

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: P529006

Luminaire Tested: **GALN-SA4A-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11283 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

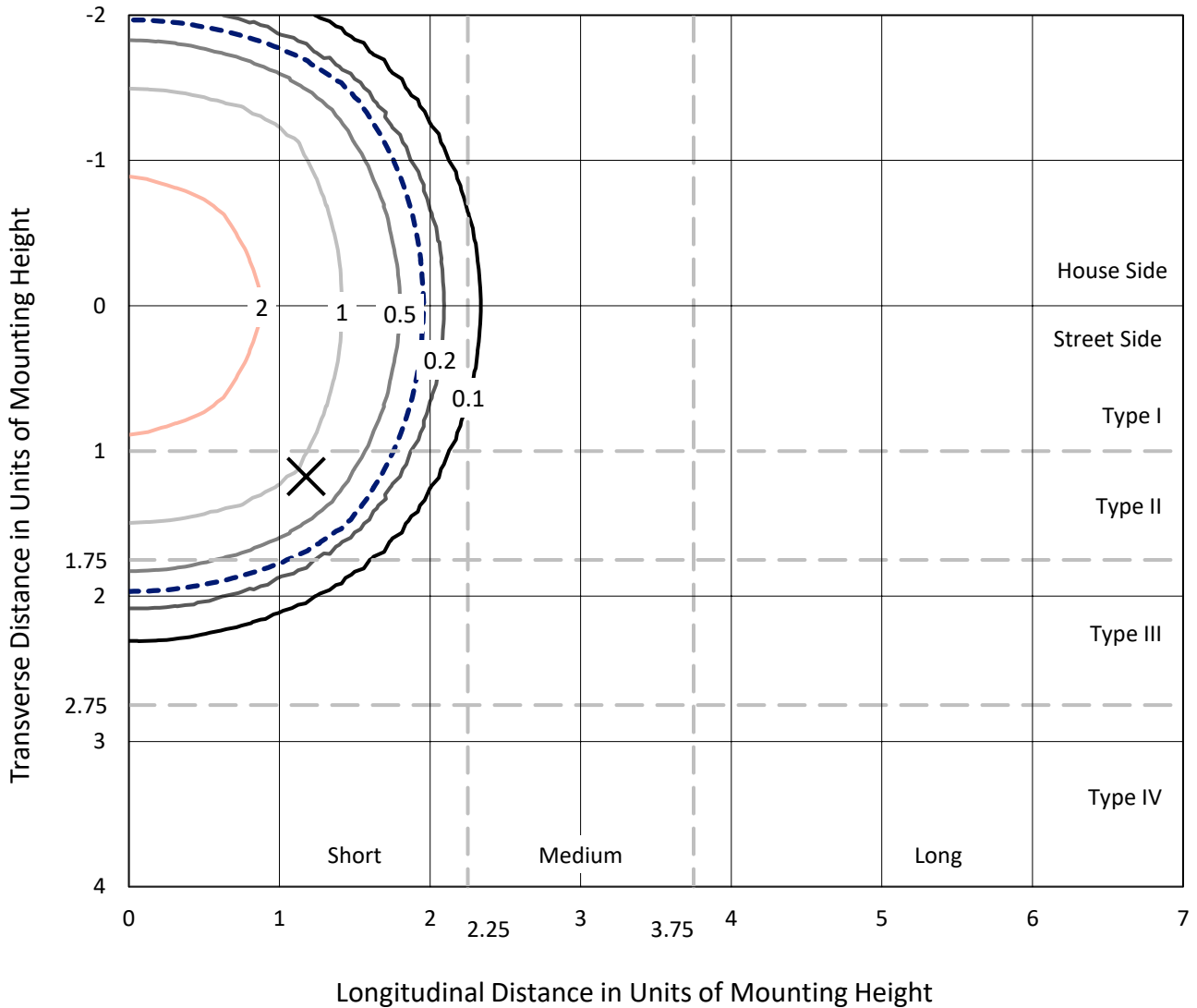
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

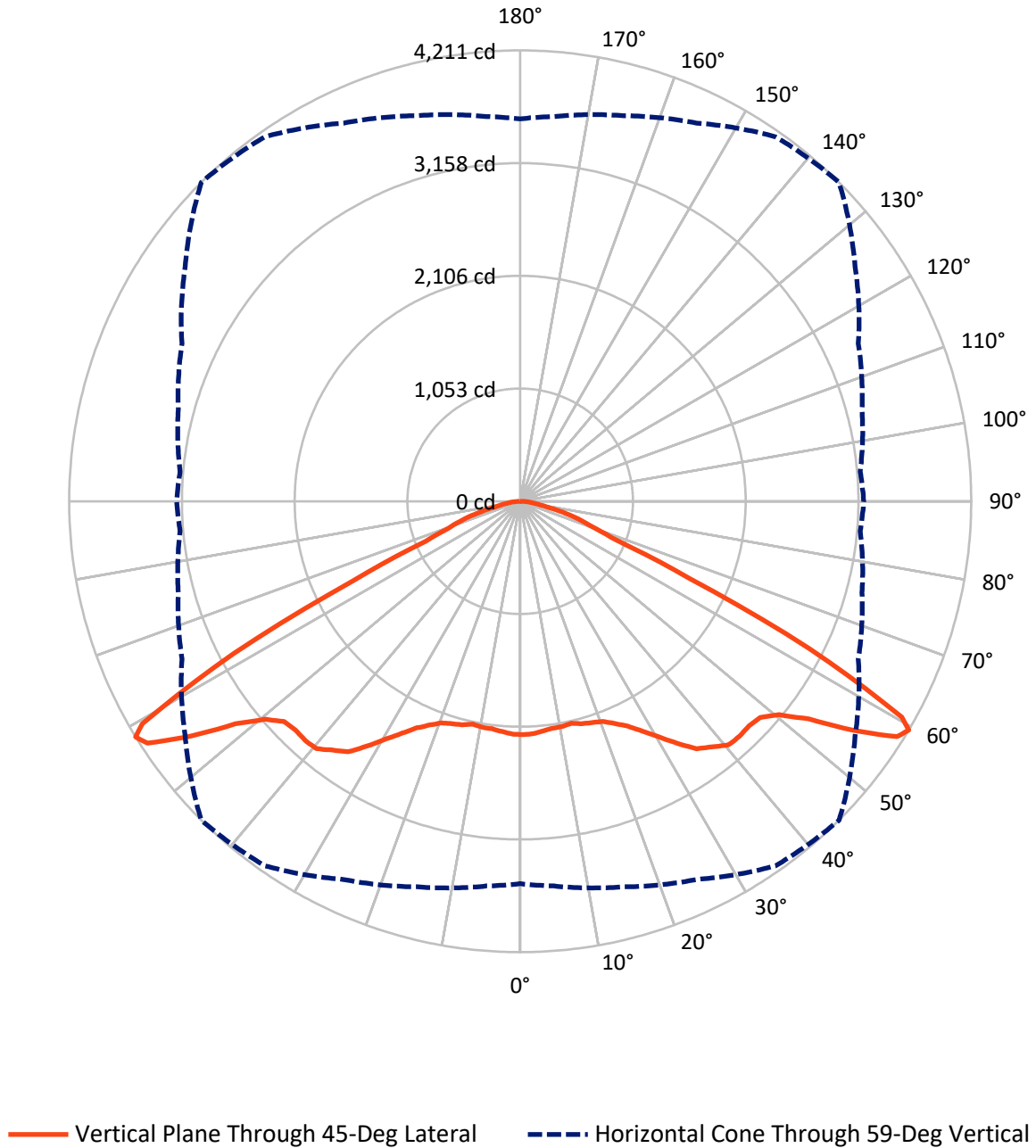
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5641.5	0.0	5641.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5641.5	0.0	5641.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11283.0	0.0	11283.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	1.8
10°-20°	610.9	5.4
20°-30°	1066.8	9.5
30°-40°	1703.8	15.1
40°-50°	2320.9	20.6
50°-60°	3138.5	27.8
60°-70°	1721.2	15.3
70°-80°	440.3	3.9
80°-90°	75.1	0.7
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°	11283.0	100.0
0°-180°	11283.0	100.0

Coefficient of Utilization

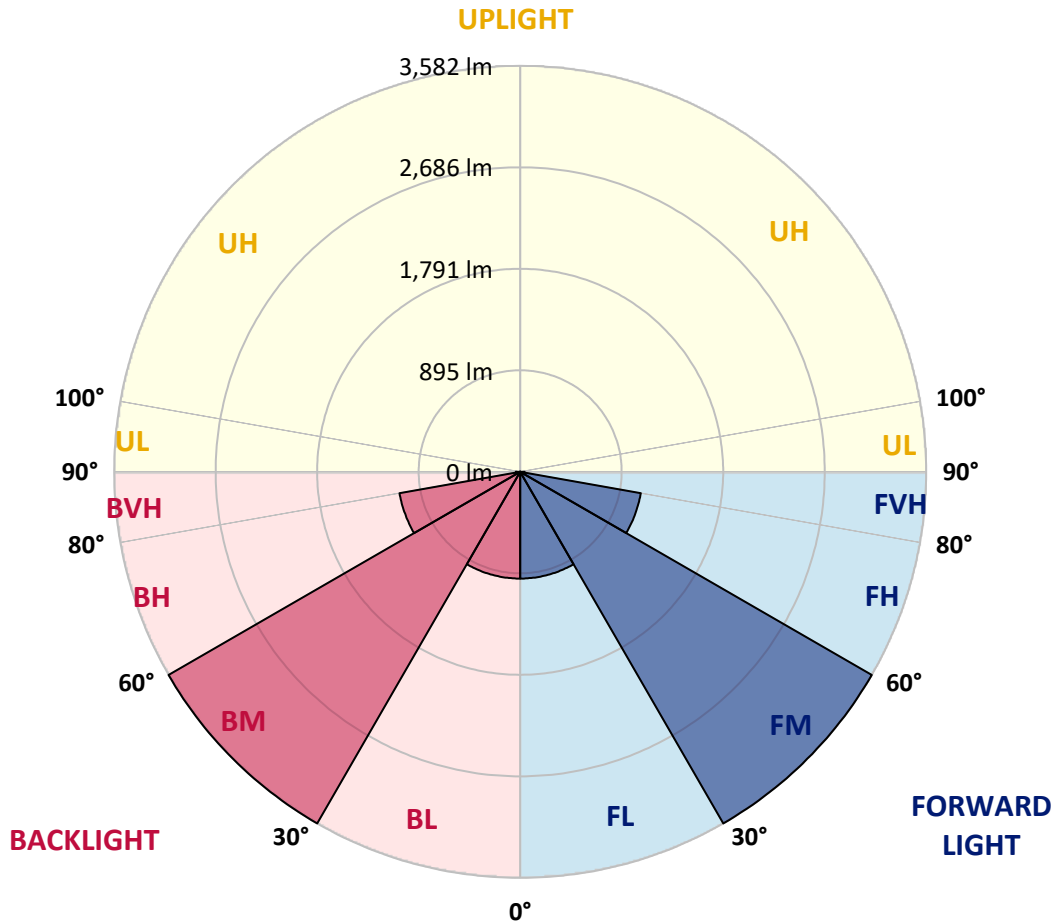


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	941.6	8.3			
FM (30°-60°)	3581.6	31.7			
FH (60°-80°)	1080.8	9.6			G1/1800
FVH (80°-90°)	37.6	0.3			G1/100
BL (0°-30°)	941.6	8.3	B2/1000		
BM (30°-60°)	3581.6	31.7	B3/5000		
BH (60°-80°)	1080.8	9.6	B3/2500		G1/1800
BVH (80°-90°)	37.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2179.3	2179.3	2179.3	2179.3	2179.3	2179.3	2179.3	2179.3	2179.3	2179.3	2179.3
2.5°	2166.3	2182.2	2170.7	2180.8	2179.3	2175.0	2167.8	2163.4	2157.6	2166.3	2151.9
5°	2157.6	2170.7	2183.7	2166.3	2166.3	2157.6	2153.3	2144.6	2144.6	2143.2	2141.7
7.5°	2172.1	2159.1	2153.3	2156.2	2159.1	2140.3	2153.3	2136.0	2121.5	2131.6	2143.2
10°	2159.1	2164.9	2143.2	2153.3	2137.4	2140.3	2131.6	2143.2	2127.3	2127.3	2127.3
12.5°	2172.1	2156.2	2163.4	2156.2	2151.9	2127.3	2138.8	2125.8	2124.4	2138.8	2125.8
15°	2198.1	2172.1	2166.3	2151.9	2156.2	2156.2	2144.6	2146.1	2130.2	2138.8	2141.7
17.5°	2189.5	2175.0	2170.7	2153.3	2167.8	2172.1	2150.4	2136.0	2146.1	2144.6	2143.2
20°	2196.7	2202.5	2198.1	2201.0	2206.8	2195.2	2175.0	2154.8	2141.7	2160.5	2159.1
22.5°	2243.0	2237.2	2234.3	2231.4	2241.5	2253.1	2225.6	2193.8	2193.8	2206.8	2212.6
25°	2280.6	2279.1	2277.7	2290.7	2325.4	2325.4	2290.7	2250.2	2240.1	2248.8	2241.5
27.5°	2335.5	2351.4	2345.6	2368.8	2419.4	2431.0	2384.7	2337.0	2309.5	2299.4	2312.4
30°	2461.3	2442.5	2446.9	2471.5	2516.3	2553.9	2483.0	2432.4	2394.8	2393.4	2399.1
32.5°	2545.2	2559.7	2572.7	2595.8	2666.7	2695.6	2610.3	2527.9	2504.7	2491.7	2496.0
35°	2713.0	2699.9	2697.1	2720.2	2791.1	2838.8	2731.8	2659.5	2629.1	2658.0	2658.0
37.5°	2872.0	2835.9	2808.4	2838.8	2903.9	2909.6	2818.5	2779.5	2763.6	2796.8	2795.4
40°	2947.2	2944.3	2880.7	2898.1	2984.8	2993.5	2908.2	2861.9	2859.0	2902.4	2945.8
42.5°	3025.3	2997.9	2934.2	2945.8	2999.3	3002.2	2921.2	2908.2	2940.0	2981.9	2984.8
45°	3038.3	3015.2	2974.7	2945.8	2984.8	2993.5	2945.8	2954.5	2957.4	3008.0	3008.0
47.5°	3064.4	3061.5	3038.3	3016.7	3023.9	3016.7	2986.3	2999.3	3042.7	3067.3	3055.7
50°	3136.7	3106.3	3129.5	3110.7	3112.1	3132.3	3104.9	3117.9	3109.2	3087.5	3073.1
52.5°	3295.8	3281.3	3301.5	3314.6	3329.0	3375.3	3343.5	3274.1	3209.0	3151.1	3149.7
55°	3528.6	3538.7	3577.8	3644.3	3700.7	3774.4	3621.1	3454.8	3350.7	3259.6	3265.4
57.5°	3748.4	3741.2	3794.7	3946.5	4111.4	4149.0	3848.2	3611.0	3441.8	3384.0	3359.4
59°	3572.0	3606.7	3728.2	3897.4	4156.2	4211.2	3817.8	3483.8	3304.4	3187.3	3207.5
60°	3294.3	3307.3	3415.8	3651.5	4001.5	4095.5	3613.9	3287.1	3048.5	2980.5	3010.9
62.5°	2328.3	2318.2	2396.3	2588.6	2902.4	3029.7	2686.9	2457.0	2306.6	2231.4	2248.8
65°	1237.9	1284.2	1316.0	1436.0	1602.3	1736.8	1595.1	1495.3	1411.4	1349.3	1347.8
67.5°	835.9	830.1	837.3	864.8	921.2	958.8	955.9	905.3	898.1	886.5	899.5
70°	704.3	701.4	688.4	688.4	699.9	708.6	718.7	724.5	736.1	750.5	749.1
72.5°	571.2	564.0	555.3	551.0	565.4	569.8	582.8	588.6	598.7	597.3	610.3
75°	377.4	377.4	387.6	399.1	403.5	412.2	413.6	431.0	431.0	433.8	422.3
77.5°	211.1	205.4	212.6	224.2	234.3	250.2	266.1	279.1	286.3	283.4	283.4
80°	122.9	122.9	130.2	143.2	156.2	170.6	182.2	192.3	199.6	196.7	190.9
82.5°	76.6	76.6	83.9	96.9	107.0	115.7	131.6	144.6	153.3	150.4	143.2
85°	39.0	39.0	47.7	56.4	69.4	75.2	73.8	68.0	66.5	59.3	59.3
87.5°	10.1	10.1	14.5	15.9	13.0	14.5	14.5	14.5	14.5	14.5	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)