

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: P527836

Luminaire Tested: **GALN-SA2D-827-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527836
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-SA2D-827-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA 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: 9702 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

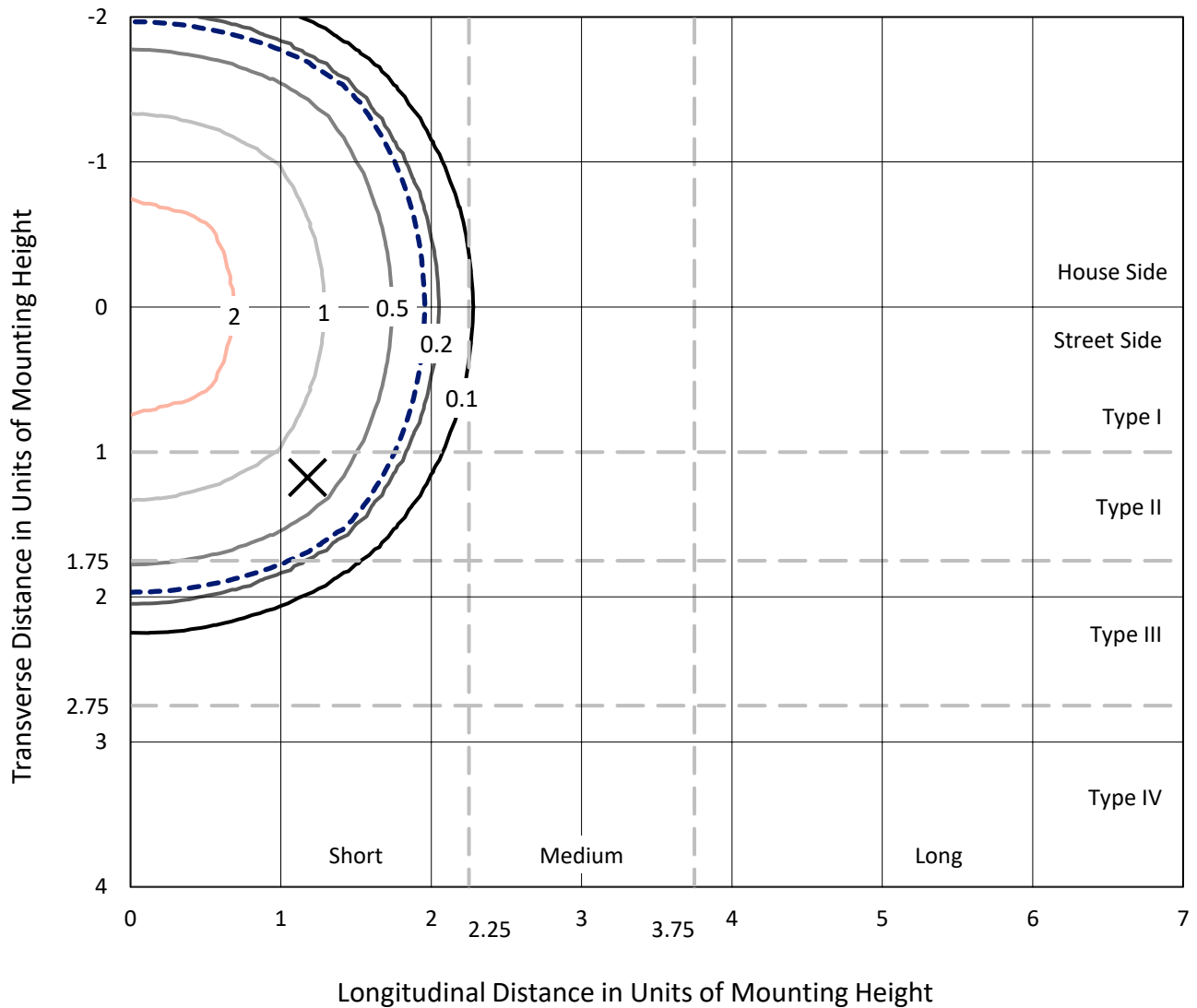
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

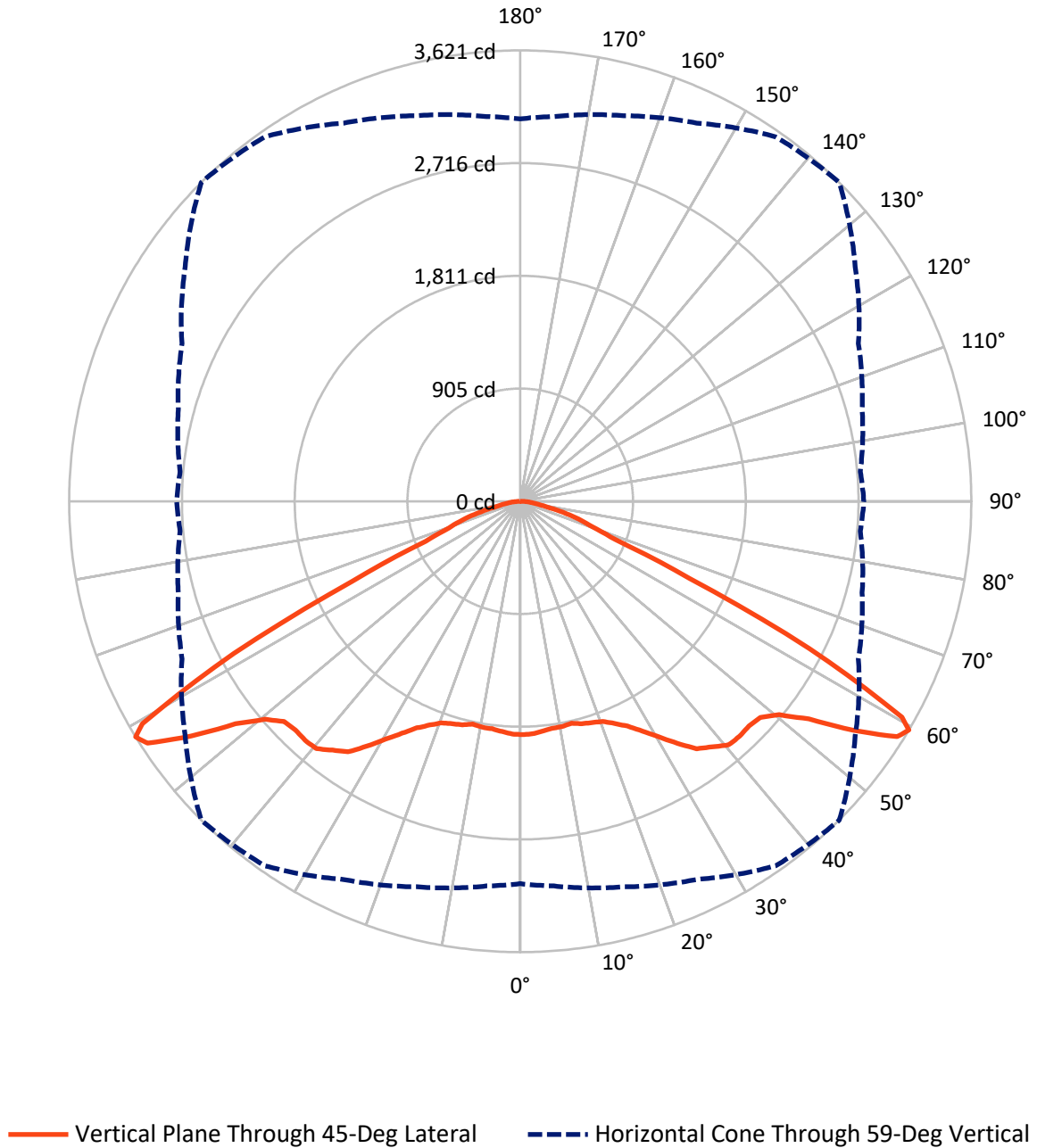
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 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	4851.0	0.0	4851.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4851.0	0.0	4851.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9702.0	0.0	9702.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	1.8
10°-20°	525.3	5.4
20°-30°	917.3	9.5
30°-40°	1465.1	15.1
40°-50°	1995.7	20.6
50°-60°	2698.7	27.8
60°-70°	1480.0	15.3
70°-80°	378.6	3.9
80°-90°	64.6	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°	9702.0	100.0
0°-180°	9702.0	100.0

Coefficient of Utilization



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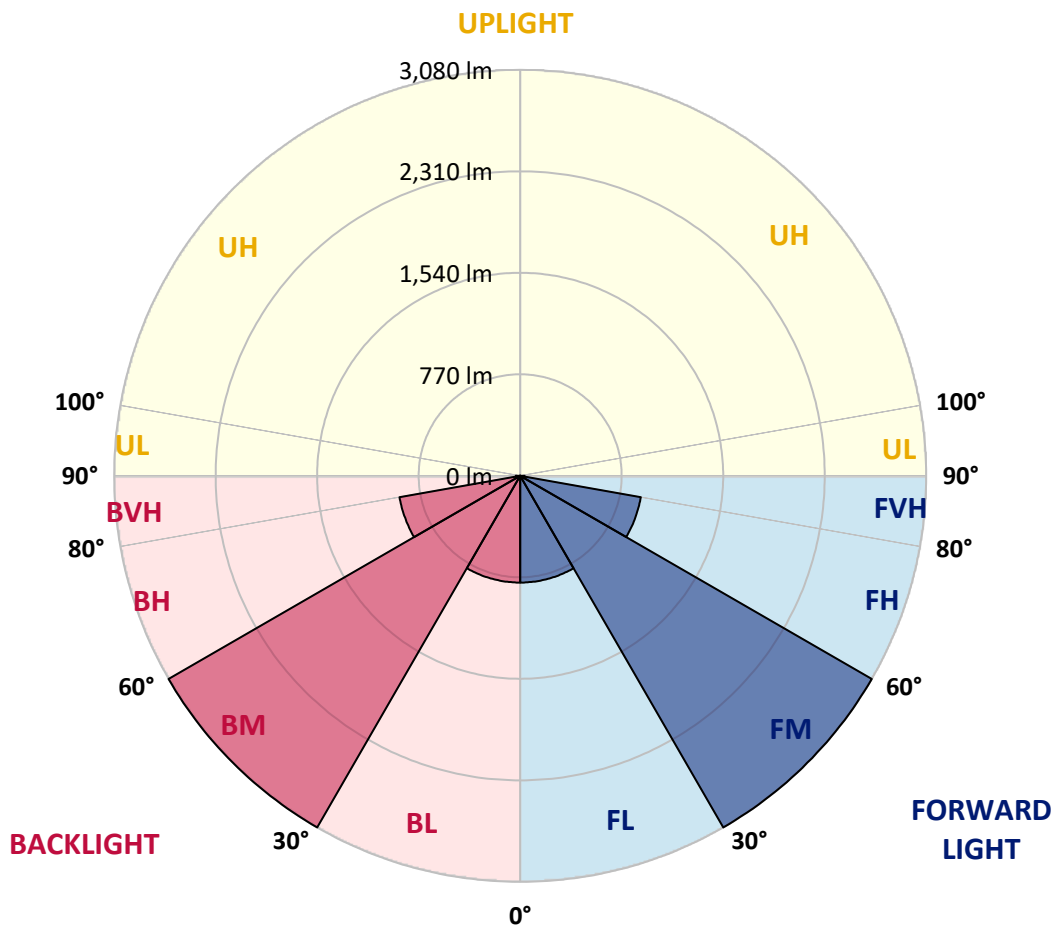
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	809.7	8.3			
FM (30°-60°)	3079.7	31.7			
FH (60°-80°)	929.3	9.6			G1/1800
FVH (80°-90°)	32.3	0.3			G1/100
BL (0°-30°)	809.7	8.3	B2/1000		
BM (30°-60°)	3079.7	31.7	B3/5000		
BH (60°-80°)	929.3	9.6	B2/1000		G1/1800
BVH (80°-90°)	32.3	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°	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0	1874.0
2.5°	1862.8	1876.4	1866.5	1875.2	1874.0	1870.2	1864.0	1860.3	1855.3	1862.8	1850.3
5°	1855.3	1866.5	1877.7	1862.8	1862.8	1855.3	1851.6	1844.1	1844.1	1842.9	1841.6
7.5°	1867.7	1856.6	1851.6	1854.1	1856.6	1840.4	1851.6	1836.7	1824.2	1832.9	1842.9
10°	1856.6	1861.5	1842.9	1851.6	1837.9	1840.4	1832.9	1842.9	1829.2	1829.2	1829.2
12.5°	1867.7	1854.1	1860.3	1854.1	1850.3	1829.2	1839.1	1828.0	1826.7	1839.1	1828.0
15°	1890.1	1867.7	1862.8	1850.3	1854.1	1854.1	1844.1	1845.4	1831.7	1839.1	1841.6
17.5°	1882.7	1870.2	1866.5	1851.6	1864.0	1867.7	1849.1	1836.7	1845.4	1844.1	1842.9
20°	1888.9	1893.9	1890.1	1892.6	1897.6	1887.6	1870.2	1852.8	1841.6	1857.8	1856.6
22.5°	1928.7	1923.7	1921.2	1918.7	1927.4	1937.4	1913.8	1886.4	1886.4	1897.6	1902.6
25°	1961.0	1959.8	1958.5	1969.7	1999.6	1999.6	1969.7	1934.9	1926.2	1933.7	1927.4
27.5°	2008.3	2021.9	2017.0	2036.9	2080.4	2090.3	2050.5	2009.5	1985.9	1977.2	1988.4
30°	2116.4	2100.3	2104.0	2125.2	2163.7	2196.0	2135.1	2091.6	2059.2	2058.0	2063.0
32.5°	2188.6	2201.0	2212.2	2232.1	2293.0	2317.9	2244.5	2173.6	2153.8	2142.6	2146.3
35°	2332.8	2321.6	2319.1	2339.0	2400.0	2441.0	2349.0	2286.8	2260.7	2285.6	2285.6
37.5°	2469.6	2438.5	2414.9	2441.0	2497.0	2501.9	2423.6	2390.0	2376.3	2404.9	2403.7
40°	2534.3	2531.8	2477.1	2492.0	2566.6	2574.1	2500.7	2460.9	2458.4	2495.7	2533.0
42.5°	2601.4	2577.8	2523.1	2533.0	2579.0	2581.5	2511.9	2500.7	2528.0	2564.1	2566.6
45°	2612.6	2592.7	2557.9	2533.0	2566.6	2574.1	2533.0	2540.5	2543.0	2586.5	2586.5
47.5°	2635.0	2632.5	2612.6	2594.0	2600.2	2594.0	2567.8	2579.0	2616.3	2637.5	2627.5
50°	2697.2	2671.0	2690.9	2674.8	2676.0	2693.4	2669.8	2681.0	2673.5	2654.9	2642.4
52.5°	2833.9	2821.5	2838.9	2850.1	2862.5	2902.3	2875.0	2815.3	2759.3	2709.6	2708.4
55°	3034.2	3042.9	3076.4	3133.6	3182.1	3245.5	3113.7	2970.7	2881.2	2802.9	2807.8
57.5°	3223.2	3216.9	3263.0	3393.5	3535.3	3567.6	3309.0	3105.0	2959.5	2909.8	2888.7
59°	3071.5	3101.3	3205.8	3351.2	3573.8	3621.1	3282.9	2995.6	2841.4	2740.7	2758.1
60°	2832.7	2843.9	2937.2	3139.9	3440.8	3521.6	3107.5	2826.5	2621.3	2562.9	2589.0
62.5°	2002.0	1993.3	2060.5	2225.9	2495.7	2605.1	2310.4	2112.7	1983.4	1918.7	1933.7
65°	1064.4	1104.2	1131.6	1234.8	1377.8	1493.4	1371.6	1285.8	1213.7	1160.2	1158.9
67.5°	718.7	713.8	720.0	743.6	792.1	824.4	822.0	778.4	772.2	762.3	773.5
70°	605.6	603.1	591.9	591.9	601.9	609.3	618.0	623.0	632.9	645.4	644.1
72.5°	491.2	485.0	477.5	473.8	486.2	489.9	501.1	506.1	514.8	513.6	524.8
75°	324.6	324.6	333.3	343.2	346.9	354.4	355.6	370.6	370.6	373.1	363.1
77.5°	181.6	176.6	182.8	192.7	201.4	215.1	228.8	240.0	246.2	243.7	243.7
80°	105.7	105.7	111.9	123.1	134.3	146.7	156.7	165.4	171.6	169.1	164.1
82.5°	65.9	65.9	72.1	83.3	92.0	99.5	113.2	124.4	131.8	129.3	123.1
85°	33.6	33.6	41.0	48.5	59.7	64.7	63.4	58.4	57.2	51.0	51.0
87.5°	8.7	8.7	12.4	13.7	11.2	12.4	12.4	12.4	12.4	12.4	13.7
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)