

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: P949178

Luminaire Tested: **GALN-SB4A-735-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949178
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-SB4A-735-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18839 lumens
Efficiency: N/A
Efficacy: 165.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

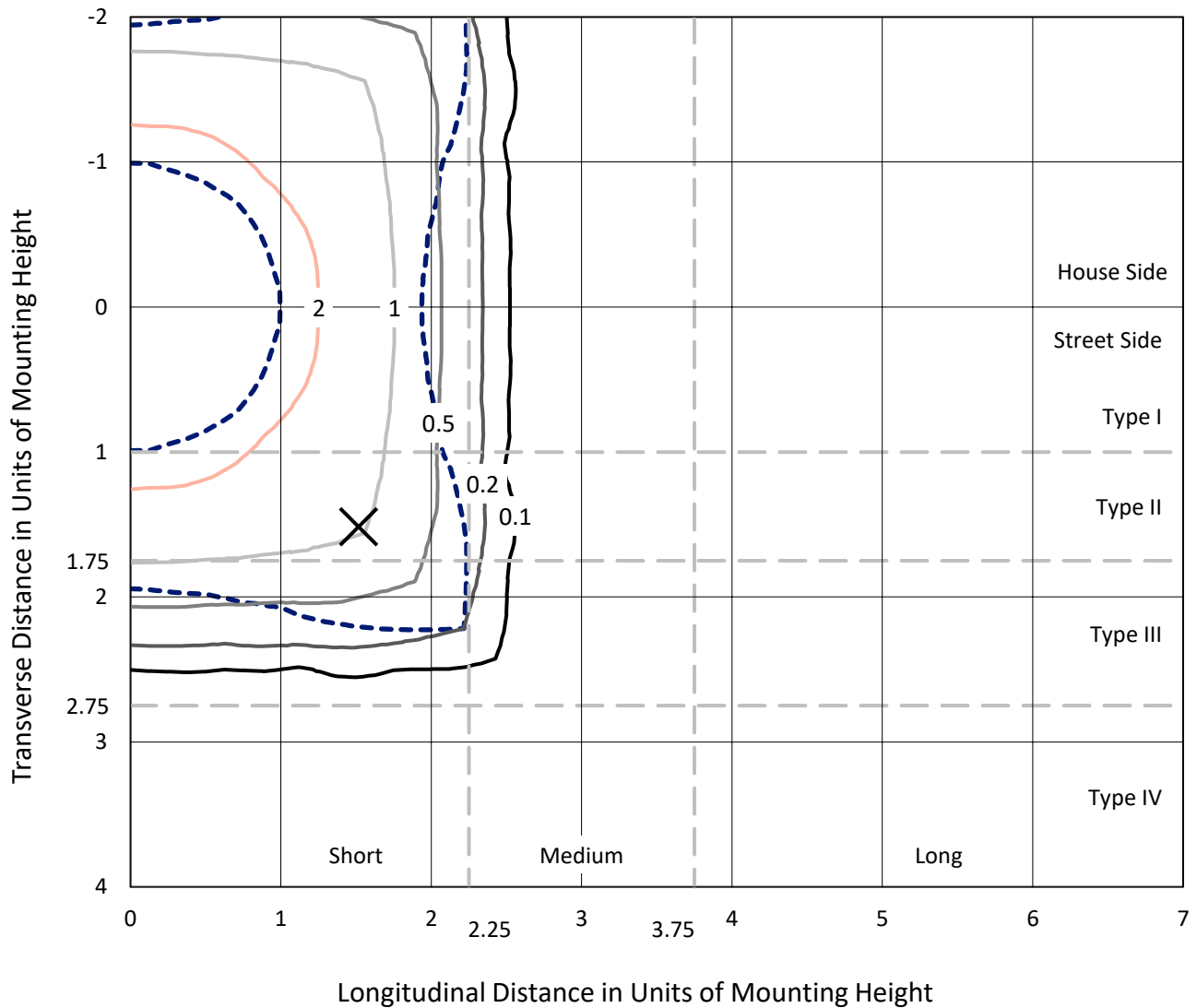
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

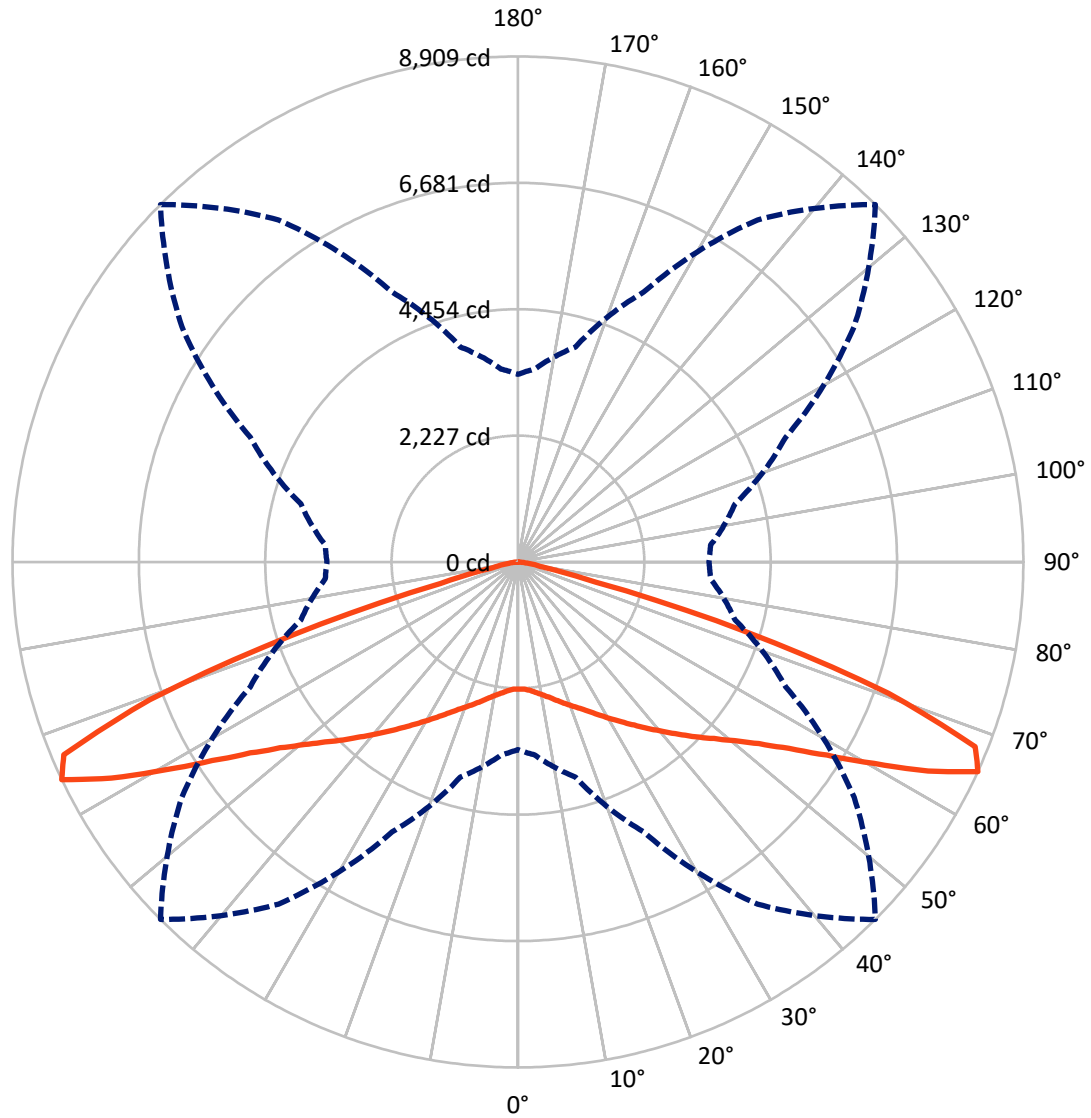
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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	9419.5	0.0	9419.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9419.5	0.0	9419.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18839.0	0.0	18839.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.3	1.2
10°-20°	722.0	3.8
20°-30°	1363.2	7.2
30°-40°	2232.3	11.8
40°-50°	3461.1	18.4
50°-60°	5112.8	27.1
60°-70°	4866.9	25.8
70°-80°	785.3	4.2
80°-90°	74.0	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°	18839.0	100.0
0°-180°	18839.0	100.0



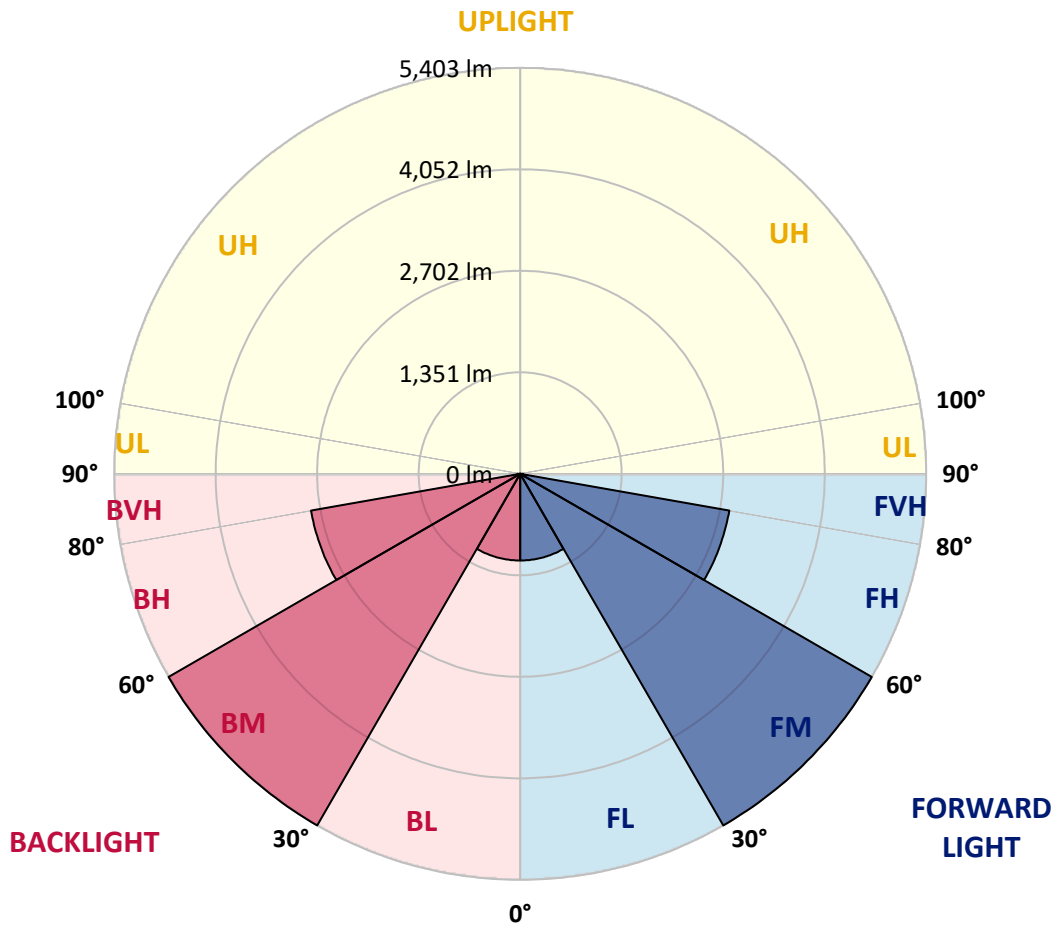
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1153.3	6.1			
FM (30°-60°)	5403.1	28.7			
FH (60°-80°)	2826.1	15.0			G2/5000
FVH (80°-90°)	37.0	0.2			G1/100
BL (0°-30°)	1153.3	6.1	B3/2500		
BM (30°-60°)	5403.1	28.7	B4/8500		
BH (60°-80°)	2826.1	15.0	B4/5000		G2/5000
BVH (80°-90°)	37.0	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°	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0	2242.0
2.5°	2257.2	2249.6	2255.3	2250.5	2246.8	2243.0	2244.9	2251.5	2254.3	2255.3
5°	2287.4	2280.8	2283.6	2283.6	2277.0	2275.1	2276.1	2280.8	2286.5	2286.5
7.5°	2336.6	2329.9	2336.6	2332.8	2327.1	2325.2	2324.3	2328.0	2336.6	2336.6
10°	2396.1	2388.5	2392.3	2390.4	2383.8	2381.0	2380.0	2385.7	2393.3	2392.3
12.5°	2461.3	2452.8	2457.5	2451.9	2450.0	2447.1	2447.1	2446.2	2450.9	2447.1
15°	2534.1	2528.4	2530.3	2526.5	2529.4	2527.5	2519.9	2516.1	2518.0	2512.4
17.5°	2620.1	2606.9	2613.5	2611.6	2611.6	2615.4	2603.1	2598.4	2602.2	2596.5
20°	2719.4	2706.1	2709.0	2705.2	2700.5	2704.2	2689.1	2692.9	2695.7	2691.9
22.5°	2828.1	2811.0	2810.1	2812.0	2801.6	2802.5	2792.1	2801.6	2807.3	2796.9
25°	2939.6	2921.6	2933.9	2929.2	2916.0	2918.8	2911.2	2920.7	2925.4	2912.2
27.5°	3057.7	3045.5	3056.8	3059.6	3043.6	3054.9	3043.6	3052.1	3056.8	3036.9
30°	3195.7	3183.5	3193.9	3201.4	3182.5	3200.5	3191.0	3196.7	3197.6	3174.0
32.5°	3346.0	3327.1	3353.6	3357.4	3336.6	3358.3	3346.0	3353.6	3358.3	3326.2
35°	3529.4	3505.8	3536.0	3531.3	3513.3	3531.3	3519.9	3531.3	3542.6	3503.9
37.5°	3726.9	3702.4	3734.5	3726.0	3709.0	3721.3	3714.7	3722.2	3740.2	3698.6
40°	3944.3	3914.1	3957.6	3942.5	3926.4	3924.5	3928.3	3933.0	3956.6	3910.3
42.5°	4176.9	4144.7	4209.9	4186.3	4163.6	4148.5	4160.8	4170.3	4192.9	4140.9
45°	4442.5	4405.6	4490.7	4462.3	4426.4	4395.2	4415.1	4429.2	4462.3	4399.9
47.5°	4735.5	4693.9	4784.6	4776.1	4717.5	4649.5	4694.8	4735.5	4760.1	4684.4
50°	5021.9	4989.7	5108.8	5119.2	5047.4	4951.9	5015.3	5076.7	5083.3	4984.1
52.5°	5290.3	5258.2	5431.2	5496.4	5432.1	5318.7	5385.8	5448.2	5398.1	5269.5
55°	5504.9	5478.4	5698.6	5866.9	5888.6	5795.1	5834.8	5832.9	5668.4	5470.9
57.5°	5556.9	5553.1	5831.0	6187.3	6414.2	6425.5	6347.1	6146.7	5792.2	5526.6
60°	5320.6	5344.2	5726.1	6354.6	6959.6	7211.0	6871.7	6299.8	5651.4	5282.8
62.5°	4613.6	4675.9	5136.3	6150.5	7400.0	8114.6	7292.3	6067.3	5072.9	4591.8
65°	3306.3	3415.0	3923.6	5248.7	7360.3	8908.6	7231.8	5206.2	3961.4	3406.5
67.5°	1500.0	1610.6	2042.6	3593.7	6398.1	8693.1	6383.0	3631.5	2144.7	1616.3
70°	543.5	562.4	701.3	1438.6	4089.0	6926.5	4263.8	1449.0	745.8	599.3
72.5°	328.9	331.8	361.1	515.1	1420.6	4205.2	1481.1	532.2	368.6	327.0
75°	208.9	207.0	257.1	314.8	503.8	1418.8	528.4	314.8	256.2	233.5
77.5°	150.3	155.0	184.3	235.4	317.6	481.1	311.9	225.0	184.3	151.2
80°	112.5	115.3	134.2	183.4	223.1	299.6	198.5	166.4	138.9	94.5
82.5°	81.3	81.3	87.9	133.3	136.1	161.6	107.8	117.2	91.7	67.1
85°	48.2	47.3	54.8	79.4	70.9	59.5	49.2	71.8	57.7	41.6
87.5°	17.0	18.0	17.0	22.7	18.9	16.1	15.1	19.8	16.1	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2242.0
2255.3
2286.5
2333.7
2390.4
2449.0
2513.3
2601.2
2700.5
2807.3
2927.3
3052.1
3188.2
3347.9
3527.5
3724.1
3925.4
4168.4
4432.1
4710.0
4996.4
5273.3
5477.5
5509.6
5239.3
4563.5
3365.9
1592.7
591.7
332.7
235.4
154.1
97.4
67.1
40.6
13.2
0.0

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