

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: P527000

Luminaire Tested: **GALN-SA2A-730-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-730-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7392 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

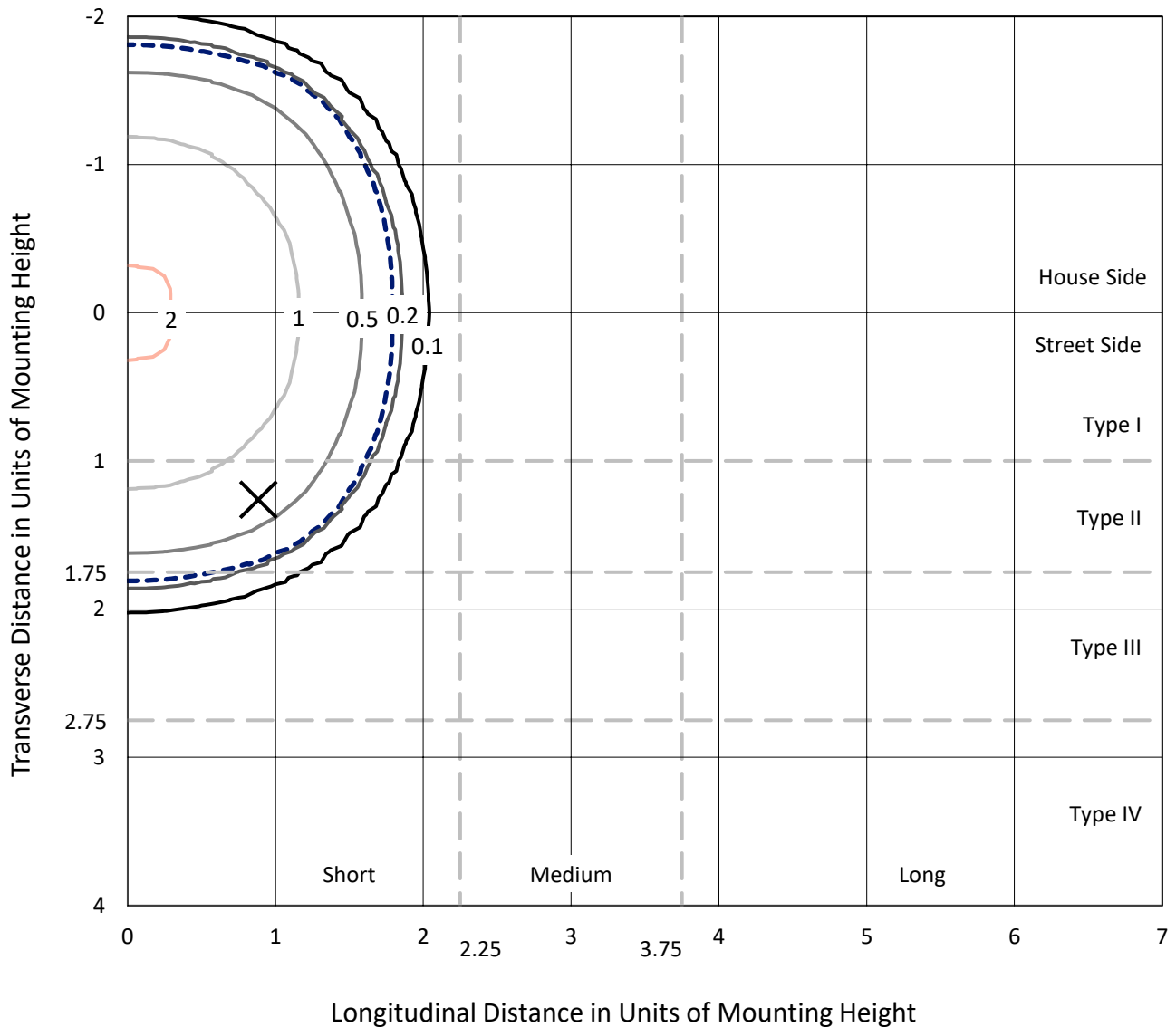
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

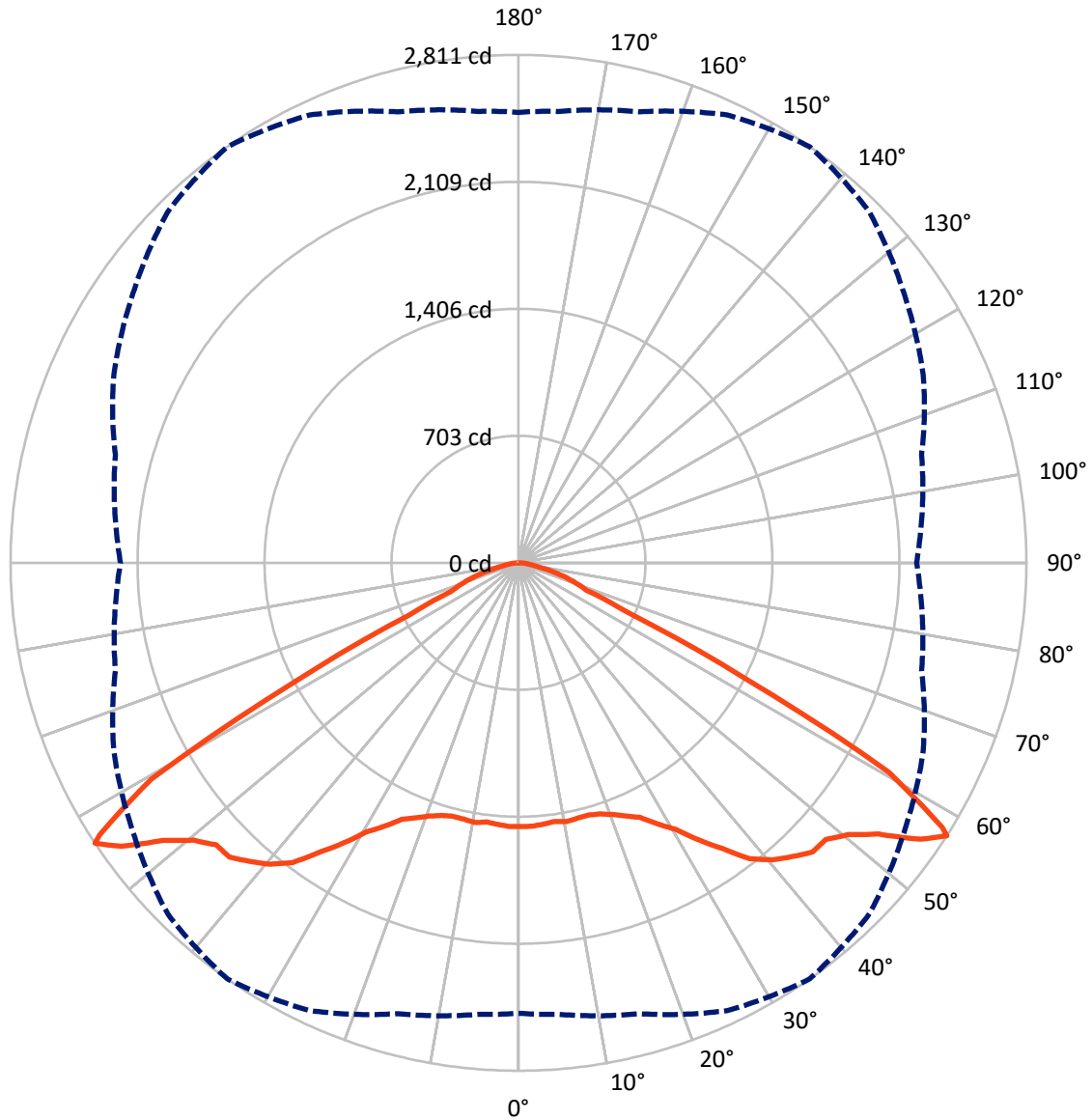
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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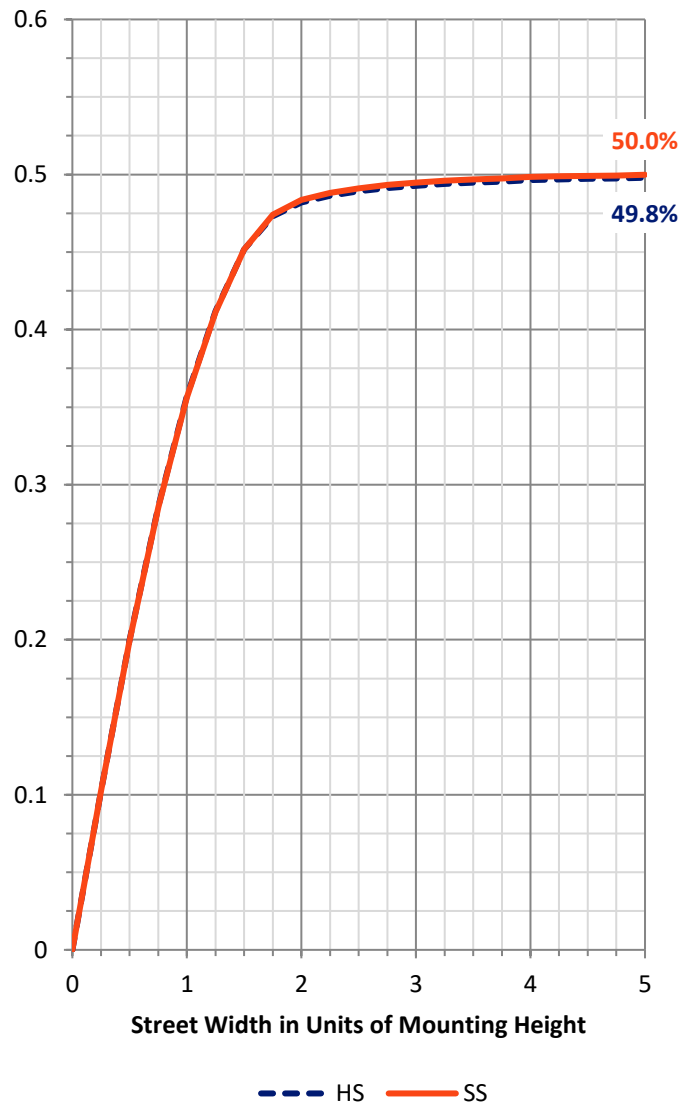
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3696.0	0.0	3696.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3696.0	0.0	3696.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	7392.0	0.0	7392.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	1.9
10°-20°	409.9	5.5
20°-30°	715.9	9.7
30°-40°	1173.0	15.9
40°-50°	1719.9	23.3
50°-60°	2166.4	29.3
60°-70°	814.8	11.0
70°-80°	216.6	2.9
80°-90°	37.1	0.5
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°	7392.0	100.0
0°-180°	7392.0	100.0

Coefficient of Utilization



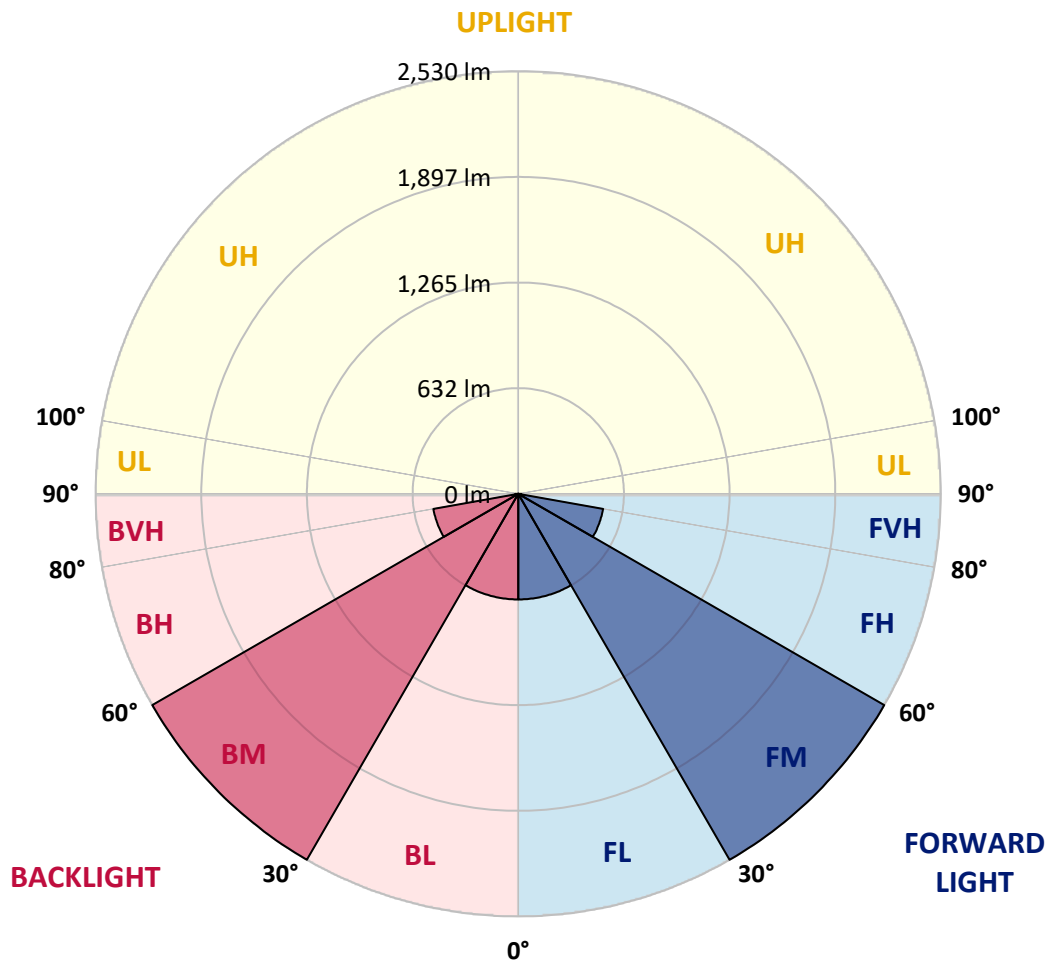
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	632.1	8.6			
FM (30°-60°)	2529.6	34.2			
FH (60°-80°)	515.7	7.0			G0/660
FVH (80°-90°)	18.6	0.3			G1/100
BL (0°-30°)	632.1	8.6	B2/1000		
BM (30°-60°)	2529.6	34.2	B3/5000		
BH (60°-80°)	515.7	7.0	B2/1000		G0/660
BVH (80°-90°)	18.6	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°	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9	1459.9
2.5°	1452.6	1467.2	1460.8	1457.1	1459.9	1455.3	1448.0	1456.2	1454.4	1447.1	1444.4
5°	1448.9	1459.9	1452.6	1459.9	1452.6	1465.3	1461.7	1448.0	1464.4	1448.9	1454.4
7.5°	1446.2	1449.8	1451.7	1448.0	1445.3	1460.8	1452.6	1446.2	1437.1	1434.4	1438.9
10°	1439.8	1448.9	1435.3	1453.5	1457.1	1446.2	1446.2	1434.4	1427.1	1422.5	1438.0
12.5°	1456.2	1440.7	1438.9	1448.0	1450.8	1455.3	1442.6	1436.2	1422.5	1424.3	1421.6
15°	1437.1	1443.5	1444.4	1446.2	1448.9	1459.9	1448.0	1434.4	1428.9	1409.8	1411.6
17.5°	1444.4	1438.0	1444.4	1465.3	1461.7	1469.9	1457.1	1436.2	1423.4	1412.5	1427.1
20°	1457.1	1454.4	1457.1	1482.6	1487.2	1494.5	1483.5	1464.4	1439.8	1427.1	1434.4
22.5°	1470.8	1469.0	1470.8	1495.4	1521.8	1530.9	1520.0	1475.3	1462.6	1438.9	1430.7
25°	1495.4	1497.2	1516.3	1543.7	1561.0	1578.3	1558.2	1526.3	1485.4	1470.8	1453.5
27.5°	1550.0	1554.6	1565.5	1605.6	1635.6	1651.1	1622.9	1579.2	1553.7	1523.6	1519.1
30°	1617.4	1617.4	1636.5	1671.1	1712.1	1735.8	1701.2	1649.3	1618.3	1601.9	1591.9
32.5°	1706.7	1696.6	1703.9	1765.0	1828.7	1848.7	1802.3	1738.5	1689.4	1667.5	1660.2
35°	1783.2	1789.5	1805.9	1871.5	1942.5	1989.0	1916.1	1833.3	1783.2	1763.1	1759.5
37.5°	1882.4	1893.4	1901.6	1991.7	2077.3	2094.6	2024.5	1958.0	1897.0	1880.6	1871.5
40°	2022.7	2015.4	2018.1	2084.6	2162.0	2173.0	2103.7	2056.4	2006.3	1996.3	1996.3
42.5°	2138.3	2130.1	2139.3	2163.8	2223.0	2214.8	2176.6	2142.0	2121.0	2110.1	2121.0
45°	2208.5	2206.6	2223.0	2241.3	2283.1	2255.8	2225.8	2231.2	2211.2	2193.0	2192.1
47.5°	2285.0	2273.1	2293.2	2320.5	2288.6	2275.9	2274.0	2285.9	2279.5	2247.6	2237.6
50°	2322.3	2317.8	2349.6	2381.5	2364.2	2335.1	2341.4	2360.6	2278.6	2235.8	2211.2
52.5°	2422.5	2423.4	2484.4	2501.7	2494.4	2451.6	2465.3	2413.4	2316.8	2256.7	2259.5
55°	2580.0	2573.7	2642.0	2693.0	2701.2	2646.5	2580.9	2508.1	2387.0	2325.9	2307.7
57°	2493.5	2508.1	2583.7	2734.9	2811.4	2746.7	2603.7	2470.8	2309.6	2235.8	2203.0
57.5°	2377.9	2401.5	2532.7	2684.8	2764.9	2759.4	2575.5	2401.5	2257.6	2142.9	2145.6
60°	1742.2	1746.7	1865.1	2106.5	2356.9	2362.4	2138.3	1907.9	1747.6	1622.9	1640.2
62.5°	918.9	939.9	987.2	1181.2	1397.9	1450.8	1315.1	1196.7	1058.2	963.5	972.6
65°	486.3	483.6	506.4	561.0	667.5	694.9	676.7	582.9	534.6	519.1	520.0
67.5°	395.2	399.8	397.1	399.8	407.1	418.9	416.2	419.8	422.6	427.1	426.2
70°	335.1	335.1	337.0	337.9	337.9	343.3	349.7	361.6	362.5	367.0	368.8
72.5°	264.1	262.3	265.0	271.4	272.3	276.9	286.0	293.2	296.0	296.0	290.5
75°	179.4	181.2	184.9	190.3	195.8	204.0	211.3	215.8	217.7	214.9	212.2
77.5°	101.1	102.9	105.6	113.8	120.2	127.5	135.7	140.2	144.8	145.7	140.2
80°	60.1	60.1	64.7	71.0	78.3	85.6	92.9	98.4	100.2	100.2	97.4
82.5°	36.4	37.3	41.0	47.4	53.7	58.3	64.7	69.2	72.9	71.9	70.1
85°	19.1	19.1	22.8	28.2	32.8	37.3	37.3	34.6	32.8	28.2	26.4
87.5°	6.4	5.5	7.3	7.3	6.4	7.3	7.3	8.2	8.2	8.2	8.2
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)