

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: P527446

Luminaire Tested: **GALN-SA2C-727-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527446
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-SA2C-727-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA 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: 10031 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

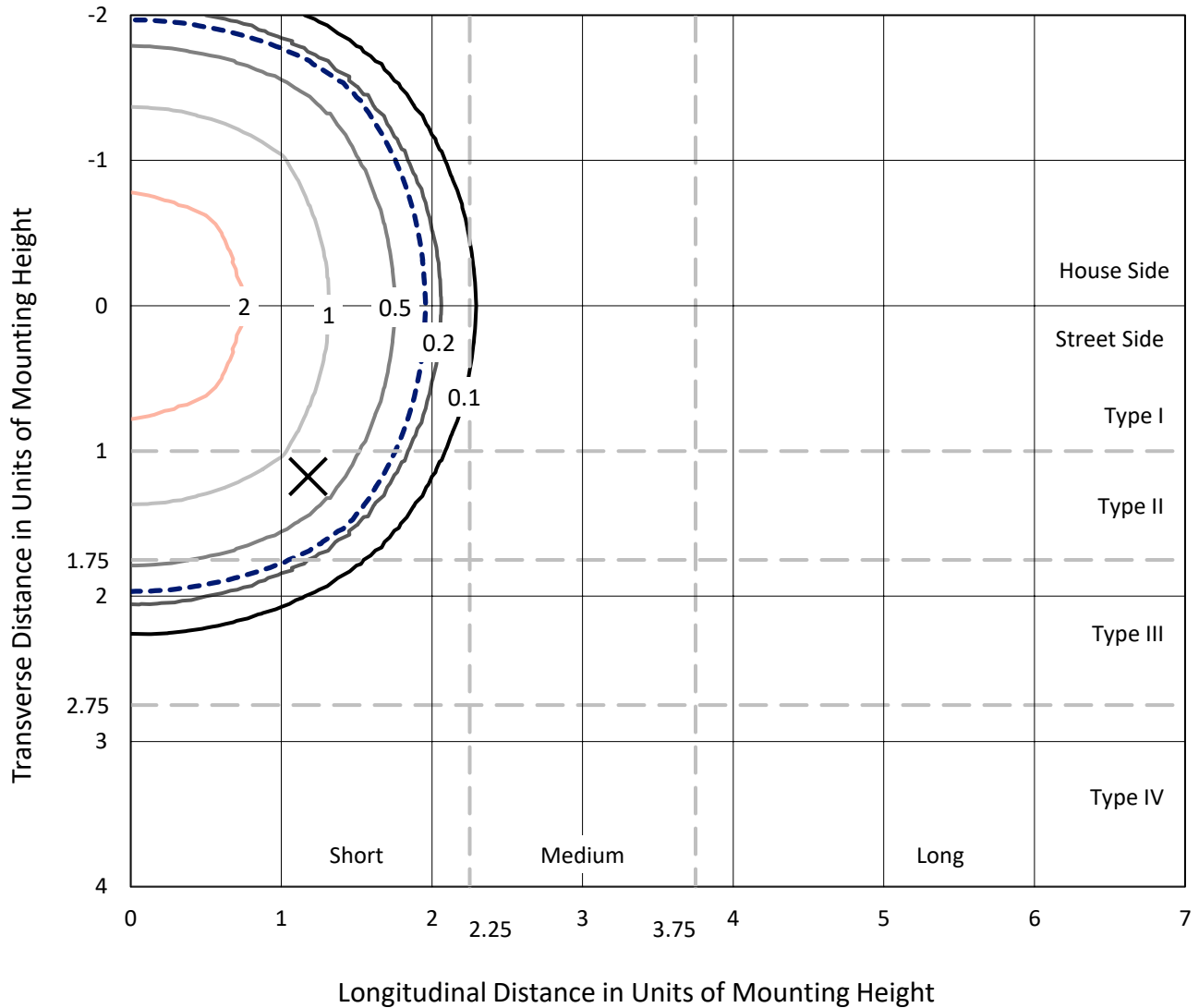
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

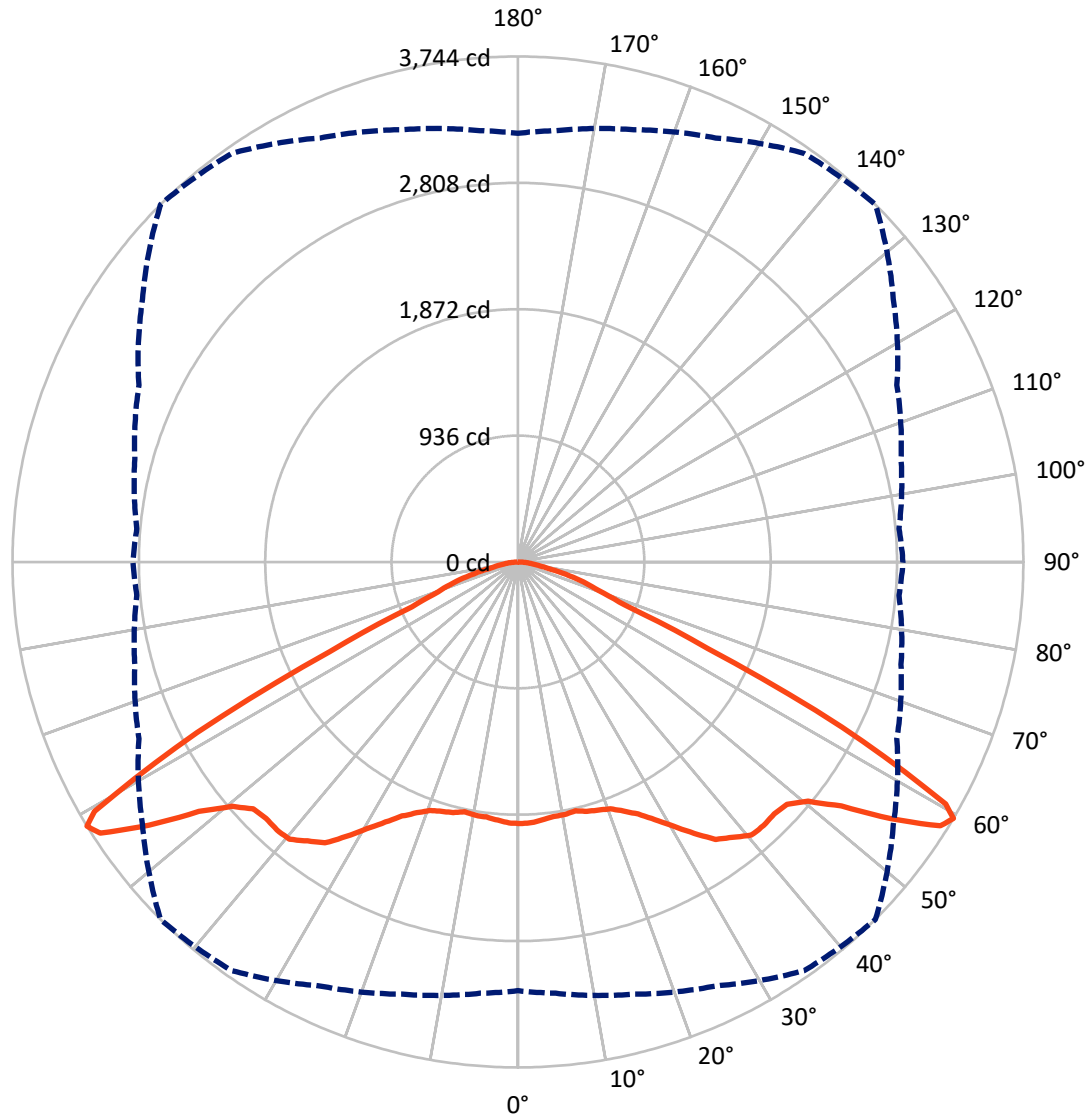
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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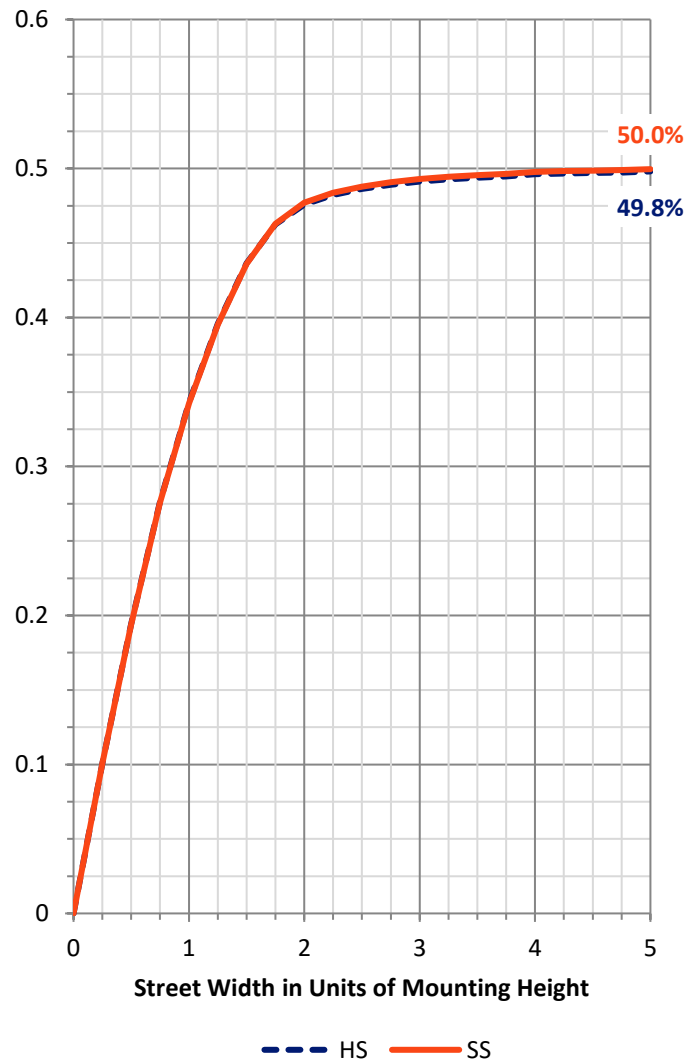
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5015.5	0.0	5015.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5015.5	0.0	5015.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10031.0	0.0	10031.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.6	1.8
10°-20°	543.2	5.4
20°-30°	948.4	9.5
30°-40°	1514.7	15.1
40°-50°	2063.4	20.6
50°-60°	2790.3	27.8
60°-70°	1530.2	15.3
70°-80°	391.5	3.9
80°-90°	66.8	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°	10031.0	100.0
0°-180°	10031.0	100.0



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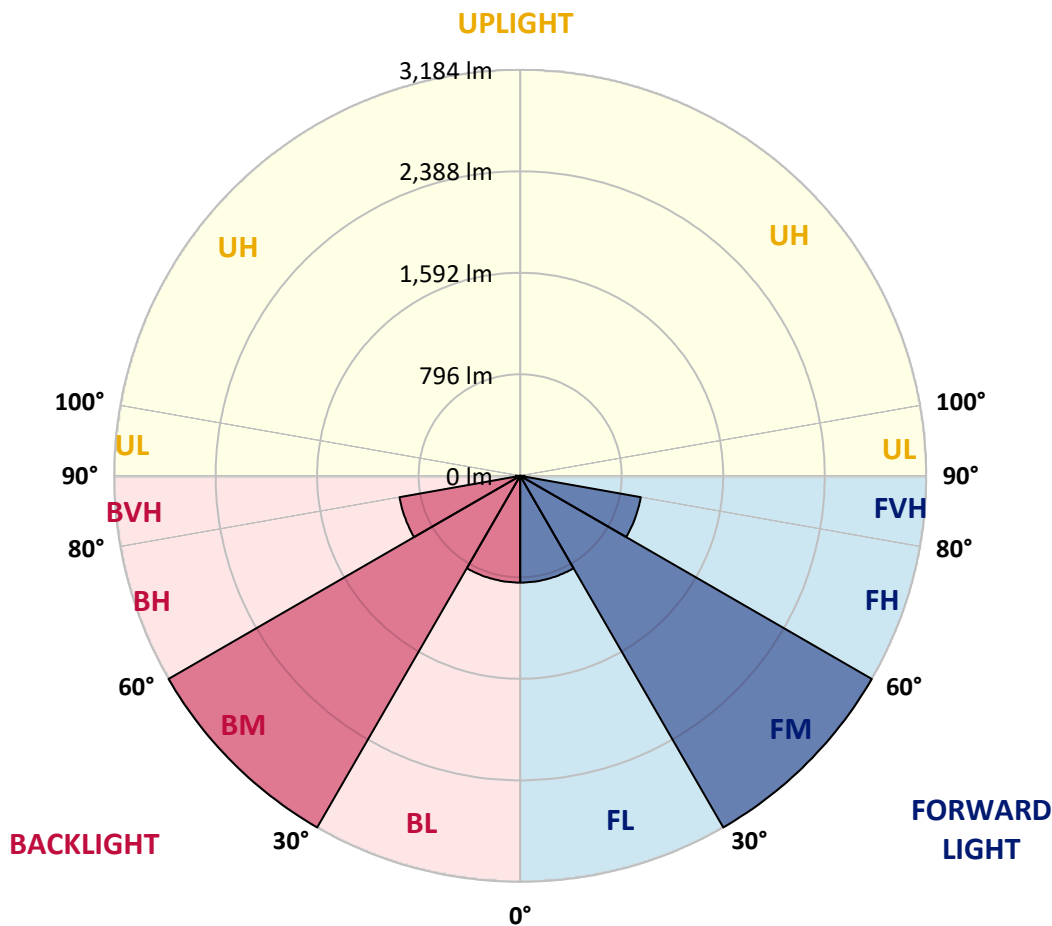
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	837.1	8.3			
FM (30°-60°)	3184.2	31.7			
FH (60°-80°)	960.8	9.6			G1/1800
FVH (80°-90°)	33.4	0.3			G1/100
BL (0°-30°)	837.1	8.3	B2/1000		
BM (30°-60°)	3184.2	31.7	B3/5000		
BH (60°-80°)	960.8	9.6	B2/1000		G1/1800
BVH (80°-90°)	33.4	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°	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5	1937.5
2.5°	1925.9	1940.1	1929.8	1938.8	1937.5	1933.7	1927.2	1923.4	1918.2	1925.9	1913.1
5°	1918.2	1929.8	1941.4	1925.9	1925.9	1918.2	1914.4	1906.7	1906.7	1905.4	1904.1
7.5°	1931.1	1919.5	1914.4	1916.9	1919.5	1902.8	1914.4	1898.9	1886.1	1895.1	1905.4
10°	1919.5	1924.7	1905.4	1914.4	1900.2	1902.8	1895.1	1905.4	1891.2	1891.2	1891.2
12.5°	1931.1	1916.9	1923.4	1916.9	1913.1	1891.2	1901.5	1889.9	1888.7	1901.5	1889.9
15°	1954.2	1931.1	1925.9	1913.1	1916.9	1916.9	1906.7	1907.9	1893.8	1901.5	1904.1
17.5°	1946.5	1933.7	1929.8	1914.4	1927.2	1931.1	1911.8	1898.9	1907.9	1906.7	1905.4
20°	1952.9	1958.1	1954.2	1956.8	1961.9	1951.7	1933.7	1915.7	1904.1	1920.8	1919.5
22.5°	1994.1	1988.9	1986.4	1983.8	1992.8	2003.1	1978.7	1950.4	1950.4	1961.9	1967.1
25°	2027.5	2026.2	2024.9	2036.5	2067.4	2067.4	2036.5	2000.5	1991.5	1999.2	1992.8
27.5°	2076.4	2090.5	2085.4	2105.9	2150.9	2161.2	2120.1	2077.6	2053.2	2044.2	2055.8
30°	2188.2	2171.5	2175.4	2197.2	2237.1	2270.5	2207.5	2162.5	2129.1	2127.8	2132.9
32.5°	2262.8	2275.6	2287.2	2307.8	2370.8	2396.5	2320.6	2247.4	2226.8	2215.2	2219.1
35°	2411.9	2400.4	2397.8	2418.4	2481.3	2523.8	2428.6	2364.4	2337.4	2363.1	2363.1
37.5°	2553.3	2521.2	2496.8	2523.8	2581.6	2586.8	2505.8	2471.1	2456.9	2486.5	2485.2
40°	2620.2	2617.6	2561.1	2576.5	2653.6	2661.3	2585.5	2544.3	2541.8	2580.3	2618.9
42.5°	2689.6	2665.2	2608.6	2618.9	2666.5	2669.1	2597.1	2585.5	2613.8	2651.1	2653.6
45°	2701.2	2680.6	2644.6	2618.9	2653.6	2661.3	2618.9	2626.6	2629.2	2674.2	2674.2
47.5°	2724.3	2721.8	2701.2	2681.9	2688.3	2681.9	2654.9	2666.5	2705.1	2726.9	2716.6
50°	2788.6	2761.6	2782.2	2765.5	2766.8	2784.8	2760.3	2771.9	2764.2	2744.9	2732.1
52.5°	2930.0	2917.2	2935.2	2946.8	2959.6	3000.8	2972.5	2910.8	2852.9	2801.5	2800.2
55°	3137.0	3146.0	3180.8	3239.9	3290.0	3355.6	3219.3	3071.5	2978.9	2897.9	2903.1
57.5°	3332.5	3326.0	3373.6	3508.6	3655.2	3688.6	3421.2	3210.3	3059.9	3008.5	2986.6
59°	3175.6	3206.5	3314.5	3464.9	3695.0	3743.9	3394.2	3097.2	2937.8	2833.6	2851.6
60°	2928.8	2940.3	3036.8	3246.3	3557.5	3641.0	3212.9	2922.3	2710.2	2649.8	2676.8
62.5°	2069.9	2060.9	2130.4	2301.4	2580.3	2693.5	2388.8	2184.4	2050.6	1983.8	1999.2
65°	1100.5	1141.7	1170.0	1276.7	1424.5	1544.1	1418.1	1329.4	1254.8	1199.5	1198.2
67.5°	743.1	738.0	744.4	768.8	819.0	852.4	849.8	804.8	798.4	788.1	799.7
70°	626.1	623.6	612.0	612.0	622.3	630.0	639.0	644.1	654.4	667.3	666.0
72.5°	507.8	501.4	493.7	489.8	502.7	506.6	518.1	523.3	532.3	531.0	542.6
75°	335.6	335.6	344.6	354.8	358.7	366.4	367.7	383.1	383.1	385.7	375.4
77.5°	187.7	182.6	189.0	199.3	208.3	222.4	236.6	248.1	254.6	252.0	252.0
80°	109.3	109.3	115.7	127.3	138.9	151.7	162.0	171.0	177.4	174.9	169.7
82.5°	68.1	68.1	74.6	86.1	95.1	102.9	117.0	128.6	136.3	133.7	127.3
85°	34.7	34.7	42.4	50.1	61.7	66.9	65.6	60.4	59.1	52.7	52.7
87.5°	9.0	9.0	12.9	14.1	11.6	12.9	12.9	12.9	12.9	12.9	14.1
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)