

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: P527602

Luminaire Tested: **GALN-SA2C-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527602
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-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 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: 8817 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

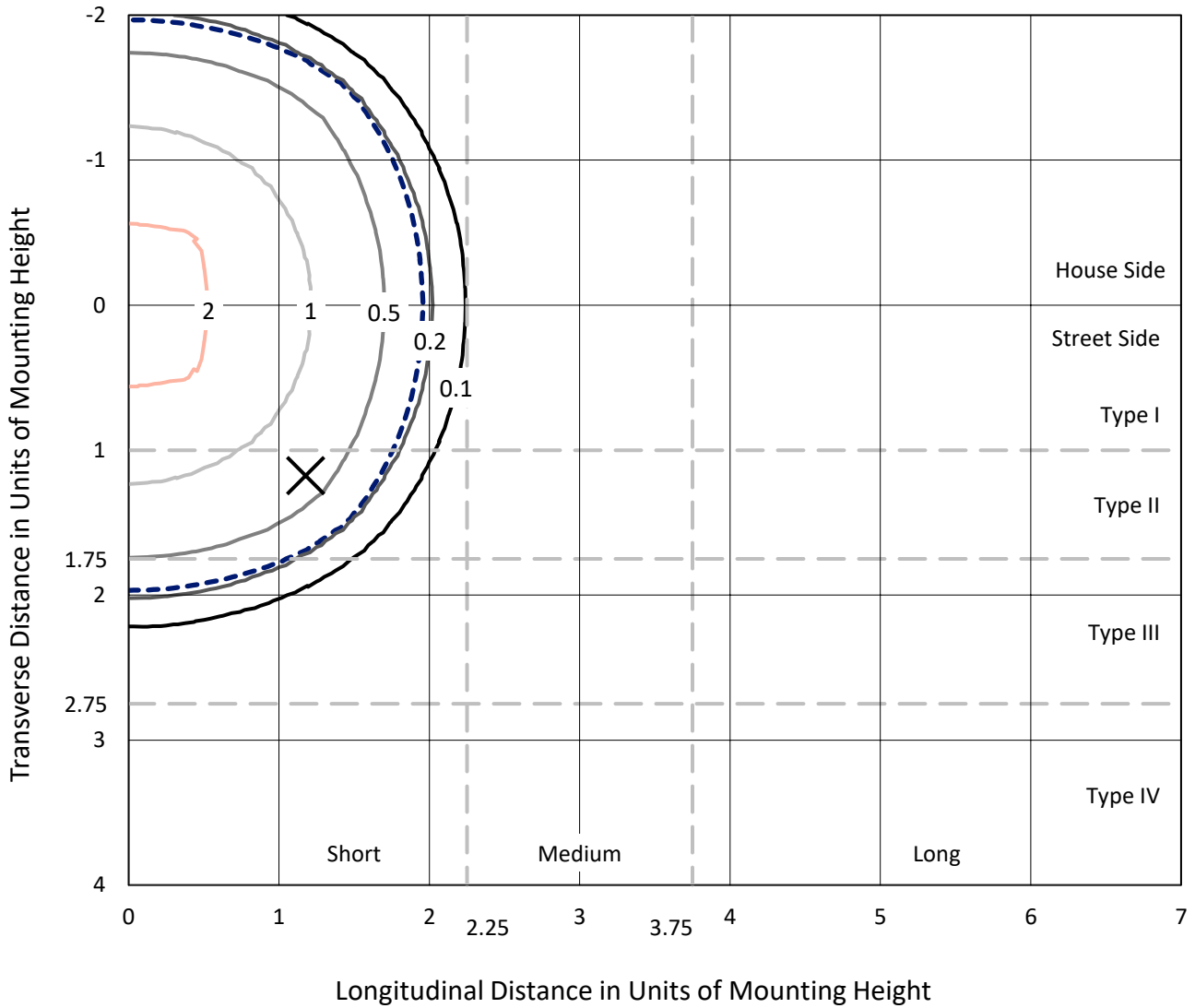
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527602
 CATALOG NUMBER: GALN-SA2C-827-U-5WQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

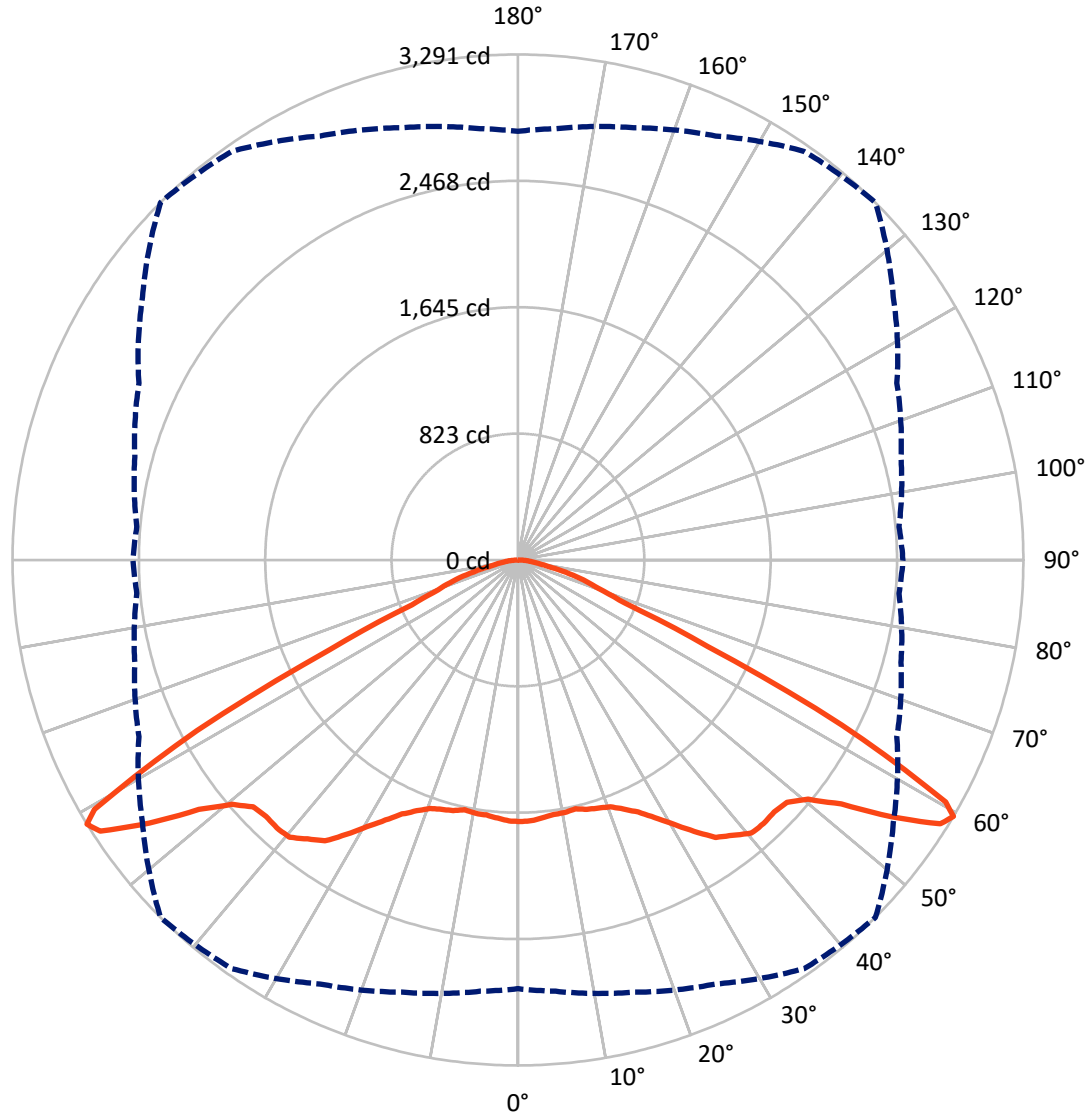
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

REPORT NUMBER: P527602
CATALOG NUMBER: GALN-SA2C-827-U-5WQ-GRSWH

Luminous Intensity Polar Plot



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

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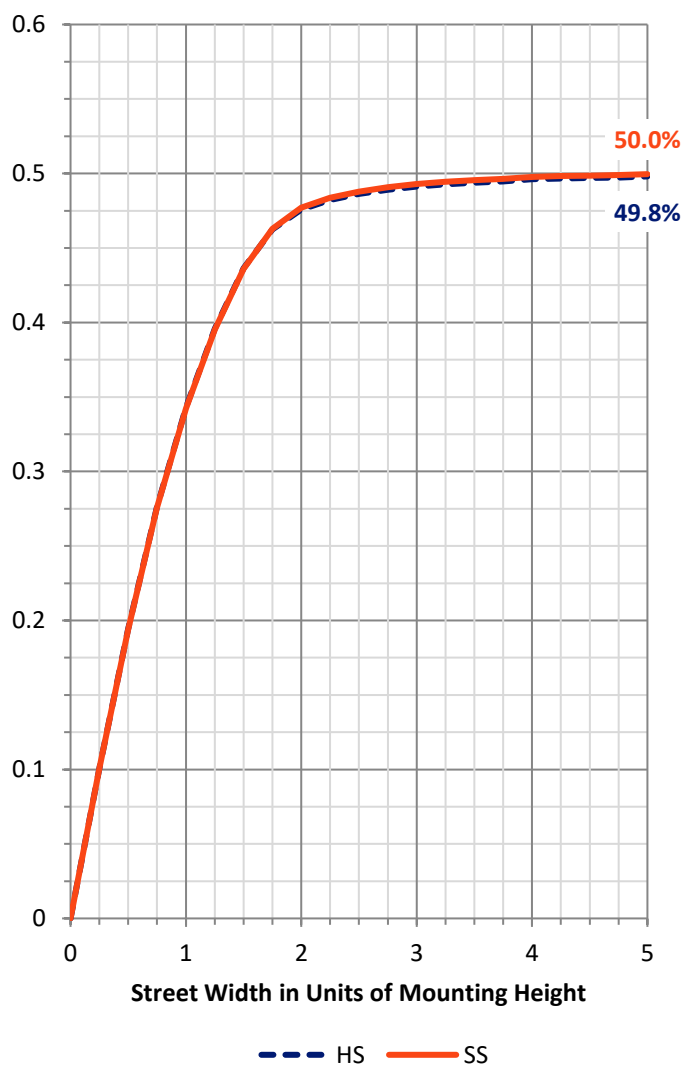
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4408.5	0.0	4408.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4408.5	0.0	4408.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8817.0	0.0	8817.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	1.8
10°-20°	477.4	5.4
20°-30°	833.6	9.5
30°-40°	1331.4	15.1
40°-50°	1813.7	20.6
50°-60°	2452.6	27.8
60°-70°	1345.0	15.3
70°-80°	344.1	3.9
80°-90°	58.7	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°	8817.0	100.0
0°-180°	8817.0	100.0

Coefficient of Utilization



REPORT NUMBER: P527602

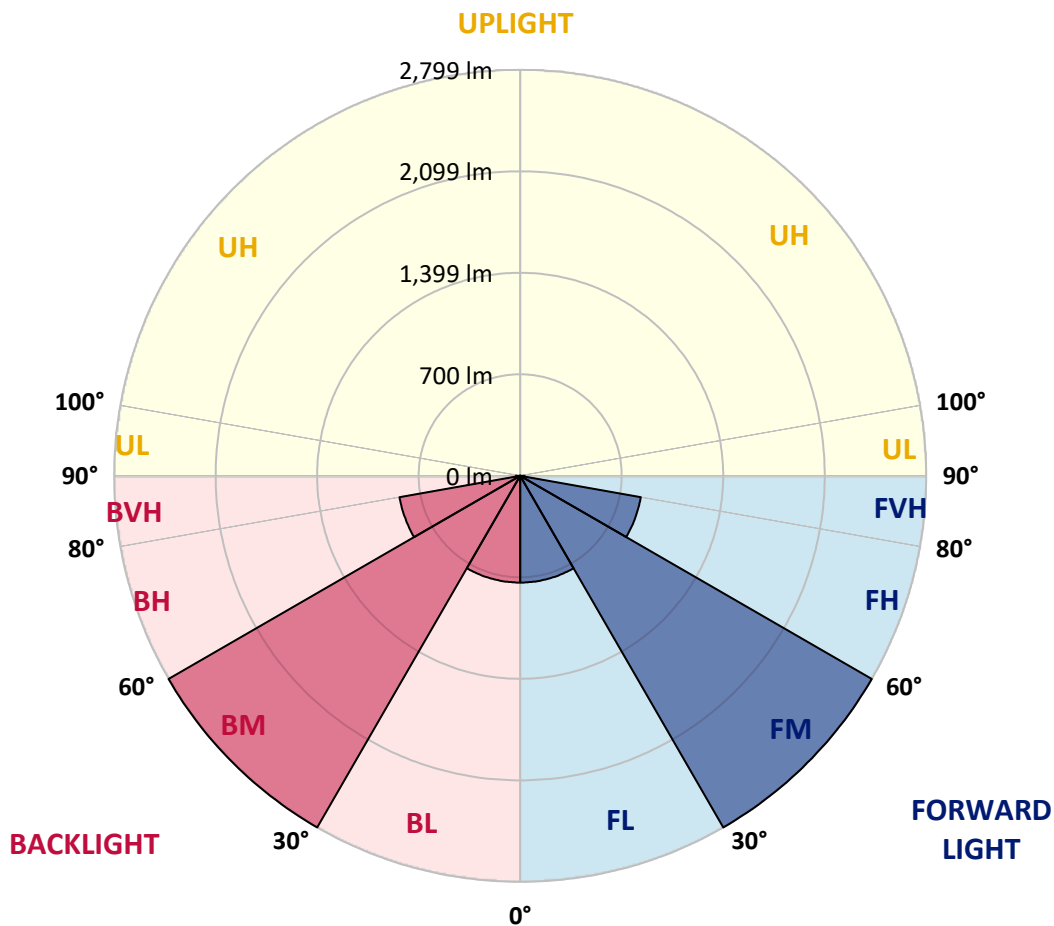
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	735.8	8.3			
FM (30°-60°)	2798.8	31.7			
FH (60°-80°)	844.5	9.6			G1/1800
FVH (80°-90°)	29.3	0.3			G1/100
BL (0°-30°)	735.8	8.3	B2/1000		
BM (30°-60°)	2798.8	31.7	B3/5000		
BH (60°-80°)	844.5	9.6	B2/1000		G1/1800
BVH (80°-90°)	29.3	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°	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0	1703.0
2.5°	1692.9	1705.3	1696.2	1704.2	1703.0	1699.6	1694.0	1690.6	1686.1	1692.9	1681.6
5°	1686.1	1696.2	1706.4	1692.9	1692.9	1686.1	1682.7	1675.9	1675.9	1674.8	1673.6
7.5°	1697.4	1687.2	1682.7	1684.9	1687.2	1672.5	1682.7	1669.1	1657.8	1665.7	1674.8
10°	1687.2	1691.7	1674.8	1682.7	1670.3	1672.5	1665.7	1674.8	1662.3	1662.3	1662.3
12.5°	1697.4	1684.9	1690.6	1684.9	1681.6	1662.3	1671.4	1661.2	1660.1	1671.4	1661.2
15°	1717.7	1697.4	1692.9	1681.6	1684.9	1684.9	1675.9	1677.0	1664.6	1671.4	1673.6
17.5°	1710.9	1699.6	1696.2	1682.7	1694.0	1697.4	1680.4	1669.1	1677.0	1675.9	1674.8
20°	1716.6	1721.1	1717.7	1720.0	1724.5	1715.5	1699.6	1683.8	1673.6	1688.3	1687.2
22.5°	1752.7	1748.2	1746.0	1743.7	1751.6	1760.7	1739.2	1714.3	1714.3	1724.5	1729.0
25°	1782.1	1781.0	1779.9	1790.0	1817.2	1817.2	1790.0	1758.4	1750.5	1757.3	1751.6
27.5°	1825.1	1837.5	1833.0	1851.1	1890.6	1899.7	1863.5	1826.2	1804.7	1796.8	1807.0
30°	1923.4	1908.7	1912.1	1931.3	1966.3	1995.7	1940.3	1900.8	1871.4	1870.3	1874.8
32.5°	1988.9	2000.2	2010.4	2028.5	2083.9	2106.5	2039.8	1975.4	1957.3	1947.1	1950.5
35°	2120.0	2109.8	2107.6	2125.7	2181.0	2218.3	2134.7	2078.2	2054.5	2077.1	2077.1
37.5°	2244.3	2216.1	2194.6	2218.3	2269.2	2273.7	2202.5	2172.0	2159.6	2185.6	2184.4
40°	2303.1	2300.8	2251.1	2264.7	2332.5	2339.3	2272.6	2236.4	2234.2	2268.1	2302.0
42.5°	2364.1	2342.6	2292.9	2302.0	2343.8	2346.0	2282.8	2272.6	2297.4	2330.2	2332.5
45°	2374.3	2356.2	2324.6	2302.0	2332.5	2339.3	2302.0	2308.7	2311.0	2350.6	2350.6
47.5°	2394.6	2392.4	2374.3	2357.3	2363.0	2357.3	2333.6	2343.8	2377.7	2396.9	2387.8
50°	2451.1	2427.4	2445.5	2430.8	2431.9	2447.7	2426.3	2436.4	2429.7	2412.7	2401.4
52.5°	2575.4	2564.1	2580.0	2590.1	2601.4	2637.6	2612.7	2558.5	2507.6	2462.4	2461.3
55°	2757.4	2765.3	2795.8	2847.8	2891.9	2949.5	2829.7	2699.7	2618.4	2547.2	2551.7
57.5°	2929.2	2923.5	2965.3	3084.0	3212.8	3242.2	3007.1	2821.8	2689.6	2644.4	2625.2
59°	2791.3	2818.4	2913.3	3045.6	3247.8	3290.8	2983.4	2722.4	2582.2	2490.7	2506.5
60°	2574.3	2584.5	2669.2	2853.4	3126.9	3200.4	2824.1	2568.7	2382.2	2329.1	2352.8
62.5°	1819.4	1811.5	1872.5	2022.8	2268.1	2367.5	2099.7	1920.0	1802.5	1743.7	1757.3
65°	967.3	1003.5	1028.4	1122.2	1252.1	1357.2	1246.5	1168.5	1103.0	1054.4	1053.2
67.5°	653.2	648.7	654.3	675.8	719.9	749.2	747.0	707.4	701.8	692.7	702.9
70°	550.3	548.1	537.9	537.9	547.0	553.7	561.6	566.2	575.2	586.5	585.4
72.5°	446.4	440.7	433.9	430.6	441.9	445.2	455.4	459.9	467.9	466.7	476.9
75°	294.9	294.9	302.9	311.9	315.3	322.1	323.2	336.8	336.8	339.0	330.0
77.5°	165.0	160.5	166.1	175.2	183.1	195.5	207.9	218.1	223.8	221.5	221.5
80°	96.1	96.1	101.7	111.9	122.0	133.3	142.4	150.3	156.0	153.7	149.2
82.5°	59.9	59.9	65.5	75.7	83.6	90.4	102.8	113.0	119.8	117.5	111.9
85°	30.5	30.5	37.3	44.1	54.2	58.8	57.6	53.1	52.0	46.3	46.3
87.5°	7.9	7.9	11.3	12.4	10.2	11.3	11.3	11.3	11.3	11.3	12.4
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)