

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: P941420

Luminaire Tested: **GALN-SB4D-950-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941420
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-950-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 90 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28697 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

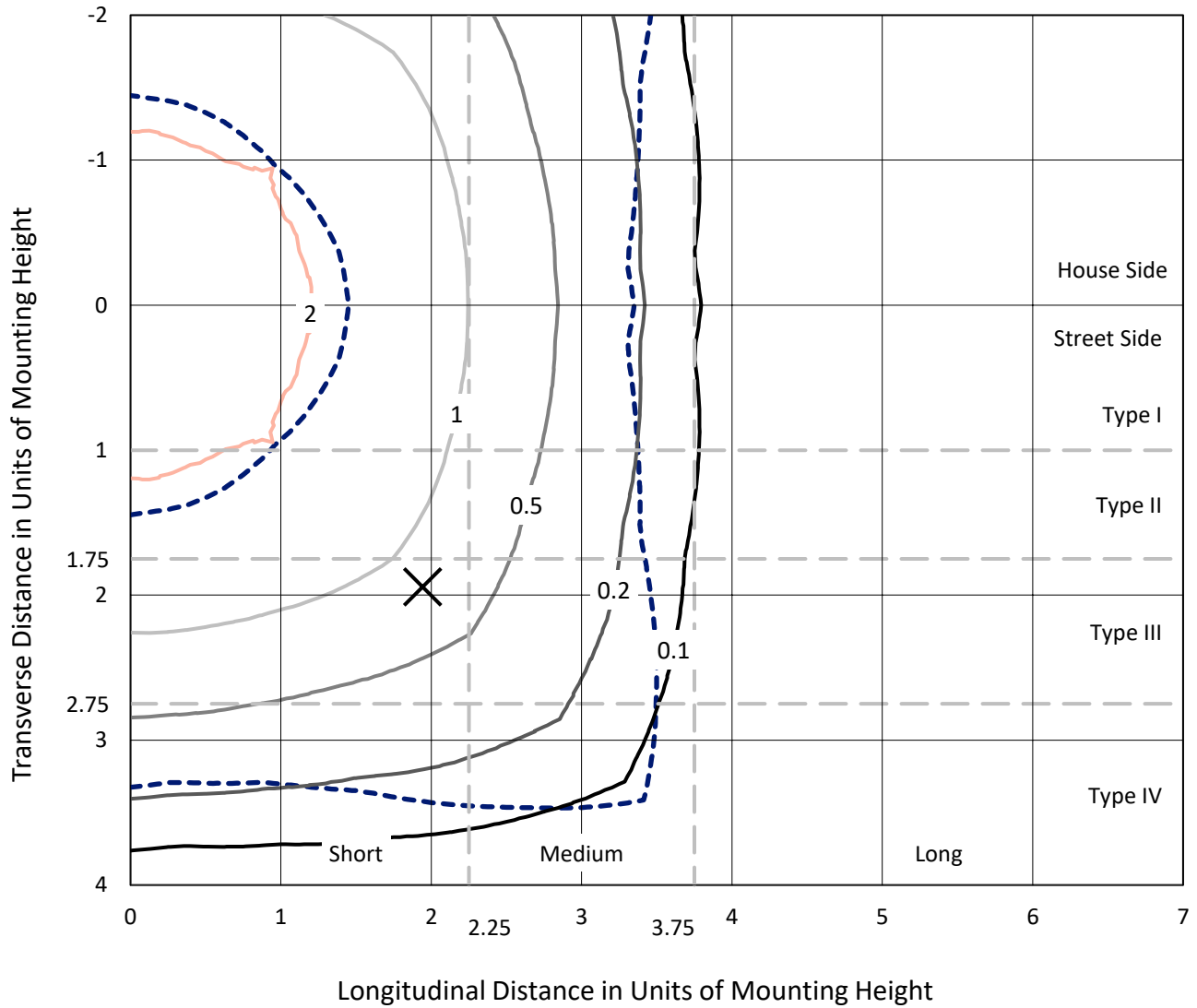
Input Watts (W): 293.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

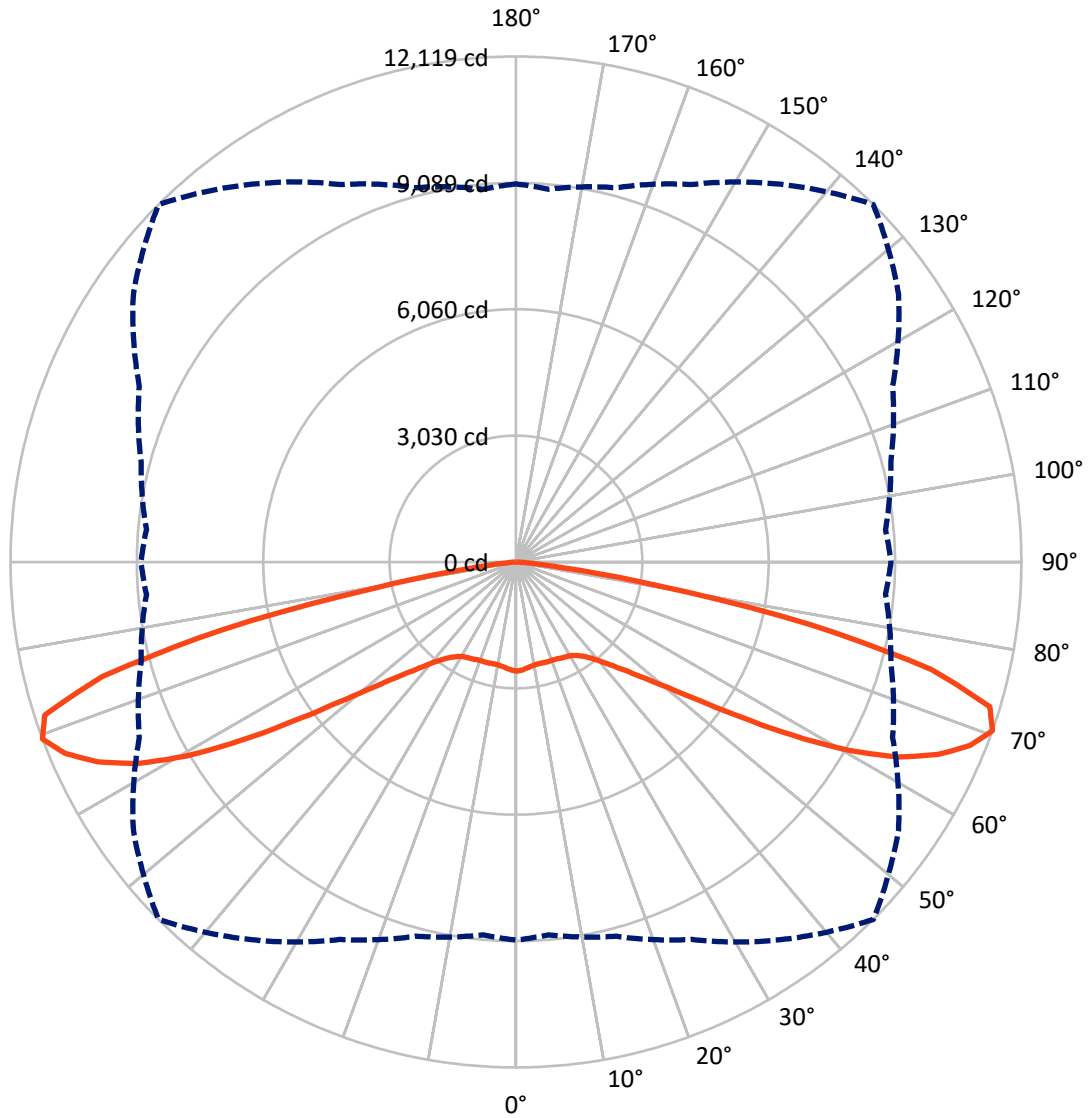
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	14348.5	0.0	14348.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14348.5	0.0	14348.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	28697.0	0.0	28697.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.5	0.8
10°-20°	715.0	2.5
20°-30°	1189.9	4.1
30°-40°	1799.5	6.3
40°-50°	2990.3	10.4
50°-60°	5642.5	19.7
60°-70°	9527.7	33.2
70°-80°	6260.7	21.8
80°-90°	328.0	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°	28697.0	100.0
0°-180°	28697.0	100.0

Coefficient of Utilization



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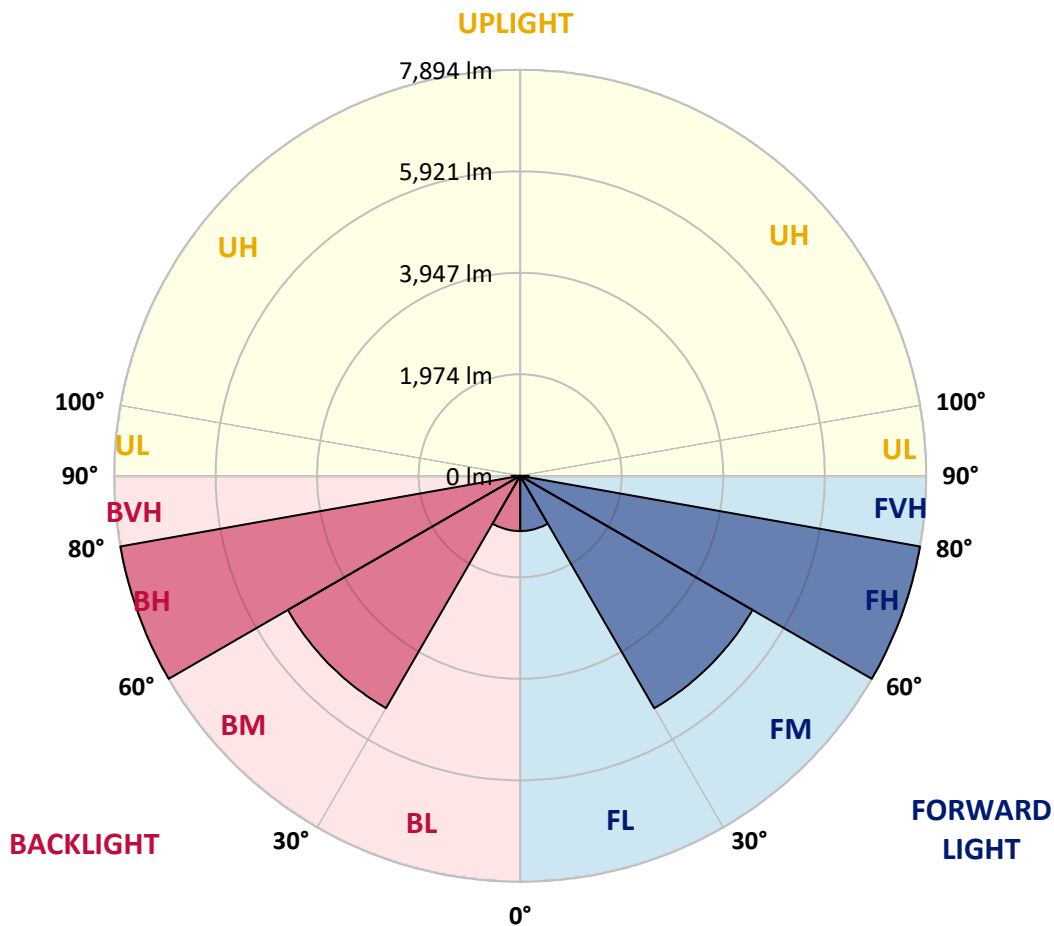
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1074.2	3.7			
FM (30°-60°)	5216.1	18.2			
FH (60°-80°)	7894.2	27.5			G4/12000
FVH (80°-90°)	164.0	0.6			G2/225
BL (0°-30°)	1074.2	3.7	B3/2500		
BM (30°-60°)	5216.1	18.2	B4/8500		
BH (60°-80°)	7894.2	27.5	B5		G4/12000
BVH (80°-90°)	164.0	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°	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7
2.5°	2601.3	2608.8	2605.8	2599.8	2599.8	2595.4	2599.8	2602.8	2607.3	2610.3
5°	2567.0	2573.0	2571.5	2567.0	2568.5	2564.0	2567.0	2571.5	2574.5	2576.0
7.5°	2537.2	2543.2	2540.2	2532.7	2532.7	2528.2	2529.7	2534.2	2538.7	2540.2
10°	2529.7	2535.7	2526.8	2514.8	2510.3	2504.4	2505.9	2510.3	2519.3	2523.8
12.5°	2532.7	2537.2	2528.2	2510.3	2505.9	2499.9	2499.9	2504.4	2516.3	2522.3
15°	2541.7	2546.1	2532.7	2513.3	2508.9	2504.4	2502.9	2508.9	2522.3	2532.7
17.5°	2558.1	2562.6	2541.7	2514.8	2508.9	2510.3	2508.9	2513.3	2534.2	2553.6
20°	2573.0	2576.0	2547.6	2514.8	2508.9	2510.3	2508.9	2517.8	2544.7	2571.5
22.5°	2577.5	2580.5	2553.6	2525.3	2520.8	2522.3	2520.8	2529.7	2555.1	2581.9
25°	2579.0	2583.4	2562.6	2540.2	2547.6	2550.6	2547.6	2549.1	2568.5	2592.4
27.5°	2601.3	2607.3	2587.9	2568.5	2573.0	2571.5	2576.0	2580.5	2595.4	2619.2
30°	2647.6	2652.1	2635.6	2616.3	2613.3	2602.8	2616.3	2631.2	2647.6	2668.5
32.5°	2723.6	2732.6	2711.7	2690.8	2677.4	2671.4	2681.9	2707.2	2729.6	2752.0
35°	2850.4	2856.4	2837.0	2798.2	2774.4	2774.4	2783.3	2816.1	2851.9	2880.3
37.5°	3029.4	3036.9	3002.6	2956.3	2920.5	2920.5	2932.5	2966.8	3020.5	3060.7
40°	3247.2	3257.6	3214.4	3166.7	3132.3	3126.4	3141.3	3180.1	3230.8	3281.5
42.5°	3509.7	3521.6	3465.0	3423.2	3396.4	3396.4	3403.8	3439.6	3485.9	3548.5
45°	3845.3	3866.2	3788.6	3746.9	3721.5	3727.5	3732.0	3763.3	3805.1	3876.6
47.5°	4245.1	4266.0	4183.9	4140.7	4136.2	4164.5	4146.6	4169.0	4191.4	4273.4
50°	4698.5	4734.3	4677.6	4674.6	4683.6	4735.8	4694.0	4706.0	4680.6	4732.8
52.5°	5253.4	5305.6	5295.2	5313.1	5413.0	5520.4	5424.9	5383.2	5287.7	5304.1
55°	5926.1	6005.1	6020.1	6127.5	6354.2	6573.4	6370.6	6202.0	5999.2	5961.9
57.5°	6691.3	6753.9	6825.5	7044.8	7468.4	7857.7	7468.4	7095.5	6776.3	6700.2
60°	7514.6	7592.2	7660.8	7984.5	8613.9	9161.4	8602.0	8009.8	7587.7	7484.8
62.5°	8399.2	8499.1	8546.8	8906.3	9640.2	10293.5	9650.6	8933.1	8464.8	8354.4
65°	9247.9	9329.9	9383.6	9766.9	10468.0	11122.8	10515.7	9808.7	9326.9	9182.2
67.5°	9643.1	9687.9	9819.2	10253.2	10993.0	11740.3	11118.3	10299.4	9761.0	9507.4
70°	9064.4	8973.4	9289.6	9984.7	11055.7	12119.2	11198.9	9963.8	9304.6	8892.9
72.5°	7004.5	6847.9	7396.8	8585.6	10339.7	11877.5	10411.3	8652.7	7738.4	6903.1
75°	3811.0	3633.5	4391.2	5894.8	8245.5	10295.0	8435.0	6063.3	4889.4	3782.7
77.5°	1075.4	1008.3	1619.9	2851.9	4959.5	7228.3	5150.5	2914.6	1921.2	1139.6
80°	329.6	319.2	432.6	859.2	2106.1	3462.0	2024.1	869.6	550.4	347.5
82.5°	195.4	179.0	214.8	313.2	537.0	1087.4	522.1	326.7	262.5	176.0
85°	111.9	104.4	126.8	152.1	180.5	231.2	150.7	155.1	140.2	94.0
87.5°	46.2	41.8	49.2	47.7	41.8	53.7	40.3	47.7	56.7	37.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2617.7
2608.8
2576.0
2540.2
2523.8
2523.8
2534.2
2553.6
2573.0
2581.9
2590.9
2613.3
2664.0
2743.0
2869.8
3045.8
3265.1
3544.0
3873.7
4249.5
4701.5
5248.9
5903.7
6646.5
7395.3
8264.9
9110.6
9510.4
8991.3
7110.4
4028.8
1266.4
366.9
190.9
98.4
34.3
0.0

OF REPORT)