

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: P528096

Luminaire Tested: **GALN-SA3A-830-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528096
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-SA3A-830-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA 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: 9204 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 93
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



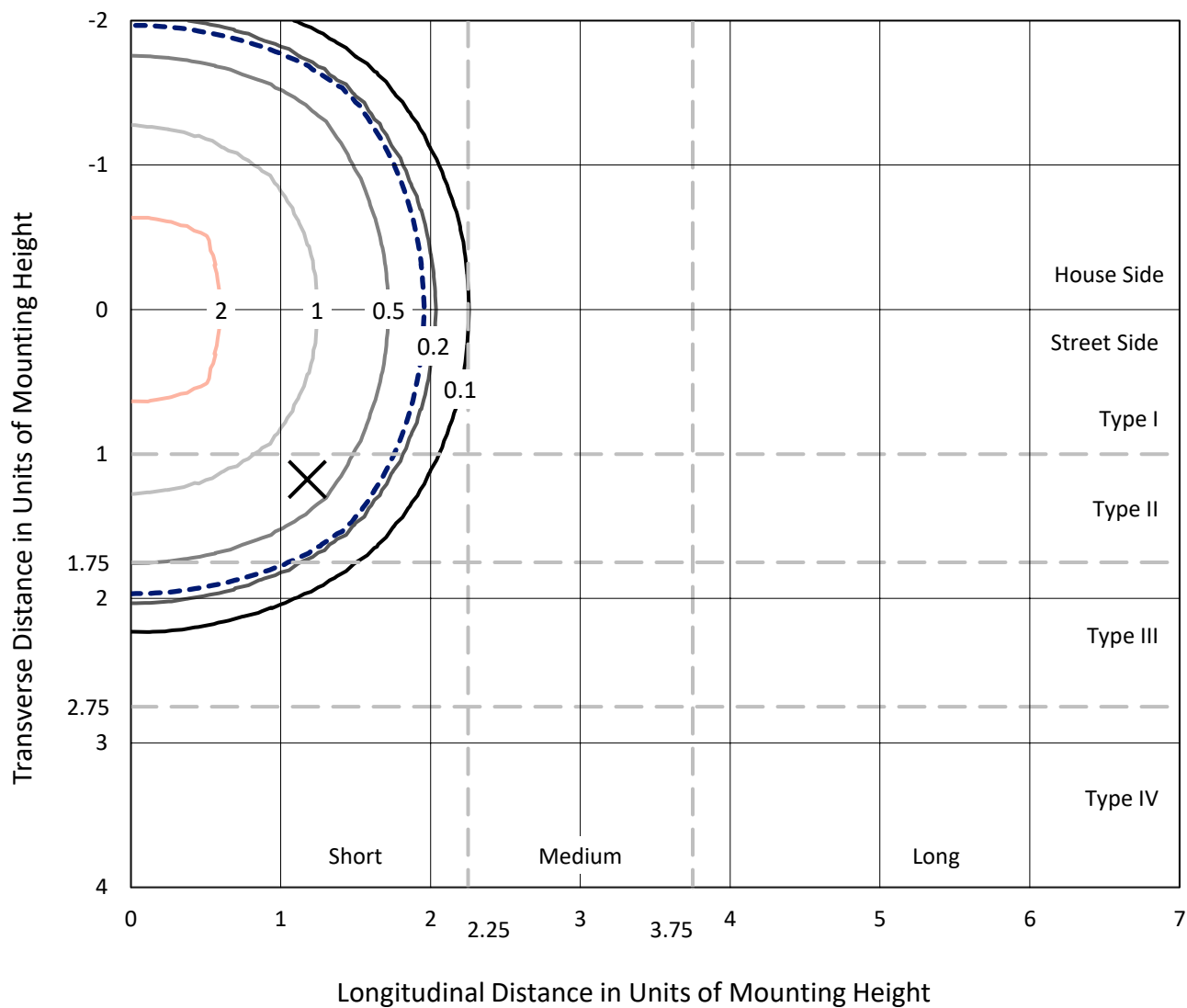
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

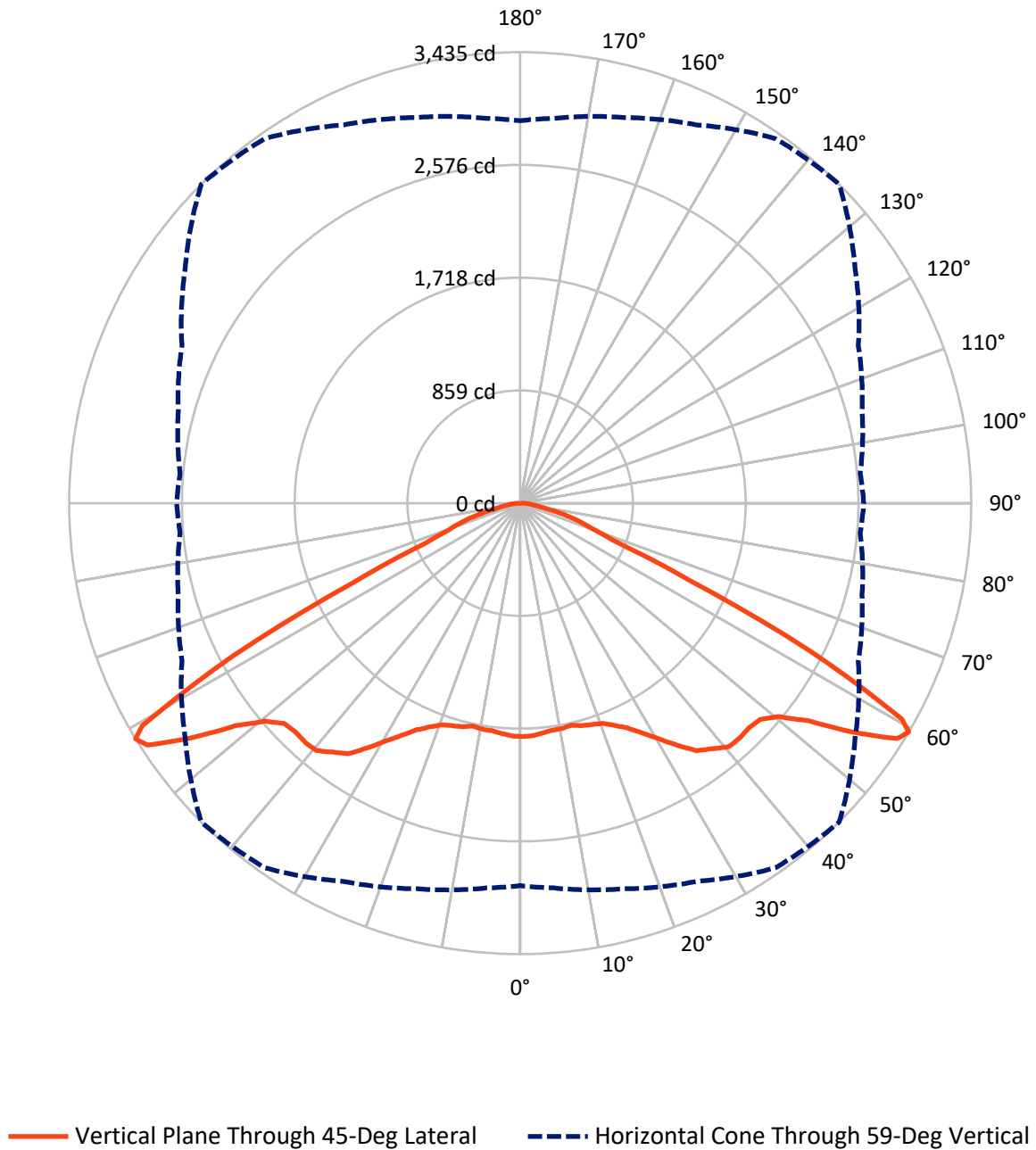
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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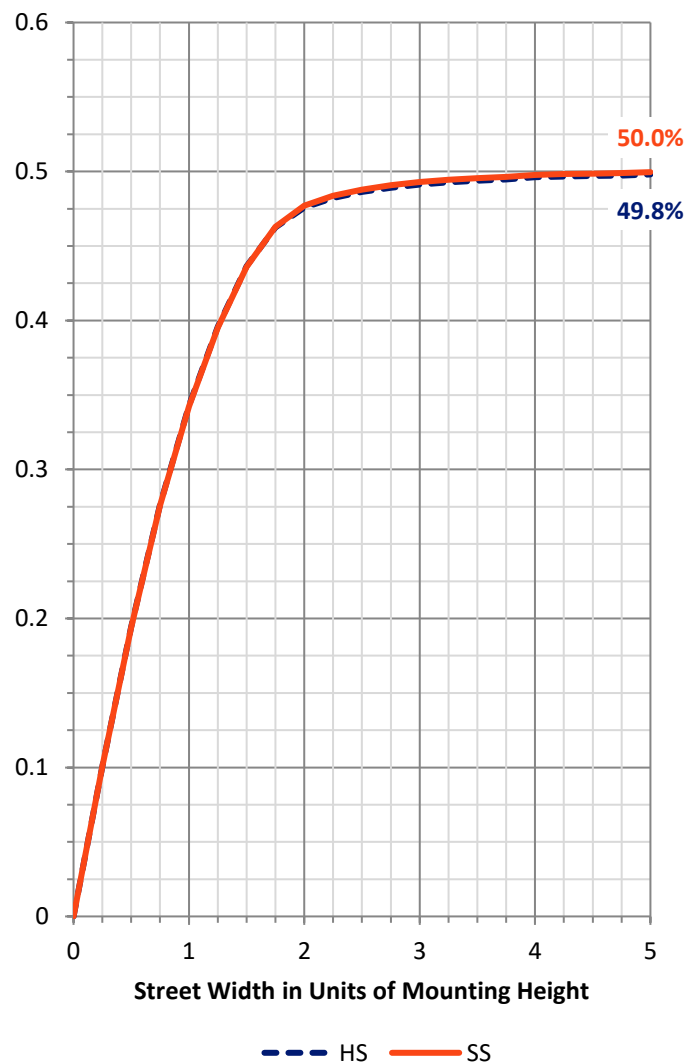
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4602.0	0.0	4602.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4602.0	0.0	4602.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9204.0	0.0	9204.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.6	1.8
10°-20°	498.4	5.4
20°-30°	870.2	9.5
30°-40°	1389.9	15.1
40°-50°	1893.3	20.6
50°-60°	2560.2	27.8
60°-70°	1404.0	15.3
70°-80°	359.2	3.9
80°-90°	61.3	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°	9204.0	100.0
0°-180°	9204.0	100.0

Coefficient of Utilization



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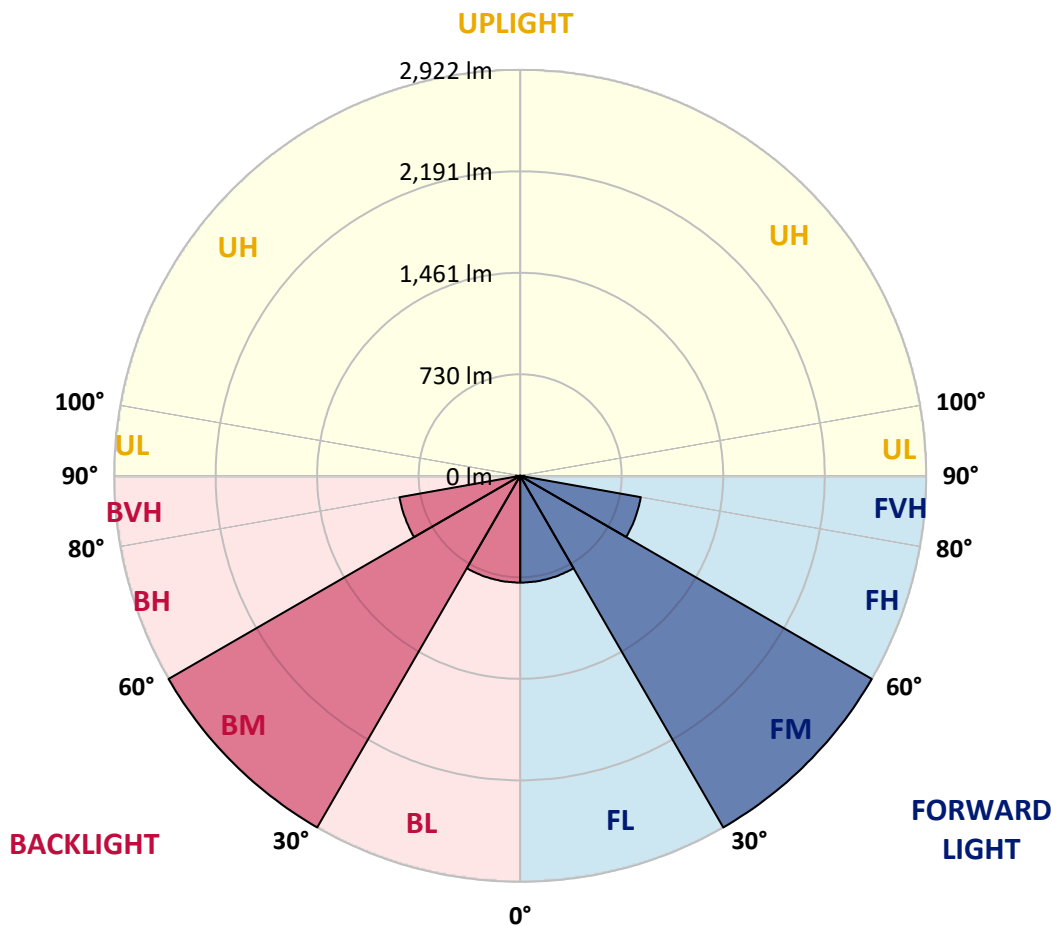
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	768.1	8.3			
FM	(30°-60°)	2921.7	31.7			
FH	(60°-80°)	881.6	9.6			G1/1800
FVH	(80°-90°)	30.6	0.3			G1/100
BL	(0°-30°)	768.1	8.3	B2/1000		
BM	(30°-60°)	2921.7	31.7	B3/5000		
BH	(60°-80°)	881.6	9.6	B2/1000		G1/1800
BVH	(80°-90°)	30.6	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°	1777.8	1777.8	1777.8	1777.8	1777.8	1777.8	1777.8	1777.8	1777.8	1777.8	1777.8
2.5°	1767.2	1780.1	1770.7	1779.0	1777.8	1774.2	1768.3	1764.8	1760.1	1767.2	1755.4
5°	1760.1	1770.7	1781.3	1767.2	1767.2	1760.1	1756.5	1749.5	1749.5	1748.3	1747.1
7.5°	1771.9	1761.3	1756.5	1758.9	1761.3	1745.9	1756.5	1742.4	1730.6	1738.8	1748.3
10°	1761.3	1766.0	1748.3	1756.5	1743.6	1745.9	1738.8	1748.3	1735.3	1735.3	1735.3
12.5°	1771.9	1758.9	1764.8	1758.9	1755.4	1735.3	1744.7	1734.1	1732.9	1744.7	1734.1
15°	1793.1	1771.9	1767.2	1755.4	1758.9	1758.9	1749.5	1750.6	1737.7	1744.7	1747.1
17.5°	1786.0	1774.2	1770.7	1756.5	1768.3	1771.9	1754.2	1742.4	1750.6	1749.5	1748.3
20°	1791.9	1796.6	1793.1	1795.5	1800.2	1790.7	1774.2	1757.7	1747.1	1762.4	1761.3
22.5°	1829.7	1825.0	1822.6	1820.2	1828.5	1837.9	1815.5	1789.6	1789.6	1800.2	1804.9
25°	1860.4	1859.2	1858.0	1868.6	1896.9	1896.9	1868.6	1835.6	1827.3	1834.4	1828.5
27.5°	1905.2	1918.2	1913.4	1932.3	1973.6	1983.0	1945.3	1906.4	1883.9	1875.7	1886.3
30°	2007.8	1992.5	1996.0	2016.1	2052.6	2083.3	2025.5	1984.2	1953.5	1952.4	1957.1
32.5°	2076.2	2088.0	2098.6	2117.5	2175.3	2198.9	2129.3	2062.1	2043.2	2032.6	2036.1
35°	2213.1	2202.5	2200.1	2219.0	2276.8	2315.7	2228.4	2169.4	2144.7	2168.2	2168.2
37.5°	2342.8	2313.3	2290.9	2315.7	2368.8	2373.5	2299.2	2267.3	2254.4	2281.5	2280.3
40°	2404.2	2401.8	2349.9	2364.1	2434.9	2441.9	2372.3	2334.6	2332.2	2367.6	2403.0
42.5°	2467.9	2445.5	2393.6	2403.0	2446.6	2449.0	2382.9	2372.3	2398.3	2432.5	2434.9
45°	2478.5	2459.6	2426.6	2403.0	2434.9	2441.9	2403.0	2410.1	2412.4	2453.7	2453.7
47.5°	2499.7	2497.4	2478.5	2460.8	2466.7	2460.8	2436.0	2446.6	2482.0	2502.1	2492.7
50°	2558.7	2533.9	2552.8	2537.5	2538.7	2555.2	2532.8	2543.4	2536.3	2518.6	2506.8
52.5°	2688.5	2676.7	2693.2	2703.8	2715.6	2753.4	2727.4	2670.8	2617.7	2570.5	2569.3
55°	2878.4	2886.7	2918.5	2972.8	3018.8	3079.0	2953.9	2818.2	2733.3	2659.0	2663.7
57.5°	3057.7	3051.8	3095.5	3219.3	3353.8	3384.5	3139.1	2945.7	2807.6	2760.4	2740.4
59°	2913.8	2942.1	3041.2	3179.2	3390.4	3435.2	3114.3	2841.8	2695.6	2600.0	2616.5
60°	2687.3	2697.9	2786.4	2978.7	3264.2	3340.8	2948.0	2681.4	2486.8	2431.3	2456.1
62.5°	1899.3	1891.0	1954.7	2111.6	2367.6	2471.4	2191.8	2004.3	1881.6	1820.2	1834.4
65°	1009.8	1047.6	1073.5	1171.4	1307.1	1416.8	1301.2	1219.8	1151.4	1100.6	1099.5
67.5°	681.9	677.1	683.0	705.4	751.5	782.1	779.8	738.5	732.6	723.1	733.8
70°	574.5	572.1	561.5	561.5	571.0	578.0	586.3	591.0	600.5	612.3	611.1
72.5°	466.0	460.1	453.0	449.5	461.3	464.8	475.4	480.1	488.4	487.2	497.8
75°	307.9	307.9	316.2	325.6	329.1	336.2	337.4	351.5	351.5	353.9	344.5
77.5°	172.2	167.5	173.4	182.8	191.1	204.1	217.1	227.7	233.6	231.2	231.2
80°	100.3	100.3	106.2	116.8	127.4	139.2	148.6	156.9	162.8	160.4	155.7
82.5°	62.5	62.5	68.4	79.0	87.3	94.4	107.4	118.0	125.0	122.7	116.8
85°	31.9	31.9	38.9	46.0	56.6	61.3	60.2	55.4	54.3	48.4	48.4
87.5°	8.3	8.3	11.8	13.0	10.6	11.8	11.8	11.8	11.8	11.8	13.0
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)