

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: P949472

Luminaire Tested: **GALN-SB4B-722-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949472
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-SB4B-722-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19536 lumens
Efficiency: N/A
Efficacy: 132.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 147
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

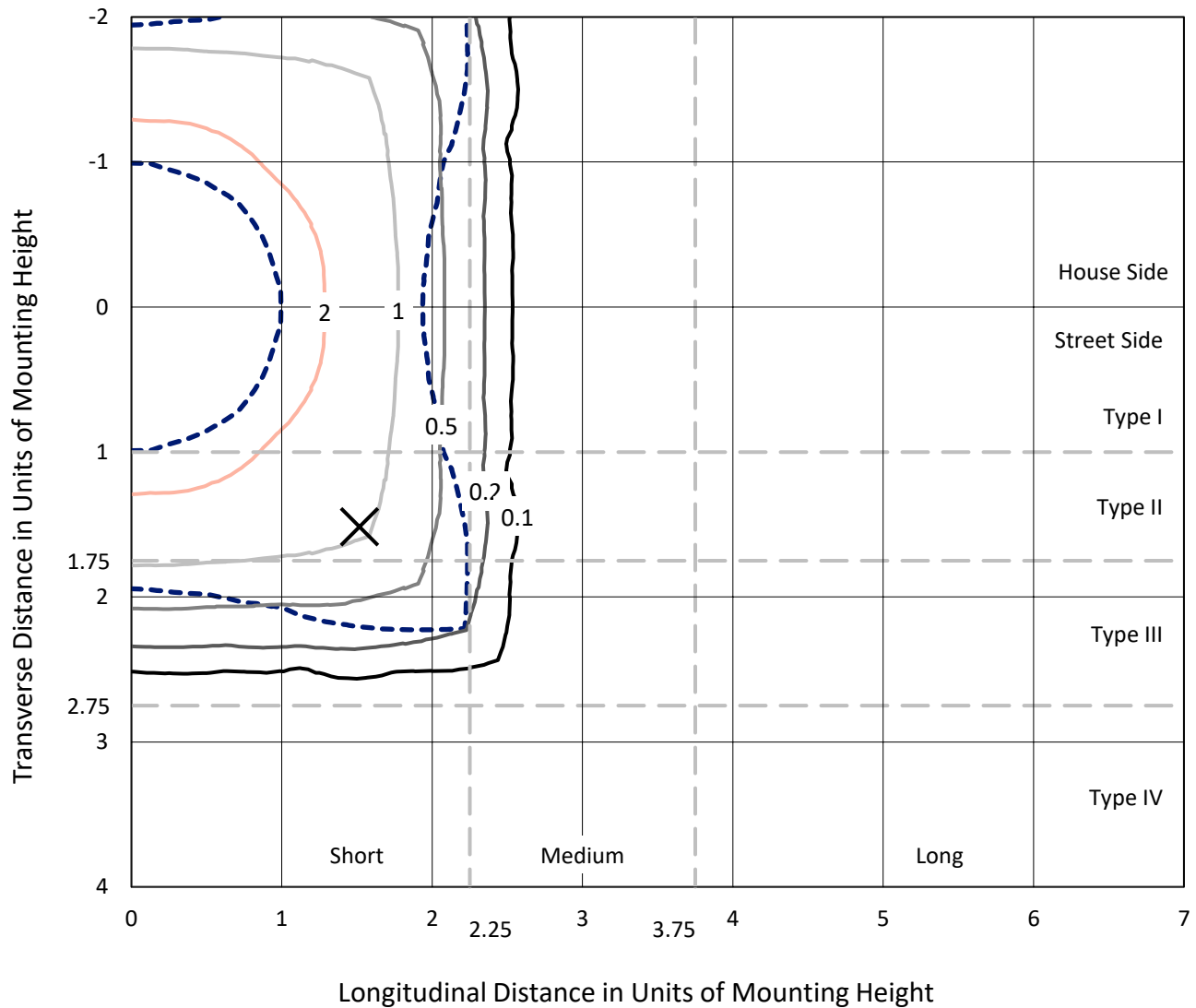


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

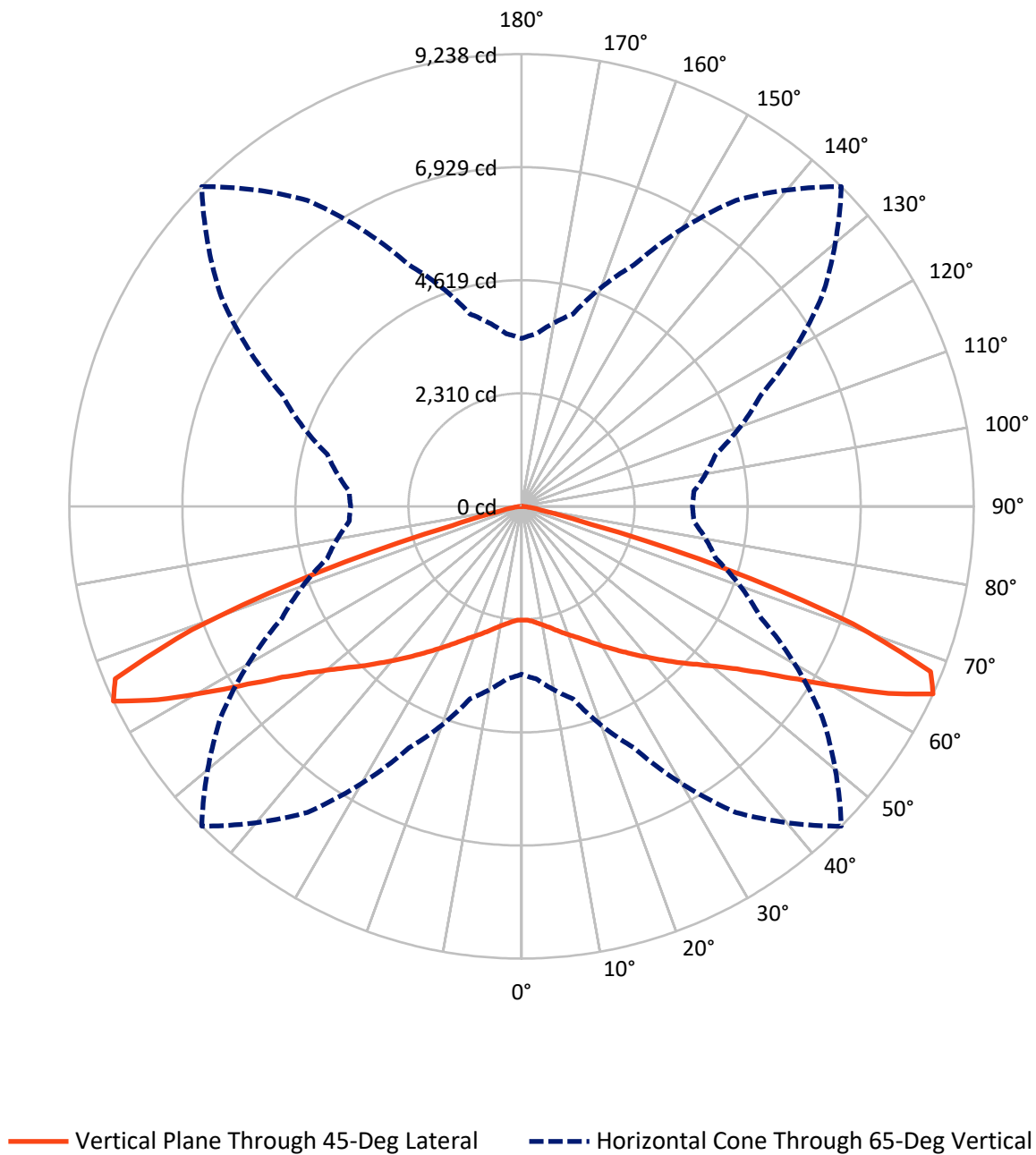


Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
Type V - Short - N/A

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Luminous Intensity Polar Plot



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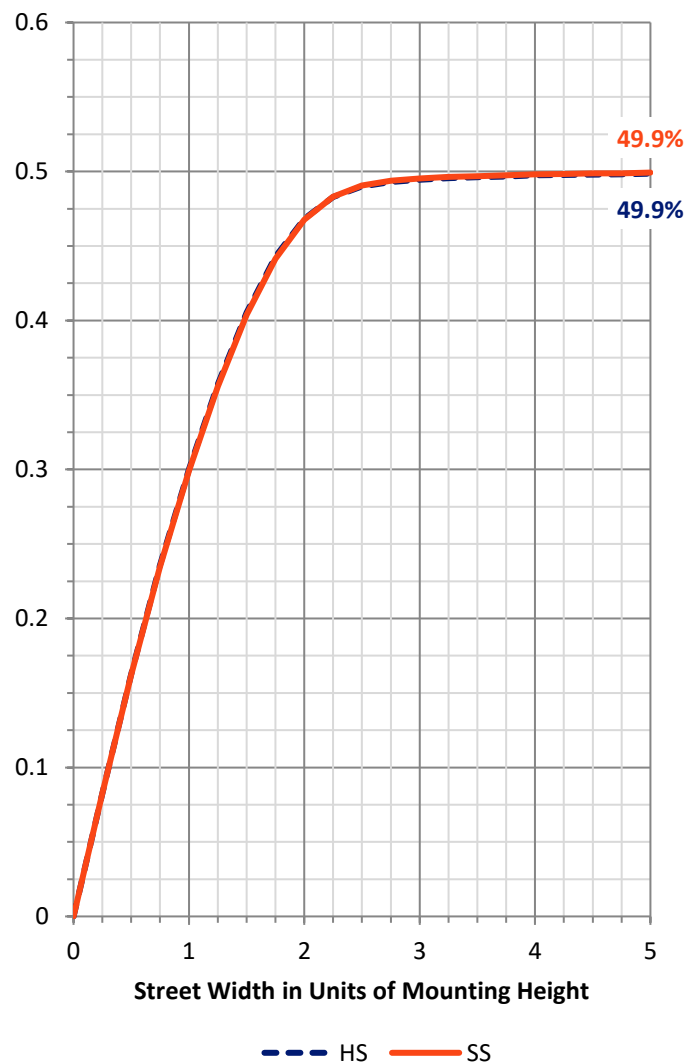
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9768.0	0.0	9768.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9768.0	0.0	9768.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19536.0	0.0	19536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.5	1.2
10°-20°	748.7	3.8
20°-30°	1413.7	7.2
30°-40°	2314.8	11.8
40°-50°	3589.2	18.4
50°-60°	5302.0	27.1
60°-70°	5047.0	25.8
70°-80°	814.4	4.2
80°-90°	76.8	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°	19536.0	100.0
0°-180°	19536.0	100.0

Coefficient of Utilization



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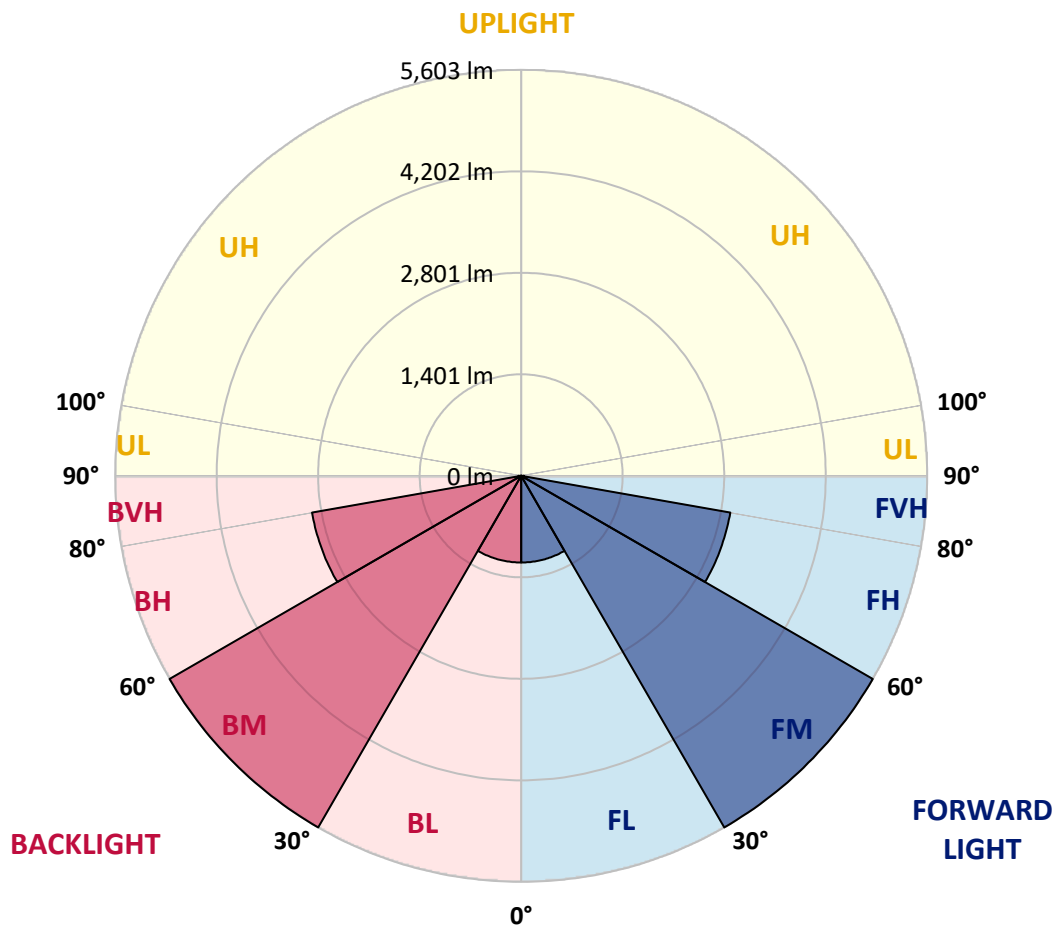
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1195.9	6.1			
FM	(30°-60°)	5603.0	28.7			
FH	(60°-80°)	2930.7	15.0			G2/5000
FVH	(80°-90°)	38.4	0.2			G1/100
BL	(0°-30°)	1195.9	6.1	B3/2500		
BM	(30°-60°)	5603.0	28.7	B4/8500		
BH	(60°-80°)	2930.7	15.0	B4/5000		G2/5000
BVH	(80°-90°)	38.4	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°	90°
0°	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0	2325.0
2.5°	2340.7	2332.8	2338.7	2333.8	2329.9	2326.0	2327.9	2334.8	2337.7	2338.7	2338.7
5°	2372.0	2365.2	2368.1	2368.1	2361.2	2359.3	2360.3	2365.2	2371.0	2371.0	2371.0
7.5°	2423.0	2416.1	2423.0	2419.1	2413.2	2411.2	2410.3	2414.2	2423.0	2423.0	2420.1
10°	2484.7	2476.9	2480.8	2478.9	2472.0	2469.1	2468.1	2474.0	2481.8	2480.8	2478.9
12.5°	2552.4	2543.6	2548.5	2542.6	2540.6	2537.7	2537.7	2536.7	2541.6	2537.7	2539.6
15°	2627.9	2622.0	2623.9	2620.0	2623.0	2621.0	2613.2	2609.2	2611.2	2605.3	2606.3
17.5°	2717.1	2703.3	2710.2	2708.2	2708.2	2712.1	2699.4	2694.5	2698.4	2692.5	2697.4
20°	2820.0	2806.2	2809.2	2805.3	2800.4	2804.3	2788.6	2792.5	2795.5	2791.5	2800.4
22.5°	2932.7	2915.0	2914.1	2916.0	2905.2	2906.2	2895.4	2905.2	2911.1	2900.3	2911.1
25°	3048.3	3029.7	3042.5	3037.6	3023.8	3026.8	3018.9	3028.7	3033.6	3019.9	3035.6
27.5°	3170.9	3158.1	3169.9	3172.8	3156.2	3167.9	3156.2	3165.0	3169.9	3149.3	3165.0
30°	3314.0	3301.2	3312.0	3319.9	3300.3	3318.9	3309.1	3315.0	3315.9	3291.4	3306.1
32.5°	3469.8	3450.2	3477.7	3481.6	3460.0	3482.6	3469.8	3477.7	3482.6	3449.2	3471.8
35°	3660.0	3635.5	3666.8	3661.9	3643.3	3661.9	3650.2	3661.9	3673.7	3633.5	3658.0
37.5°	3864.8	3839.4	3872.7	3863.9	3846.2	3859.0	3852.1	3859.9	3878.6	3835.4	3861.9
40°	4090.3	4058.9	4104.0	4088.3	4071.7	4069.7	4073.6	4078.5	4103.0	4055.0	4070.7
42.5°	4331.4	4298.1	4365.7	4341.2	4317.7	4302.0	4314.7	4324.5	4348.1	4294.2	4322.6
45°	4606.8	4568.6	4656.8	4627.4	4590.2	4557.8	4578.4	4593.1	4627.4	4562.7	4596.0
47.5°	4910.7	4867.6	4961.7	4952.8	4892.1	4821.5	4868.5	4910.7	4936.2	4857.8	4884.2
50°	5207.7	5174.4	5297.9	5308.6	5234.1	5135.1	5200.8	5264.5	5271.4	5168.5	5181.2
52.5°	5486.0	5452.7	5632.1	5699.7	5633.1	5515.5	5585.0	5649.7	5597.8	5464.5	5468.4
55°	5708.5	5681.1	5909.5	6084.0	6106.5	6009.5	6050.6	6048.7	5878.1	5673.3	5680.1
57.5°	5762.5	5758.5	6046.7	6416.2	6651.5	6663.2	6581.9	6374.1	6006.5	5731.1	5713.5
60°	5517.4	5541.9	5937.9	6589.7	7217.0	7477.8	7125.9	6532.9	5860.5	5478.2	5433.1
62.5°	4784.2	4848.9	5326.3	6378.0	7673.8	8414.8	7562.1	6291.8	5260.6	4761.7	4732.3
65°	3428.7	3541.4	4068.7	5442.9	7632.6	9238.2	7499.3	5398.8	4107.9	3532.6	3490.4
67.5°	1555.5	1670.2	2118.2	3726.6	6634.8	9014.7	6619.1	3765.8	2224.0	1676.1	1651.6
70°	563.6	583.2	727.3	1491.8	4240.2	7182.7	4421.6	1502.6	773.4	621.4	613.6
72.5°	341.1	344.0	374.4	534.2	1473.2	4360.8	1535.9	551.8	382.3	339.1	345.0
75°	216.6	214.7	266.6	326.4	522.4	1471.2	547.9	326.4	265.6	242.1	244.1
77.5°	155.8	160.7	191.1	244.1	329.3	498.9	323.5	233.3	191.1	156.8	159.8
80°	116.6	119.6	139.2	190.2	231.3	310.7	205.8	172.5	144.1	98.0	101.0
82.5°	84.3	84.3	91.2	138.2	141.1	167.6	111.7	121.5	95.1	69.6	69.6
85°	50.0	49.0	56.9	82.3	73.5	61.8	51.0	74.5	59.8	43.1	42.1
87.5°	17.6	18.6	17.6	23.5	19.6	16.7	15.7	20.6	16.7	14.7	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)