

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: P646762

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646762
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
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-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9971.5 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

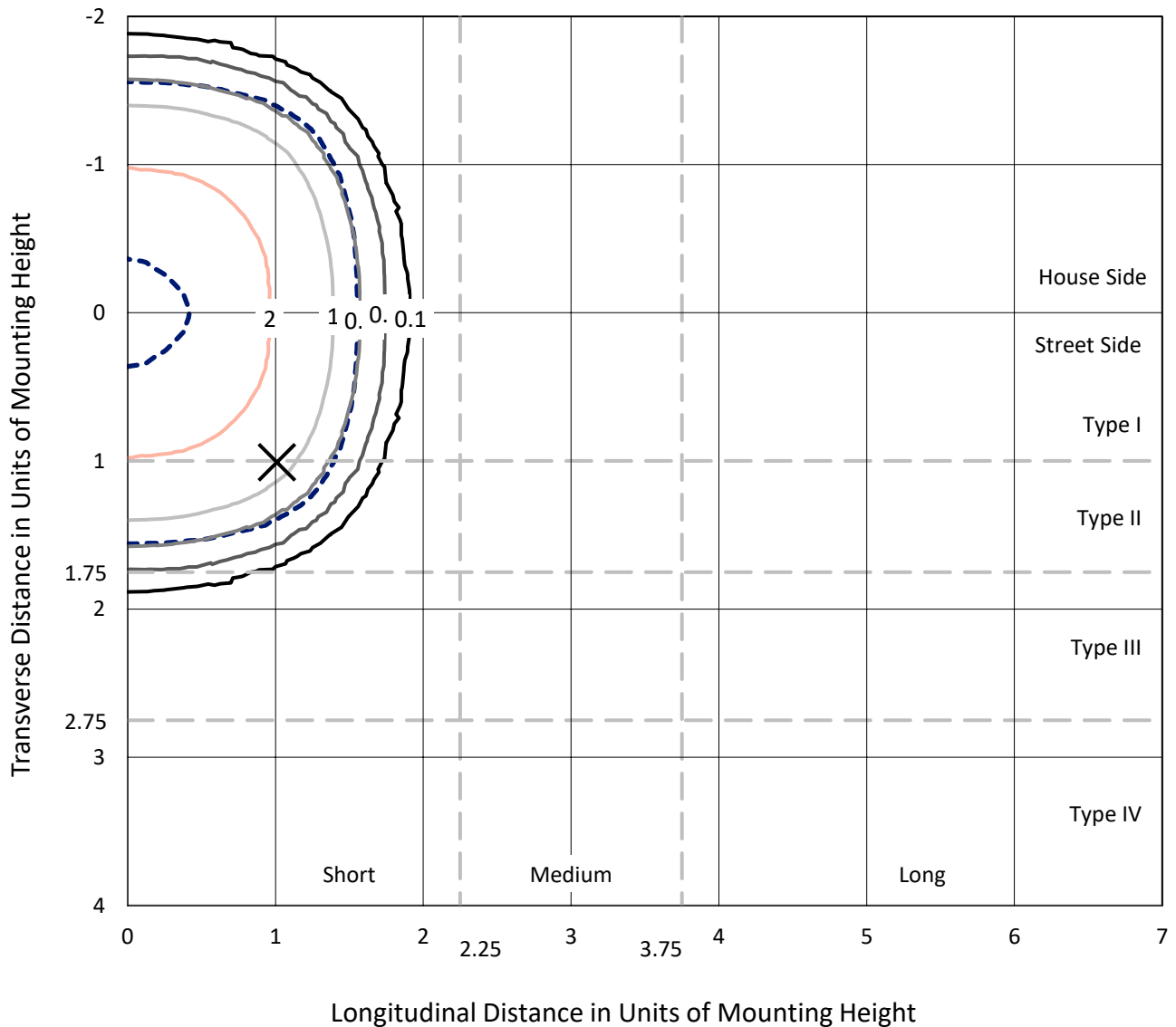
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

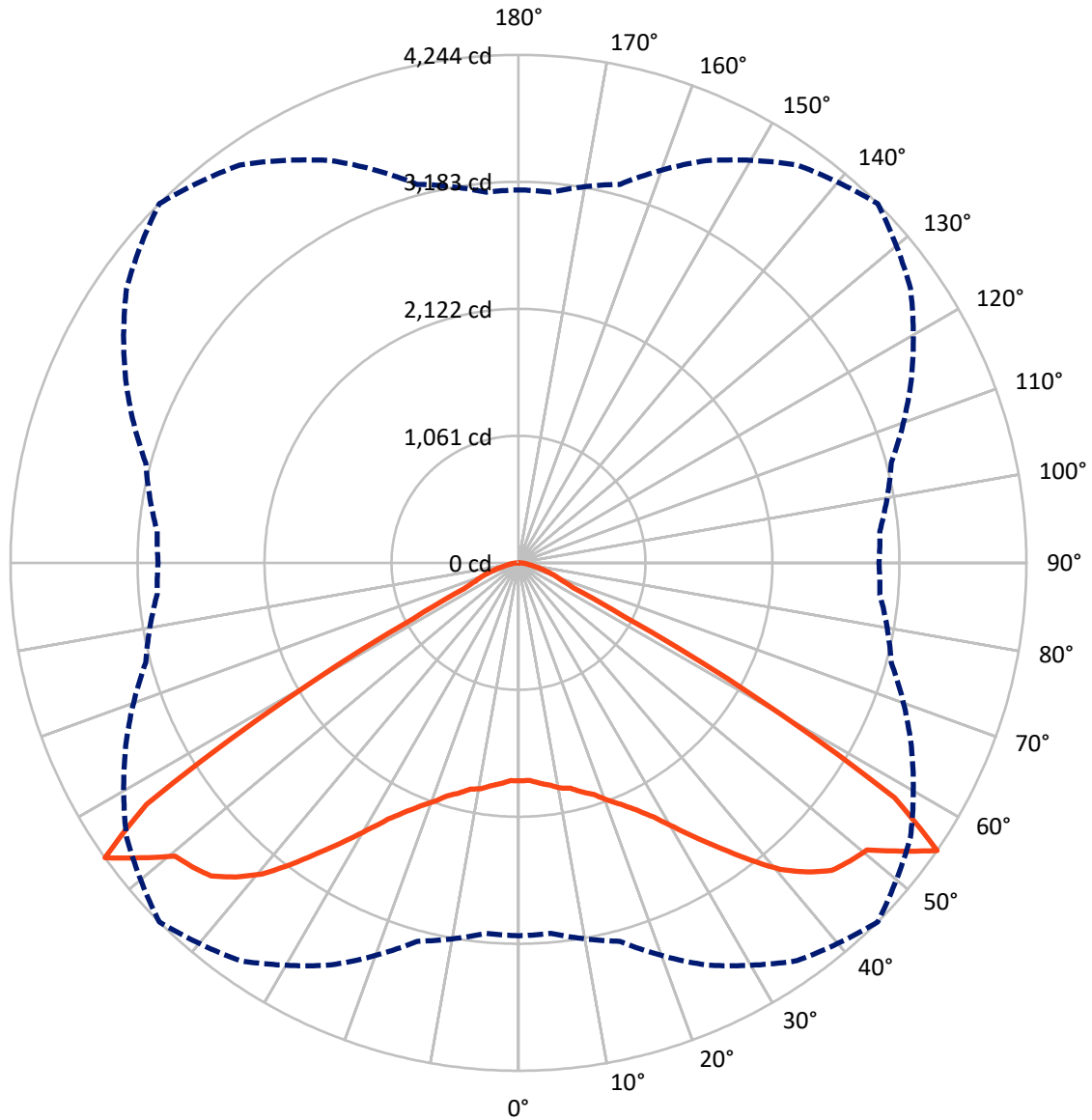
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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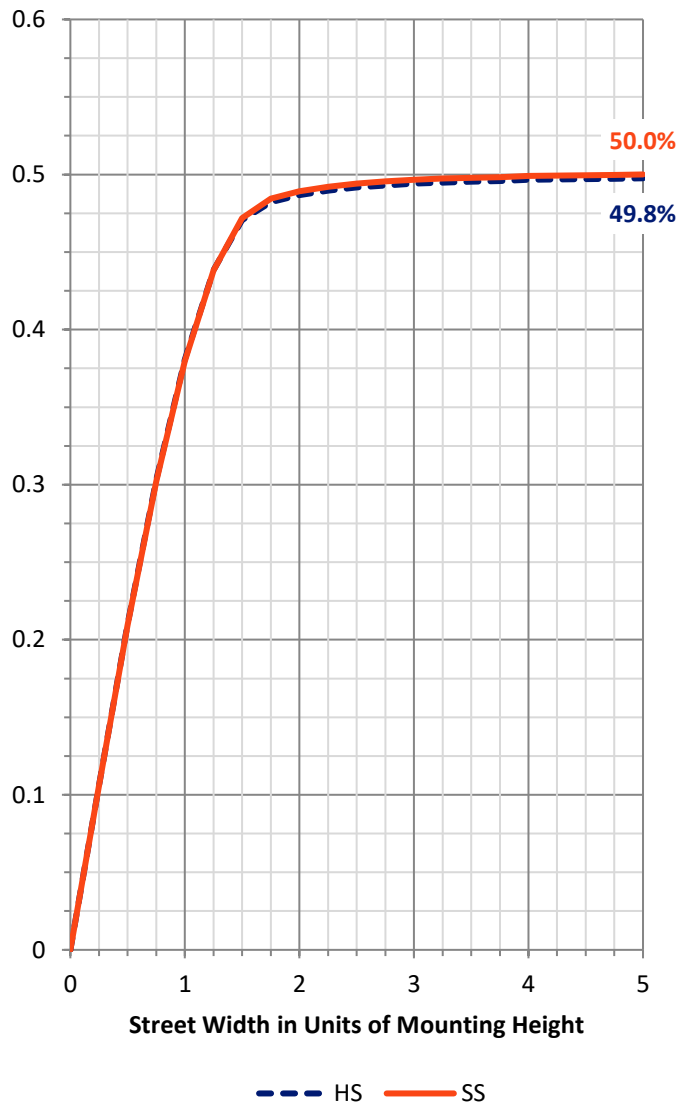
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4985.8	0.0	4985.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4985.8	0.0	4985.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	9971.5	0.0	9971.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	1.8
10°-20°	563.5	5.7
20°-30°	1050.8	10.5
30°-40°	1759.5	17.6
40°-50°	2737.9	27.5
50°-60°	2842.7	28.5
60°-70°	602.9	6.0
70°-80°	198.5	2.0
80°-90°	37.8	0.4
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°	9971.5	100.0
0°-180°	9971.5	100.0

Coefficient of Utilization



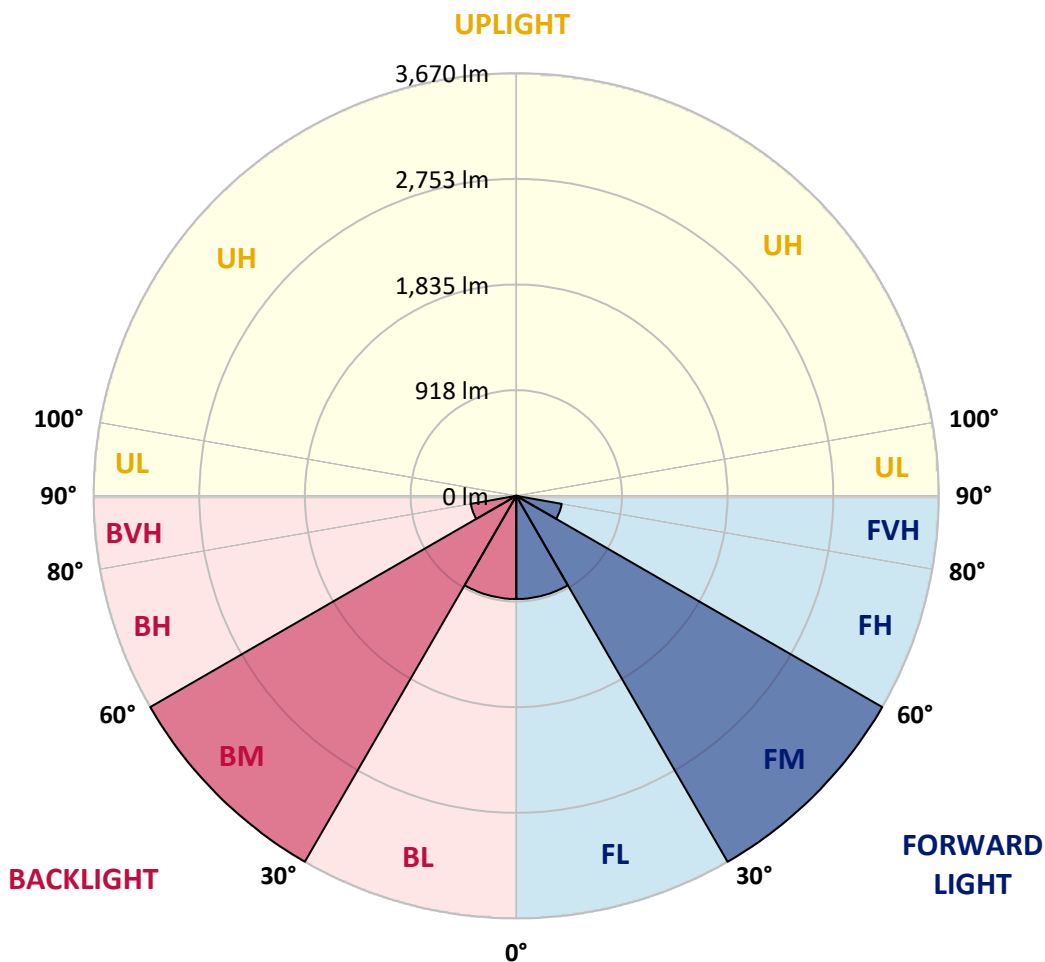
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	896.1	9.0			
FM (30°-60°)	3670.0	36.8			
FH (60°-80°)	400.7	4.0			G0/660
FVH (80°-90°)	18.9	0.2			G1/100
BL (0°-30°)	896.1	9.0	B2/1000		
BM (30°-60°)	3670.0	36.8	B3/5000		
BH (60°-80°)	400.7	4.0	B1/500		G0/660
BVH (80°-90°)	18.9	0.2			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°	1820.6	1820.6	1820.6	1820.6	1820.6	1820.6	1820.6	1820.6	1820.6	1820.6	1820.6
2.5°	1842.3	1833.9	1819.5	1830.3	1838.7	1820.6	1827.9	1831.5	1829.1	1819.5	1823.1
5°	1868.9	1864.0	1852.0	1860.4	1849.6	1849.6	1842.3	1832.7	1847.2	1844.7	1850.8
7.5°	1868.9	1862.8	1887.0	1871.3	1876.1	1876.1	1864.0	1854.4	1861.6	1850.8	1844.7
10°	1906.2	1914.7	1903.8	1907.4	1905.0	1913.4	1895.3	1889.3	1883.3	1879.7	1872.5
12.5°	1950.8	1944.7	1948.3	1946.0	1954.4	1932.7	1921.9	1908.6	1919.4	1903.8	1914.7
15°	1986.9	1983.3	1986.9	1996.6	1988.1	1986.9	1967.7	1954.4	1937.5	1941.1	1924.3
17.5°	2036.3	2032.7	2033.9	2042.4	2041.1	2035.1	2020.7	1995.4	1989.4	1979.7	1968.9
20°	2109.8	2103.8	2101.4	2105.0	2111.0	2115.8	2086.9	2077.3	2056.8	2041.1	2023.0
22.5°	2172.5	2170.1	2179.7	2164.1	2177.3	2191.8	2164.1	2159.2	2108.6	2100.2	2080.9
25°	2259.3	2255.7	2249.6	2272.5	2288.2	2287.0	2260.4	2234.0	2195.4	2185.7	2185.7
27.5°	2350.8	2330.4	2361.7	2367.7	2395.4	2403.8	2380.9	2342.3	2306.2	2285.7	2290.6
30°	2465.3	2446.0	2453.2	2496.6	2532.8	2564.1	2506.2	2449.6	2399.0	2362.9	2356.8
32.5°	2579.8	2560.5	2582.2	2624.3	2696.7	2743.6	2687.0	2588.2	2529.2	2476.2	2487.0
35°	2672.5	2687.0	2721.9	2785.8	2860.5	2936.4	2846.0	2770.1	2685.8	2626.7	2635.2
37.5°	2821.9	2866.6	2894.2	2967.7	3073.7	3152.1	3058.1	2959.3	2868.9	2791.8	2765.3
40°	3017.1	3047.3	3078.6	3165.4	3290.6	3369.0	3279.8	3150.9	3061.7	2982.2	2978.6
42.5°	3231.6	3260.6	3293.1	3399.1	3473.8	3532.8	3450.9	3382.2	3283.4	3220.8	3217.2
45°	3481.1	3460.5	3496.7	3566.6	3629.3	3667.8	3614.8	3581.1	3510.0	3452.1	3446.1
47.5°	3647.3	3629.3	3694.4	3757.0	3766.6	3724.4	3735.3	3766.6	3691.9	3596.7	3626.9
50°	3743.7	3743.7	3787.1	3844.9	3826.8	3772.7	3858.2	3860.6	3785.9	3701.6	3701.6
52.5°	3576.2	3613.5	3736.5	3925.6	3985.9	4001.6	3982.3	3900.4	3705.2	3532.8	3524.4
55°	3115.9	3107.5	3273.8	3707.6	4058.2	4243.8	3997.9	3620.8	3224.4	3030.4	3011.1
57.5°	2026.7	2036.3	2284.6	2726.7	3359.3	3705.2	3290.6	2760.5	2284.6	2017.1	2042.4
60°	912.1	944.7	1095.3	1425.5	1968.9	2250.8	1973.7	1497.7	1149.5	997.7	1010.9
62.5°	524.1	530.2	536.2	636.2	838.6	991.7	871.2	672.4	592.8	566.3	566.3
65°	442.2	438.6	439.8	448.3	470.0	501.3	488.0	470.0	472.3	470.0	466.3
67.5°	375.9	380.8	377.2	383.2	384.4	389.2	397.6	404.9	406.1	408.5	406.1
70°	308.4	309.7	312.1	316.9	318.1	321.7	333.8	339.8	343.4	343.4	348.2
72.5°	236.2	235.0	237.4	242.2	248.2	249.4	260.3	268.7	273.5	267.5	268.7
75°	155.4	156.7	160.3	163.9	172.3	180.7	184.3	192.8	194.0	196.4	190.3
77.5°	92.8	95.2	98.8	106.0	113.3	120.5	129.0	135.0	137.3	135.0	127.7
80°	60.2	60.2	65.1	71.1	79.6	85.6	90.4	95.2	98.8	95.2	92.8
82.5°	37.3	37.3	43.4	50.6	56.6	60.2	67.5	73.5	77.1	74.7	71.1
85°	19.3	20.5	25.3	31.3	36.2	38.5	37.3	33.7	30.1	28.9	26.5
87.5°	6.0	6.0	7.2	7.2	6.0	6.0	7.2	6.0	7.2	7.2	7.2
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)