

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: P949640

Luminaire Tested: **GALN-SB4B-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949640
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-830-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21250 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

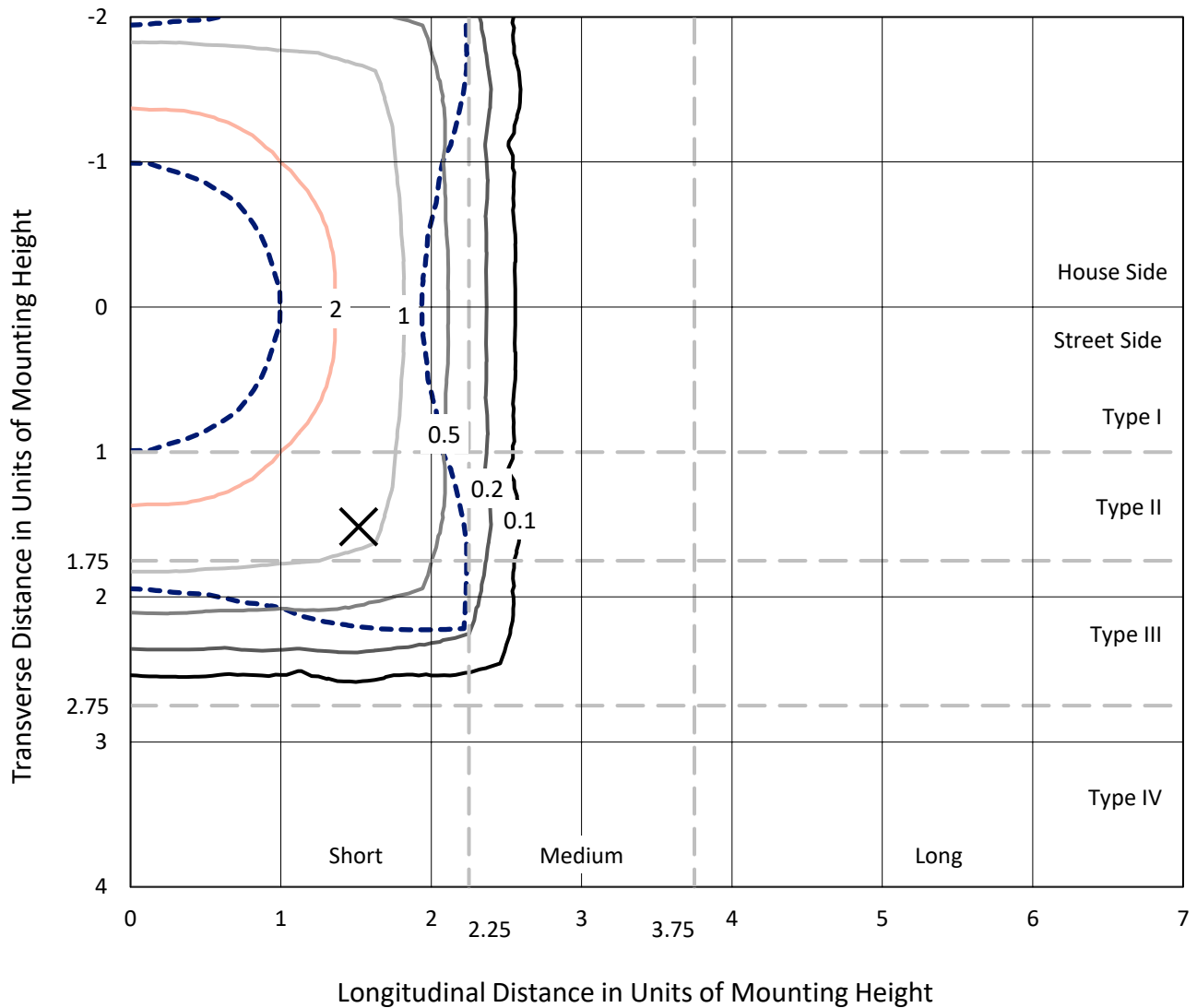
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

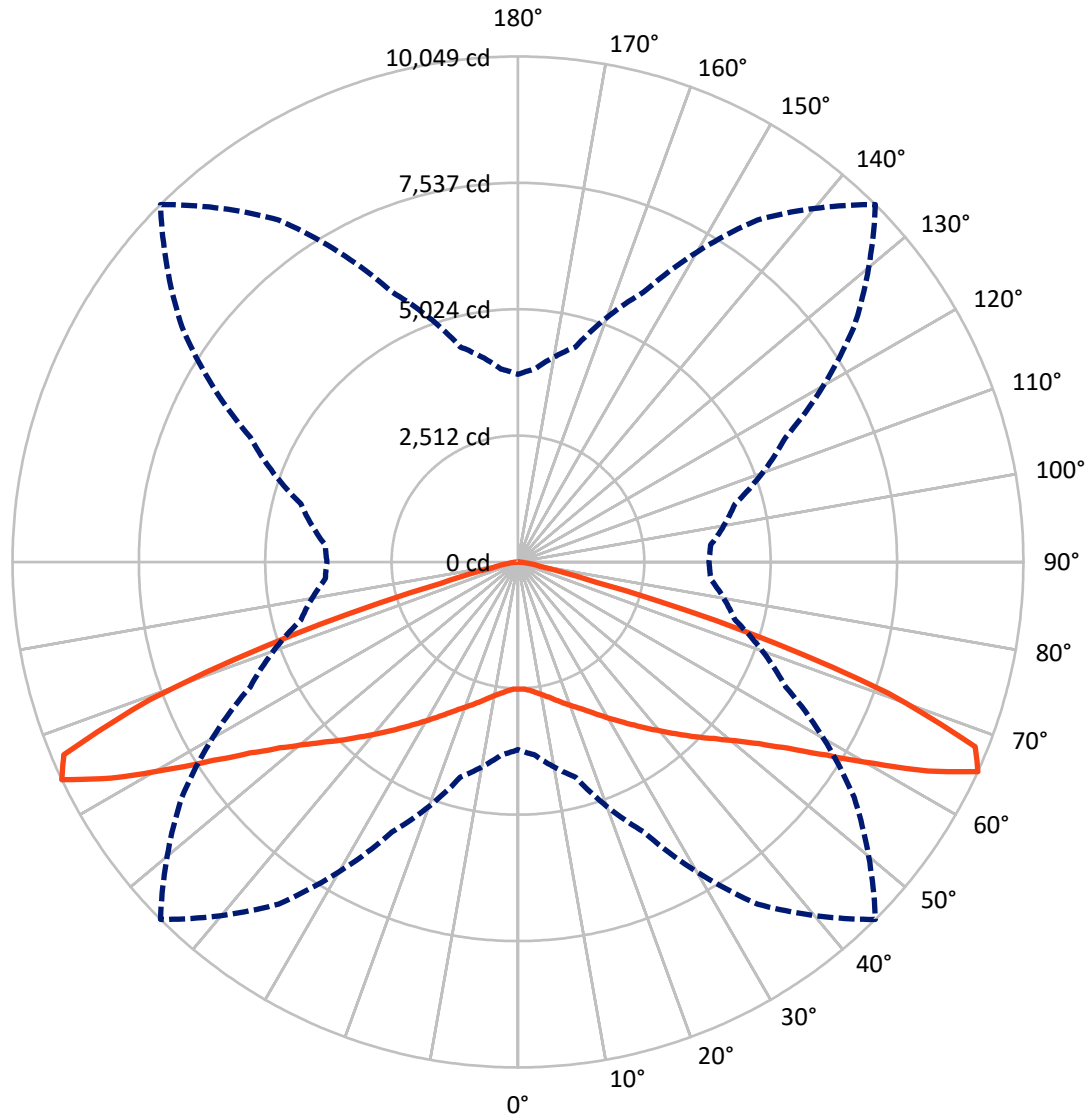
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	10625.0	0.0	10625.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10625.0	0.0	10625.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21250.0	0.0	21250.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.6	1.2
10°-20°	814.4	3.8
20°-30°	1537.7	7.2
30°-40°	2517.9	11.8
40°-50°	3904.1	18.4
50°-60°	5767.1	27.1
60°-70°	5489.8	25.8
70°-80°	885.8	4.2
80°-90°	83.5	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°	21250.0	100.0
0°-180°	21250.0	100.0



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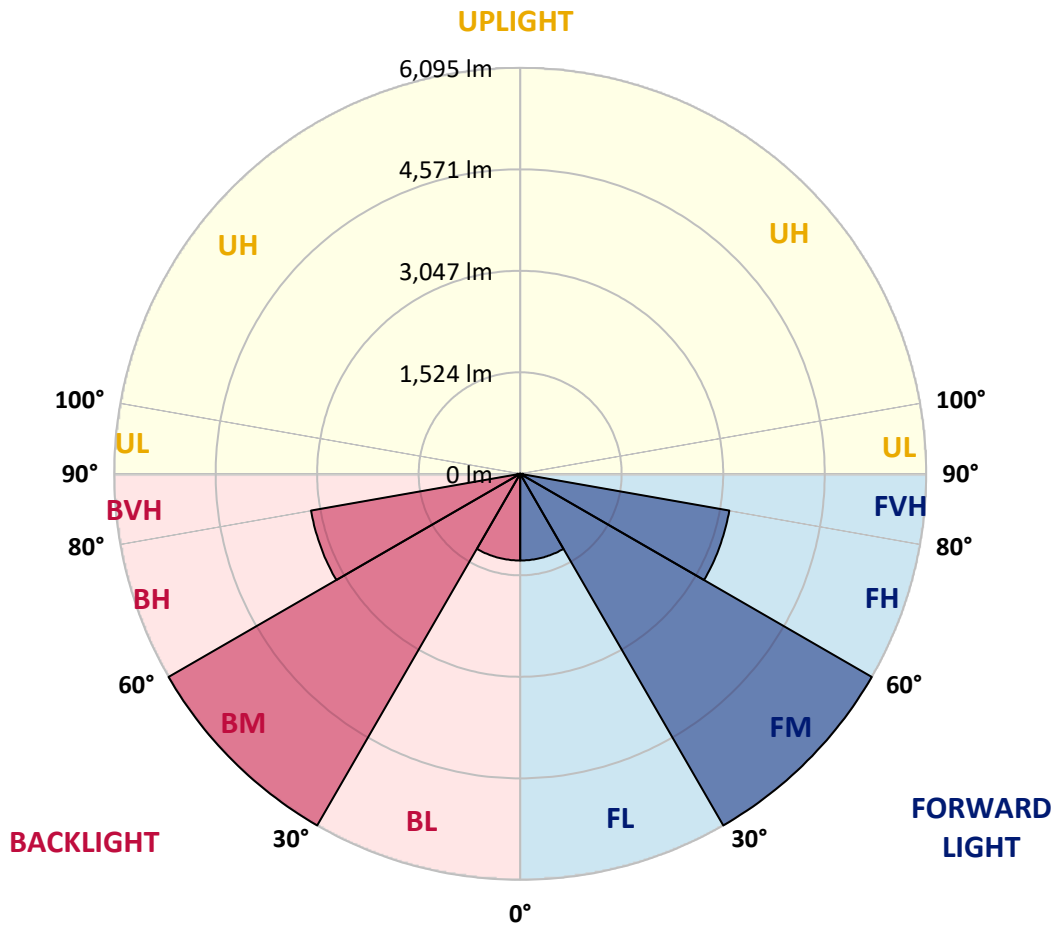
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1300.9	6.1			
FM (30°-60°)	6094.6	28.7			
FH (60°-80°)	3187.8	15.0			G2/5000
FVH (80°-90°)	41.7	0.2			G1/100
BL (0°-30°)	1300.9	6.1	B3/2500		
BM (30°-60°)	6094.6	28.7	B4/8500		
BH (60°-80°)	3187.8	15.0	B4/5000		G2/5000
BVH (80°-90°)	41.7	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°	2529.0	2529.0	2529.0	2529.0	2529.0	2529.0	2529.0	2529.0	2529.0	2529.0
2.5°	2546.0	2537.5	2543.9	2538.6	2534.3	2530.0	2532.2	2539.6	2542.8	2543.9
5°	2580.1	2572.7	2575.9	2575.9	2568.4	2566.3	2567.3	2572.7	2579.1	2579.1
7.5°	2635.6	2628.1	2635.6	2631.3	2624.9	2622.8	2621.7	2626.0	2635.6	2635.6
10°	2702.7	2694.2	2698.5	2696.4	2688.9	2685.7	2684.6	2691.0	2699.6	2698.5
12.5°	2776.3	2766.7	2772.0	2765.7	2763.5	2760.3	2760.3	2759.3	2764.6	2760.3
15°	2858.4	2852.0	2854.1	2849.9	2853.1	2850.9	2842.4	2838.2	2840.3	2833.9
17.5°	2955.4	2940.5	2948.0	2945.8	2945.8	2950.1	2936.2	2930.9	2935.2	2928.8
20°	3067.4	3052.5	3055.7	3051.4	3046.1	3050.3	3033.3	3037.5	3040.7	3036.5
22.5°	3190.0	3170.8	3169.7	3171.9	3160.1	3161.2	3149.5	3160.1	3166.5	3154.8
25°	3315.8	3295.5	3309.4	3304.1	3289.1	3292.3	3283.8	3294.5	3299.8	3284.9
27.5°	3449.1	3435.2	3448.0	3451.2	3433.1	3445.9	3433.1	3442.7	3448.0	3425.6
30°	3604.7	3590.9	3602.6	3611.1	3589.8	3610.1	3599.4	3605.8	3606.9	3580.2
32.5°	3774.3	3752.9	3782.8	3787.0	3763.6	3788.1	3774.3	3782.8	3788.1	3751.9
35°	3981.1	3954.4	3988.6	3983.2	3963.0	3983.2	3970.4	3983.2	3996.0	3952.3
37.5°	4203.9	4176.2	4212.4	4202.9	4183.7	4197.5	4190.1	4198.6	4218.8	4171.9
40°	4449.1	4415.0	4464.1	4447.0	4428.9	4426.8	4431.0	4436.3	4463.0	4410.8
42.5°	4711.4	4675.2	4748.7	4722.1	4696.5	4679.4	4693.3	4704.0	4729.5	4670.9
45°	5011.0	4969.4	5065.4	5033.4	4992.9	4957.7	4980.1	4996.1	5033.4	4963.0
47.5°	5341.5	5294.6	5397.0	5387.4	5321.3	5244.5	5295.7	5341.5	5369.2	5284.0
50°	5664.6	5628.3	5762.7	5774.4	5693.4	5585.7	5657.1	5726.4	5733.9	5621.9
52.5°	5967.4	5931.1	6126.2	6199.8	6127.3	5999.4	6075.1	6145.4	6088.9	5943.9
55°	6209.4	6179.5	6428.0	6617.7	6642.3	6536.7	6581.5	6579.4	6393.8	6171.0
57.5°	6268.0	6263.8	6577.2	6979.2	7235.1	7247.8	7159.4	6933.3	6533.5	6233.9
60°	6001.5	6028.1	6458.9	7167.9	7850.2	8133.8	7751.1	7106.0	6374.6	5958.8
62.5°	5204.0	5274.4	5793.6	6937.6	8347.1	9153.1	8225.5	6843.8	5722.2	5179.5
65°	3729.5	3852.1	4425.7	5920.5	8302.3	10048.7	8157.3	5872.5	4468.3	3842.5
67.5°	1692.0	1816.8	2304.0	4053.6	7216.9	9805.6	7199.9	4096.2	2419.1	1823.2
70°	613.0	634.4	791.1	1622.7	4612.3	7812.9	4809.5	1634.4	841.2	676.0
72.5°	371.0	374.2	407.3	581.1	1602.5	4743.4	1670.7	600.3	415.8	368.9
75°	235.6	233.5	290.0	355.0	568.3	1600.3	596.0	355.0	288.9	263.3
77.5°	169.5	174.9	207.9	265.5	358.2	542.7	351.8	253.7	207.9	170.6
80°	126.9	130.1	151.4	206.8	251.6	338.0	223.9	187.6	156.7	106.6
82.5°	91.7	91.7	99.2	150.3	153.5	182.3	121.5	132.2	103.4	75.7
85°	54.4	53.3	61.8	89.6	80.0	67.2	55.4	81.0	65.0	46.9
87.5°	19.2	20.3	19.2	25.6	21.3	18.1	17.1	22.4	18.1	16.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2529.0
2543.9
2579.1
2632.4
2696.4
2762.5
2835.0
2934.1
3046.1
3166.5
3301.9
3442.7
3596.2
3776.4
3979.0
4200.7
4427.8
4701.8
4999.3
5312.7
5635.8
5948.2
6178.5
6214.7
5909.8
5147.5
3796.6
1796.5
667.4
375.3
265.5
173.8
109.8
75.7
45.8
14.9
0.0

OF REPORT)