

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: P949661

Luminaire Tested: **GALN-SB4B-835-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949661
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-835-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21935 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

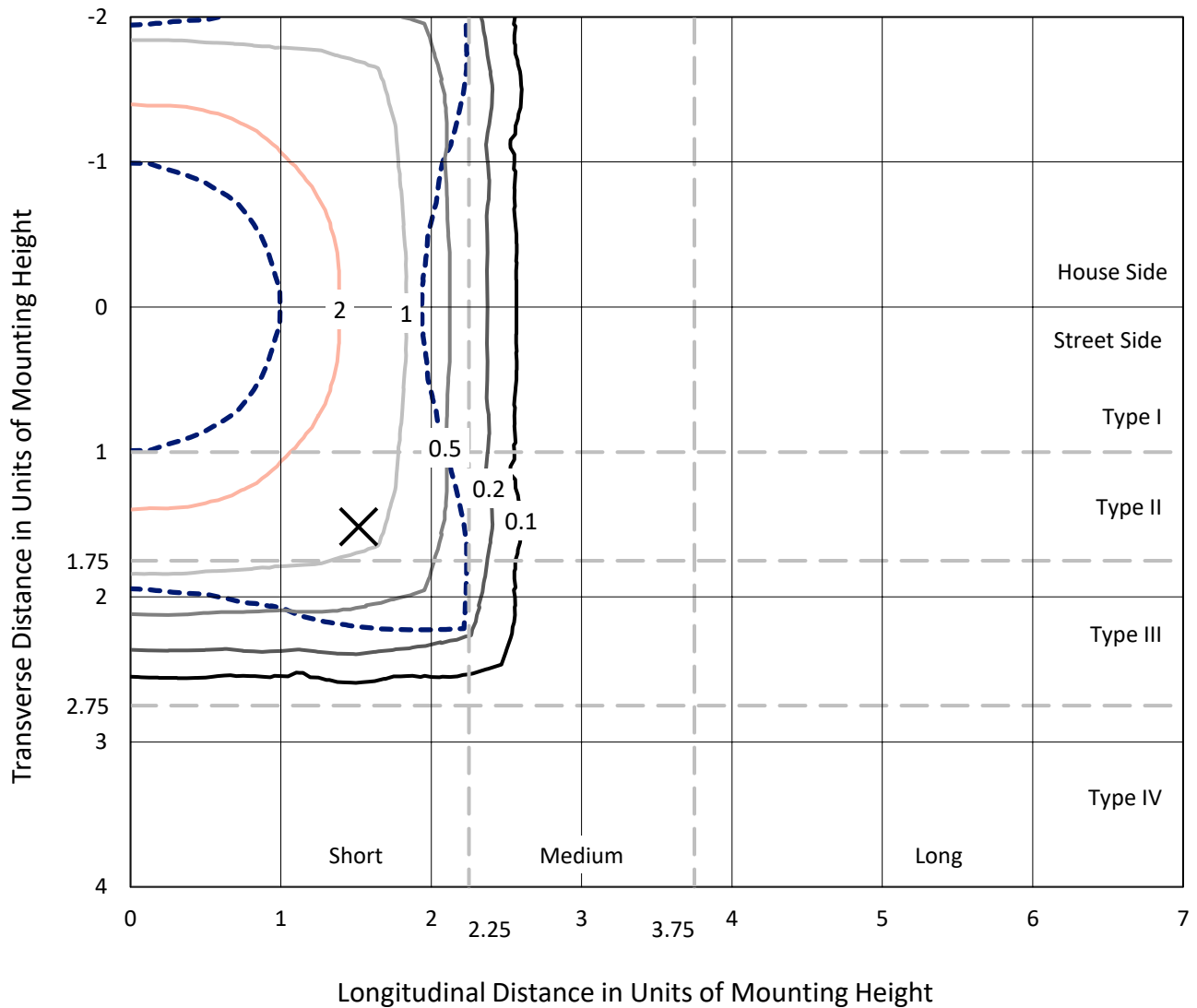
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

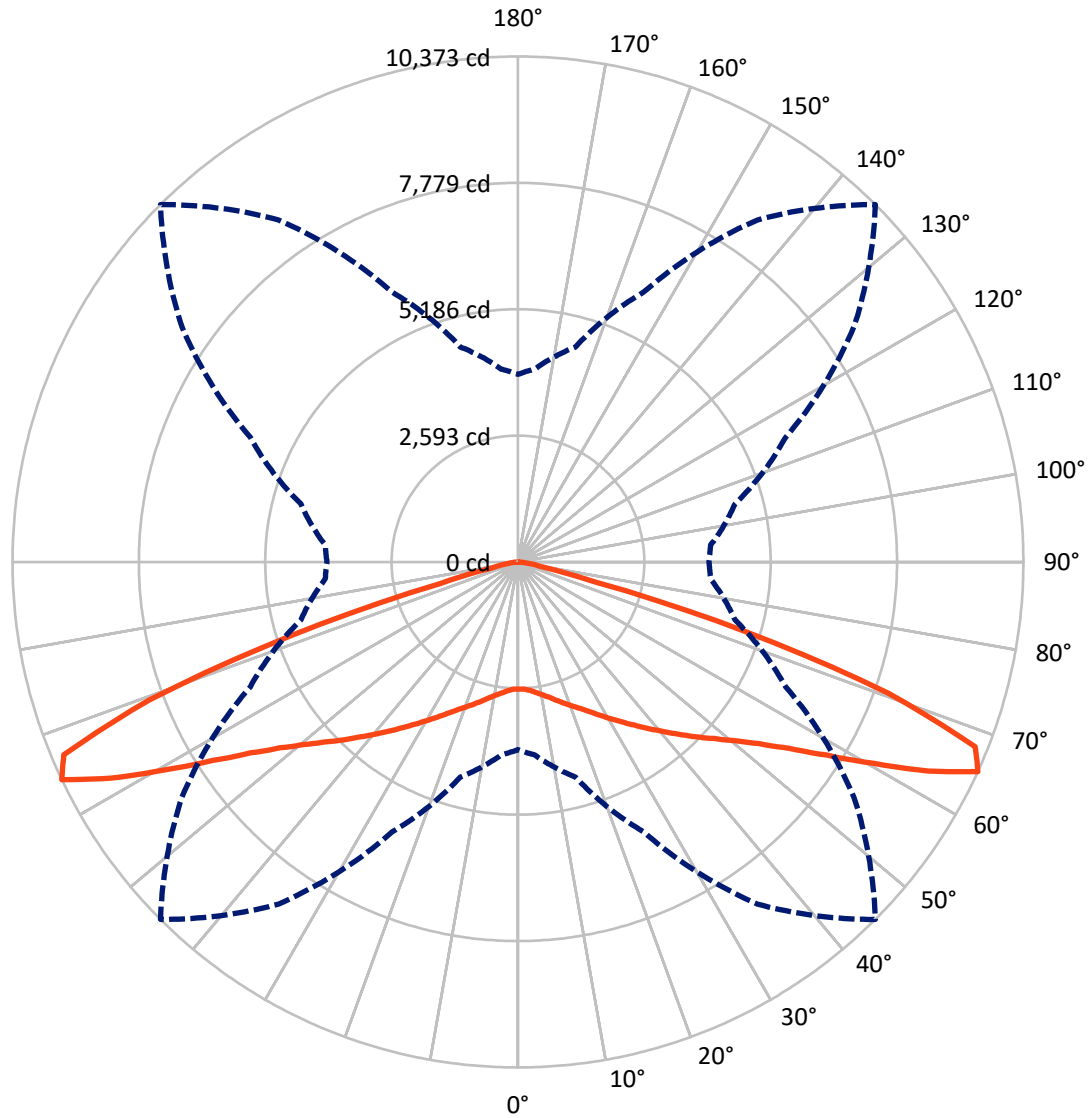
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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	10967.5	0.0	10967.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10967.5	0.0	10967.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21935.0	0.0	21935.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.6	1.2
10°-20°	840.7	3.8
20°-30°	1587.3	7.2
30°-40°	2599.1	11.8
40°-50°	4029.9	18.4
50°-60°	5953.0	27.1
60°-70°	5666.7	25.8
70°-80°	914.4	4.2
80°-90°	86.2	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°	21935.0	100.0
0°-180°	21935.0	100.0

Coefficient of Utilization



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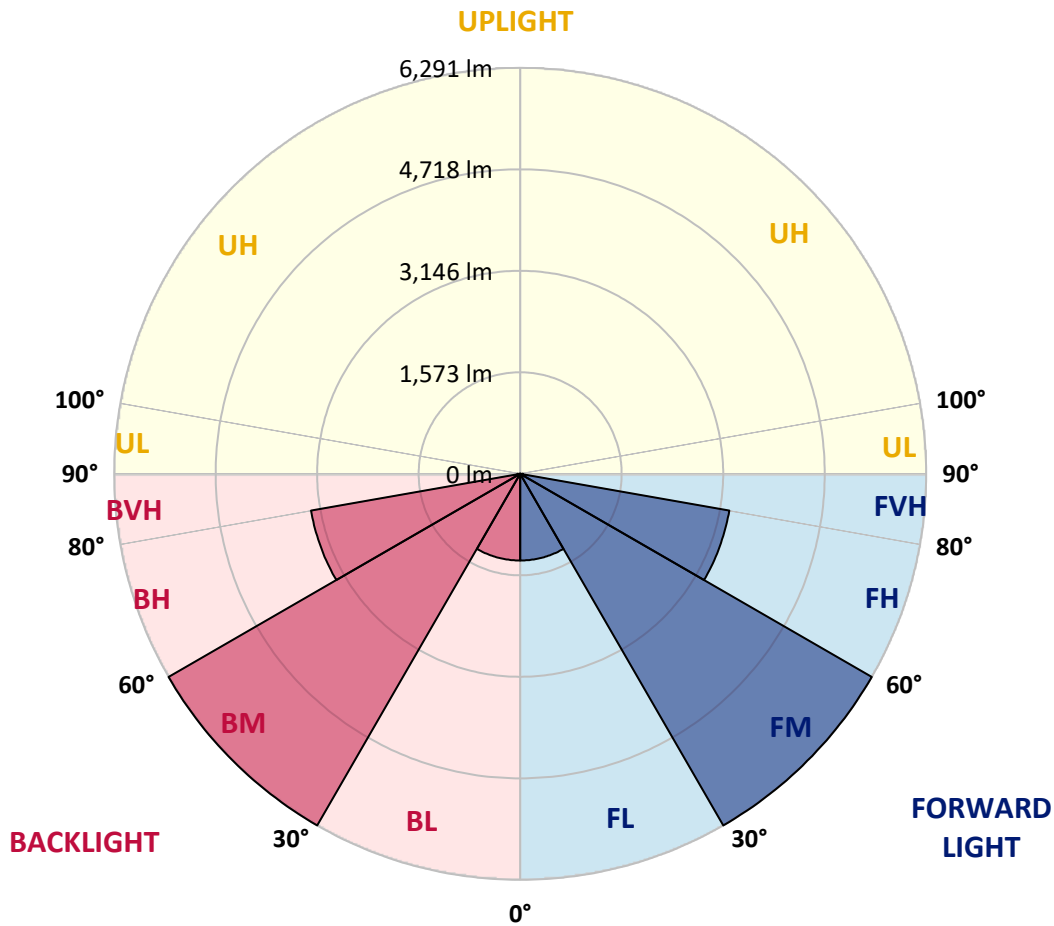
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1342.8	6.1			
FM (30°-60°)	6291.0	28.7			
FH (60°-80°)	3290.6	15.0			G2/5000
FVH (80°-90°)	43.1	0.2			G1/100
BL (0°-30°)	1342.8	6.1	B3/2500		
BM (30°-60°)	6291.0	28.7	B4/8500		
BH (60°-80°)	3290.6	15.0	B4/5000		G2/5000
BVH (80°-90°)	43.1	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°	2610.5	2610.5	2610.5	2610.5	2610.5	2610.5	2610.5	2610.5	2610.5	2610.5
2.5°	2628.1	2619.3	2625.9	2620.4	2616.0	2611.6	2613.8	2621.5	2624.8	2625.9
5°	2663.3	2655.6	2658.9	2658.9	2651.2	2649.0	2650.1	2655.6	2662.2	2662.2
7.5°	2720.5	2712.8	2720.5	2716.1	2709.5	2707.3	2706.2	2710.6	2720.5	2720.5
10°	2789.9	2781.1	2785.5	2783.3	2775.6	2772.3	2771.2	2777.8	2786.6	2785.5
12.5°	2865.8	2855.9	2861.4	2854.8	2852.6	2849.3	2849.3	2848.2	2853.7	2849.3
15°	2950.6	2943.9	2946.1	2941.7	2945.0	2942.8	2934.0	2929.6	2931.8	2925.2
17.5°	3050.7	3035.3	3043.0	3040.8	3040.8	3045.2	3030.9	3025.4	3029.8	3023.2
20°	3166.3	3150.9	3154.2	3149.7	3144.2	3148.6	3131.0	3135.4	3138.7	3134.3
22.5°	3292.8	3273.0	3271.9	3274.1	3262.0	3263.1	3251.0	3262.0	3268.6	3256.5
25°	3422.7	3401.8	3416.1	3410.6	3395.2	3398.5	3389.7	3400.7	3406.2	3390.8
27.5°	3560.3	3545.9	3559.2	3562.5	3543.7	3557.0	3543.7	3553.6	3559.2	3536.0
30°	3720.9	3706.6	3718.7	3727.5	3705.5	3726.4	3715.4	3722.0	3723.1	3695.6
32.5°	3895.9	3873.9	3904.7	3909.1	3884.9	3910.2	3895.9	3904.7	3910.2	3872.8
35°	4109.4	4081.9	4117.1	4111.6	4090.7	4111.6	4098.4	4111.6	4124.8	4079.7
37.5°	4339.4	4310.8	4348.2	4338.3	4318.5	4332.8	4325.1	4333.9	4354.8	4306.4
40°	4592.6	4557.3	4608.0	4590.4	4571.6	4569.4	4573.9	4579.4	4606.9	4552.9
42.5°	4863.3	4825.9	4901.8	4874.3	4847.9	4830.3	4844.6	4855.6	4882.0	4821.5
45°	5172.5	5129.6	5228.7	5195.7	5153.8	5117.5	5140.6	5157.1	5195.7	5123.0
47.5°	5513.7	5465.3	5570.9	5561.0	5492.8	5413.6	5466.4	5513.7	5542.3	5454.3
50°	5847.2	5809.8	5948.4	5960.5	5876.9	5765.7	5839.5	5911.0	5918.7	5803.2
52.5°	6159.7	6122.3	6323.7	6399.6	6324.8	6192.7	6270.9	6343.5	6285.2	6135.5
55°	6409.6	6378.7	6635.2	6831.1	6856.4	6747.4	6793.6	6791.4	6599.9	6369.9
57.5°	6470.1	6465.7	6789.2	7204.1	7468.3	7481.5	7390.1	7156.8	6744.1	6434.9
60°	6194.9	6222.5	6667.1	7398.9	8103.3	8396.0	8000.9	7335.1	6580.1	6150.9
62.5°	5371.7	5444.4	5980.3	7161.2	8616.1	9448.1	8490.7	7064.4	5906.6	5346.4
65°	3849.7	3976.3	4568.3	6111.3	8569.9	10372.6	8420.2	6061.8	4612.4	3966.4
67.5°	1746.6	1875.3	2378.3	4184.3	7449.6	10121.7	7432.0	4228.3	2497.1	1881.9
70°	632.8	654.8	816.6	1675.0	4760.9	8064.8	4964.5	1687.1	868.3	697.7
72.5°	383.0	386.3	420.4	599.8	1654.1	4896.3	1724.5	619.6	429.2	380.8
75°	243.2	241.0	299.3	366.5	586.6	1651.9	615.2	366.5	298.2	271.8
77.5°	175.0	180.5	214.6	274.0	369.8	560.2	363.2	261.9	214.6	176.1
80°	131.0	134.3	156.3	213.5	259.7	348.9	231.1	193.7	161.8	110.1
82.5°	94.6	94.6	102.4	155.2	158.5	188.2	125.5	136.5	106.8	78.1
85°	56.1	55.0	63.8	92.4	82.5	69.3	57.2	83.6	67.1	48.4
87.5°	19.8	20.9	19.8	26.4	22.0	18.7	17.6	23.1	18.7	16.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2610.5
2625.9
2662.2
2717.2
2783.3
2851.5
2926.3
3028.7
3144.2
3268.6
3408.4
3553.6
3712.1
3898.1
4107.2
4336.1
4570.5
4853.4
5160.4
5484.0
5817.5
6139.9
6377.6
6415.1
6100.3
5313.4
3919.0
1854.4
688.9
387.4
274.0
179.4
113.4
78.1
47.3
15.4
0.0

OF REPORT)