

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: P646759

Luminaire Tested: **GALN-SA2C-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9771 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

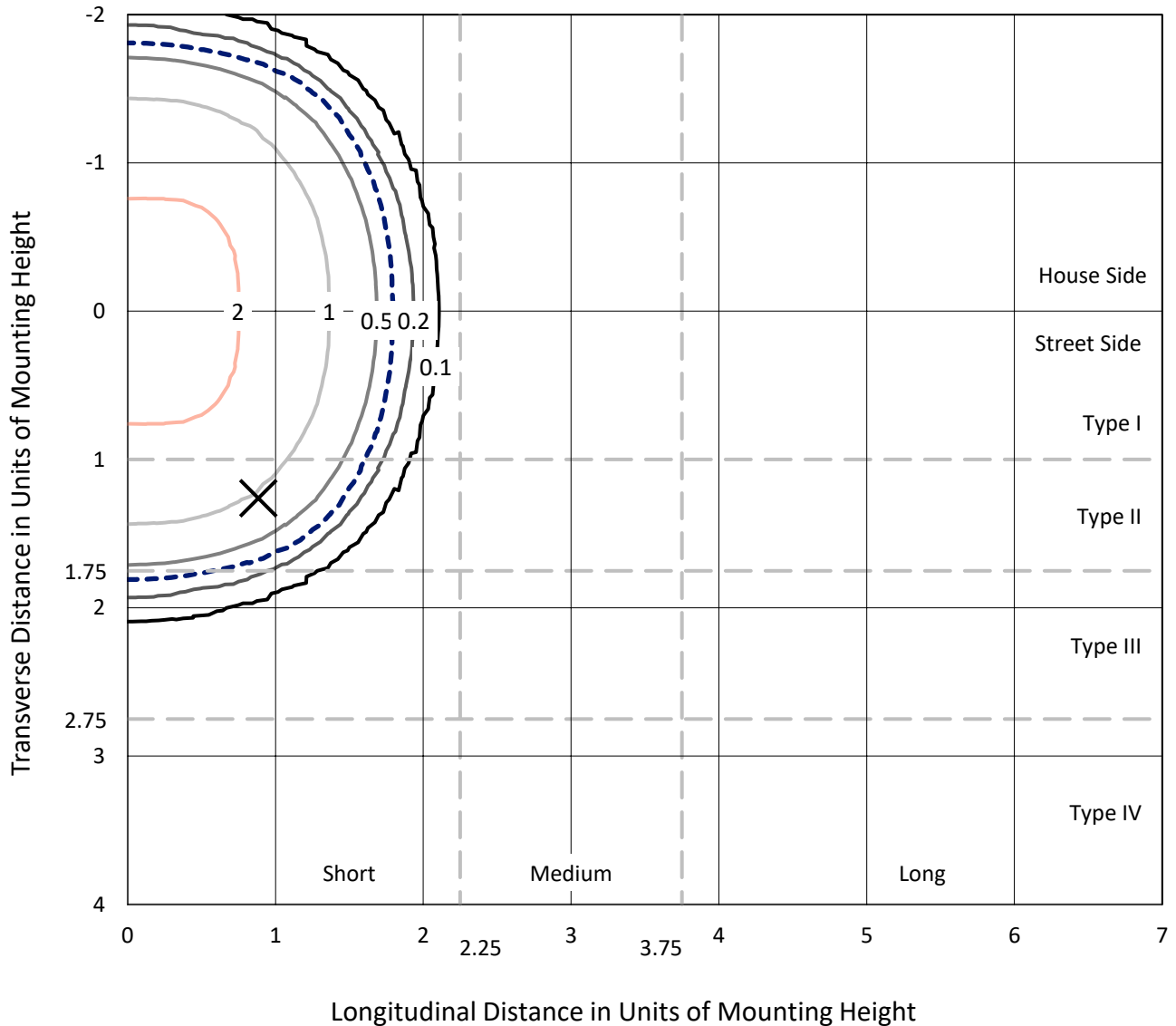
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

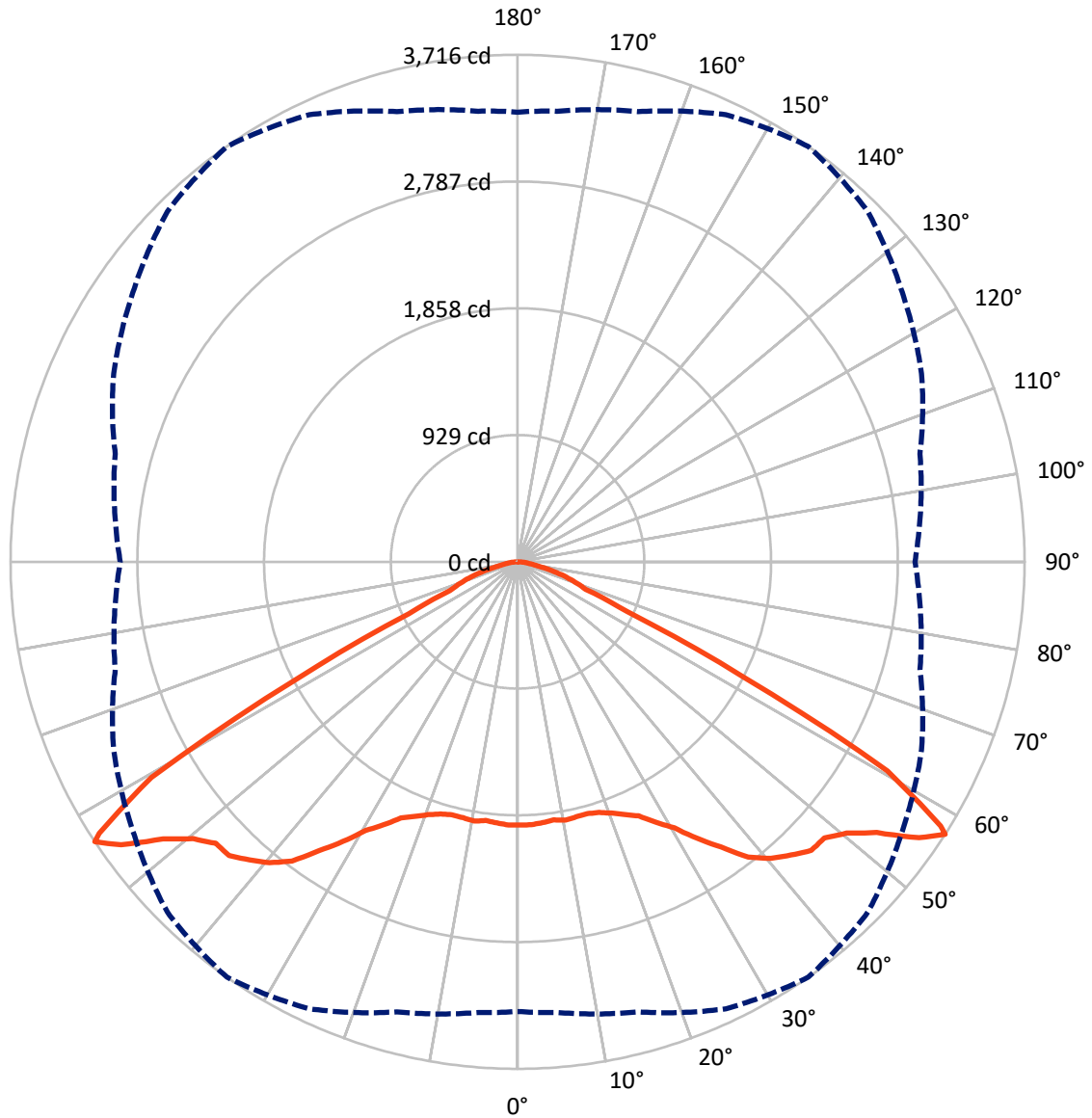
× Max cd
 - - - 1/2 Max cd



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 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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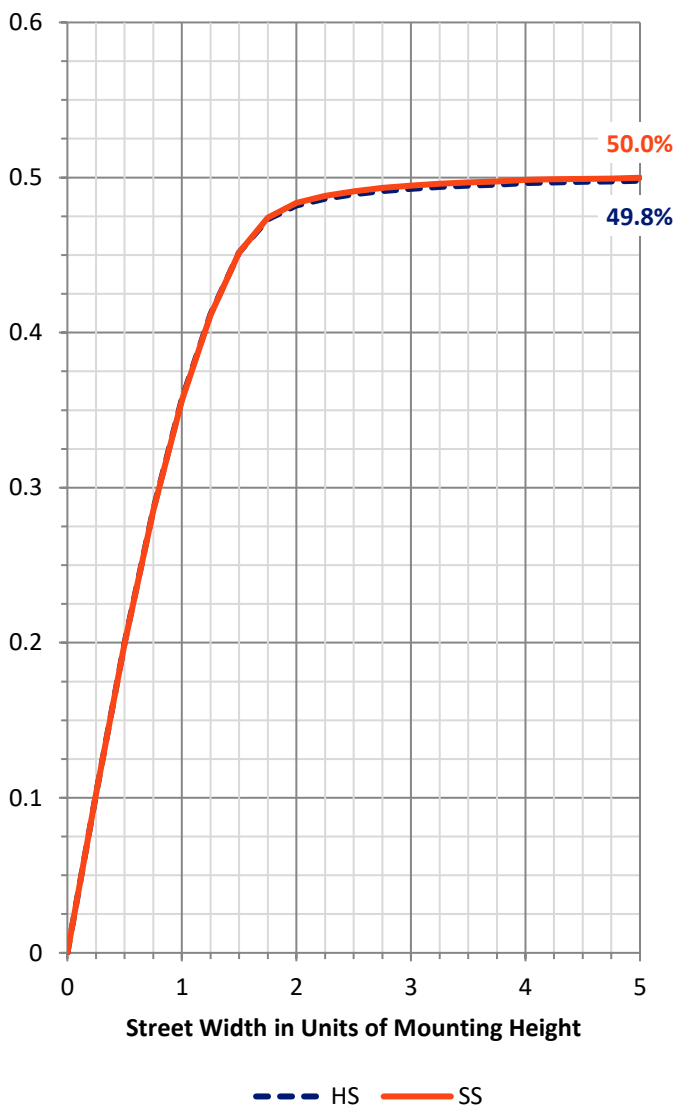
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4885.5	0.0	4885.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4885.5	0.0	4885.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9771.0	0.0	9771.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	1.9
10°-20°	541.8	5.5
20°-30°	946.3	9.7
30°-40°	1550.5	15.9
40°-50°	2273.4	23.3
50°-60°	2863.6	29.3
60°-70°	1077.0	11.0
70°-80°	286.4	2.9
80°-90°	49.1	0.5
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°	9771.0	100.0
0°-180°	9771.0	100.0

Coefficient of Utilization



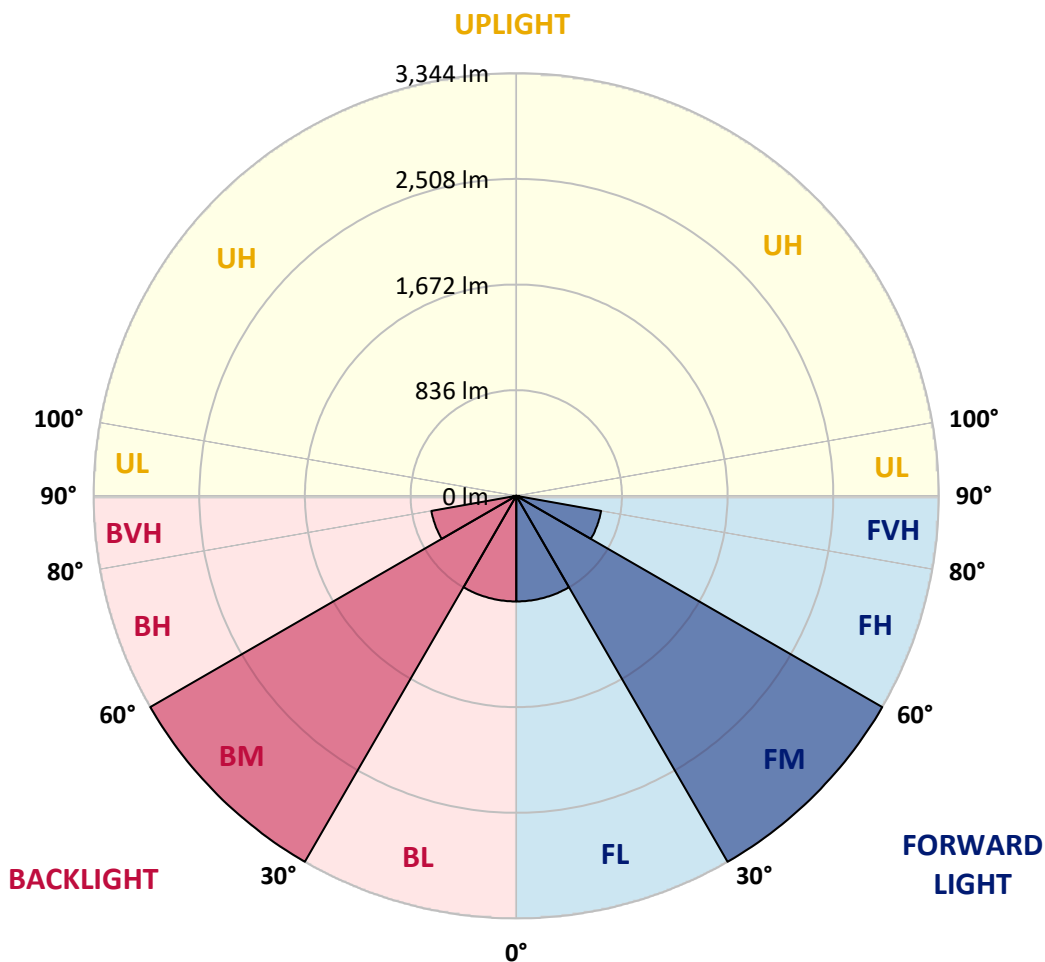
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.5	8.6			
FM (30°-60°)	3343.8	34.2			
FH (60°-80°)	681.7	7.0			G1/1800
FVH (80°-90°)	24.5	0.3			G1/100
BL (0°-30°)	835.5	8.6	B2/1000		
BM (30°-60°)	3343.8	34.2	B3/5000		
BH (60°-80°)	681.7	7.0	B2/1000		G1/1800
BVH (80°-90°)	24.5	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°	1929.7	1929.7	1929.7	1929.7	1929.7	1929.7	1929.7	1929.7	1929.7	1929.7	1929.7
2.5°	1920.1	1939.3	1930.9	1926.1	1929.7	1923.7	1914.0	1924.9	1922.5	1912.9	1909.3
5°	1915.3	1929.7	1920.1	1929.7	1920.1	1936.9	1932.1	1914.0	1935.7	1915.3	1922.5
7.5°	1911.6	1916.5	1918.9	1914.0	1910.4	1930.9	1920.1	1911.6	1899.6	1896.0	1902.0
10°	1903.2	1915.3	1897.2	1921.2	1926.1	1911.6	1911.6	1896.0	1886.4	1880.4	1900.8
12.5°	1924.9	1904.4	1902.0	1914.0	1917.6	1923.7	1906.8	1898.4	1880.4	1882.8	1879.1
15°	1899.6	1908.0	1909.3	1911.6	1915.3	1929.7	1914.0	1896.0	1888.8	1863.5	1865.9
17.5°	1909.3	1900.8	1909.3	1936.9	1932.1	1942.9	1926.1	1898.4	1881.5	1867.1	1886.4
20°	1926.1	1922.5	1926.1	1959.8	1965.8	1975.4	1961.0	1935.7	1903.2	1886.4	1896.0
22.5°	1944.2	1941.8	1944.2	1976.7	2011.6	2023.6	2009.2	1950.1	1933.3	1902.0	1891.2
25°	1976.7	1979.0	2004.3	2040.5	2063.4	2086.2	2059.8	2017.6	1963.5	1944.2	1921.2
27.5°	2048.9	2054.9	2069.4	2122.3	2162.0	2182.5	2145.2	2087.4	2053.7	2014.0	2007.9
30°	2138.0	2138.0	2163.3	2209.0	2263.2	2294.5	2248.7	2180.1	2139.2	2117.5	2104.2
32.5°	2256.0	2242.7	2252.3	2333.0	2417.3	2443.7	2382.4	2298.1	2233.0	2204.1	2194.5
35°	2357.1	2365.5	2387.1	2473.8	2567.8	2629.2	2532.8	2423.3	2357.1	2330.6	2325.7
37.5°	2488.3	2502.7	2513.6	2632.8	2745.9	2768.8	2676.1	2588.2	2507.6	2485.9	2473.8
40°	2673.6	2664.0	2667.7	2755.5	2857.9	2872.3	2780.8	2718.2	2652.0	2638.8	2638.8
42.5°	2826.6	2815.7	2827.7	2860.2	2938.5	2927.6	2877.1	2831.4	2803.7	2789.2	2803.7
45°	2919.3	2916.8	2938.5	2962.6	3018.0	2981.8	2942.1	2949.3	2922.9	2898.7	2897.6
47.5°	3020.3	3004.7	3031.2	3067.3	3025.2	3008.4	3005.9	3021.6	3013.1	2971.0	2957.8
50°	3069.8	3063.7	3105.8	3148.0	3125.1	3086.6	3095.0	3120.3	3012.0	2955.4	2922.9
52.5°	3202.2	3203.3	3284.0	3306.8	3297.2	3240.7	3258.7	3190.1	3062.5	2983.1	2986.7
55°	3410.4	3402.0	3492.3	3559.7	3570.5	3498.3	3411.6	3315.3	3155.2	3074.5	3050.5
57°	3296.0	3315.3	3415.2	3615.0	3716.2	3630.7	3441.7	3266.0	3052.8	2955.4	2912.1
57.5°	3143.1	3174.4	3347.8	3548.9	3654.8	3647.5	3404.4	3174.4	2984.2	2832.6	2836.2
60°	2302.9	2308.9	2465.4	2784.4	3115.5	3122.7	2826.6	2522.0	2310.1	2145.2	2168.0
62.5°	1214.7	1242.3	1304.9	1561.4	1847.9	1917.6	1738.3	1581.8	1398.8	1273.6	1285.7
65°	642.8	639.2	669.3	741.6	882.4	918.5	894.4	770.5	706.7	686.1	687.4
67.5°	522.4	528.4	524.8	528.4	538.1	553.7	550.1	555.0	558.6	564.6	563.4
70°	443.0	443.0	445.4	446.6	446.6	453.8	462.3	477.9	479.1	485.1	487.6
72.5°	349.1	346.7	350.3	358.8	359.9	366.0	378.0	387.7	391.3	391.3	384.0
75°	237.2	239.5	244.4	251.6	258.8	269.7	279.3	285.3	287.7	284.1	280.5
77.5°	133.7	136.0	139.6	150.5	158.9	168.5	179.4	185.4	191.4	192.6	185.4
80°	79.5	79.5	85.5	93.9	103.5	113.1	122.8	130.0	132.4	132.4	128.8
82.5°	48.2	49.3	54.2	62.6	71.0	77.0	85.5	91.5	96.3	95.1	92.7
85°	25.3	25.3	30.1	37.3	43.3	49.3	49.3	45.7	43.3	37.3	34.9
87.5°	8.5	7.2	9.6	9.6	8.5	9.6	9.6	10.8	10.8	10.8	10.8
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)