

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: P943540

Luminaire Tested: **GALN-SB8A-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943540
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-SB8A-827-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31904 lumens
Efficiency: N/A
Efficacy: 140.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

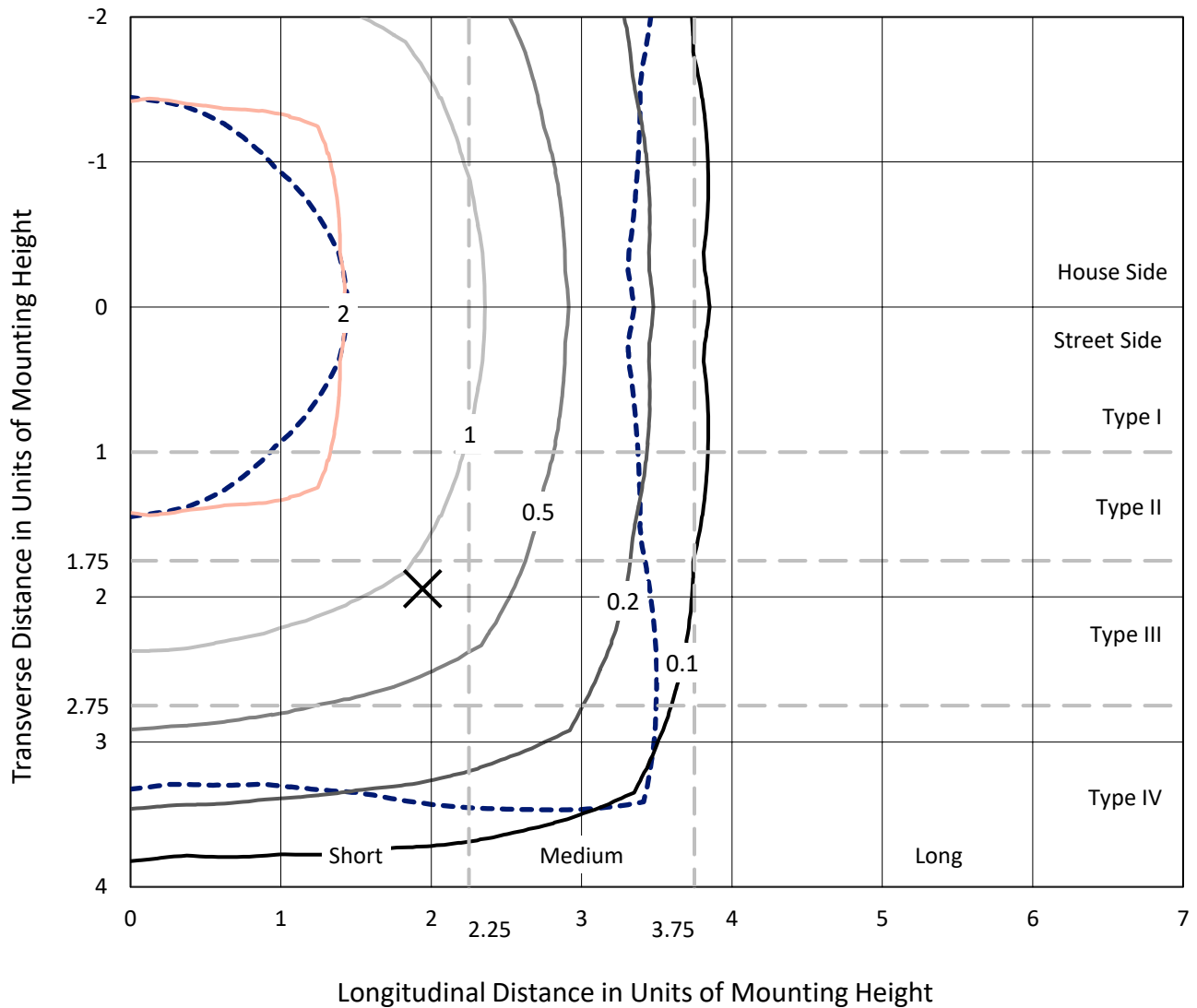
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

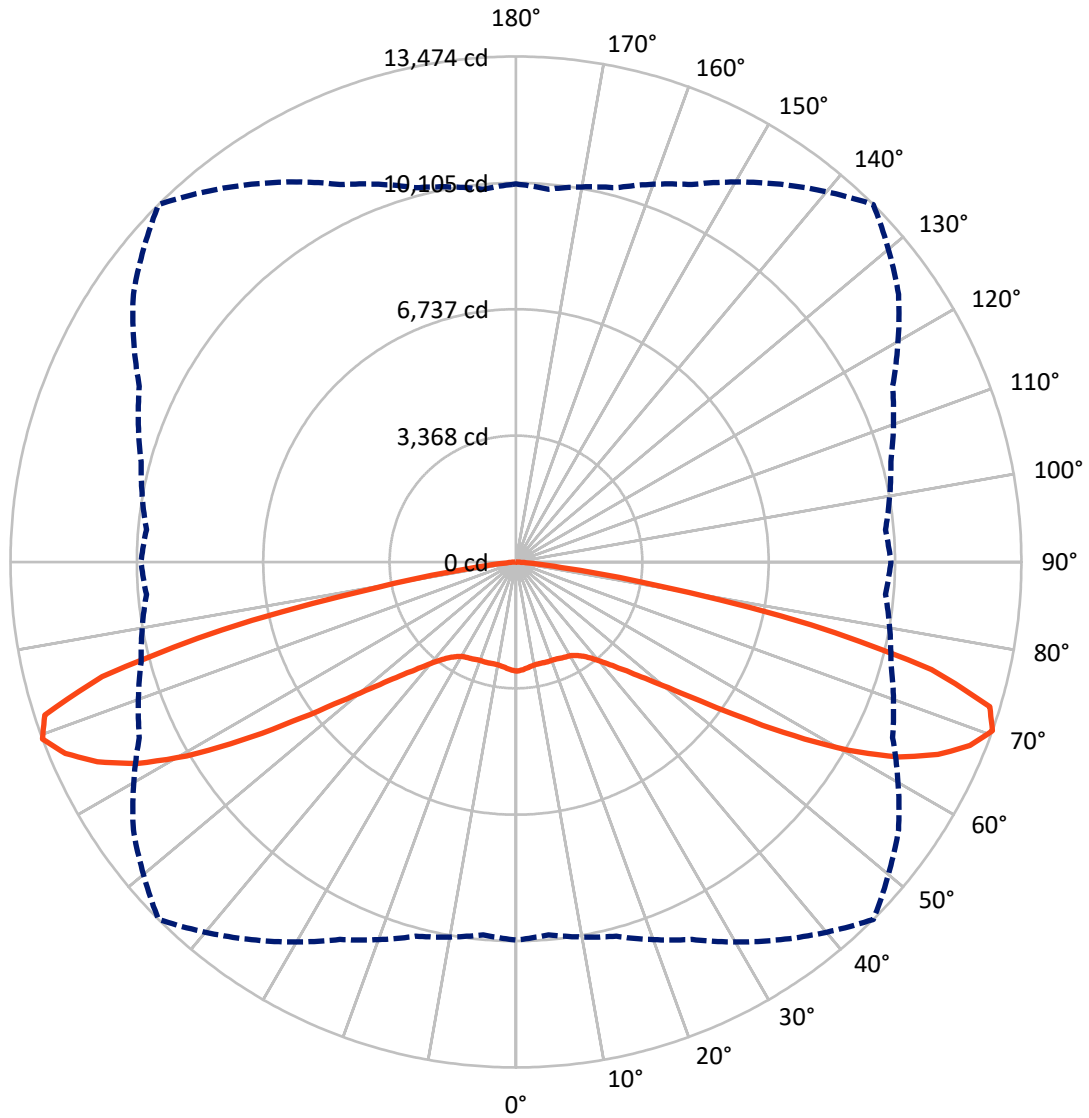
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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	15952.0	0.0	15952.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15952.0	0.0	15952.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31904.0	0.0	31904.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.7	0.8
10°-20°	794.9	2.5
20°-30°	1322.9	4.1
30°-40°	2000.6	6.3
40°-50°	3324.4	10.4
50°-60°	6273.1	19.7
60°-70°	10592.4	33.2
70°-80°	6960.3	21.8
80°-90°	364.7	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°	31904.0	100.0
0°-180°	31904.0	100.0

Coefficient of Utilization



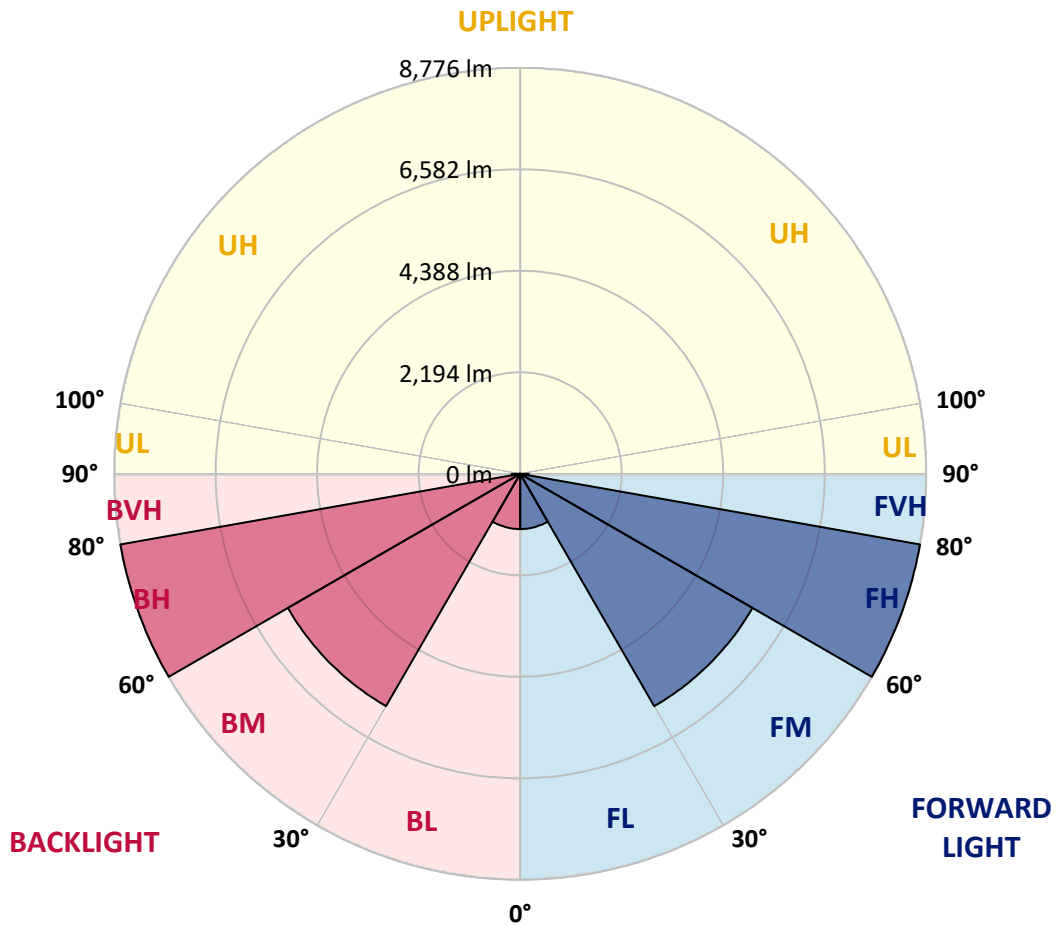
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1194.2	3.7			
FM (30°-60°)	5799.1	18.2			
FH (60°-80°)	8776.4	27.5			G4/12000
FVH (80°-90°)	182.3	0.6			G2/225
BL (0°-30°)	1194.2	3.7	B3/2500		
BM (30°-60°)	5799.1	18.2	B4/8500		
BH (60°-80°)	8776.4	27.5	B5		G4/12000
BVH (80°-90°)	182.3	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°	2910.3	2910.3	2910.3	2910.3	2910.3	2910.3	2910.3	2910.3	2910.3	2910.3
2.5°	2892.0	2900.3	2897.0	2890.4	2890.4	2885.4	2890.4	2893.7	2898.7	2902.0
5°	2853.9	2860.5	2858.9	2853.9	2855.6	2850.6	2853.9	2858.9	2862.2	2863.9
7.5°	2820.7	2827.4	2824.1	2815.8	2815.8	2810.8	2812.4	2817.4	2822.4	2824.1
10°	2812.4	2819.1	2809.1	2795.9	2790.9	2784.3	2785.9	2790.9	2800.8	2805.8
12.5°	2815.8	2820.7	2810.8	2790.9	2785.9	2779.3	2779.3	2784.3	2797.5	2804.2
15°	2825.7	2830.7	2815.8	2794.2	2789.2	2784.3	2782.6	2789.2	2804.2	2815.8
17.5°	2844.0	2848.9	2825.7	2795.9	2789.2	2790.9	2789.2	2794.2	2817.4	2839.0
20°	2860.5	2863.9	2832.3	2795.9	2789.2	2790.9	2789.2	2799.2	2829.0	2858.9
22.5°	2865.5	2868.8	2839.0	2807.5	2802.5	2804.2	2802.5	2812.4	2840.6	2870.5
25°	2867.2	2872.1	2848.9	2824.1	2832.3	2835.7	2832.3	2834.0	2855.6	2882.1
27.5°	2892.0	2898.7	2877.1	2855.6	2860.5	2858.9	2863.9	2868.8	2885.4	2911.9
30°	2943.5	2948.4	2930.2	2908.6	2905.3	2893.7	2908.6	2925.2	2943.5	2966.7
32.5°	3028.0	3038.0	3014.8	2991.5	2976.6	2970.0	2981.6	3009.8	3034.7	3059.5
35°	3169.0	3175.6	3154.1	3110.9	3084.4	3084.4	3094.4	3130.8	3170.6	3202.1
37.5°	3368.0	3376.3	3338.1	3286.7	3246.9	3246.9	3260.2	3298.3	3358.0	3402.8
40°	3610.1	3621.7	3573.6	3520.5	3482.4	3475.8	3492.3	3535.5	3591.8	3648.2
42.5°	3901.9	3915.2	3852.2	3805.8	3775.9	3775.9	3784.2	3824.0	3875.4	3945.1
45°	4275.1	4298.3	4212.0	4165.6	4137.4	4144.0	4149.0	4183.8	4230.3	4309.9
47.5°	4719.5	4742.7	4651.5	4603.4	4598.4	4629.9	4610.0	4634.9	4659.8	4751.0
50°	5223.6	5263.4	5200.4	5197.1	5207.0	5265.0	5218.6	5231.9	5203.7	5261.7
52.5°	5840.5	5898.5	5886.9	5906.8	6017.9	6137.3	6031.2	5984.7	5878.6	5896.9
55°	6588.4	6676.2	6692.8	6812.2	7064.3	7308.1	7082.5	6895.1	6669.6	6628.2
57.5°	7439.1	7508.7	7588.3	7832.1	8303.0	8735.8	8303.0	7888.5	7533.6	7449.0
60°	8354.4	8440.7	8516.9	8876.8	9576.6	10185.2	9563.3	8905.0	8435.7	8321.3
62.5°	9337.8	9448.9	9502.0	9901.6	10717.5	11443.8	10729.1	9931.5	9410.8	9288.0
65°	10281.4	10372.6	10432.3	10858.4	11637.8	12365.8	11690.9	10904.9	10369.2	10208.4
67.5°	10720.8	10770.5	10916.5	11399.0	12221.5	13052.3	12360.8	11450.4	10851.8	10569.9
70°	10077.4	9976.2	10327.8	11100.5	12291.2	13473.6	12450.4	11077.3	10344.4	9886.7
72.5°	7787.3	7613.2	8223.4	9545.1	11495.2	13204.9	11574.8	9619.7	8603.2	7674.5
75°	4236.9	4039.6	4882.0	6553.5	9167.0	11445.5	9377.6	6740.9	5435.9	4205.4
77.5°	1195.6	1121.0	1800.9	3170.6	5513.8	8036.0	5726.1	3240.3	2135.9	1266.9
80°	366.5	354.9	480.9	955.2	2341.5	3848.9	2250.3	966.8	611.9	386.4
82.5°	217.2	199.0	238.8	348.2	597.0	1208.9	580.4	363.2	291.9	195.7
85°	124.4	116.1	141.0	169.1	200.7	257.0	167.5	172.5	155.9	104.5
87.5°	51.4	46.4	54.7	53.1	46.4	59.7	44.8	53.1	63.0	41.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2910.3
2900.3
2863.9
2824.1
2805.8
2805.8
2817.4
2839.0
2860.5
2870.5
2880.4
2905.3
2961.7
3049.6
3190.5
3386.2
3630.0
3940.1
4306.6
4724.4
5226.9
5835.5
6563.5
7389.3
8221.8
9188.5
10128.8
10573.2
9996.1
7905.0
4479.0
1407.9
407.9
212.3
109.4
38.1
0.0

OF REPORT)