

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: P941200

Luminaire Tested: **GALN-SB4C-850-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941200
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-SB4C-850-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 5000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29040 lumens
Efficiency: N/A
Efficacy: 144.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

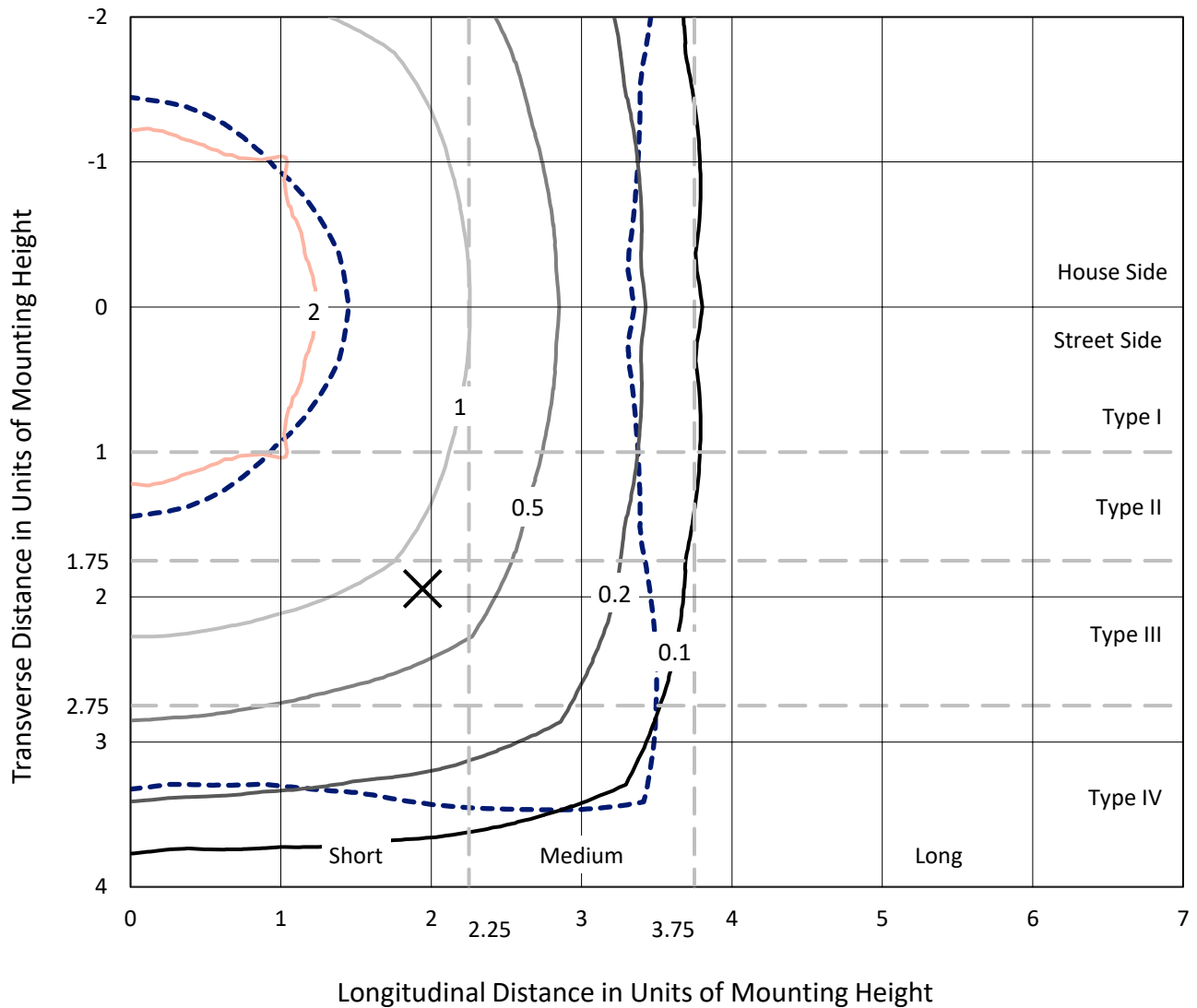
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

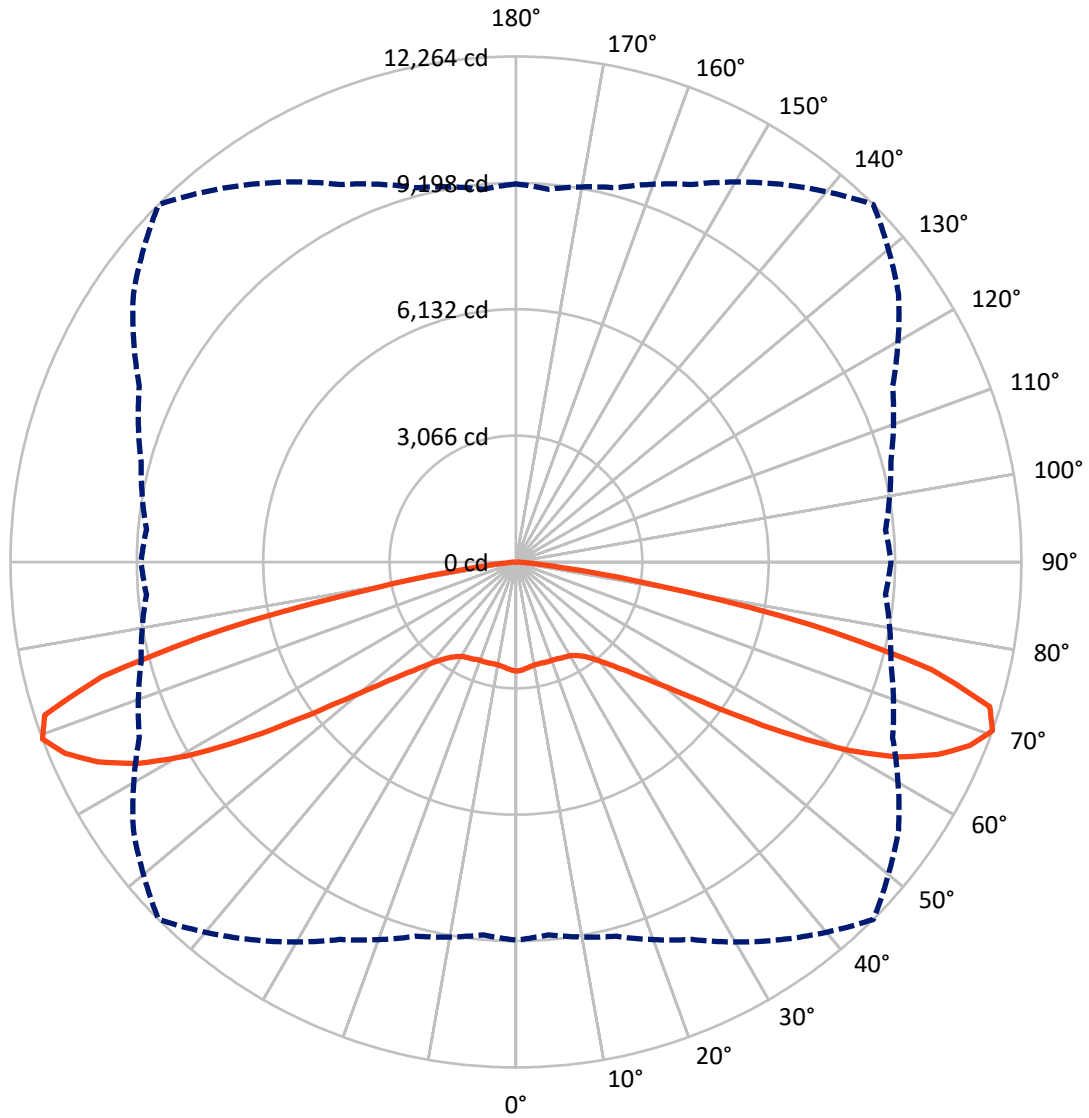
× Max cd
 - - - 1/2 Max cd



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	14520.0	0.0	14520.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14520.0	0.0	14520.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	29040.0	0.0	29040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.4	0.8
10°-20°	723.6	2.5
20°-30°	1204.1	4.1
30°-40°	1821.0	6.3
40°-50°	3026.0	10.4
50°-60°	5710.0	19.7
60°-70°	9641.5	33.2
70°-80°	6335.5	21.8
80°-90°	331.9	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°	29040.0	100.0
0°-180°	29040.0	100.0

Coefficient of Utilization



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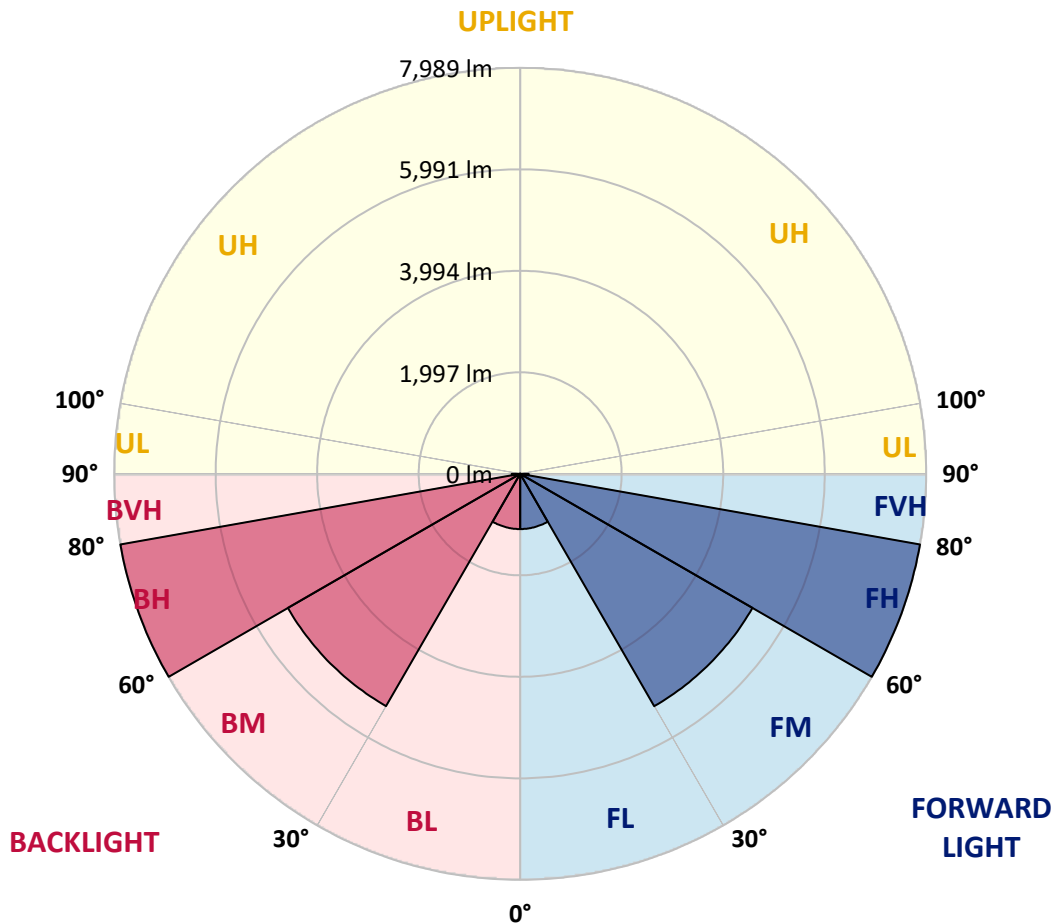
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1087.0	3.7			
FM (30°-60°)	5278.5	18.2			
FH (60°-80°)	7988.5	27.5			G4/12000
FVH (80°-90°)	166.0	0.6			G2/225
BL (0°-30°)	1087.0	3.7	B3/2500		
BM (30°-60°)	5278.5	18.2	B4/8500		
BH (60°-80°)	7988.5	27.5	B5		G4/12000
BVH (80°-90°)	166.0	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°	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0	2649.0
2.5°	2632.4	2640.0	2637.0	2630.9	2630.9	2626.4	2630.9	2633.9	2638.5	2641.5
5°	2597.7	2603.8	2602.2	2597.7	2599.2	2594.7	2597.7	2602.2	2605.3	2606.8
7.5°	2567.5	2573.6	2570.5	2563.0	2563.0	2558.5	2560.0	2564.5	2569.0	2570.5
10°	2560.0	2566.0	2557.0	2544.9	2540.4	2534.3	2535.8	2540.4	2549.4	2553.9
12.5°	2563.0	2567.5	2558.5	2540.4	2535.8	2529.8	2529.8	2534.3	2546.4	2552.4
15°	2572.1	2576.6	2563.0	2543.4	2538.8	2534.3	2532.8	2538.8	2552.4	2563.0
17.5°	2588.7	2593.2	2572.1	2544.9	2538.8	2540.4	2538.8	2543.4	2564.5	2584.1
20°	2603.8	2606.8	2578.1	2544.9	2538.8	2540.4	2538.8	2547.9	2575.1	2602.2
22.5°	2608.3	2611.3	2584.1	2555.4	2550.9	2552.4	2550.9	2560.0	2585.6	2612.8
25°	2609.8	2614.3	2593.2	2570.5	2578.1	2581.1	2578.1	2579.6	2599.2	2623.4
27.5°	2632.4	2638.5	2618.8	2599.2	2603.8	2602.2	2606.8	2611.3	2626.4	2650.5
30°	2679.2	2683.7	2667.1	2647.5	2644.5	2633.9	2647.5	2662.6	2679.2	2700.4
32.5°	2756.2	2765.3	2744.1	2723.0	2709.4	2703.4	2713.9	2739.6	2762.2	2784.9
35°	2884.5	2890.5	2870.9	2831.7	2807.5	2807.5	2816.6	2849.8	2886.0	2914.7
37.5°	3065.6	3073.2	3038.5	2991.7	2955.4	2955.4	2967.5	3002.2	3056.6	3097.3
40°	3286.0	3296.6	3252.8	3204.5	3169.8	3163.7	3178.8	3218.1	3269.4	3320.7
42.5°	3551.7	3563.7	3506.4	3464.1	3437.0	3437.0	3444.5	3480.7	3527.5	3590.9
45°	3891.3	3912.4	3833.9	3791.7	3766.0	3772.0	3776.6	3808.3	3850.5	3923.0
47.5°	4295.8	4316.9	4233.9	4190.2	4185.6	4214.3	4196.2	4218.8	4241.5	4324.5
50°	4754.7	4790.9	4733.5	4730.5	4739.6	4792.4	4750.1	4762.2	4736.6	4789.4
52.5°	5316.2	5369.0	5358.4	5376.6	5477.7	5586.4	5489.8	5447.5	5350.9	5367.5
55°	5996.9	6076.9	6092.0	6200.7	6430.1	6652.0	6446.7	6276.2	6070.9	6033.2
57.5°	6771.3	6834.7	6907.1	7129.0	7557.7	7951.6	7557.7	7180.3	6857.3	6780.3
60°	7604.5	7682.9	7752.4	8079.9	8716.9	9270.9	8704.8	8105.6	7678.4	7574.3
62.5°	8499.5	8600.7	8649.0	9012.7	9755.4	10416.5	9765.9	9039.9	8566.0	8454.3
65°	9358.4	9441.4	9495.8	9883.7	10593.1	11255.7	10641.4	9925.9	9438.4	9292.0
67.5°	9758.4	9803.7	9936.5	10375.8	11124.4	11880.6	11251.2	10422.5	9877.6	9621.0
70°	9172.7	9080.7	9400.7	10104.1	11187.8	12264.0	11332.7	10082.9	9415.8	8999.2
72.5°	7088.2	6929.7	7485.2	8688.2	10463.3	12019.5	10535.8	8756.1	7830.9	6985.6
75°	3856.6	3676.9	4443.7	5965.2	8344.1	10418.0	8535.8	6135.8	4947.9	3827.9
77.5°	1088.3	1020.4	1639.2	2886.0	5018.8	7314.7	5212.0	2949.4	1944.1	1153.2
80°	333.6	323.0	437.7	869.4	2131.3	3503.4	2048.3	880.0	557.0	351.7
82.5°	197.7	181.1	217.4	317.0	543.4	1100.4	528.3	330.6	265.7	178.1
85°	113.2	105.7	128.3	154.0	182.6	234.0	152.5	157.0	141.9	95.1
87.5°	46.8	42.3	49.8	48.3	42.3	54.3	40.8	48.3	57.4	37.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2649.0
2640.0
2606.8
2570.5
2553.9
2553.9
2564.5
2584.1
2603.8
2612.8
2621.9
2644.5
2695.8
2775.8
2904.1
3082.2
3304.1
3586.4
3920.0
4300.3
4757.7
5311.7
5974.3
6726.0
7483.7
8363.7
9219.5
9624.1
9098.8
7195.4
4076.9
1281.5
371.3
193.2
99.6
34.7
0.0

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