

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: P943470

Luminaire Tested: **GALN-SB8A-722-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943470
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-722-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30309 lumens
Efficiency: N/A
Efficacy: 133.5 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



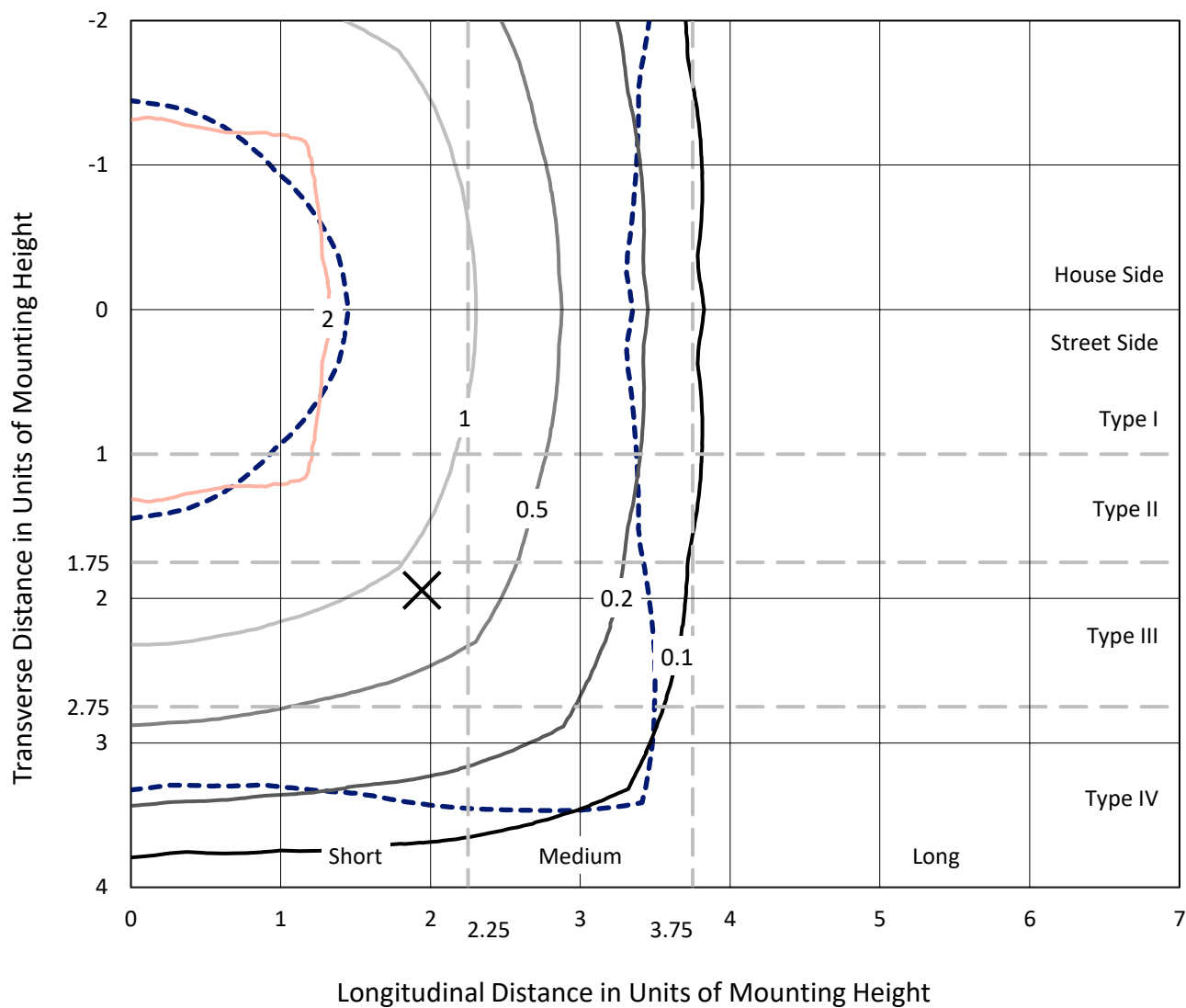
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

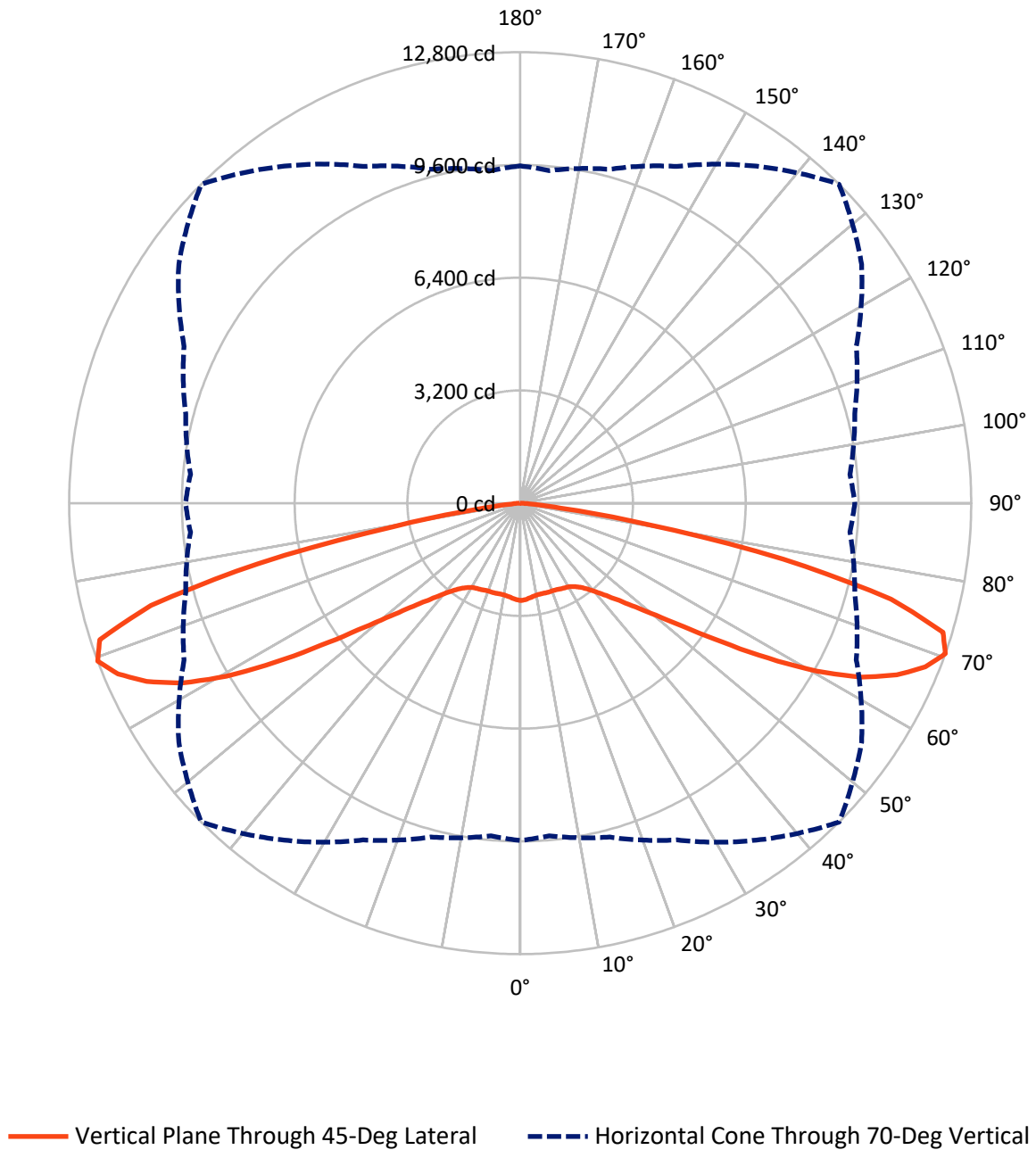


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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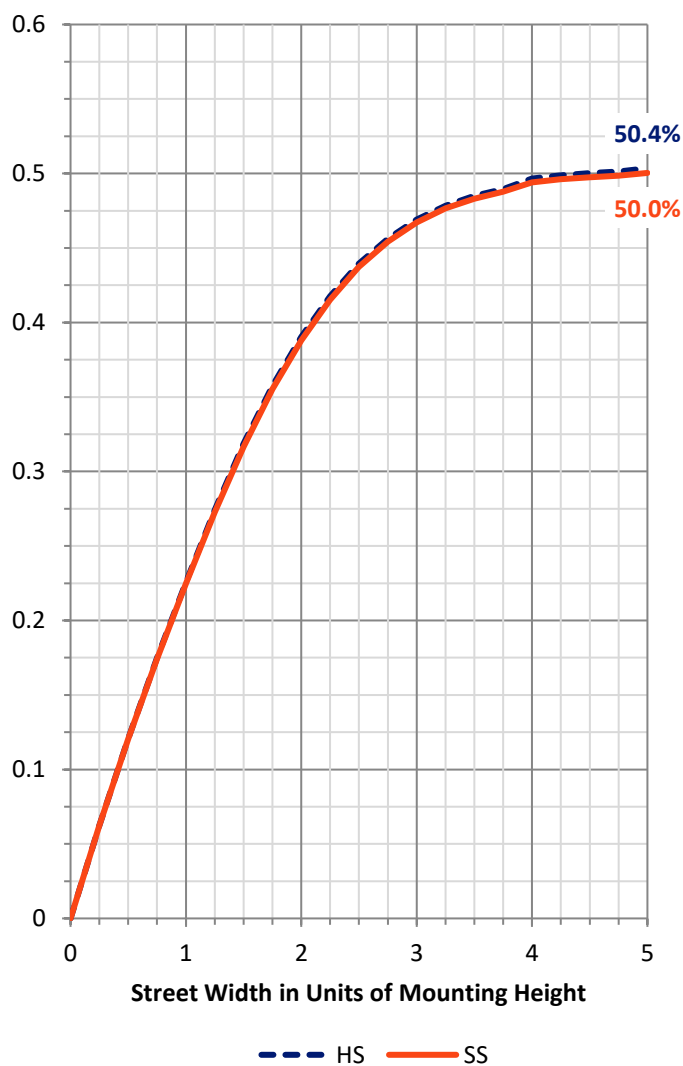
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15154.5	0.0	15154.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15154.5	0.0	15154.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30309.0	0.0	30309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.2	0.8
10°-20°	755.2	2.5
20°-30°	1256.7	4.1
30°-40°	1900.5	6.3
40°-50°	3158.2	10.4
50°-60°	5959.5	19.7
60°-70°	10062.9	33.2
70°-80°	6612.3	21.8
80°-90°	346.4	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°	30309.0	100.0
0°-180°	30309.0	100.0

Coefficient of Utilization



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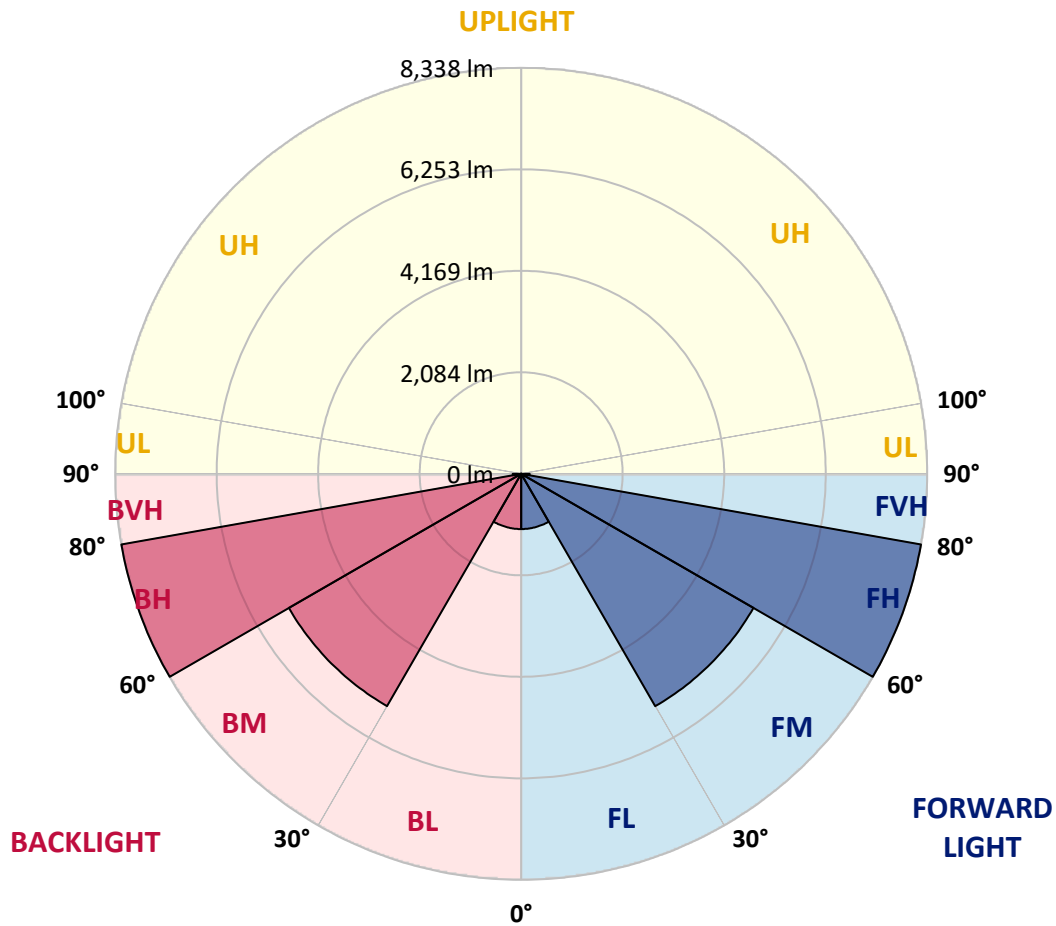
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1134.5	3.7			
FM	(30°-60°)	5509.1	18.2			
FH	(60°-80°)	8337.6	27.5			G4/12000
FVH	(80°-90°)	173.2	0.6			G2/225
BL	(0°-30°)	1134.5	3.7	B3/2500		
BM	(30°-60°)	5509.1	18.2	B4/8500		
BH	(60°-80°)	8337.6	27.5	B5		G4/12000
BVH	(80°-90°)	173.2	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°	90°
0°	2764.8	2764.8	2764.8	2764.8	2764.8	2764.8	2764.8	2764.8	2764.8	2764.8	2764.8
2.5°	2747.5	2755.3	2752.2	2745.9	2745.9	2741.2	2745.9	2749.0	2753.8	2756.9	2755.3
5°	2711.2	2717.5	2716.0	2711.2	2712.8	2708.1	2711.2	2716.0	2719.1	2720.7	2720.7
7.5°	2679.7	2686.0	2682.9	2675.0	2675.0	2670.3	2671.8	2676.6	2681.3	2682.9	2682.9
10°	2671.8	2678.1	2668.7	2656.1	2651.4	2645.1	2646.6	2651.4	2660.8	2665.5	2665.5
12.5°	2675.0	2679.7	2670.3	2651.4	2646.6	2640.3	2640.3	2645.1	2657.7	2664.0	2665.5
15°	2684.4	2689.2	2675.0	2654.5	2649.8	2645.1	2643.5	2649.8	2664.0	2675.0	2676.6
17.5°	2701.8	2706.5	2684.4	2656.1	2649.8	2651.4	2649.8	2654.5	2676.6	2697.0	2697.0
20°	2717.5	2720.7	2690.7	2656.1	2649.8	2651.4	2649.8	2659.2	2687.6	2716.0	2717.5
22.5°	2722.3	2725.4	2697.0	2667.1	2662.4	2664.0	2662.4	2671.8	2698.6	2727.0	2727.0
25°	2723.8	2728.6	2706.5	2682.9	2690.7	2693.9	2690.7	2692.3	2712.8	2738.0	2736.4
27.5°	2747.5	2753.8	2733.3	2712.8	2717.5	2716.0	2720.7	2725.4	2741.2	2766.4	2760.1
30°	2796.3	2801.0	2783.7	2763.2	2760.1	2749.0	2763.2	2779.0	2796.3	2818.4	2813.6
32.5°	2876.6	2886.1	2864.0	2842.0	2827.8	2821.5	2832.5	2859.3	2882.9	2906.6	2897.1
35°	3010.6	3016.9	2996.4	2955.4	2930.2	2930.2	2939.7	2974.3	3012.1	3042.1	3031.0
37.5°	3199.6	3207.5	3171.2	3122.4	3084.6	3084.6	3097.2	3133.4	3190.1	3232.7	3216.9
40°	3429.6	3440.6	3394.9	3344.5	3308.3	3302.0	3317.7	3358.7	3412.3	3465.8	3448.5
42.5°	3706.9	3719.5	3659.6	3615.5	3587.1	3587.1	3595.0	3632.8	3681.7	3747.8	3743.1
45°	4061.3	4083.4	4001.5	3957.4	3930.6	3936.9	3941.6	3974.7	4018.8	4094.4	4091.3
47.5°	4483.5	4505.6	4418.9	4373.3	4368.5	4398.5	4379.6	4403.2	4426.8	4513.5	4488.3
50°	4962.4	5000.3	4940.4	4937.2	4946.7	5001.8	4957.7	4970.3	4943.5	4998.7	4965.6
52.5°	5548.5	5603.6	5592.6	5611.5	5717.1	5830.5	5729.7	5685.5	5584.7	5602.0	5543.8
55°	6259.0	6342.5	6358.2	6471.7	6711.1	6942.7	6728.4	6550.4	6336.2	6296.8	6235.4
57.5°	7067.2	7133.3	7208.9	7440.5	7887.9	8299.1	7887.9	7494.1	7156.9	7076.6	7019.9
60°	7936.8	8018.7	8091.1	8433.0	9097.8	9676.0	9085.2	8459.8	8014.0	7905.3	7810.7
62.5°	8871.0	8976.5	9026.9	9406.6	10181.7	10871.7	10192.7	9434.9	8940.3	8823.7	8729.2
65°	9767.4	9854.0	9910.7	10315.6	11056.0	11747.6	11106.4	10359.7	9850.8	9698.0	9622.4
67.5°	10184.8	10232.1	10370.7	10829.2	11610.5	12399.8	11742.9	10878.0	10309.3	10041.5	10044.6
70°	9573.6	9477.5	9811.5	10545.6	11676.7	12800.0	11827.9	10523.5	9827.2	9392.4	9496.4
72.5°	7398.0	7232.6	7812.3	9067.9	10920.5	12544.7	10996.1	9138.8	8173.1	7290.9	7509.8
75°	4025.1	3837.6	4637.9	6225.9	8708.7	10873.3	8908.8	6403.9	5164.1	3995.2	4255.1
77.5°	1135.8	1065.0	1710.9	3012.1	5238.1	7634.3	5439.8	3078.3	2029.1	1203.6	1337.5
80°	348.2	337.1	456.9	907.4	2224.4	3656.5	2137.8	918.4	581.3	367.1	387.5
82.5°	206.4	189.0	226.9	330.8	567.1	1148.5	551.4	345.0	277.3	185.9	201.6
85°	118.2	110.3	133.9	160.7	190.6	244.2	159.1	163.8	148.1	99.2	104.0
87.5°	48.8	44.1	52.0	50.4	44.1	56.7	42.5	50.4	59.9	39.4	36.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)