

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: P951215

Luminaire Tested: **GALN-SB5B-940-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951215
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5B-940-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 90 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21599 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

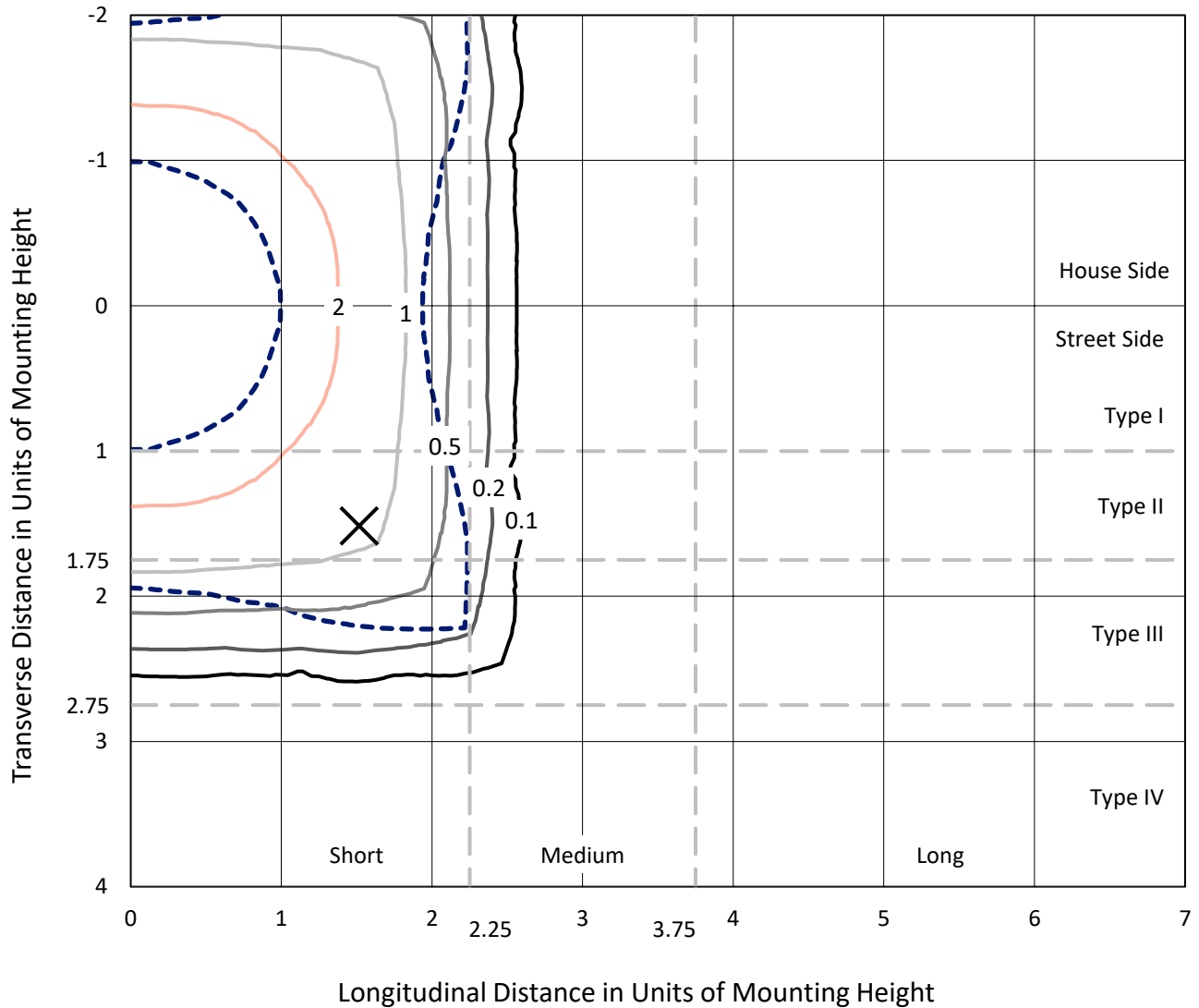
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

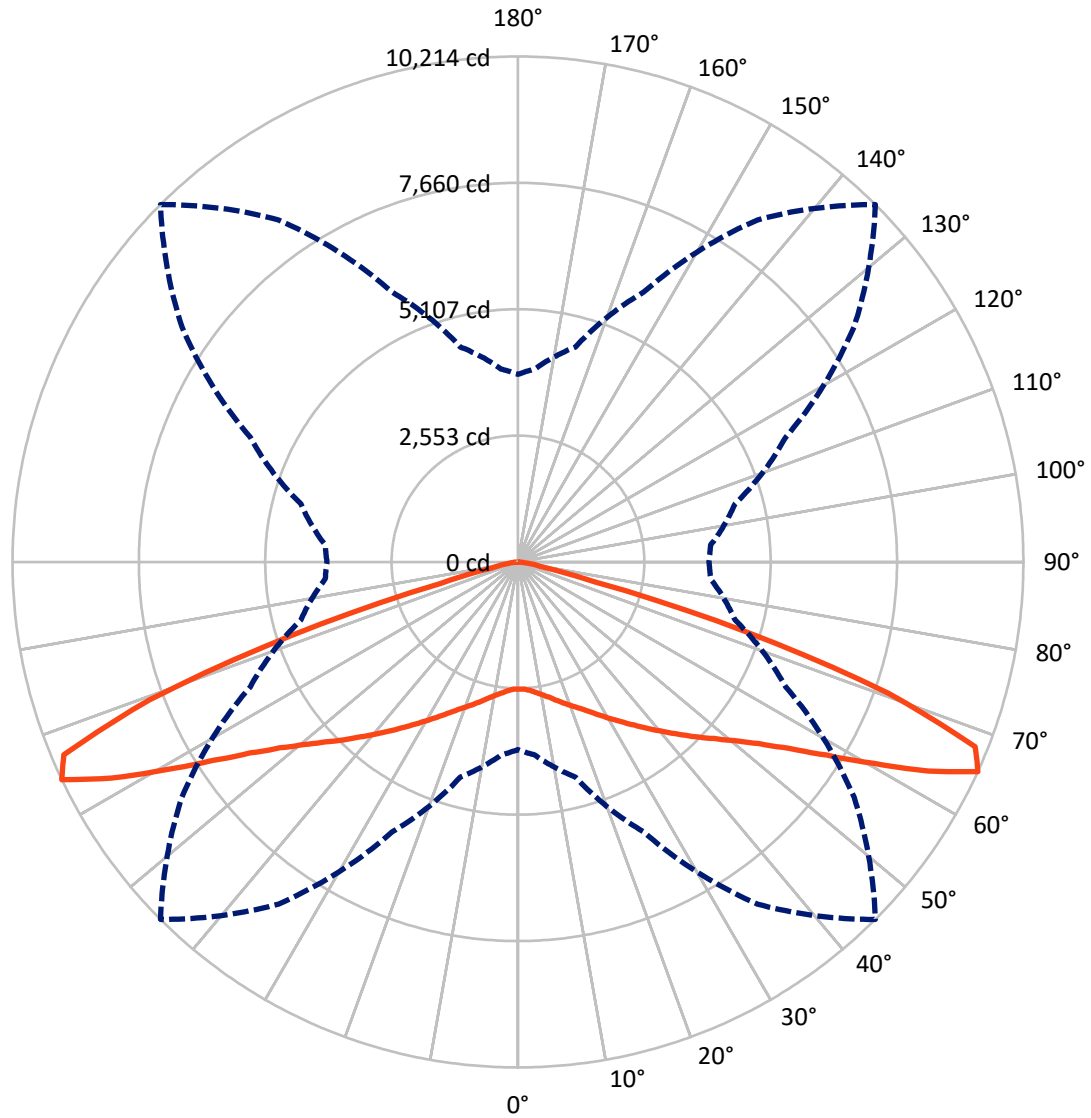
✕ Max cd
 - - - 1/2 Max cd



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 65-Deg Vertical

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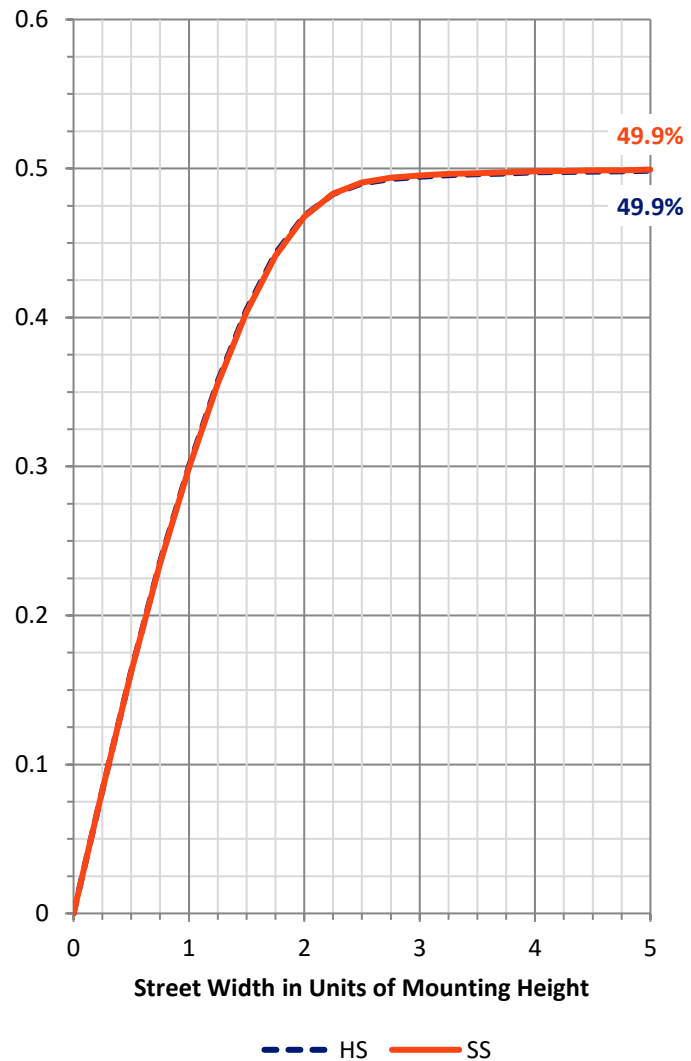
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10799.5	0.0	10799.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10799.5	0.0	10799.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21599.0	0.0	21599.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.7	1.2
10°-20°	827.8	3.8
20°-30°	1563.0	7.2
30°-40°	2559.3	11.8
40°-50°	3968.2	18.4
50°-60°	5861.9	27.1
60°-70°	5579.9	25.8
70°-80°	900.4	4.2
80°-90°	84.9	0.4
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°	21599.0	100.0
0°-180°	21599.0	100.0



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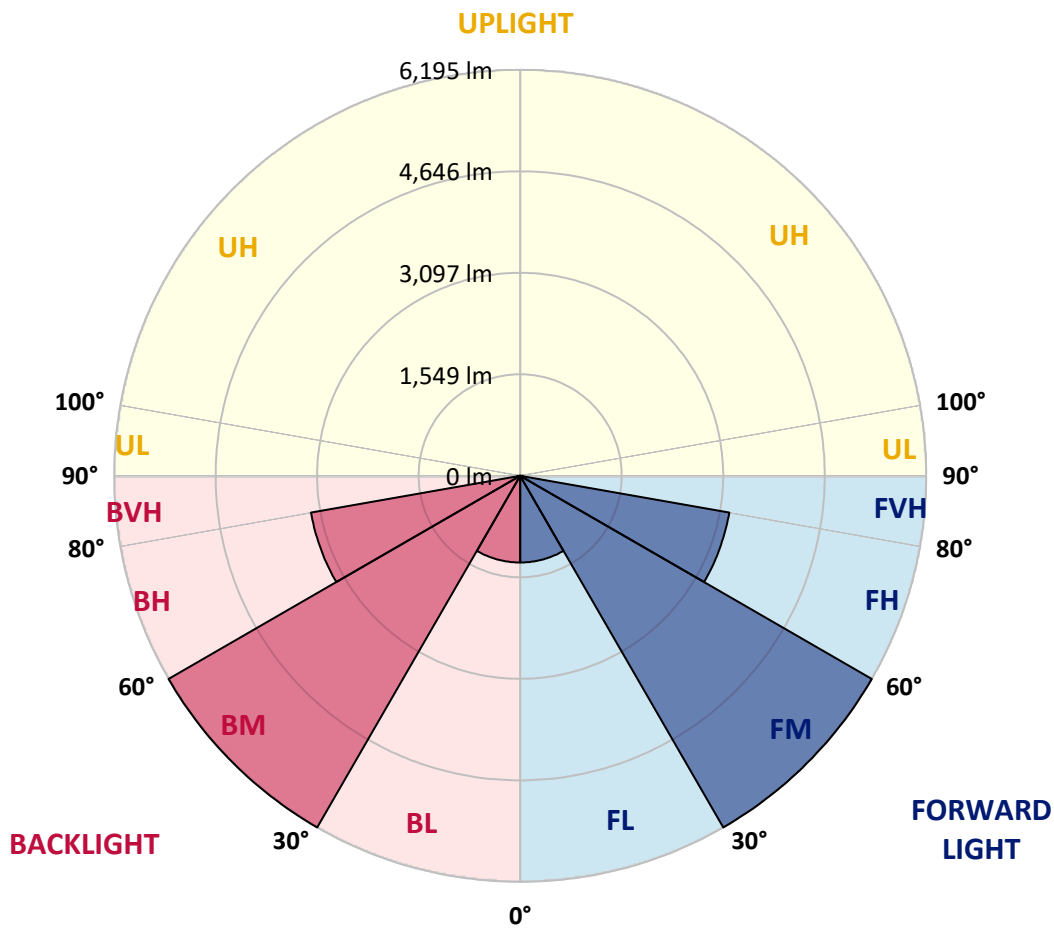
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1322.2	6.1			
FM (30°-60°)	6194.7	28.7			
FH (60°-80°)	3240.2	15.0			G2/5000
FVH (80°-90°)	42.4	0.2			G1/100
BL (0°-30°)	1322.2	6.1	B3/2500		
BM (30°-60°)	6194.7	28.7	B4/8500		
BH (60°-80°)	3240.2	15.0	B4/5000		G2/5000
BVH (80°-90°)	42.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2570.5	2570.5	2570.5	2570.5	2570.5	2570.5	2570.5	2570.5	2570.5	2570.5
2.5°	2587.8	2579.2	2585.7	2580.3	2575.9	2571.6	2573.7	2581.3	2584.6	2585.7
5°	2622.5	2614.9	2618.2	2618.2	2610.6	2608.4	2609.5	2614.9	2621.4	2621.4
7.5°	2678.9	2671.3	2678.9	2674.5	2668.0	2665.9	2664.8	2669.1	2678.9	2678.9
10°	2747.1	2738.5	2742.8	2740.6	2733.0	2729.8	2728.7	2735.2	2743.9	2742.8
12.5°	2821.9	2812.2	2817.6	2811.1	2808.9	2805.7	2805.7	2804.6	2810.0	2805.7
15°	2905.4	2898.9	2901.0	2896.7	2899.9	2897.8	2889.1	2884.8	2886.9	2880.4
17.5°	3004.0	2988.8	2996.4	2994.2	2994.2	2998.6	2984.5	2979.0	2983.4	2976.9
20°	3117.8	3102.6	3105.8	3101.5	3096.1	3100.4	3083.1	3087.4	3090.7	3086.3
22.5°	3242.4	3222.9	3221.8	3224.0	3212.0	3213.1	3201.2	3212.0	3218.5	3206.6
25°	3370.3	3349.7	3363.8	3358.3	3343.2	3346.4	3337.7	3348.6	3354.0	3338.8
27.5°	3505.7	3491.6	3504.6	3507.9	3489.5	3502.5	3489.5	3499.2	3504.6	3481.9
30°	3663.9	3649.8	3661.8	3670.4	3648.8	3669.4	3658.5	3665.0	3666.1	3639.0
32.5°	3836.2	3814.6	3844.9	3849.2	3825.4	3850.3	3836.2	3844.9	3850.3	3813.5
35°	4046.5	4019.4	4054.1	4048.6	4028.1	4048.6	4035.6	4048.6	4061.6	4017.2
37.5°	4273.0	4244.8	4281.6	4271.9	4252.4	4266.5	4258.9	4267.5	4288.1	4240.5
40°	4522.2	4487.5	4537.4	4520.0	4501.6	4499.5	4503.8	4509.2	4536.3	4483.2
42.5°	4788.8	4752.0	4826.7	4799.6	4773.6	4756.3	4770.4	4781.2	4807.2	4747.6
45°	5093.3	5051.0	5148.6	5116.1	5074.9	5039.1	5061.9	5078.1	5116.1	5044.5
47.5°	5429.3	5381.6	5485.6	5475.9	5408.7	5330.6	5382.7	5429.3	5457.4	5370.7
50°	5757.6	5720.8	5857.3	5869.2	5786.9	5677.4	5750.0	5820.5	5828.0	5714.3
52.5°	6065.4	6028.5	6226.8	6301.6	6227.9	6097.9	6174.8	6246.4	6188.9	6041.5
55°	6311.4	6281.0	6533.5	6726.4	6751.3	6644.1	6689.6	6687.4	6498.8	6272.4
57.5°	6371.0	6366.6	6685.2	7093.8	7353.9	7366.9	7276.9	7047.2	6640.8	6336.3
60°	6100.1	6127.1	6565.0	7285.6	7979.2	8267.4	7878.4	7222.7	6479.3	6056.7
62.5°	5289.5	5361.0	5888.7	7051.5	8484.2	9303.4	8360.6	6956.2	5816.1	5264.5
65°	3790.7	3915.3	4498.4	6017.7	8438.6	10213.7	8291.3	5968.9	4541.7	3905.6
67.5°	1719.8	1846.6	2341.8	4120.2	7335.5	9966.6	7318.1	4163.5	2458.9	1853.1
70°	623.1	644.8	804.1	1649.4	4688.0	7941.2	4888.5	1661.3	855.0	687.1
72.5°	377.1	380.4	414.0	590.6	1628.8	4821.3	1698.1	610.1	422.6	375.0
75°	239.5	237.3	294.8	360.9	577.6	1626.6	605.8	360.9	293.7	267.7
77.5°	172.3	177.7	211.3	269.8	364.1	551.6	357.6	257.9	211.3	173.4
80°	129.0	132.2	153.9	210.2	255.7	343.5	227.6	190.7	159.3	108.4
82.5°	93.2	93.2	100.8	152.8	156.1	185.3	123.5	134.4	105.1	76.9
85°	55.3	54.2	62.9	91.0	81.3	68.3	56.4	82.4	66.1	47.7
87.5°	19.5	20.6	19.5	26.0	21.7	18.4	17.3	22.8	18.4	16.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2570.5
2585.7
2621.4
2675.6
2740.6
2807.8
2881.5
2982.3
3096.1
3218.5
3356.2
3499.2
3655.3
3838.4
4044.3
4269.7
4500.5
4779.0
5081.4
5400.0
5728.4
6045.9
6279.9
6316.8
6006.9
5232.0
3859.0
1826.0
678.4
381.5
269.8
176.6
111.6
76.9
46.6
15.2
0.0

OF REPORT)