-80°	5849.2	14.9
80°-90°	359.3	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°	39169.0	100.0
0°-180°	39169.0	100.0

Coefficient of Utilization



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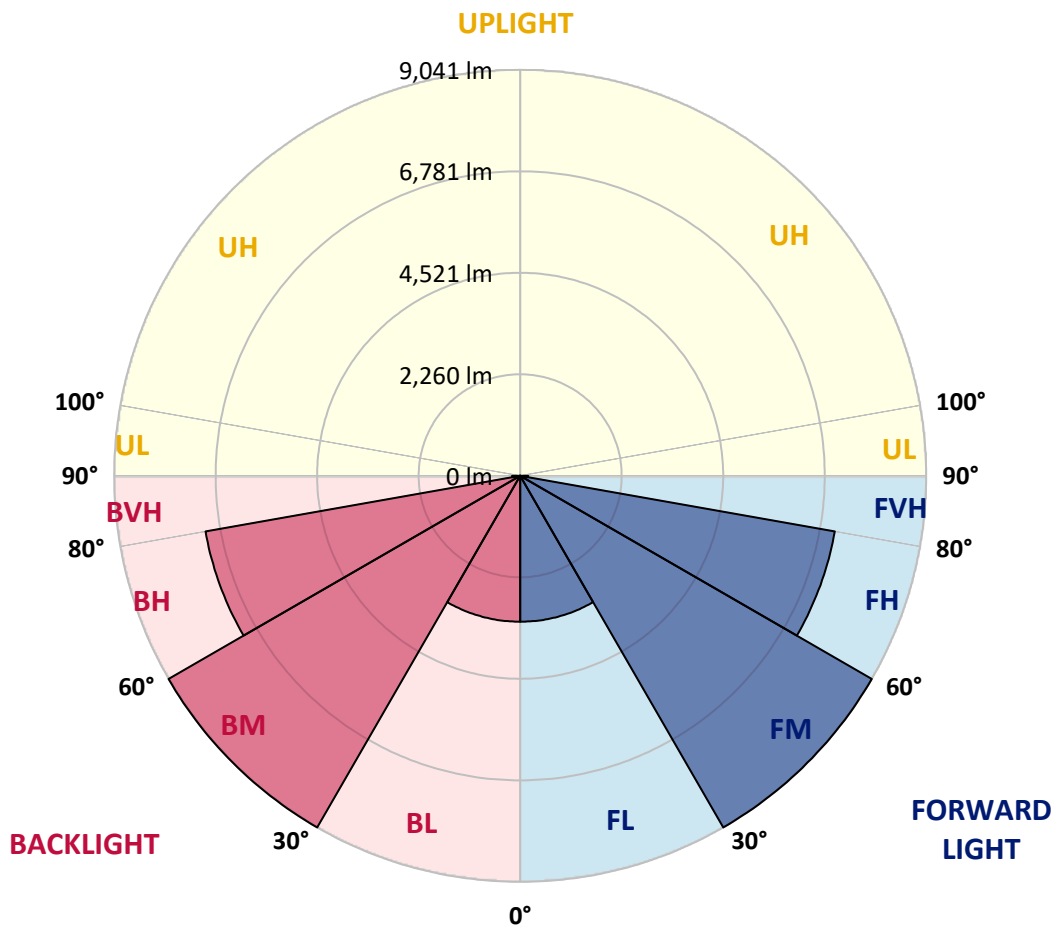
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3248.9	8.3			
FM (30°-60°)	9041.0	23.1			
FH (60°-80°)	7115.0	18.2			G3/7500
FVH (80°-90°)	179.6	0.5			G2/225
BL (0°-30°)	3248.9	8.3	B4/5000		
BM (30°-60°)	9041.0	23.1	B5		
BH (60°-80°)	7115.0	18.2	B5		G5
BVH (80°-90°)	179.6	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°	7319.1	7319.1	7319.1	7319.1	7319.1	7319.1	7319.1	7319.1	7319.1	7319.1
2.5°	7325.4	7333.7	7333.7	7327.5	7342.0	7329.5	7329.5	7323.3	7329.5	7323.3
5°	7362.9	7373.3	7377.4	7375.3	7394.1	7383.7	7383.7	7375.3	7377.4	7371.2
7.5°	7433.6	7448.2	7456.5	7466.9	7494.0	7481.5	7473.2	7448.2	7437.8	7421.1
10°	7456.5	7473.2	7500.2	7554.4	7616.8	7618.9	7593.9	7531.5	7483.6	7446.1
12.5°	7385.8	7408.7	7464.9	7575.2	7714.7	7770.9	7731.3	7627.2	7533.6	7466.9
15°	7296.2	7321.2	7406.6	7573.1	7779.2	7910.3	7906.2	7768.8	7618.9	7514.8
17.5°	7156.8	7181.8	7304.6	7537.7	7829.1	8045.6	8103.9	7962.4	7752.1	7612.7
20°	6904.9	6927.8	7098.5	7425.3	7845.8	8189.3	8341.2	8216.3	7954.0	7764.6
22.5°	6578.1	6613.5	6813.3	7231.7	7806.3	8339.2	8611.9	8526.5	8189.3	7927.0
25°	6228.3	6265.8	6499.0	6994.4	7704.2	8447.4	8932.4	8878.3	8455.7	8128.9
27.5°	5926.5	5966.1	6220.0	6759.2	7546.0	8489.0	9248.8	9275.9	8778.4	8351.6
30°	5689.2	5726.7	5997.3	6569.7	7342.0	8447.4	9525.7	9713.1	9107.3	8545.2
32.5°	5429.0	5476.9	5762.1	6338.7	7100.6	8347.5	9767.2	10185.6	9488.2	8753.4
35°	5100.1	5143.8	5443.6	6022.3	6784.2	8187.2	9969.1	10710.2	10033.6	9069.8
37.5°	4700.4	4742.0	5039.7	5626.7	6469.8	7962.4	10123.1	11301.4	10683.1	9525.7
40°	4298.6	4338.2	4617.1	5185.4	6093.0	7675.1	10177.3	11880.1	11428.4	10152.3
42.5°	3930.2	3965.6	4221.6	4750.4	5670.5	7308.7	10106.5	12383.8	12096.6	10589.4
45°	3590.9	3622.1	3849.0	4342.4	5231.2	6863.3	9894.2	12925.1	12891.8	10901.7
47.5°	3203.7	3234.9	3470.1	3946.8	4792.0	6340.8	9534.0	13458.0	13997.1	11609.5
50°	2731.1	2758.2	2999.7	3491.0	4336.1	5785.0	9034.4	13876.4	15391.8	12681.5
52.5°	2171.2	2200.3	2435.6	2926.8	3794.9	5187.5	8376.6	14149.1	17003.1	14246.9
55°	1615.4	1636.2	1840.2	2281.5	3124.6	4506.8	7552.3	14226.1	18830.8	16386.9
57.5°	1172.0	1184.5	1315.6	1644.5	2368.9	3655.4	6551.0	14026.3	21006.1	19130.5
60°	949.2	953.4	993.0	1138.7	1646.6	2693.7	5341.6	13339.3	23366.7	22667.3
62.5°	861.8	861.8	872.2	911.8	1113.7	1777.7	3878.1	11915.5	25898.0	27136.6
65°	801.4	801.4	805.6	824.3	878.5	1132.4	2448.0	9596.5	28031.7	32372.0
67.5°	747.3	749.4	747.3	753.6	784.8	836.8	1419.7	6628.0	29180.8	37796.8
70°	691.1	695.3	684.9	684.9	709.8	711.9	888.9	3634.6	28227.4	42343.2
72.5°	624.5	630.7	614.1	609.9	628.7	620.3	668.2	1744.4	24234.8	43700.4
75°	566.2	574.5	537.1	526.7	526.7	520.4	543.3	895.1	15729.1	35648.5
77.5°	514.2	530.8	470.5	437.2	428.8	410.1	443.4	547.5	6879.9	16736.6
80°	424.7	447.6	387.2	347.6	333.1	312.3	349.7	383.0	2046.3	3886.5
82.5°	316.4	326.8	274.8	247.7	235.2	220.7	262.3	266.5	666.1	1376.0
85°	201.9	206.1	168.6	145.7	139.5	133.2	166.5	145.7	254.0	1011.7
87.5°	70.8	81.2	64.5	58.3	62.5	52.0	77.0	43.7	70.8	714.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°

7319.1
7323.3
7371.2
7421.1
7439.9
7456.5
7498.2
7589.8
7729.2
7879.1
8062.3
8280.9
8443.2
8624.3
8926.2
9334.2
9948.3
10327.1
10547.8
11201.5
12169.4
13616.2
15597.9
18137.6
21416.2
25460.9
30252.9
35509.1
41741.6
45282.5
38129.9
16389.0
3722.0
1555.0
1469.7
884.7
0.0

OF REPORT)