

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: P941160

Luminaire Tested: **GALN-SB4C-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941160
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-827-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26400 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

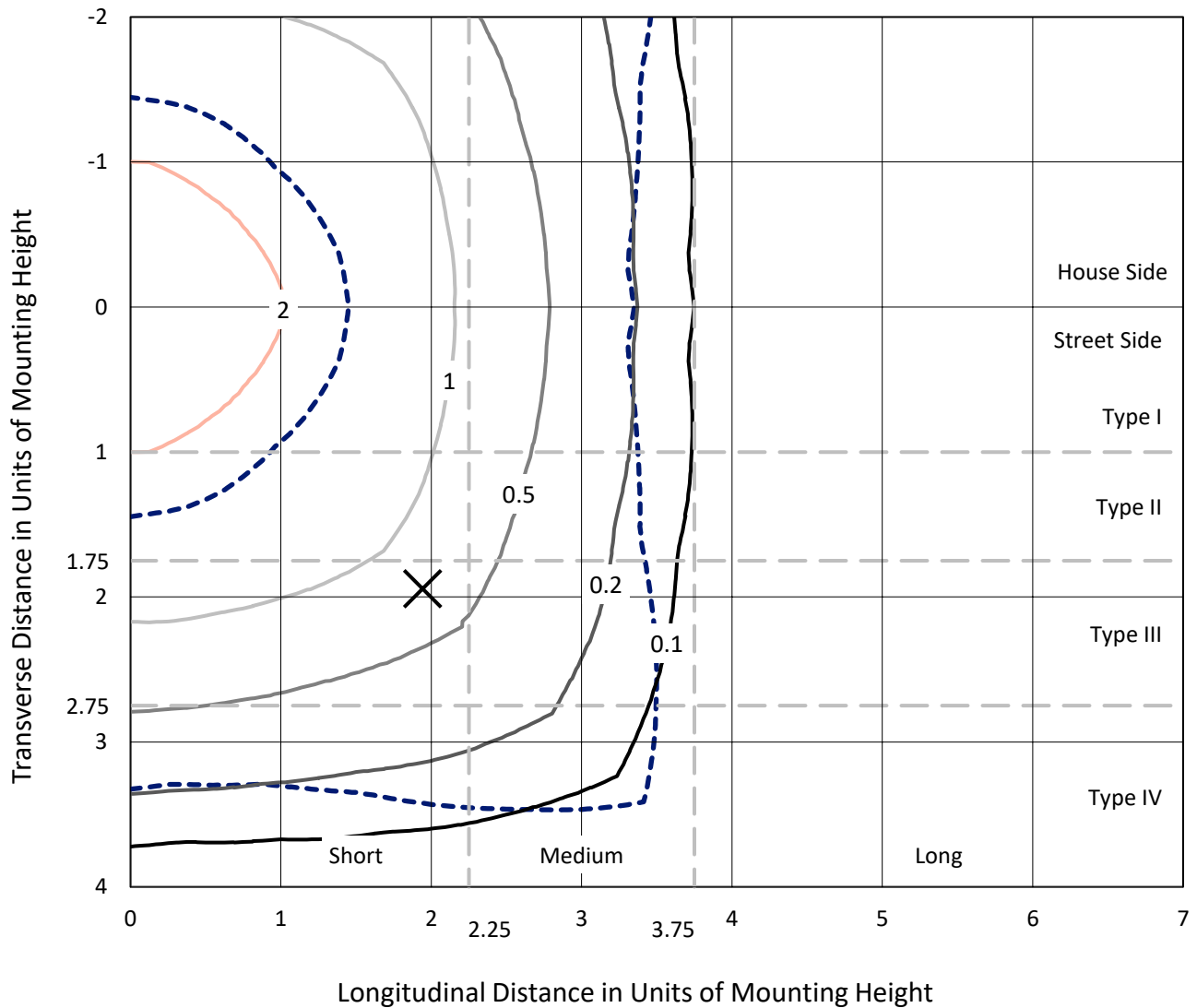
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

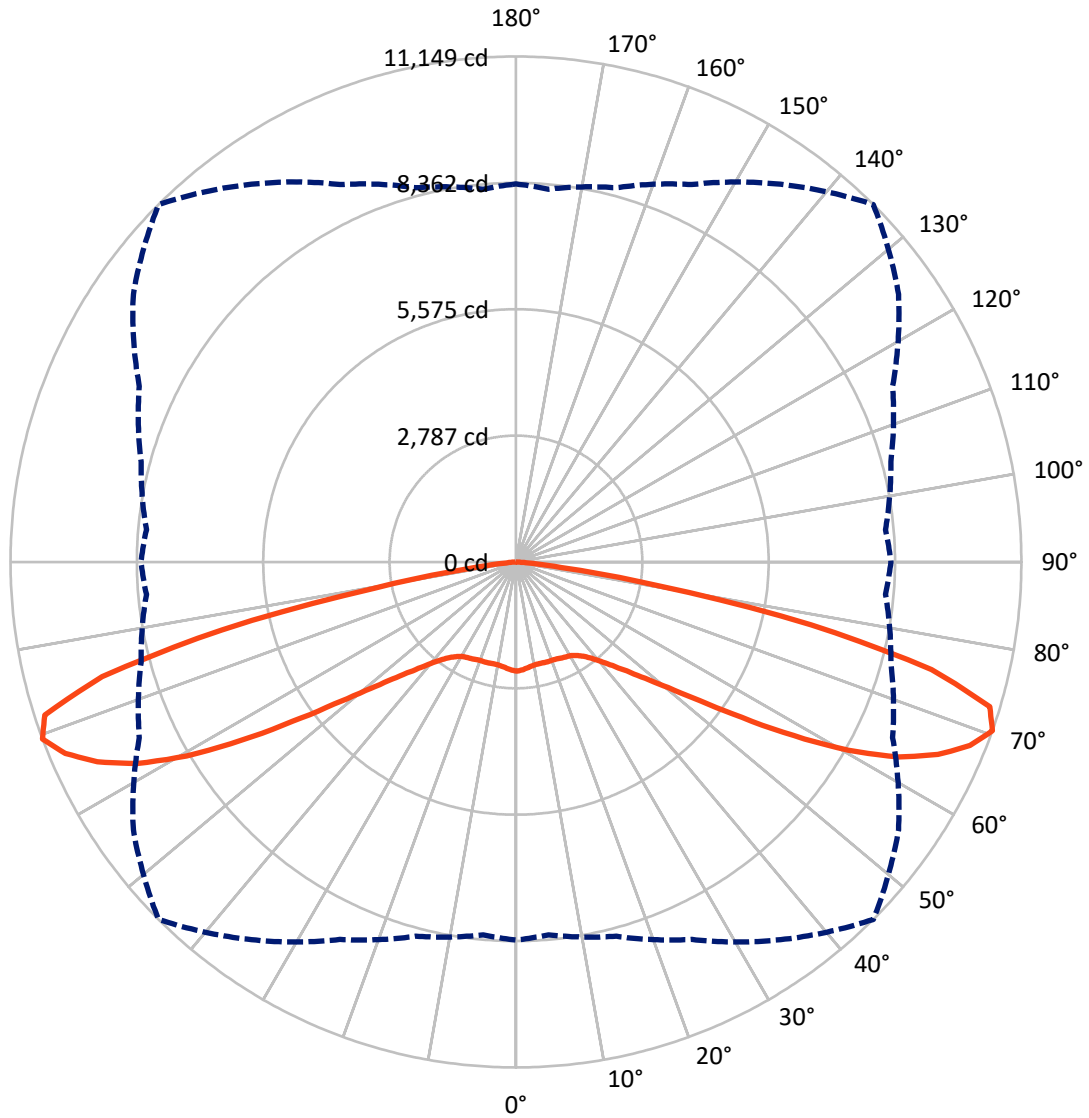
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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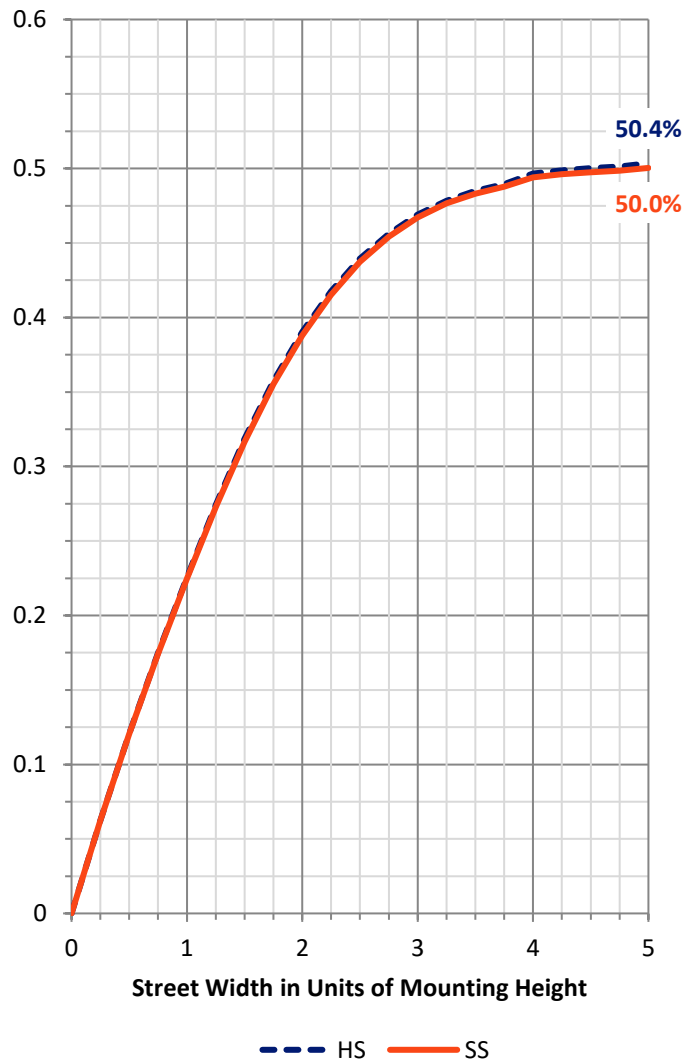
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13200.0	0.0	13200.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13200.0	0.0	13200.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	26400.0	0.0	26400.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.0	0.8
10°-20°	657.8	2.5
20°-30°	1094.6	4.1
30°-40°	1655.4	6.3
40°-50°	2750.9	10.4
50°-60°	5190.9	19.7
60°-70°	8765.0	33.2
70°-80°	5759.5	21.8
80°-90°	301.7	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°	26400.0	100.0
0°-180°	26400.0	100.0



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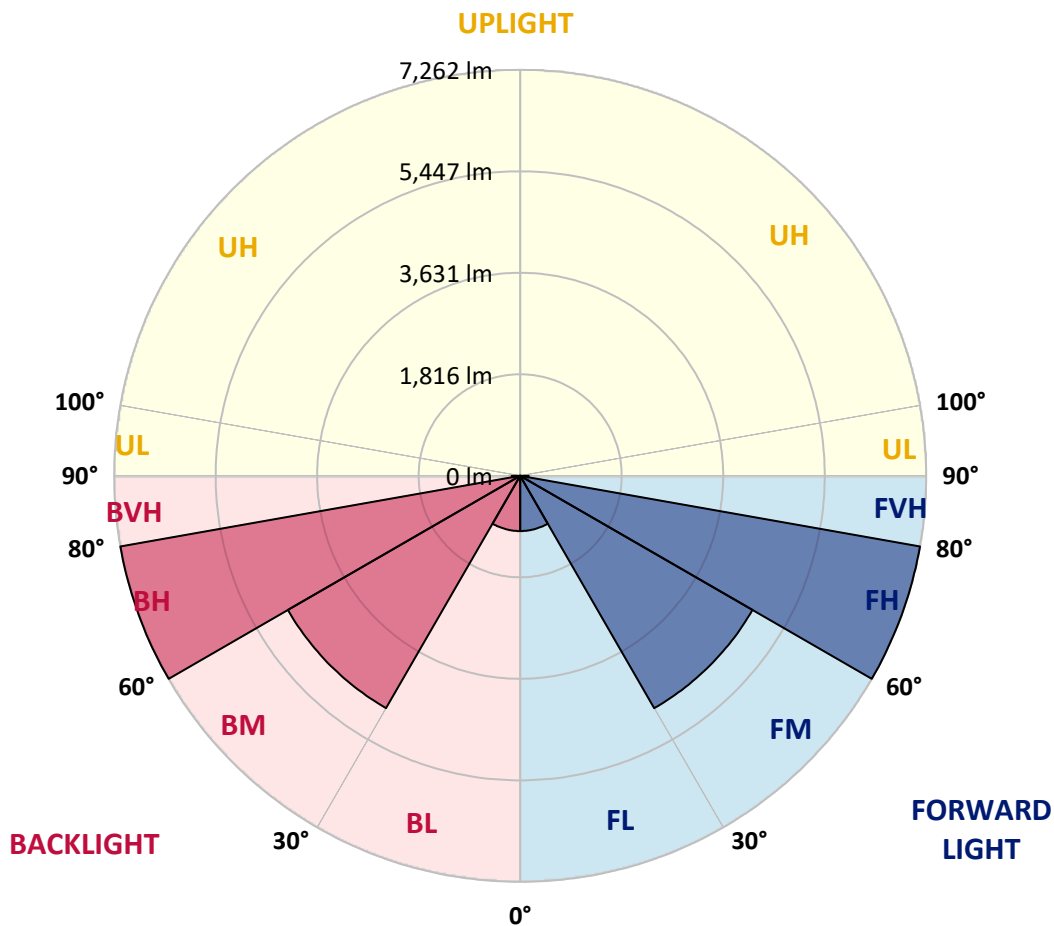
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	988.2	3.7			
FM (30°-60°)	4798.6	18.2			
FH (60°-80°)	7262.3	27.5			G3/7500
FVH (80°-90°)	150.9	0.6			G2/225
BL (0°-30°)	988.2	3.7	B2/1000		
BM (30°-60°)	4798.6	18.2	B3/5000		
BH (60°-80°)	7262.3	27.5	B5		G3/7500
BVH (80°-90°)	150.9	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-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2	2408.2
2.5°	2393.1	2400.0	2397.2	2391.7	2391.7	2387.6	2391.7	2394.5	2398.6	2401.4
5°	2361.6	2367.0	2365.7	2361.6	2362.9	2358.8	2361.6	2365.7	2368.4	2369.8
7.5°	2334.1	2339.6	2336.9	2330.0	2330.0	2325.9	2327.3	2331.4	2335.5	2336.9
10°	2327.3	2332.7	2324.5	2313.5	2309.4	2303.9	2305.3	2309.4	2317.6	2321.8
12.5°	2330.0	2334.1	2325.9	2309.4	2305.3	2299.8	2299.8	2303.9	2314.9	2320.4
15°	2338.2	2342.3	2330.0	2312.2	2308.0	2303.9	2302.6	2308.0	2320.4	2330.0
17.5°	2353.3	2357.4	2338.2	2313.5	2308.0	2309.4	2308.0	2312.2	2331.4	2349.2
20°	2367.0	2369.8	2343.7	2313.5	2308.0	2309.4	2308.0	2316.3	2341.0	2365.7
22.5°	2371.2	2373.9	2349.2	2323.1	2319.0	2320.4	2319.0	2327.3	2350.6	2375.3
25°	2372.5	2376.7	2357.4	2336.9	2343.7	2346.5	2343.7	2345.1	2362.9	2384.9
27.5°	2393.1	2398.6	2380.8	2362.9	2367.0	2365.7	2369.8	2373.9	2387.6	2409.6
30°	2435.7	2439.8	2424.7	2406.8	2404.1	2394.5	2406.8	2420.6	2435.7	2454.9
32.5°	2505.6	2513.9	2494.7	2475.4	2463.1	2457.6	2467.2	2490.5	2511.1	2531.7
35°	2622.3	2627.8	2609.9	2574.2	2552.3	2552.3	2560.5	2590.7	2623.6	2649.7
37.5°	2786.9	2793.8	2762.2	2719.7	2686.8	2686.8	2697.7	2729.3	2778.7	2815.8
40°	2987.3	2996.9	2957.1	2913.2	2881.6	2876.1	2889.9	2925.5	2972.2	3018.8
42.5°	3228.8	3239.8	3187.6	3149.2	3124.5	3124.5	3131.4	3164.3	3206.8	3264.5
45°	3537.5	3556.7	3485.4	3447.0	3423.6	3429.1	3433.2	3462.1	3500.5	3566.3
47.5°	3905.3	3924.5	3849.0	3809.2	3805.1	3831.2	3814.7	3835.3	3855.9	3931.4
50°	4322.4	4355.4	4303.2	4300.5	4308.7	4356.7	4318.3	4329.3	4306.0	4354.0
52.5°	4832.9	4880.9	4871.3	4887.8	4979.7	5078.5	4990.7	4952.3	4864.5	4879.5
55°	5451.8	5524.5	5538.2	5637.0	5845.6	6047.3	5860.7	5705.6	5519.0	5484.7
57.5°	6155.7	6213.3	6279.2	6480.9	6870.6	7228.8	6870.6	6527.6	6233.9	6163.9
60°	6913.1	6984.5	7047.6	7345.4	7924.5	8428.1	7913.5	7368.7	6980.4	6885.7
62.5°	7726.9	7818.8	7862.7	8193.4	8868.5	9469.6	8878.1	8218.1	7787.2	7685.7
65°	8507.6	8583.1	8632.5	8985.2	9630.1	10232.5	9674.0	9023.6	8580.4	8447.3
67.5°	8871.3	8912.4	9033.2	9432.5	10113.1	10800.6	10228.4	9475.0	8979.7	8746.4
70°	8338.9	8255.2	8546.1	9185.5	10170.7	11149.1	10302.5	9166.3	8559.8	8181.1
72.5°	6443.9	6299.8	6804.7	7898.4	9512.1	10926.8	9578.0	7960.1	7119.0	6350.5
75°	3506.0	3342.7	4039.8	5422.9	7585.5	9470.9	7759.8	5578.0	4498.1	3479.9
77.5°	989.4	927.6	1490.2	2623.6	4562.6	6649.7	4738.2	2681.3	1767.4	1048.4
80°	303.3	293.7	397.9	790.4	1937.5	3184.9	1862.1	800.0	506.3	319.7
82.5°	179.8	164.7	197.6	288.2	494.0	1000.3	480.3	300.5	241.5	161.9
85°	102.9	96.1	116.6	140.0	166.0	212.7	138.6	142.7	129.0	86.4
87.5°	42.5	38.4	45.3	43.9	38.4	49.4	37.0	43.9	52.1	34.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2408.2
2400.0
2369.8
2336.9
2321.8
2321.8
2331.4
2349.2
2367.0
2375.3
2383.5
2404.1
2450.7
2523.5
2640.1
2802.0
3003.7
3260.3
3563.6
3909.4
4325.2
4828.8
5431.2
6114.5
6803.4
7603.4
8381.4
8749.1
8271.6
6541.3
3706.3
1165.0
337.6
175.6
90.6
31.6
0.0

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