

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: P647810

Luminaire Tested: **GALN-SA3A-835-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647810
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-835-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 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: 9068.7 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

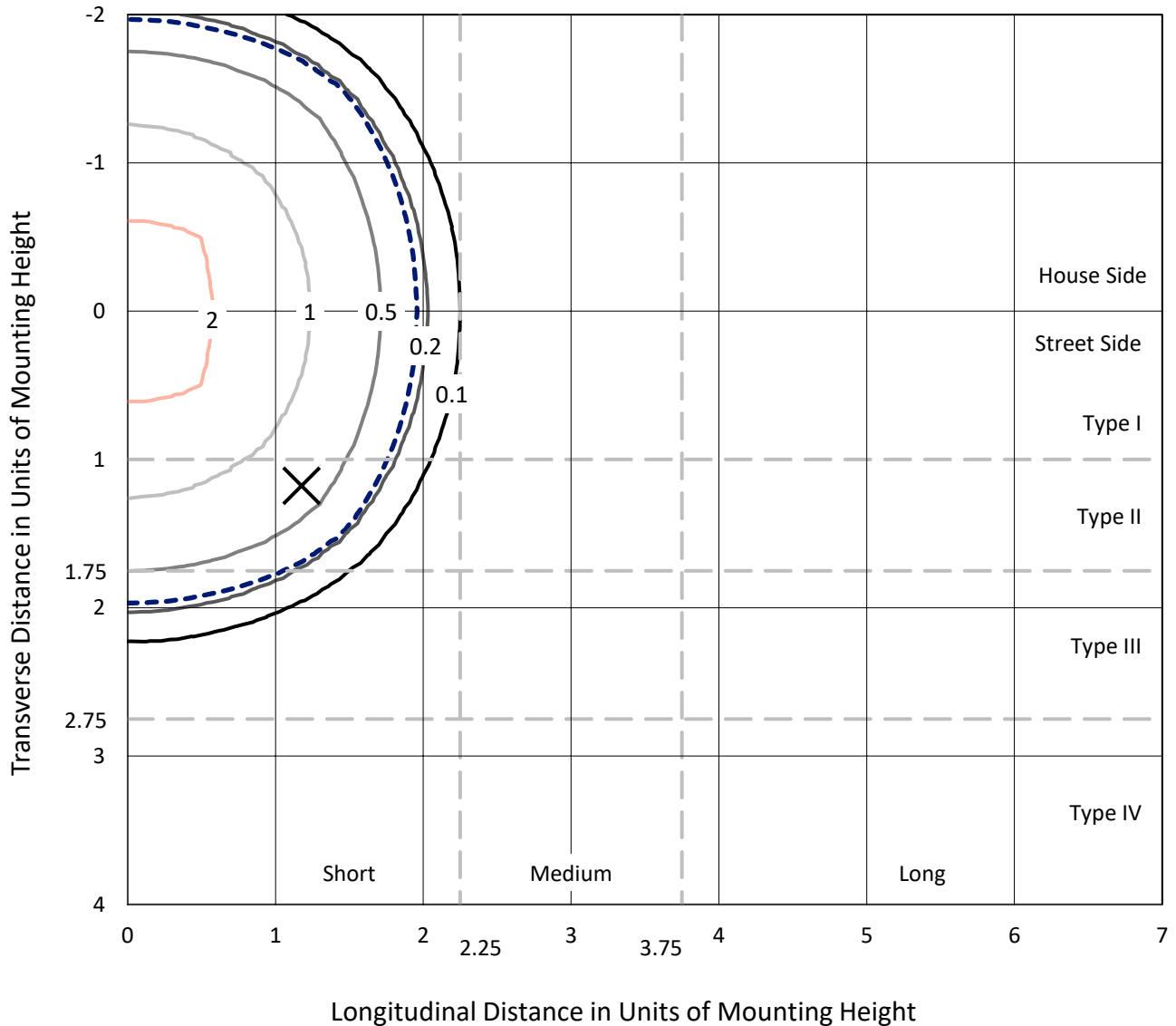
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

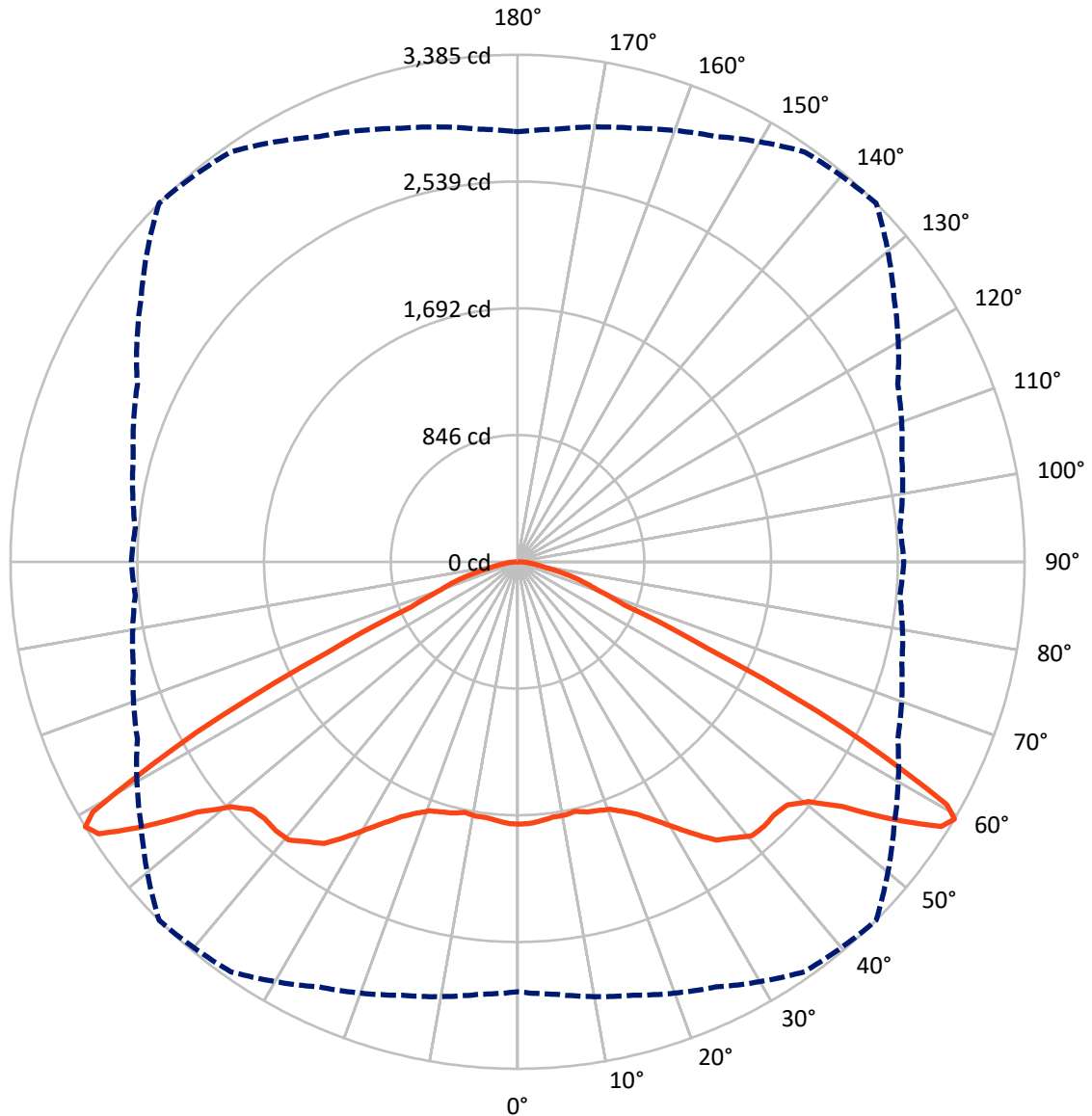
× Max cd
 - - - 1/2 Max cd



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



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4534.4	0.0	4534.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4534.4	0.0	4534.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	9068.7	0.0	9068.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	1.8
10°-20°	491.1	5.4
20°-30°	857.4	9.5
30°-40°	1369.4	15.1
40°-50°	1865.4	20.6
50°-60°	2522.6	27.8
60°-70°	1383.4	15.3
70°-80°	353.9	3.9
80°-90°	60.4	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°	9068.7	100.0
0°-180°	9068.7	100.0

Coefficient of Utilization



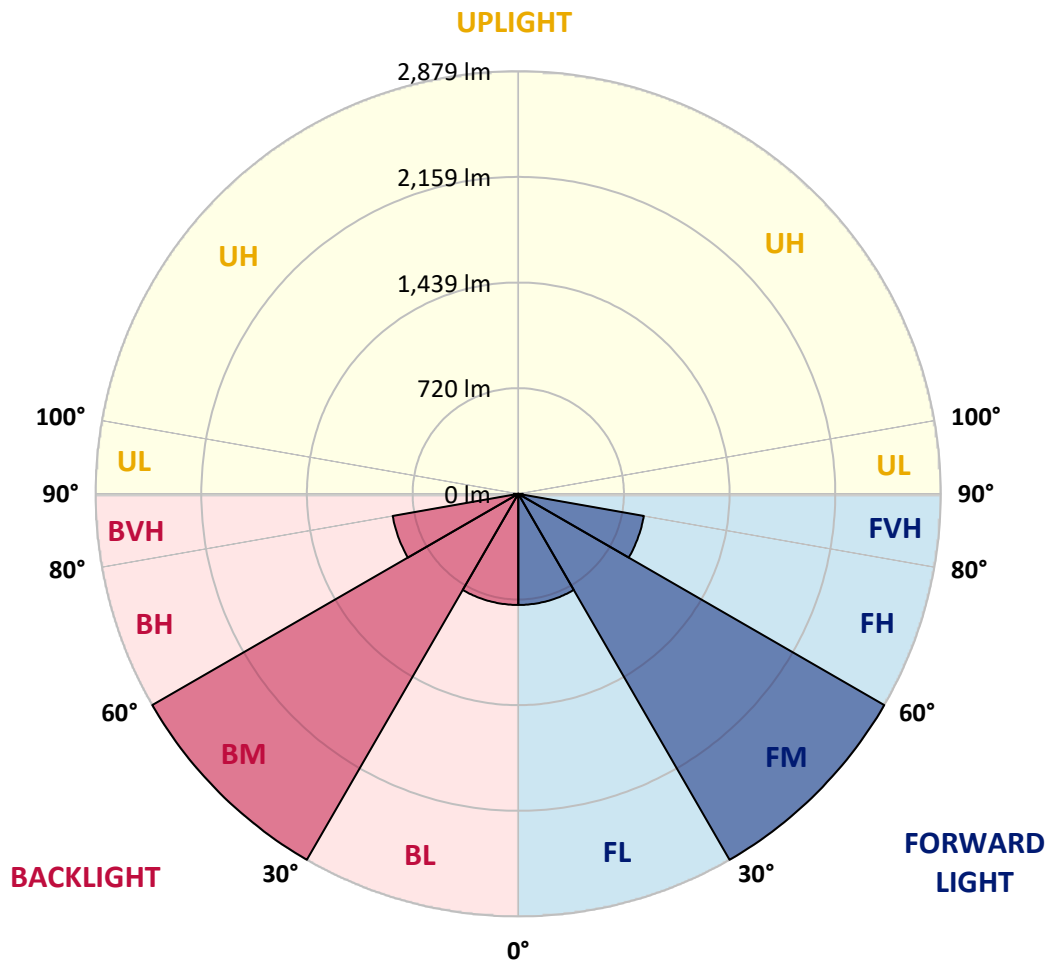
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	756.8	8.3			
FM (30°-60°)	2878.7	31.7			
FH (60°-80°)	868.7	9.6			G1/1800
FVH (80°-90°)	30.2	0.3			G1/100
BL (0°-30°)	756.8	8.3	B2/1000		
BM (30°-60°)	2878.7	31.7	B3/5000		
BH (60°-80°)	868.7	9.6	B2/1000		G1/1800
BVH (80°-90°)	30.2	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°	1751.6	1751.6	1751.6	1751.6	1751.6	1751.6	1751.6	1751.6	1751.6	1751.6	1751.6
2.5°	1741.2	1754.0	1744.7	1752.8	1751.6	1748.1	1742.3	1738.9	1734.2	1741.2	1729.6
5°	1734.2	1744.7	1755.1	1741.2	1741.2	1734.2	1730.7	1723.8	1723.8	1722.6	1721.4
7.5°	1745.9	1735.4	1730.7	1733.0	1735.4	1720.3	1730.7	1716.8	1705.1	1713.3	1722.6
10°	1735.4	1740.0	1722.6	1730.7	1717.9	1720.3	1713.3	1722.6	1709.8	1709.8	1709.8
12.5°	1745.9	1733.0	1738.9	1733.0	1729.6	1709.8	1719.1	1708.7	1707.5	1719.1	1708.7
15°	1766.8	1745.9	1741.2	1729.6	1733.0	1733.0	1723.8	1724.9	1712.1	1719.1	1721.4
17.5°	1759.8	1748.1	1744.7	1730.7	1742.3	1745.9	1728.4	1716.8	1724.9	1723.8	1722.6
20°	1765.6	1770.2	1766.8	1769.1	1773.7	1764.4	1748.1	1731.9	1721.4	1736.5	1735.4
22.5°	1802.8	1798.2	1795.8	1793.5	1801.6	1810.9	1788.8	1763.2	1763.2	1773.7	1778.3
25°	1833.0	1831.8	1830.7	1841.1	1869.0	1869.0	1841.1	1808.6	1800.4	1807.4	1801.6
27.5°	1877.2	1889.9	1885.3	1903.9	1944.6	1953.9	1916.7	1878.3	1856.3	1848.1	1858.6
30°	1978.3	1963.2	1966.7	1986.5	2022.5	2052.7	1995.7	1955.1	1924.8	1923.7	1928.3
32.5°	2045.7	2057.3	2067.8	2086.4	2143.4	2166.6	2098.0	2031.7	2013.2	2002.7	2006.2
35°	2180.6	2170.1	2167.7	2186.4	2243.3	2281.7	2195.7	2137.5	2113.2	2136.3	2136.3
37.5°	2308.4	2279.3	2257.2	2281.7	2334.0	2338.6	2265.4	2234.0	2221.2	2248.0	2246.8
40°	2368.8	2366.5	2315.4	2329.3	2399.0	2406.0	2337.5	2300.3	2297.9	2332.8	2367.7
42.5°	2431.6	2409.5	2358.4	2367.7	2410.7	2413.0	2347.9	2337.5	2363.0	2396.8	2399.0
45°	2442.1	2423.5	2390.9	2367.7	2399.0	2406.0	2367.7	2374.7	2377.0	2417.7	2417.7
47.5°	2463.0	2460.7	2442.1	2424.6	2430.4	2424.6	2400.2	2410.7	2445.5	2465.3	2456.0
50°	2521.1	2496.7	2515.3	2500.2	2501.4	2517.7	2495.5	2506.0	2499.0	2481.6	2470.0
52.5°	2649.0	2637.4	2653.6	2664.1	2675.7	2712.9	2687.3	2631.5	2579.2	2532.7	2531.6
55°	2836.1	2844.2	2875.6	2929.1	2974.4	3033.7	2910.5	2776.8	2693.1	2619.9	2624.5
57.5°	3012.7	3007.0	3049.9	3172.0	3304.5	3334.7	3093.0	2902.3	2766.3	2719.8	2700.1
59°	2870.9	2898.9	2996.5	3132.5	3340.6	3384.8	3068.6	2800.1	2655.9	2561.8	2578.0
60°	2647.8	2658.3	2745.4	2934.9	3216.2	3291.7	2904.7	2642.0	2450.2	2395.6	2420.0
62.5°	1871.4	1863.2	1926.0	2080.6	2332.8	2435.1	2159.6	1974.8	1853.9	1793.5	1807.4
65°	995.0	1032.2	1057.8	1154.2	1287.9	1395.9	1282.1	1201.8	1134.4	1084.5	1083.3
67.5°	671.8	667.2	673.0	695.1	740.4	770.6	768.3	727.6	721.8	712.5	722.9
70°	566.0	563.8	553.3	553.3	562.6	569.6	577.7	582.3	591.6	603.2	602.1
72.5°	459.2	453.3	446.3	442.9	454.5	458.0	468.4	473.1	481.2	480.1	490.5
75°	303.3	303.3	311.5	320.8	324.3	331.3	332.5	346.4	346.4	348.7	339.4
77.5°	169.7	165.1	170.9	180.2	188.3	201.1	213.8	224.3	230.1	227.9	227.9
80°	98.8	98.8	104.6	115.1	125.5	137.2	146.4	154.6	160.4	158.1	153.4
82.5°	61.6	61.6	67.4	77.9	86.1	93.0	105.8	116.2	123.2	120.9	115.1
85°	31.4	31.4	38.4	45.3	55.8	60.4	59.3	54.7	53.5	47.7	47.7
87.5°	8.1	8.1	11.6	12.8	10.5	11.6	11.6	11.6	11.6	11.6	12.8
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)