

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: P941410

Luminaire Tested: **GALN-SB4D-940-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941410
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-SB4D-940-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29893 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

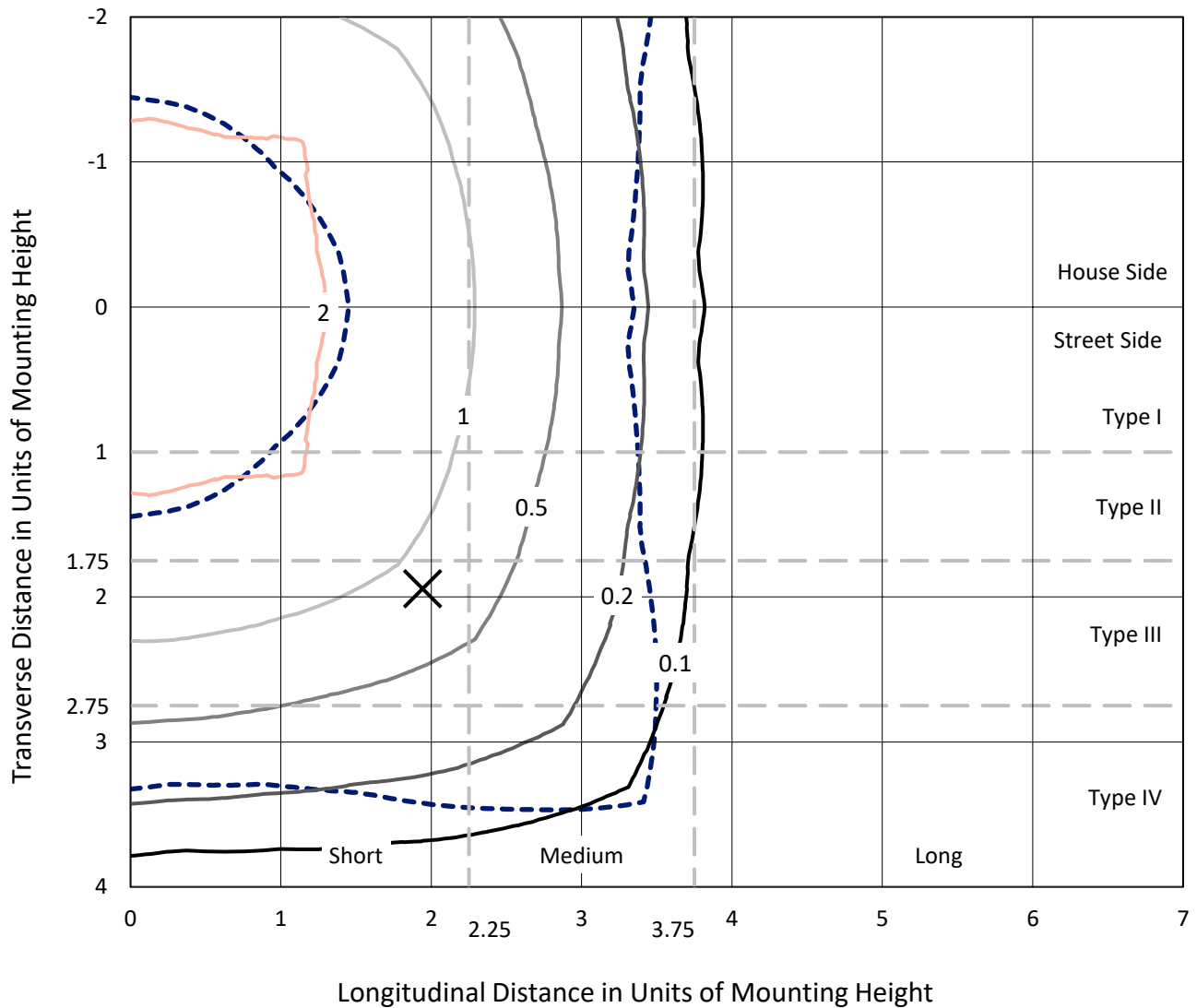
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

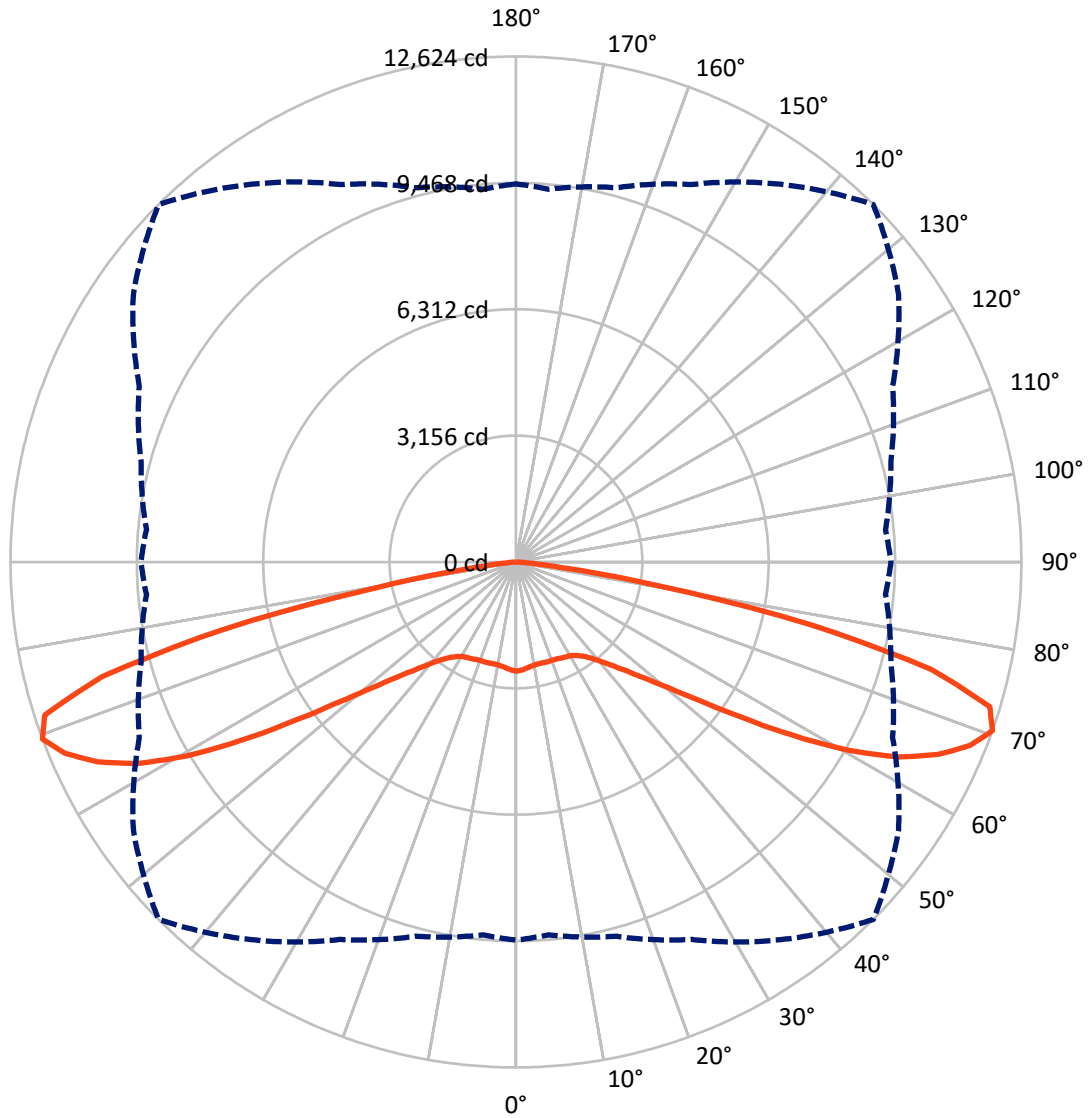
✕ Max cd
 - - - 1/2 Max cd



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



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

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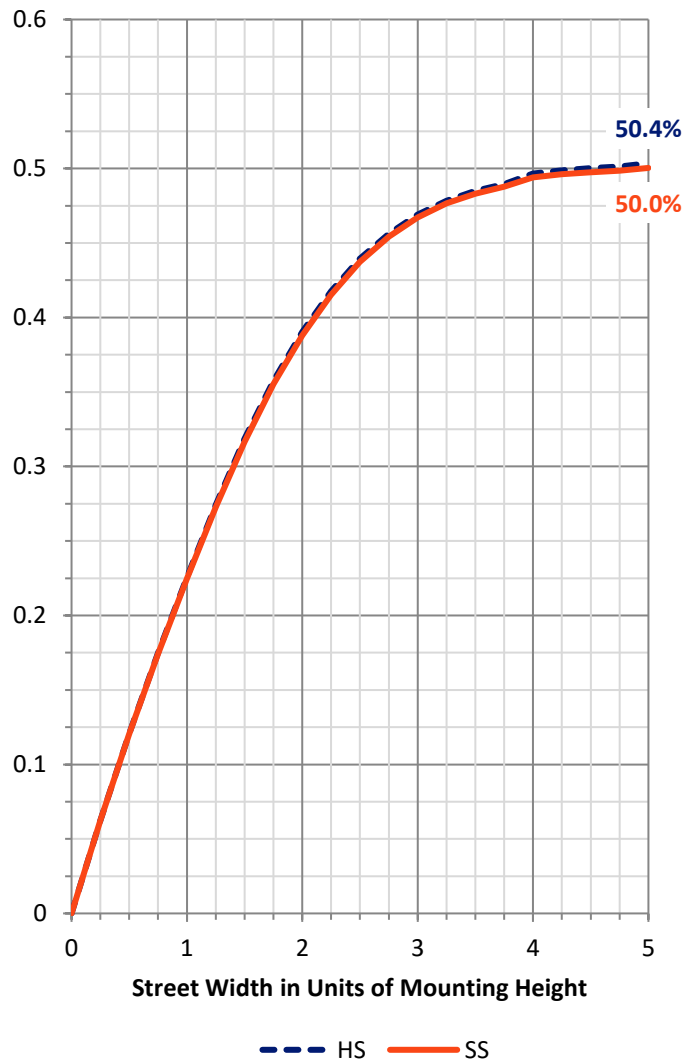
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14946.5	0.0	14946.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14946.5	0.0	14946.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29893.0	0.0	29893.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.7	0.8
10°-20°	744.8	2.5
20°-30°	1239.5	4.1
30°-40°	1874.5	6.3
40°-50°	3114.9	10.4
50°-60°	5877.7	19.7
60°-70°	9924.7	33.2
70°-80°	6521.6	21.8
80°-90°	341.7	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°	29893.0	100.0
0°-180°	29893.0	100.0



REPORT NUMBER: P941410

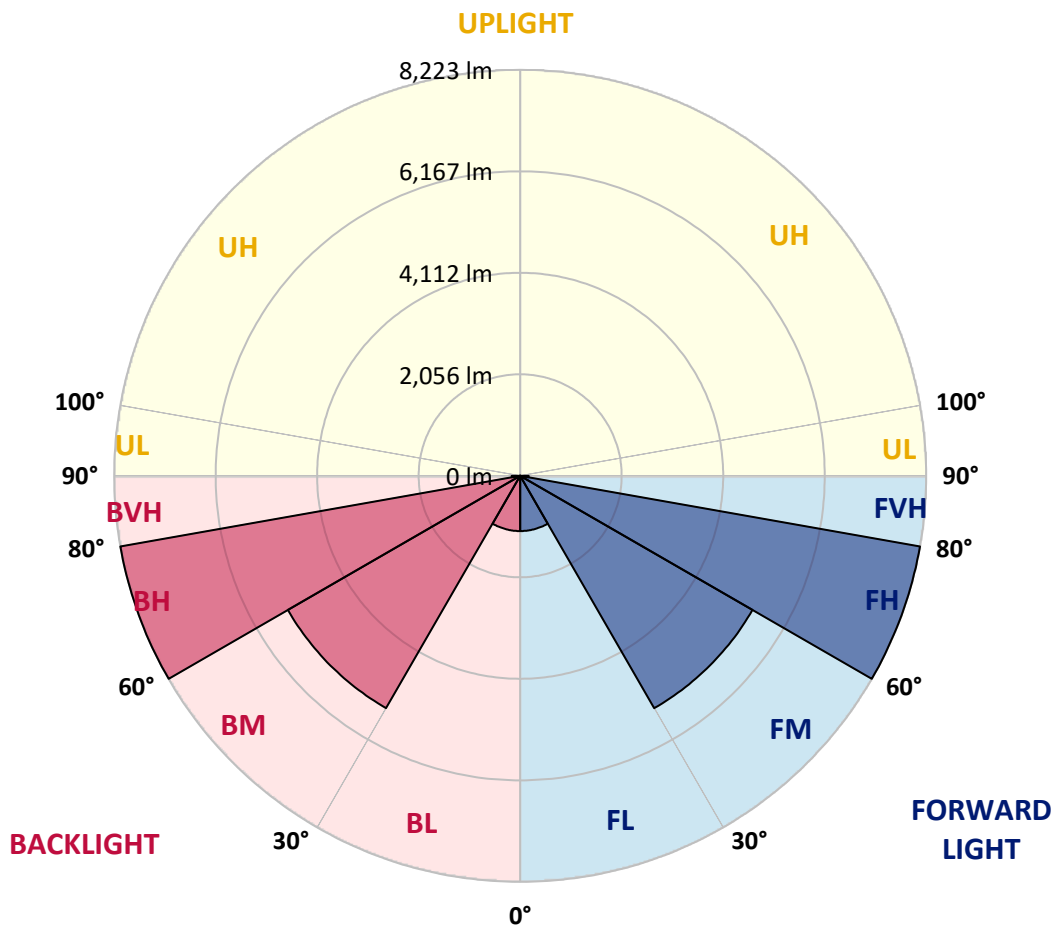
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1119.0	3.7			
FM (30°-60°)	5433.5	18.2			
FH (60°-80°)	8223.2	27.5			G4/12000
FVH (80°-90°)	170.8	0.6			G2/225
BL (0°-30°)	1119.0	3.7	B3/2500		
BM (30°-60°)	5433.5	18.2	B4/8500		
BH (60°-80°)	8223.2	27.5	B5		G4/12000
BVH (80°-90°)	170.8	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°	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8	2726.8
2.5°	2709.8	2717.5	2714.4	2708.2	2708.2	2703.5	2708.2	2711.3	2716.0	2719.1
5°	2674.0	2680.2	2678.7	2674.0	2675.6	2670.9	2674.0	2678.7	2681.8	2683.3
7.5°	2642.9	2649.2	2646.0	2638.3	2638.3	2633.6	2635.2	2639.8	2644.5	2646.0
10°	2635.2	2641.4	2632.1	2619.6	2615.0	2608.8	2610.3	2615.0	2624.3	2629.0
12.5°	2638.3	2642.9	2633.6	2615.0	2610.3	2604.1	2604.1	2608.8	2621.2	2627.4
15°	2647.6	2652.3	2638.3	2618.1	2613.4	2608.8	2607.2	2613.4	2627.4	2638.3
17.5°	2664.7	2669.4	2647.6	2619.6	2613.4	2615.0	2613.4	2618.1	2639.8	2660.0
20°	2680.2	2683.3	2653.8	2619.6	2613.4	2615.0	2613.4	2622.7	2650.7	2678.7
22.5°	2684.9	2688.0	2660.0	2630.5	2625.8	2627.4	2625.8	2635.2	2661.6	2689.6
25°	2686.4	2691.1	2669.4	2646.0	2653.8	2656.9	2653.8	2655.4	2675.6	2700.4
27.5°	2709.8	2716.0	2695.8	2675.6	2680.2	2678.7	2683.3	2688.0	2703.5	2728.4
30°	2757.9	2762.6	2745.5	2725.3	2722.2	2711.3	2725.3	2740.8	2757.9	2779.7
32.5°	2837.2	2846.5	2824.7	2803.0	2789.0	2782.8	2793.7	2820.1	2843.4	2866.7
35°	2969.2	2975.4	2955.2	2914.8	2890.0	2890.0	2899.3	2933.5	2970.8	3000.3
37.5°	3155.7	3163.4	3127.7	3079.5	3042.3	3042.3	3054.7	3090.4	3146.4	3188.3
40°	3382.5	3393.4	3348.3	3298.6	3262.9	3256.7	3272.2	3312.6	3365.4	3418.3
42.5°	3656.0	3668.4	3609.4	3565.9	3537.9	3537.9	3545.7	3583.0	3631.1	3696.4
45°	4005.6	4027.3	3946.5	3903.0	3876.6	3882.8	3887.5	3920.1	3963.6	4038.2
47.5°	4422.0	4443.7	4358.3	4313.2	4308.6	4338.1	4319.4	4342.8	4366.1	4451.5
50°	4894.3	4931.6	4872.6	4869.5	4878.8	4933.2	4889.7	4902.1	4875.7	4930.1
52.5°	5472.3	5526.7	5515.8	5534.5	5638.6	5750.5	5651.0	5607.5	5508.1	5525.2
55°	6173.1	6255.4	6271.0	6382.8	6619.0	6847.4	6636.1	6460.5	6249.2	6210.4
57.5°	6970.2	7035.4	7110.0	7338.4	7779.7	8185.2	7779.7	7391.2	7058.7	6979.5
60°	7827.8	7908.6	7980.1	8317.3	8972.9	9543.2	8960.5	8343.7	7904.0	7796.8
62.5°	8749.2	8853.3	8903.0	9277.5	10041.9	10722.5	10052.8	9305.5	8817.6	8702.6
65°	9633.3	9718.7	9774.7	10174.0	10904.3	11586.4	10954.0	10217.5	9715.6	9564.9
67.5°	10045.0	10091.7	10228.4	10680.5	11451.2	12229.6	11581.7	10728.7	10167.8	9903.6
70°	9442.2	9347.4	9676.8	10400.8	11516.4	12624.3	11665.6	10379.1	9692.3	9263.5
72.5°	7296.4	7133.3	7705.1	8943.4	10770.6	12372.6	10845.2	9013.3	8060.9	7190.8
75°	3969.8	3785.0	4574.3	6140.4	8589.2	10724.0	8786.5	6316.0	5093.2	3940.3
77.5°	1120.3	1050.3	1687.4	2970.8	5166.2	7529.5	5365.1	3036.0	2001.2	1187.1
80°	343.4	332.5	450.6	895.0	2193.9	3606.3	2108.4	905.8	573.3	362.0
82.5°	203.5	186.5	223.7	326.3	559.4	1132.7	543.8	340.3	273.5	183.3
85°	116.5	108.8	132.1	158.5	188.0	240.8	156.9	161.6	146.1	97.9
87.5°	48.2	43.5	51.3	49.7	43.5	55.9	42.0	49.7	59.0	38.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2726.8
2717.5
2683.3
2646.0
2629.0
2629.0
2639.8
2660.0
2680.2
2689.6
2698.9
2722.2
2775.0
2857.4
2989.4
3172.8
3401.2
3691.7
4035.1
4426.7
4897.4
5467.7
6149.8
6923.5
7703.5
8609.4
9490.3
9906.8
9366.0
7406.8
4196.7
1319.1
382.2
198.9
102.5
35.7
0.0

OF REPORT)