

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: P949534

Luminaire Tested: **GALN-SB4B-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949534
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-735-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23634 lumens
Efficiency: N/A
Efficacy: 160.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

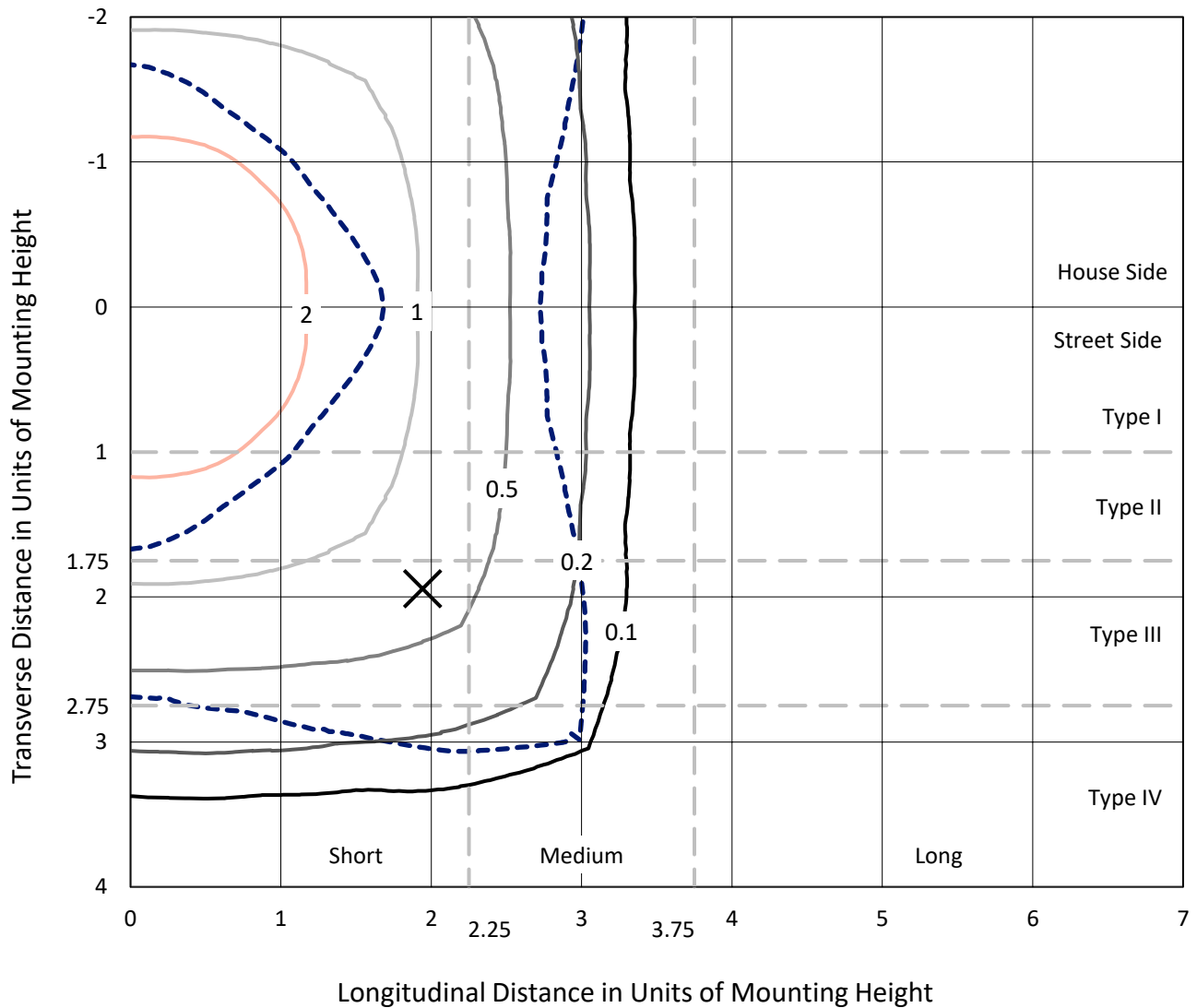
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

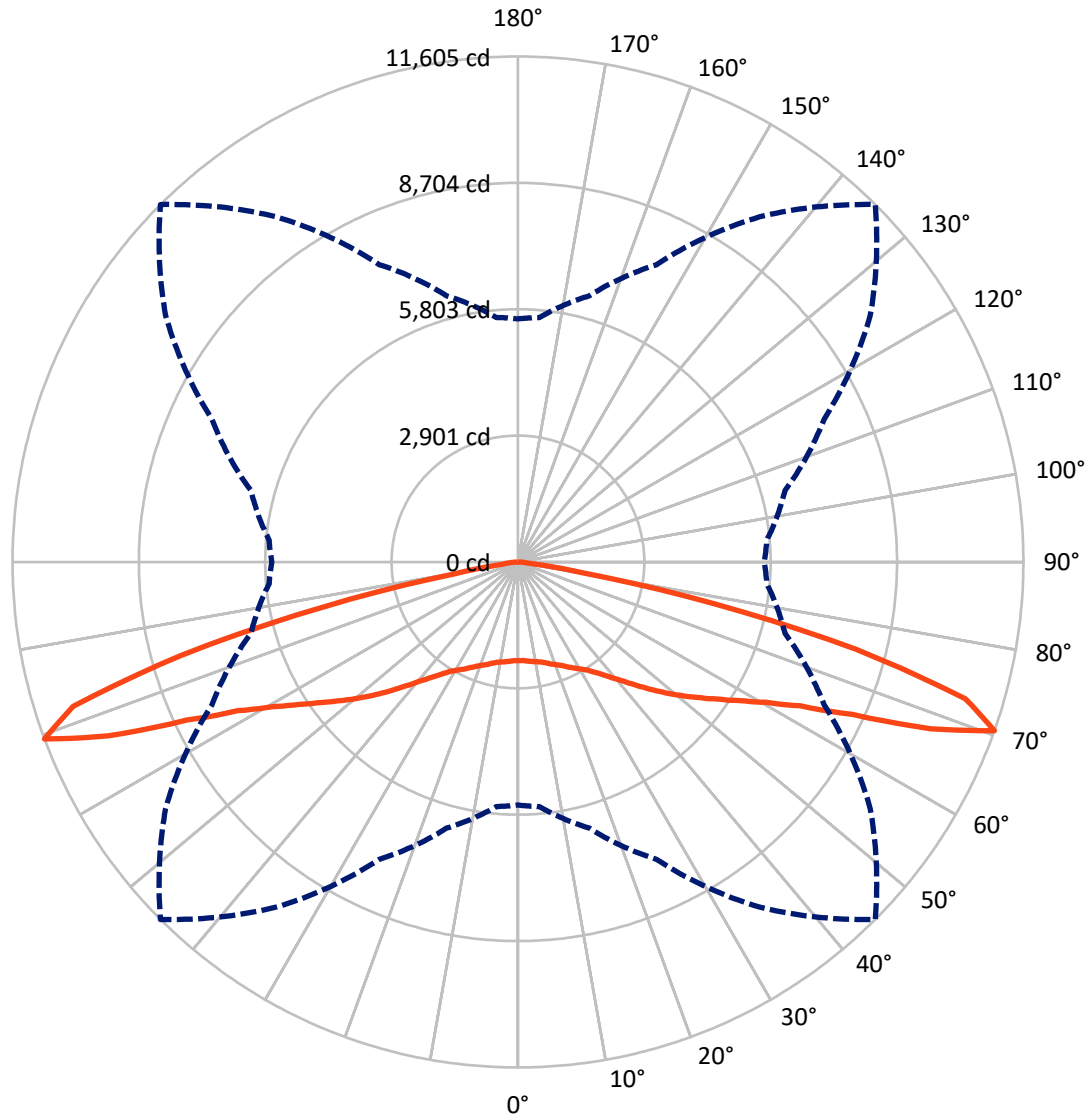
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	11817.0	0.0	11817.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11817.0	0.0	11817.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23634.0	0.0	23634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	0.9
10°-20°	682.0	2.9
20°-30°	1218.8	5.2
30°-40°	1975.7	8.4
40°-50°	3218.1	13.6
50°-60°	4906.5	20.8
60°-70°	7299.2	30.9
70°-80°	3978.3	16.8
80°-90°	135.5	0.6
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°	23634.0	100.0
0°-180°	23634.0	100.0

Coefficient of Utilization



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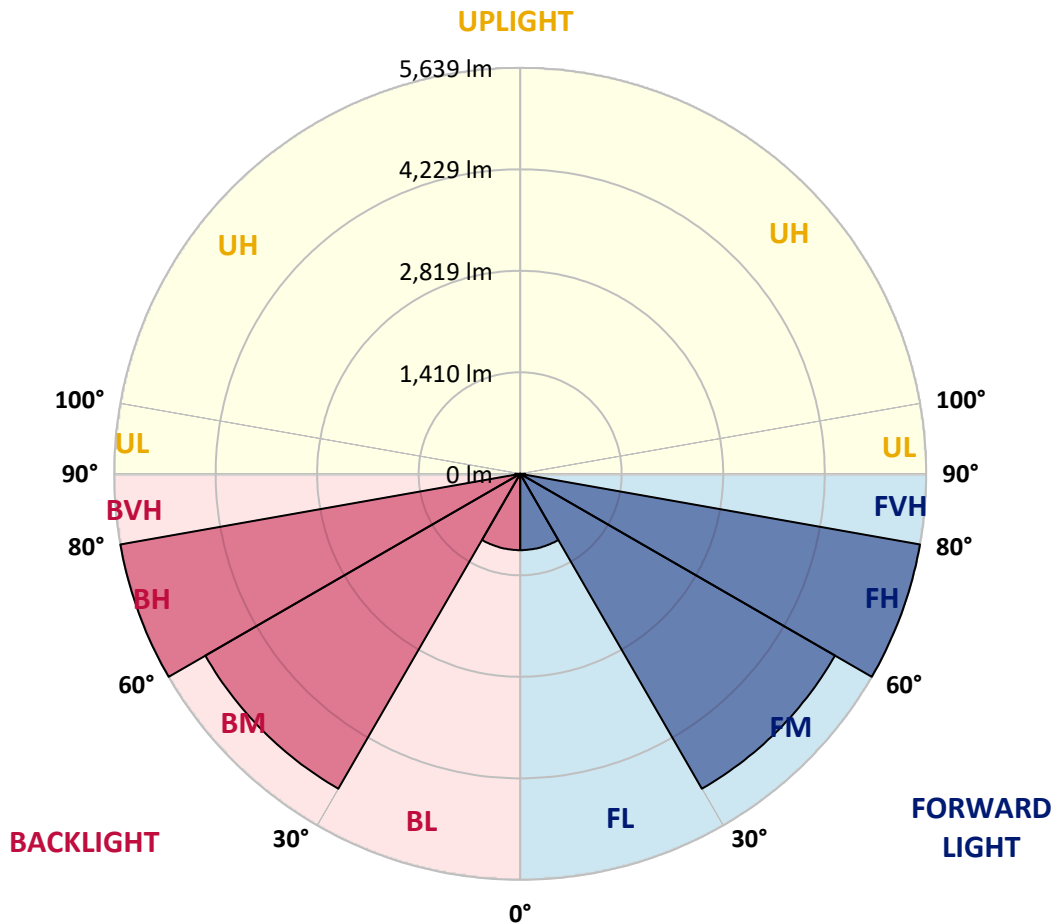
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1060.4	4.5			
FM (30°-60°)	5050.1	21.4			
FH (60°-80°)	5638.8	23.9			G3/7500
FVH (80°-90°)	67.7	0.3			G1/100
BL (0°-30°)	1060.4	4.5	B3/2500		
BM (30°-60°)	5050.1	21.4	B4/8500		
BH (60°-80°)	5638.8	23.9	B5		G3/7500
BVH (80°-90°)	67.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2263.9	2263.9	2263.9	2263.9	2263.9	2263.9	2263.9	2263.9	2263.9	2263.9
2.5°	2274.6	2276.9	2272.2	2269.8	2267.5	2263.9	2265.1	2271.0	2275.8	2274.6
5°	2293.6	2295.9	2292.4	2291.2	2286.4	2285.3	2285.3	2291.2	2294.7	2292.4
7.5°	2314.9	2318.5	2312.5	2311.4	2309.0	2306.6	2305.4	2311.4	2314.9	2314.9
10°	2335.1	2338.6	2333.9	2330.3	2328.0	2328.0	2325.6	2330.3	2336.3	2335.1
12.5°	2356.4	2358.8	2354.1	2351.7	2351.7	2355.3	2351.7	2354.1	2358.8	2356.4
15°	2382.5	2383.7	2382.5	2386.1	2392.0	2403.9	2393.2	2390.9	2393.2	2387.3
17.5°	2418.1	2420.5	2425.3	2433.6	2441.9	2463.2	2444.2	2438.3	2438.3	2426.4
20°	2462.0	2465.6	2472.7	2487.0	2497.6	2517.8	2498.8	2490.5	2487.0	2471.5
22.5°	2508.3	2514.2	2524.9	2543.9	2562.9	2581.9	2562.9	2548.7	2538.0	2517.8
25°	2561.7	2568.8	2585.4	2616.3	2642.4	2669.7	2647.1	2618.7	2597.3	2568.8
27.5°	2637.6	2646.0	2666.1	2704.1	2737.3	2761.0	2739.7	2702.9	2673.2	2638.8
30°	2744.4	2752.7	2776.5	2816.8	2839.4	2854.8	2840.5	2812.1	2776.5	2737.3
32.5°	2882.1	2892.8	2918.9	2956.8	2961.6	2963.9	2959.2	2945.0	2918.9	2871.4
35°	3056.5	3068.4	3098.0	3128.9	3124.1	3128.9	3121.8	3117.0	3098.0	3043.4
37.5°	3270.1	3284.3	3315.2	3338.9	3327.0	3321.1	3322.3	3323.5	3312.8	3252.3
40°	3518.1	3537.0	3559.6	3584.5	3564.3	3546.5	3558.4	3567.9	3558.4	3496.7
42.5°	3773.2	3800.4	3824.2	3859.8	3843.2	3820.6	3837.2	3847.9	3827.7	3761.3
45°	4056.7	4082.8	4113.7	4167.1	4155.2	4131.5	4155.2	4157.6	4123.2	4044.9
47.5°	4349.8	4377.1	4423.4	4494.6	4489.8	4463.7	4494.6	4478.0	4434.0	4340.3
50°	4627.5	4665.4	4736.6	4836.3	4845.8	4813.7	4855.3	4823.2	4749.7	4632.2
52.5°	4888.5	4928.8	5041.6	5176.8	5211.2	5169.7	5225.5	5169.7	5059.3	4908.7
55°	5162.6	5207.7	5341.7	5518.5	5587.4	5556.5	5608.7	5524.5	5367.8	5185.1
57.5°	5485.3	5512.6	5672.8	5882.8	5999.1	6006.2	6029.9	5887.5	5697.7	5490.1
60°	5835.3	5873.3	6047.7	6299.3	6483.2	6542.5	6517.6	6306.4	6085.7	5847.2
62.5°	6283.8	6325.4	6534.2	6835.6	7126.3	7273.4	7176.1	6870.0	6597.1	6311.1
65°	6655.2	6701.5	7078.8	7616.3	8145.5	8440.9	8196.5	7632.9	7141.7	6738.3
67.5°	6385.9	6442.8	7034.9	8022.1	9338.0	10219.6	9383.1	8143.1	7180.9	6633.9
70°	5581.4	5634.8	6325.4	7532.1	9673.8	11605.4	9875.5	7754.0	6347.9	5735.7
72.5°	3705.5	3877.6	4576.4	6024.0	8637.9	10739.3	8723.3	5901.8	4245.4	3697.2
75°	1229.2	1366.9	1843.9	3122.9	5785.5	8031.6	5507.9	2763.4	1460.6	1051.3
77.5°	309.7	357.1	492.4	893.5	2307.8	4572.9	2077.6	729.7	397.5	277.6
80°	150.7	166.1	237.3	297.8	577.8	1453.5	542.2	280.0	187.5	144.8
82.5°	83.1	84.2	134.1	168.5	214.8	376.1	223.1	163.7	108.0	87.8
85°	51.0	49.8	71.2	90.2	90.2	134.1	106.8	90.2	61.7	54.6
87.5°	20.2	20.2	26.1	28.5	24.9	34.4	27.3	29.7	23.7	22.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2263.9
2275.8
2293.6
2314.9
2335.1
2355.3
2387.3
2426.4
2471.5
2516.6
2567.6
2637.6
2737.3
2872.6
3043.4
3252.3
3496.7
3766.0
4053.2
4334.4
4629.8
4894.4
5160.2
5461.6
5809.2
6261.3
6671.8
6552.0
5653.8
3577.4
994.3
248.0
132.9
87.8
57.0
23.7
0.0

OF REPORT)