

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: P941840

Luminaire Tested: **GALN-SB5C-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941840
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
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-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33275 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

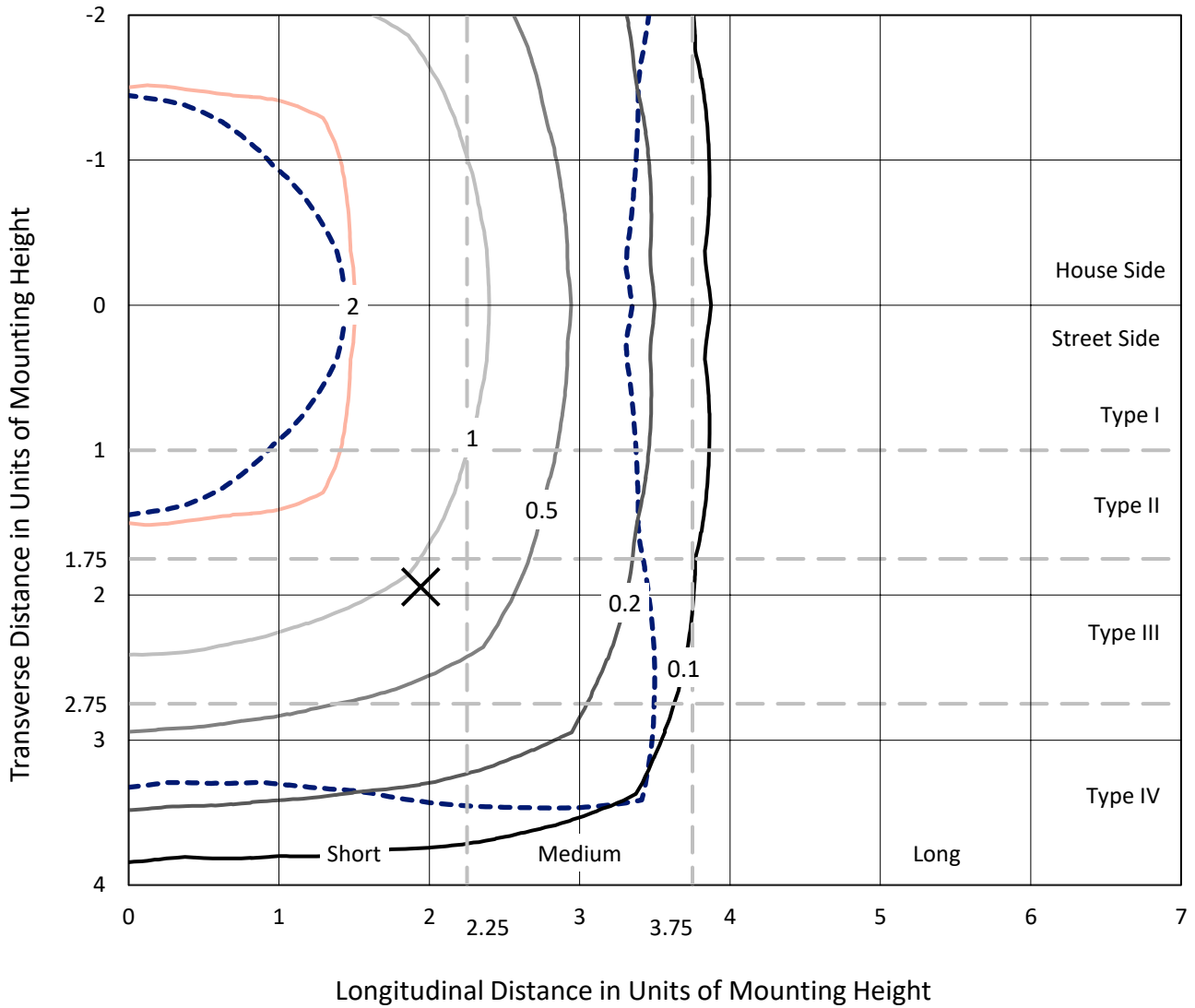
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

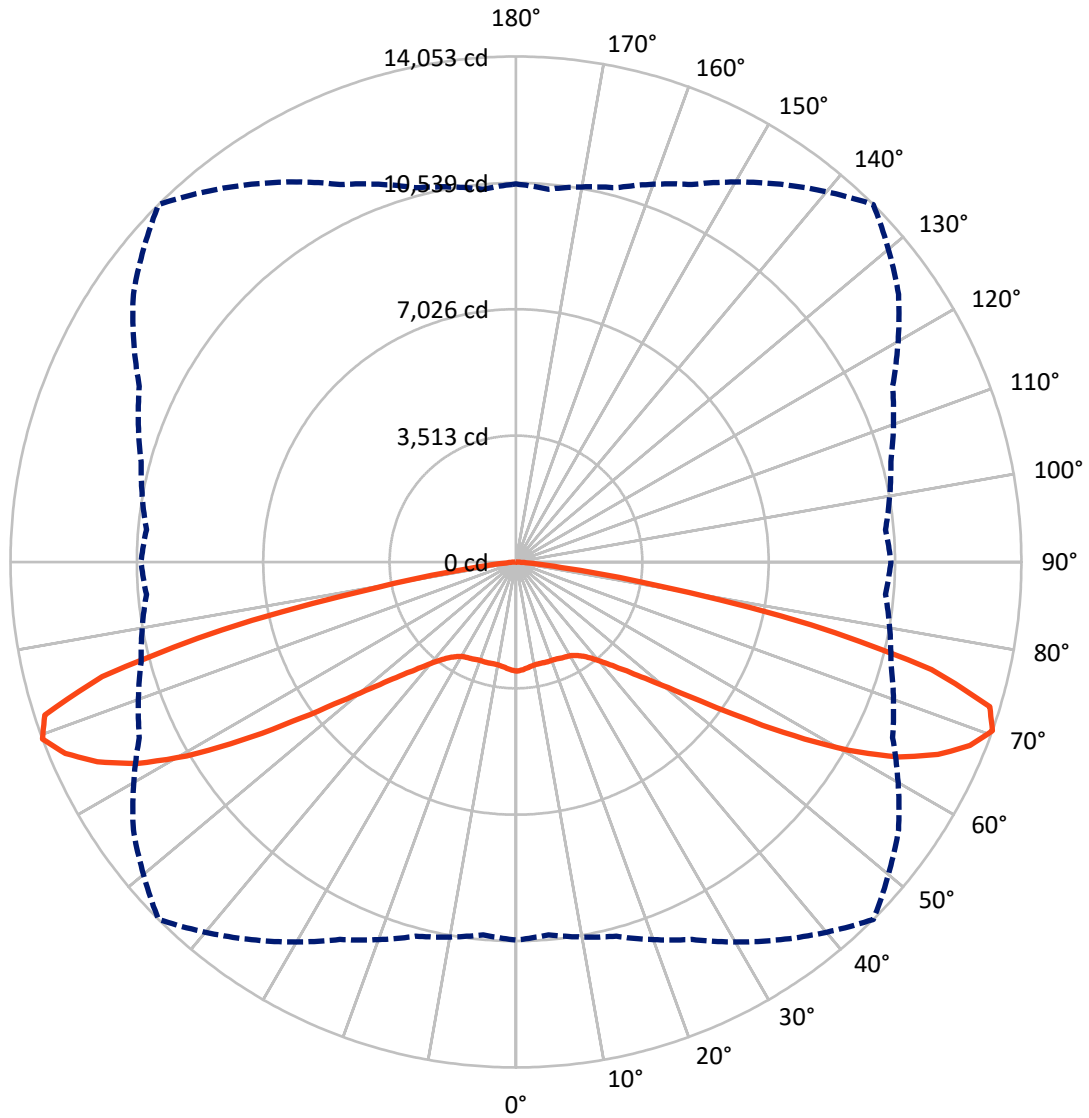
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16637.5	0.0	16637.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16637.5	0.0	16637.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33275.0	0.0	33275.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.4	0.8
10°-20°	829.1	2.5
20°-30°	1379.7	4.1
30°-40°	2086.5	6.3
40°-50°	3467.3	10.4
50°-60°	6542.7	19.7
60°-70°	11047.6	33.2
70°-80°	7259.4	21.8
80°-90°	380.3	1.1
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°	33275.0	100.0
0°-180°	33275.0	100.0

Coefficient of Utilization



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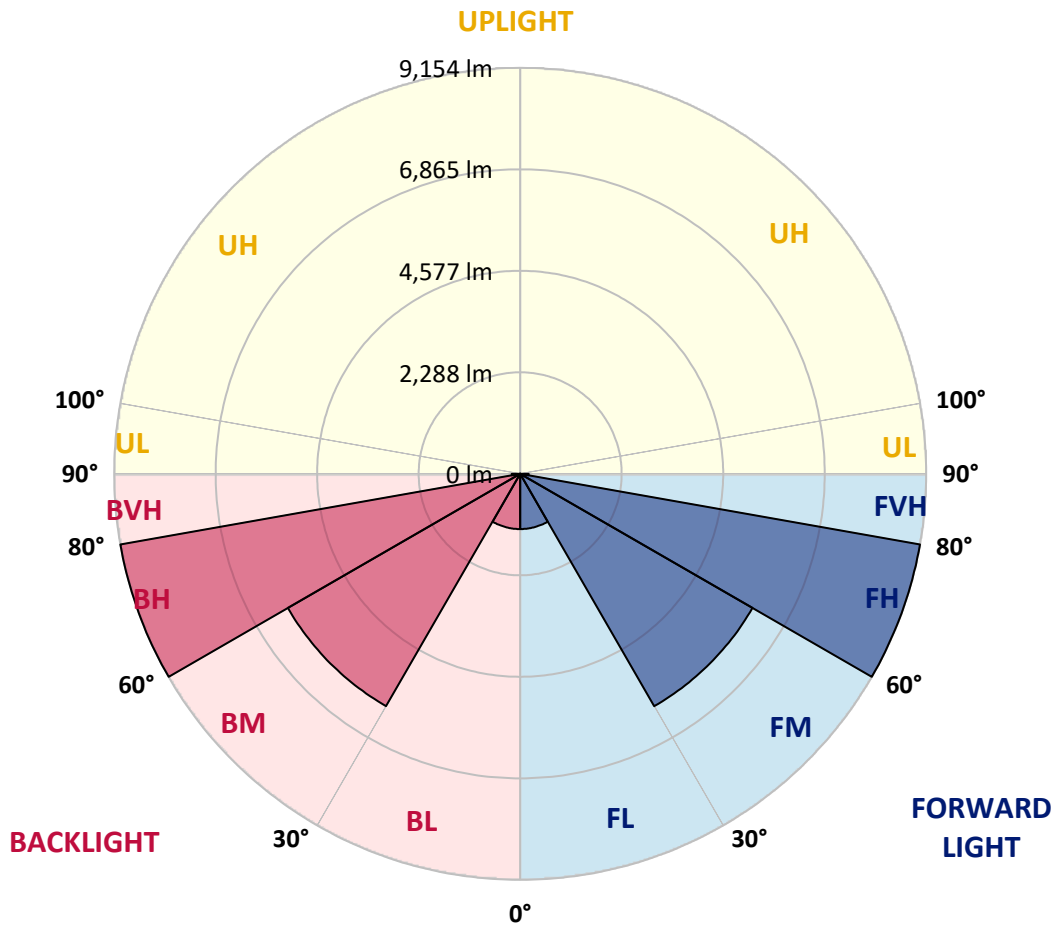
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1245.6	3.7			
FM (30°-60°)	6048.3	18.2			
FH (60°-80°)	9153.5	27.5			G4/12000
FVH (80°-90°)	190.2	0.6			G2/225
BL (0°-30°)	1245.6	3.7	B3/2500		
BM (30°-60°)	6048.3	18.2	B4/8500		
BH (60°-80°)	9153.5	27.5	B5		G4/12000
BVH (80°-90°)	190.2	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3	3035.3
2.5°	3016.3	3025.0	3021.5	3014.6	3014.6	3009.4	3014.6	3018.1	3023.2	3026.7
5°	2976.5	2983.5	2981.7	2976.5	2978.3	2973.1	2976.5	2981.7	2985.2	2986.9
7.5°	2942.0	2948.9	2945.4	2936.8	2936.8	2931.6	2933.3	2938.5	2943.7	2945.4
10°	2933.3	2940.2	2929.8	2916.0	2910.8	2903.9	2905.6	2910.8	2921.2	2926.4
12.5°	2936.8	2942.0	2931.6	2910.8	2905.6	2898.7	2898.7	2903.9	2917.7	2924.7
15°	2947.1	2952.3	2936.8	2914.3	2909.1	2903.9	2902.2	2909.1	2924.7	2936.8
17.5°	2966.2	2971.4	2947.1	2916.0	2909.1	2910.8	2909.1	2914.3	2938.5	2961.0
20°	2983.5	2986.9	2954.1	2916.0	2909.1	2910.8	2909.1	2919.5	2950.6	2981.7
22.5°	2988.7	2992.1	2961.0	2928.1	2922.9	2924.7	2922.9	2933.3	2962.7	2993.8
25°	2990.4	2995.6	2971.4	2945.4	2954.1	2957.5	2954.1	2955.8	2978.3	3005.9
27.5°	3016.3	3023.2	3000.8	2978.3	2983.5	2981.7	2986.9	2992.1	3009.4	3037.1
30°	3069.9	3075.1	3056.1	3033.6	3030.2	3018.1	3033.6	3050.9	3069.9	3094.2
32.5°	3158.1	3168.5	3144.3	3120.1	3104.5	3097.6	3109.7	3139.1	3165.1	3191.0
35°	3305.2	3312.1	3289.6	3244.6	3217.0	3217.0	3227.3	3265.4	3306.9	3339.7
37.5°	3512.7	3521.4	3481.6	3428.0	3386.4	3386.4	3400.3	3440.1	3502.3	3549.0
40°	3765.2	3777.3	3727.2	3671.8	3632.0	3625.1	3642.4	3687.4	3746.2	3805.0
42.5°	4069.6	4083.5	4017.7	3969.3	3938.2	3938.2	3946.8	3988.3	4041.9	4114.6
45°	4458.8	4483.0	4393.0	4344.6	4315.2	4322.1	4327.3	4363.6	4412.1	4495.1
47.5°	4922.3	4946.5	4851.4	4801.2	4796.0	4828.9	4808.1	4834.1	4860.0	4955.1
50°	5448.1	5489.6	5423.9	5420.4	5430.8	5491.3	5442.9	5456.7	5427.3	5487.8
52.5°	6091.5	6152.0	6139.9	6160.6	6276.5	6401.0	6290.4	6241.9	6131.2	6150.3
55°	6871.5	6963.1	6980.4	7105.0	7367.9	7622.1	7386.9	7191.4	6956.2	6913.0
57.5°	7758.7	7831.4	7914.4	8168.6	8659.8	9111.2	8659.8	8227.4	7857.3	7769.1
60°	8713.4	8803.4	8882.9	9258.2	9988.1	10622.9	9974.3	9287.7	8798.2	8678.9
62.5°	9739.1	9854.9	9910.3	10327.1	11178.0	11935.6	11190.2	10358.2	9815.2	9687.2
65°	10723.2	10818.3	10880.6	11325.1	12137.9	12897.2	12193.3	11373.5	10814.8	10647.1
67.5°	11181.5	11233.4	11385.6	11888.9	12746.7	13613.2	12892.0	11942.5	11318.1	11024.1
70°	10510.4	10404.9	10771.6	11577.6	12819.4	14052.5	12985.4	11553.4	10788.9	10311.5
72.5°	8121.9	7940.3	8576.8	9955.3	11989.2	13772.4	12072.2	10033.1	8972.9	8004.3
75°	4419.0	4213.2	5091.8	6835.2	9560.9	11937.3	9780.6	7030.6	5669.4	4386.1
77.5°	1247.0	1169.2	1878.3	3306.9	5750.7	8381.4	5972.1	3379.5	2227.7	1321.4
80°	382.2	370.1	501.6	996.2	2442.1	4014.3	2347.0	1008.3	638.2	403.0
82.5°	226.6	207.5	249.1	363.2	622.6	1260.8	605.3	378.8	304.4	204.1
85°	129.7	121.1	147.0	176.4	209.3	268.1	174.7	179.9	162.6	109.0
87.5°	53.6	48.4	57.1	55.3	48.4	62.3	46.7	55.3	65.7	43.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3035.3
3025.0
2986.9
2945.4
2926.4
2926.4
2938.5
2961.0
2983.5
2993.8
3004.2
3030.2
3089.0
3180.6
3327.6
3531.7
3786.0
4109.4
4491.6
4927.5
5451.5
6086.3
6845.5
7706.8
8575.1
9583.4
10564.1
11027.6
10425.7
8244.7
4671.5
1468.4
425.5
221.4
114.1
39.8
0.0

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