

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: P941170

Luminaire Tested: **GALN-SB4C-830-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-830-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27280 lumens
Efficiency: N/A
Efficacy: 135.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

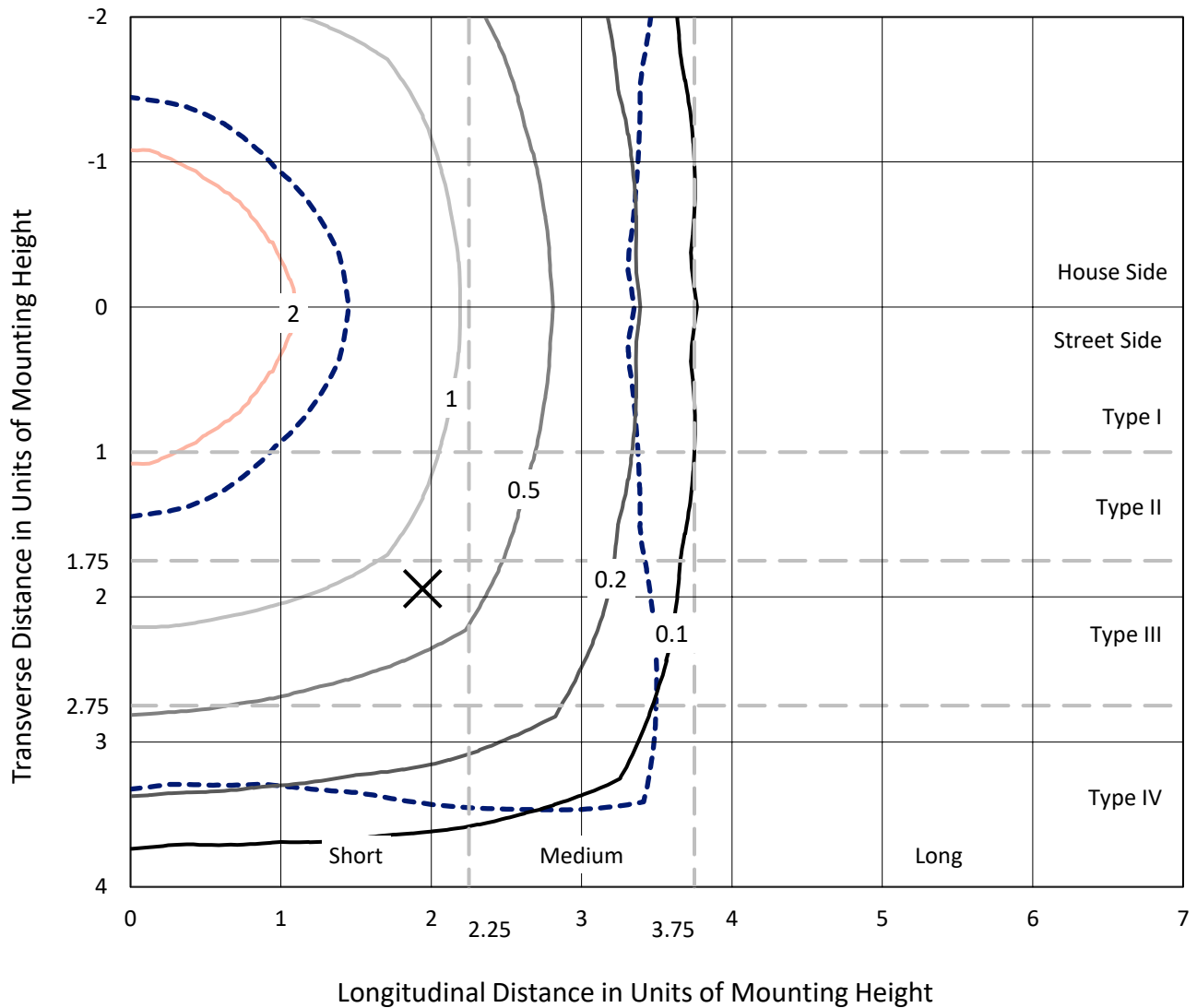
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

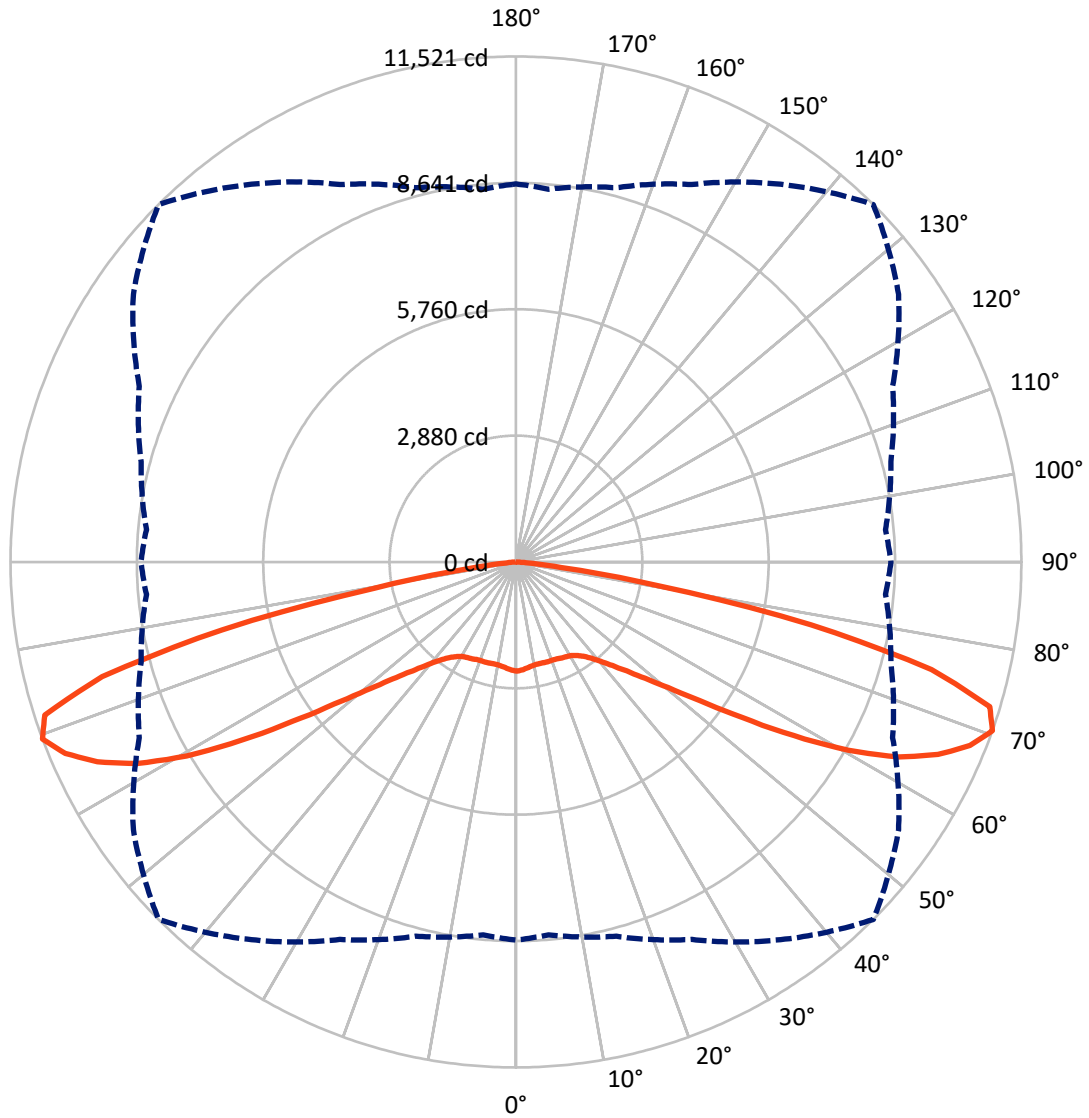
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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	13640.0	0.0	13640.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13640.0	0.0	13640.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27280.0	0.0	27280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	0.8
10°-20°	679.7	2.5
20°-30°	1131.1	4.1
30°-40°	1710.6	6.3
40°-50°	2842.6	10.4
50°-60°	5363.9	19.7
60°-70°	9057.2	33.2
70°-80°	5951.5	21.8
80°-90°	311.8	1.1
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°	27280.0	100.0
0°-180°	27280.0	100.0

Coefficient of Utilization



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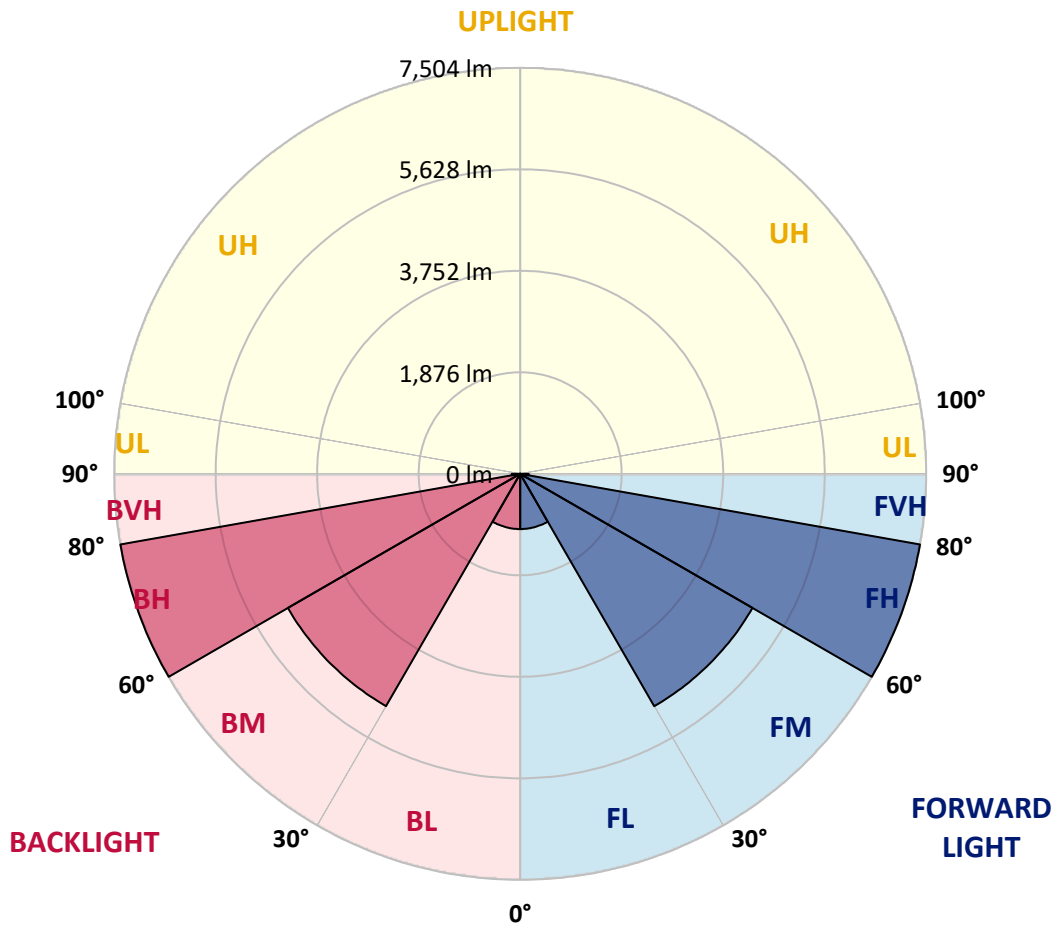
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1021.2	3.7			
FM (30°-60°)	4958.6	18.2			
FH (60°-80°)	7504.4	27.5			G4/12000
FVH (80°-90°)	155.9	0.6			G2/225
BL (0°-30°)	1021.2	3.7	B3/2500		
BM (30°-60°)	4958.6	18.2	B3/5000		
BH (60°-80°)	7504.4	27.5	B5		G4/12000
BVH (80°-90°)	155.9	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5	2488.5
2.5°	2472.9	2480.0	2477.1	2471.5	2471.5	2467.2	2471.5	2474.3	2478.6	2481.4
5°	2440.3	2445.9	2444.5	2440.3	2441.7	2437.4	2440.3	2444.5	2447.4	2448.8
7.5°	2411.9	2417.6	2414.8	2407.7	2407.7	2403.4	2404.8	2409.1	2413.3	2414.8
10°	2404.8	2410.5	2402.0	2390.6	2386.4	2380.7	2382.1	2386.4	2394.9	2399.2
12.5°	2407.7	2411.9	2403.4	2386.4	2382.1	2376.5	2376.5	2380.7	2392.1	2397.7
15°	2416.2	2420.4	2407.7	2389.2	2385.0	2380.7	2379.3	2385.0	2397.7	2407.7
17.5°	2431.8	2436.0	2416.2	2390.6	2385.0	2386.4	2385.0	2389.2	2409.1	2427.5
20°	2445.9	2448.8	2421.8	2390.6	2385.0	2386.4	2385.0	2393.5	2419.0	2444.5
22.5°	2450.2	2453.0	2427.5	2400.6	2396.3	2397.7	2396.3	2404.8	2428.9	2454.5
25°	2451.6	2455.9	2436.0	2414.8	2421.8	2424.7	2421.8	2423.3	2441.7	2464.4
27.5°	2472.9	2478.6	2460.1	2441.7	2445.9	2444.5	2448.8	2453.0	2467.2	2489.9
30°	2516.8	2521.1	2505.5	2487.1	2484.2	2474.3	2487.1	2501.2	2516.8	2536.7
32.5°	2589.2	2597.7	2577.8	2558.0	2545.2	2539.5	2549.5	2573.6	2594.8	2616.1
35°	2709.7	2715.4	2696.9	2660.1	2637.4	2637.4	2645.9	2677.1	2711.1	2738.0
37.5°	2879.8	2886.9	2854.3	2810.4	2776.3	2776.3	2787.7	2820.3	2871.3	2909.6
40°	3086.9	3096.8	3055.7	3010.3	2977.7	2972.0	2986.2	3023.0	3071.3	3119.5
42.5°	3336.4	3347.8	3293.9	3254.2	3228.7	3228.7	3235.7	3269.8	3313.7	3373.3
45°	3655.5	3675.3	3601.6	3561.9	3537.8	3543.4	3547.7	3577.5	3617.2	3685.2
47.5°	4035.5	4055.3	3977.3	3936.2	3931.9	3958.9	3941.9	3963.1	3984.4	4062.4
50°	4466.5	4500.5	4446.7	4443.8	4452.3	4502.0	4462.3	4473.6	4449.5	4499.1
52.5°	4994.0	5043.6	5033.7	5050.7	5145.7	5247.8	5157.0	5117.3	5026.6	5042.2
55°	5633.5	5708.6	5722.8	5824.9	6040.4	6248.9	6056.0	5895.8	5703.0	5667.5
57.5°	6360.9	6420.4	6488.5	6696.9	7099.6	7469.7	7099.6	6745.1	6441.7	6369.4
60°	7143.6	7217.3	7282.5	7590.2	8188.6	8709.0	8177.3	7614.3	7213.1	7115.2
62.5°	7984.4	8079.4	8124.8	8466.5	9164.1	9785.2	9174.1	8492.0	8046.8	7941.9
65°	8791.2	8869.2	8920.3	9284.7	9951.1	10573.6	9996.5	9324.4	8866.4	8728.8
67.5°	9167.0	9209.5	9334.3	9746.9	10450.2	11160.6	10569.3	9790.9	9279.0	9038.0
70°	8616.8	8530.3	8830.9	9491.7	10509.8	11520.8	10645.9	9471.8	8845.1	8453.8
72.5°	6658.6	6509.8	7031.6	8161.7	9829.2	11291.1	9897.2	8225.5	7356.3	6562.2
75°	3622.8	3454.1	4174.4	5603.7	7838.4	9786.6	8018.5	5763.9	4648.0	3595.9
77.5°	1022.3	958.5	1539.9	2711.1	4714.7	6871.3	4896.1	2770.7	1826.3	1083.3
80°	313.4	303.4	411.2	816.7	2002.1	3291.0	1924.1	826.7	523.2	330.4
82.5°	185.8	170.2	204.2	297.8	510.5	1033.7	496.3	310.5	249.6	167.3
85°	106.3	99.3	120.5	144.6	171.6	219.8	143.2	147.5	133.3	89.3
87.5°	44.0	39.7	46.8	45.4	39.7	51.0	38.3	45.4	53.9	35.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2488.5
2480.0
2448.8
2414.8
2399.2
2399.2
2409.1
2427.5
2445.9
2454.5
2463.0
2484.2
2532.4
2607.6
2728.1
2895.4
3103.9
3369.0
3682.4
4039.7
4469.3
4989.7
5612.2
6318.3
7030.1
7856.8
8660.8
9040.8
8547.3
6759.3
3829.9
1203.8
348.8
181.5
93.6
32.6
0.0

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