

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: P943800

Luminaire Tested: **GALN-SB8B-950-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943800
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-SB8B-950-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 90 CRI, 5000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32040 lumens
Efficiency: N/A
Efficacy: 109.4 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

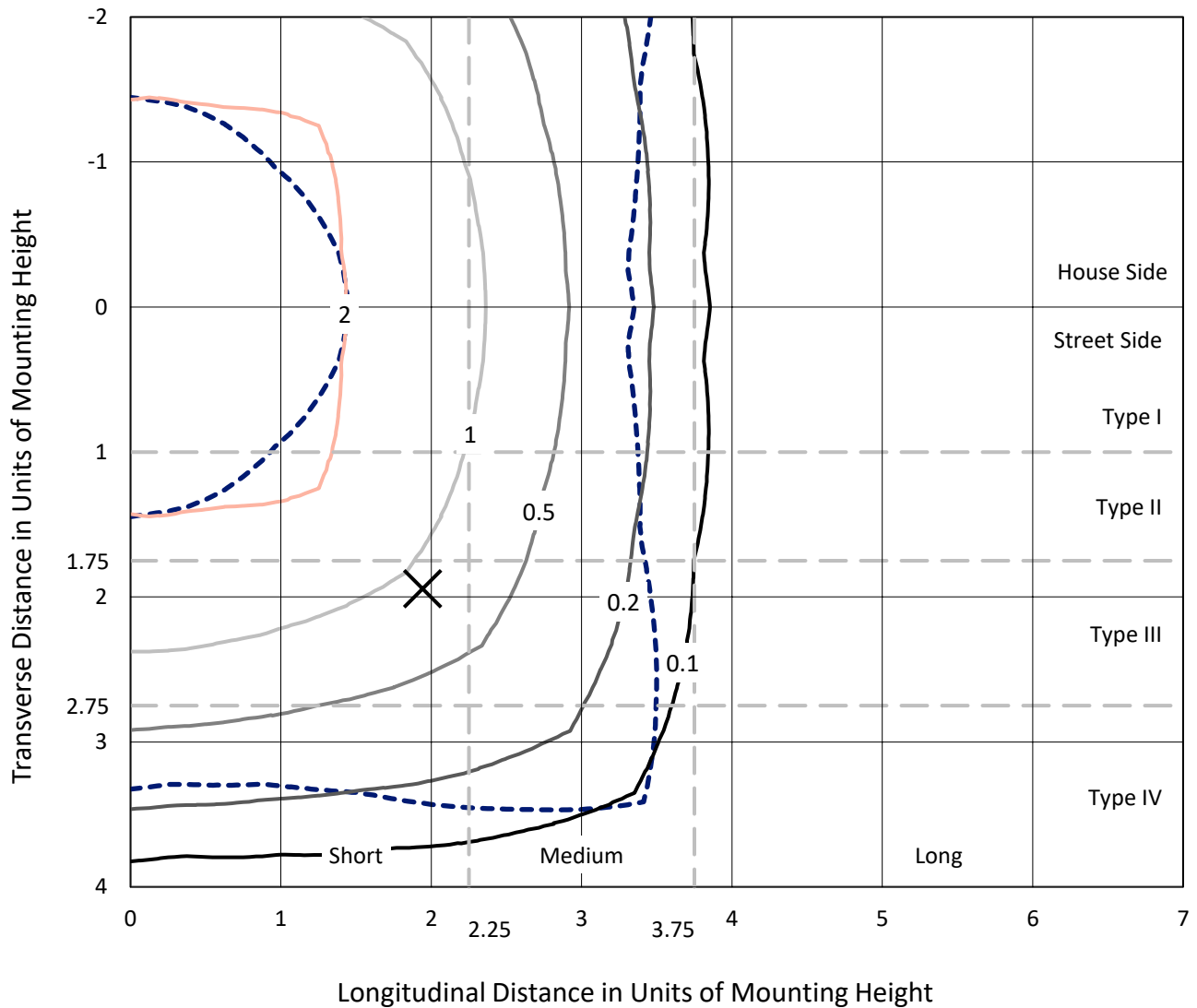
Input Watts (W): 292.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

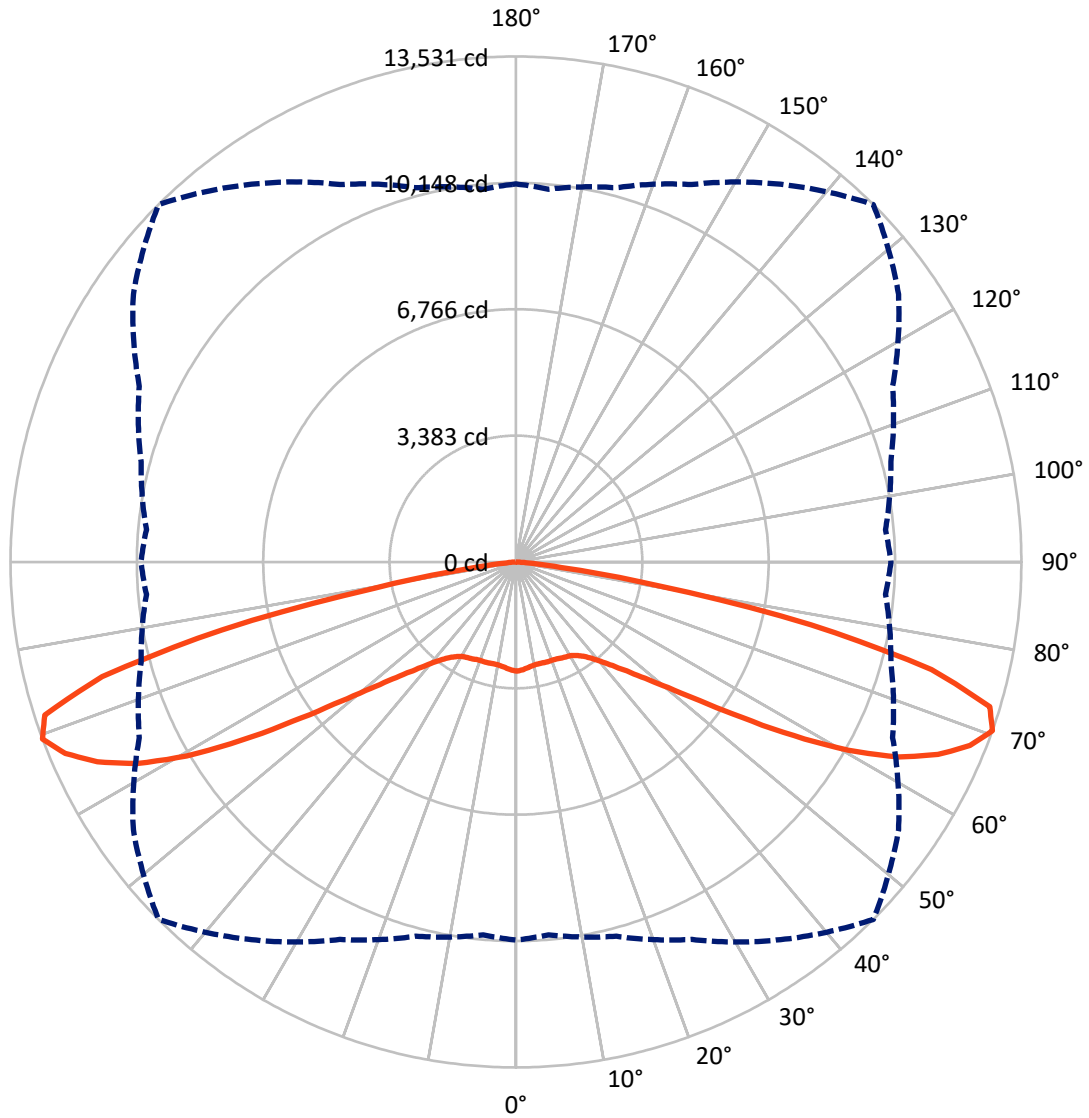
✕ Max cd
 - - - 1/2 Max cd



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	16020.0	0.0	16020.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16020.0	0.0	16020.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	32040.0	0.0	32040.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.9	0.8
10°-20°	798.3	2.5
20°-30°	1328.5	4.1
30°-40°	2009.1	6.3
40°-50°	3338.6	10.4
50°-60°	6299.9	19.7
60°-70°	10637.6	33.2
70°-80°	6990.0	21.8
80°-90°	366.2	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°	32040.0	100.0
0°-180°	32040.0	100.0

Coefficient of Utilization



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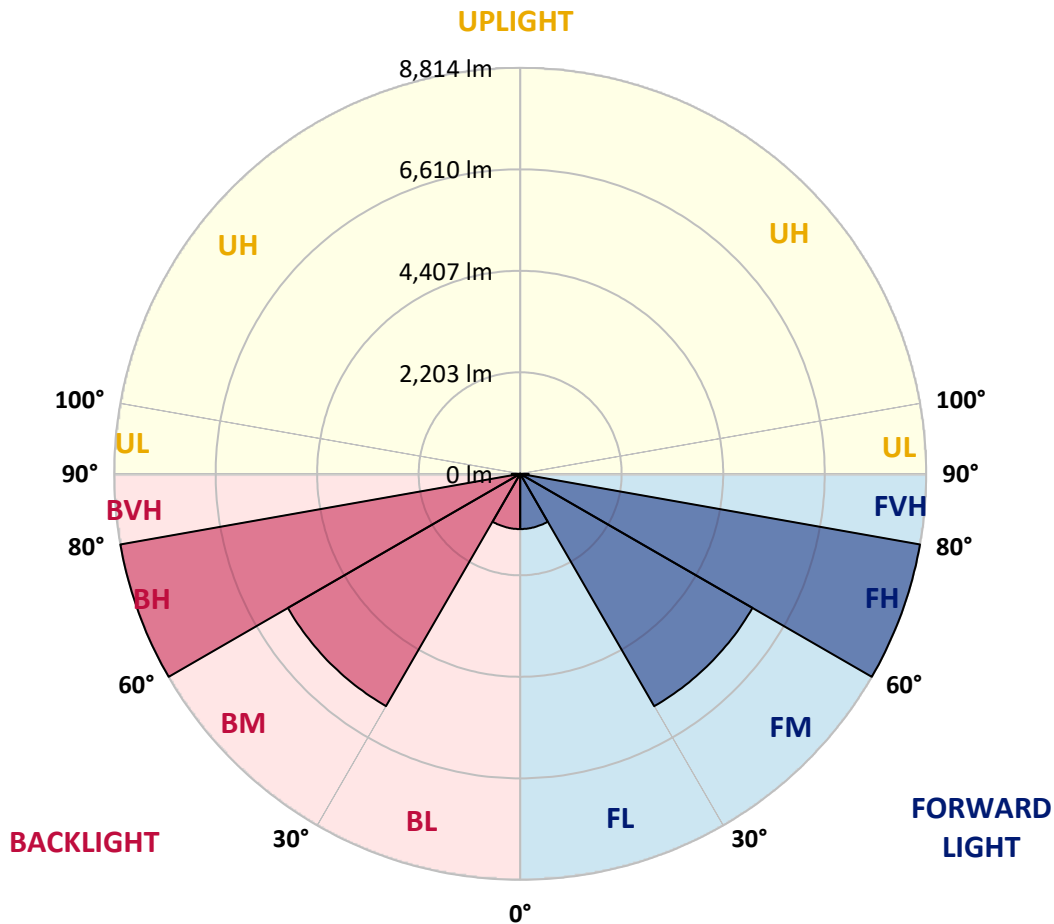
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1199.3	3.7			
FM (30°-60°)	5823.8	18.2			
FH (60°-80°)	8813.8	27.5			G4/12000
FVH (80°-90°)	183.1	0.6			G2/225
BL (0°-30°)	1199.3	3.7	B3/2500		
BM (30°-60°)	5823.8	18.2	B4/8500		
BH (60°-80°)	8813.8	27.5	B5		G4/12000
BVH (80°-90°)	183.1	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°	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7	2922.7
2.5°	2904.4	2912.7	2909.4	2902.7	2902.7	2897.7	2902.7	2906.0	2911.0	2914.4
5°	2866.1	2872.7	2871.1	2866.1	2867.7	2862.7	2866.1	2871.1	2874.4	2876.1
7.5°	2832.8	2839.4	2836.1	2827.8	2827.8	2822.8	2824.4	2829.4	2834.4	2836.1
10°	2824.4	2831.1	2821.1	2807.8	2802.8	2796.1	2797.8	2802.8	2812.8	2817.8
12.5°	2827.8	2832.8	2822.8	2802.8	2797.8	2791.1	2791.1	2796.1	2809.4	2816.1
15°	2837.8	2842.8	2827.8	2806.1	2801.1	2796.1	2794.5	2801.1	2816.1	2827.8
17.5°	2856.1	2861.1	2837.8	2807.8	2801.1	2802.8	2801.1	2806.1	2829.4	2851.1
20°	2872.7	2876.1	2844.4	2807.8	2801.1	2802.8	2801.1	2811.1	2841.1	2871.1
22.5°	2877.7	2881.1	2851.1	2819.4	2814.4	2816.1	2814.4	2824.4	2852.7	2882.7
25°	2879.4	2884.4	2861.1	2836.1	2844.4	2847.8	2844.4	2846.1	2867.7	2894.4
27.5°	2904.4	2911.0	2889.4	2867.7	2872.7	2871.1	2876.1	2881.1	2897.7	2924.4
30°	2956.0	2961.0	2942.7	2921.0	2917.7	2906.0	2921.0	2937.7	2956.0	2979.3
32.5°	3040.9	3050.9	3027.6	3004.3	2989.3	2982.6	2994.3	3022.6	3047.6	3072.6
35°	3182.5	3189.1	3167.5	3124.2	3097.6	3097.6	3107.5	3144.2	3184.2	3215.8
37.5°	3382.3	3390.7	3352.4	3300.7	3260.8	3260.8	3274.1	3312.4	3372.3	3417.3
40°	3625.5	3637.1	3588.8	3535.5	3497.2	3490.6	3507.2	3550.5	3607.2	3663.8
42.5°	3918.6	3931.9	3868.6	3822.0	3792.0	3792.0	3800.3	3840.3	3891.9	3961.9
45°	4293.3	4316.6	4230.0	4183.4	4155.1	4161.7	4166.7	4201.7	4248.3	4328.3
47.5°	4739.6	4762.9	4671.3	4623.0	4618.0	4649.7	4629.7	4654.7	4679.6	4771.2
50°	5245.9	5285.8	5222.5	5219.2	5229.2	5287.5	5240.9	5254.2	5225.9	5284.2
52.5°	5865.4	5923.7	5912.0	5932.0	6043.6	6163.5	6056.9	6010.3	5903.7	5922.0
55°	6616.4	6704.7	6721.4	6841.3	7094.4	7339.2	7112.7	6924.5	6698.0	6656.4
57.5°	7470.8	7540.7	7620.7	7865.5	8338.4	8773.1	8338.4	7922.1	7565.7	7480.8
60°	8390.0	8476.6	8553.2	8914.6	9617.4	10228.6	9604.1	8942.9	8471.6	8356.7
62.5°	9377.6	9489.2	9542.5	9943.8	10763.2	11492.6	10774.8	9973.8	9450.9	9327.6
65°	10325.2	10416.8	10476.7	10904.7	11687.4	12418.5	11740.7	10951.4	10413.4	10251.9
67.5°	10766.5	10816.5	10963.0	11447.6	12273.6	13108.0	12413.5	11499.3	10898.1	10615.0
70°	10120.3	10018.8	10371.8	11147.9	12343.6	13531.0	12503.5	11124.6	10388.5	9928.8
72.5°	7820.5	7645.6	8258.5	9585.8	11544.2	13261.2	11624.2	9660.7	8639.8	7707.2
75°	4255.0	4056.8	4902.8	6581.5	9206.1	11494.3	9417.6	6769.7	5459.0	4223.3
77.5°	1200.7	1125.8	1808.6	3184.2	5537.3	8070.3	5750.5	3254.1	2145.0	1272.3
80°	368.0	356.4	483.0	959.2	2351.5	3865.3	2259.9	970.9	614.5	388.0
82.5°	218.2	199.8	239.8	349.7	599.5	1214.0	582.9	364.7	293.1	196.5
85°	124.9	116.6	141.6	169.9	201.5	258.1	168.2	173.2	156.5	104.9
87.5°	51.6	46.6	55.0	53.3	46.6	60.0	45.0	53.3	63.3	41.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2922.7
2912.7
2876.1
2836.1
2817.8
2817.8
2829.4
2851.1
2872.7
2882.7
2892.7
2917.7
2974.3
3062.6
3204.1
3400.6
3645.5
3956.9
4324.9
4744.6
5249.2
5860.4
6591.5
7420.8
8256.8
9227.7
10172.0
10618.3
10038.7
7938.7
4498.1
1413.9
409.7
213.2
109.9
38.3
0.0

OF REPORT)