

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: P651709

Luminaire Tested: **GALN-SA2A-840-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651709
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-840-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 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: 6826.4 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

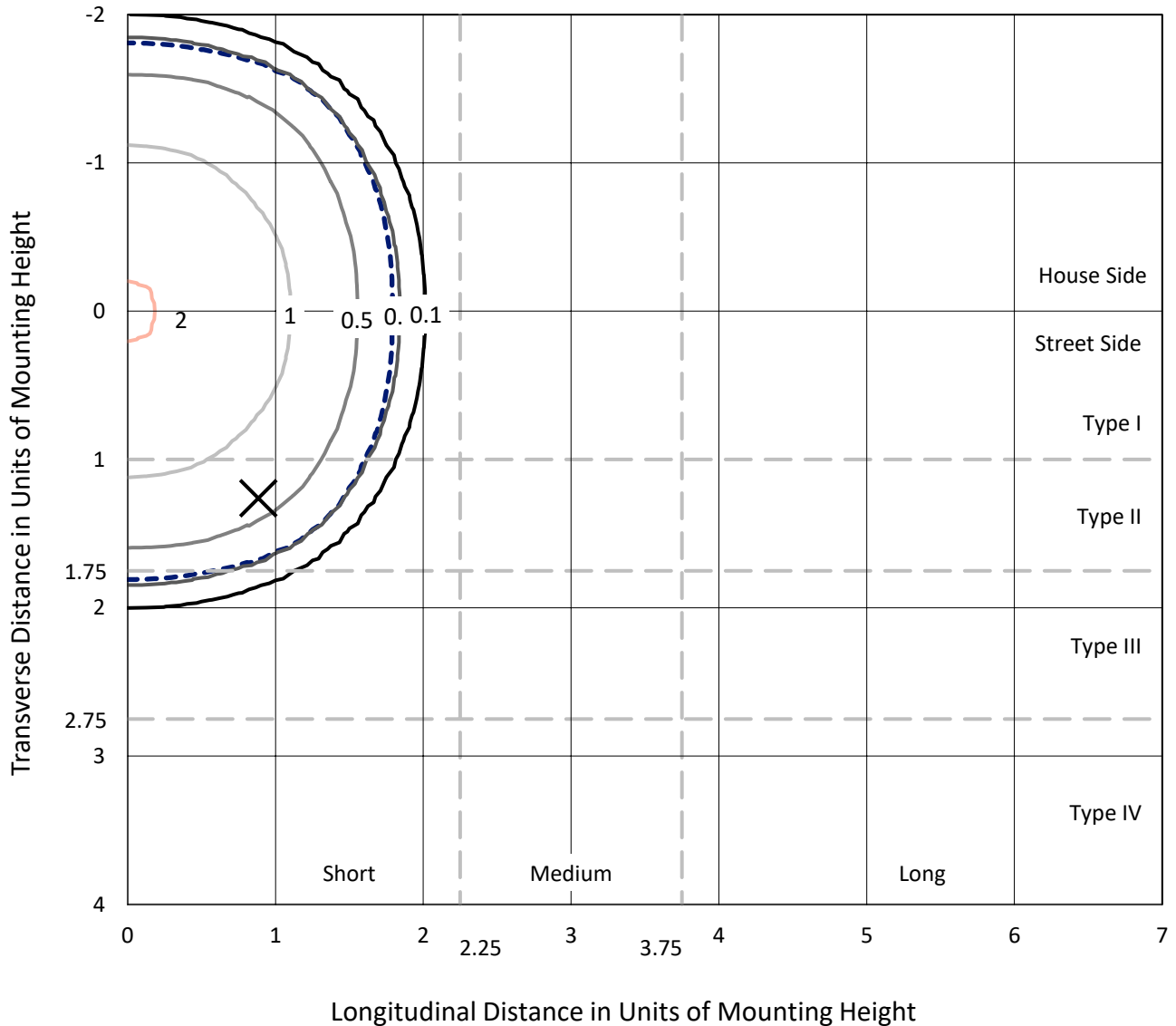
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651709
 CATALOG NUMBER: GALN-SA2A-840-U-5MQ-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

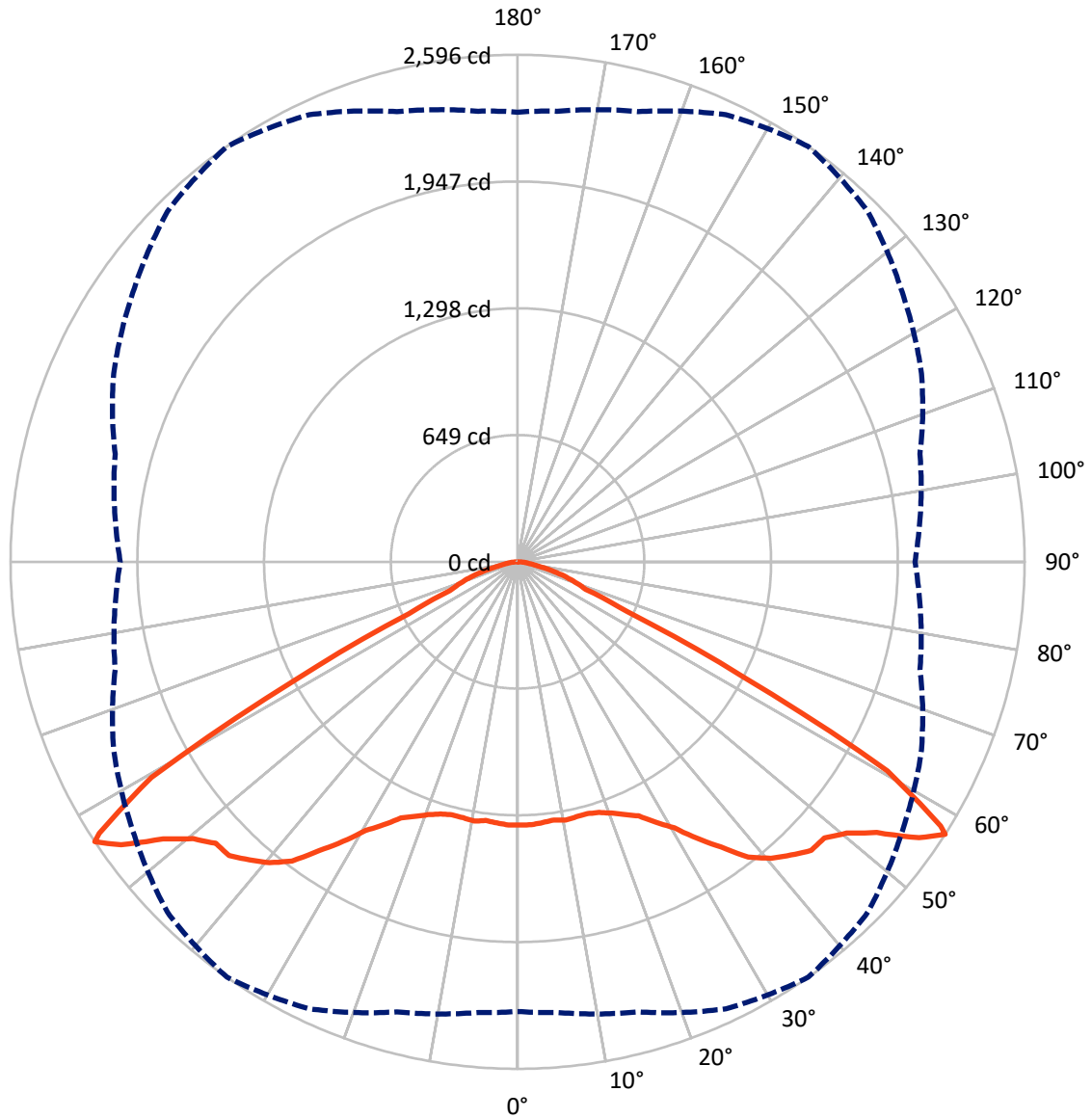
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

REPORT NUMBER: P651709
CATALOG NUMBER: GALN-SA2A-840-U-5MQ-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P651709
 CATALOG NUMBER: GALN-SA2A-840-U-5MQ-GRSWH

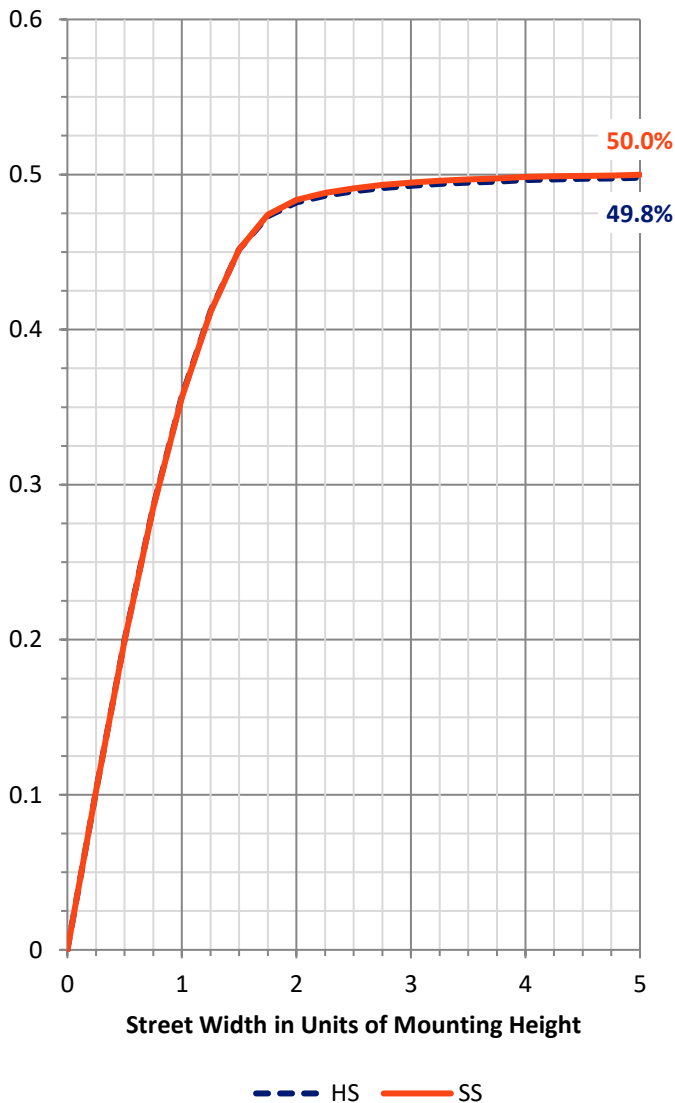
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3413.2	0.0	3413.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3413.2	0.0	3413.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	6826.4	0.0	6826.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	1.9
10°-20°	378.5	5.5
20°-30°	661.1	9.7
30°-40°	1083.3	15.9
40°-50°	1588.3	23.3
50°-60°	2000.6	29.3
60°-70°	752.4	11.0
70°-80°	200.1	2.9
80°-90°	34.3	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°	6826.4	100.0
0°-180°	6826.4	100.0

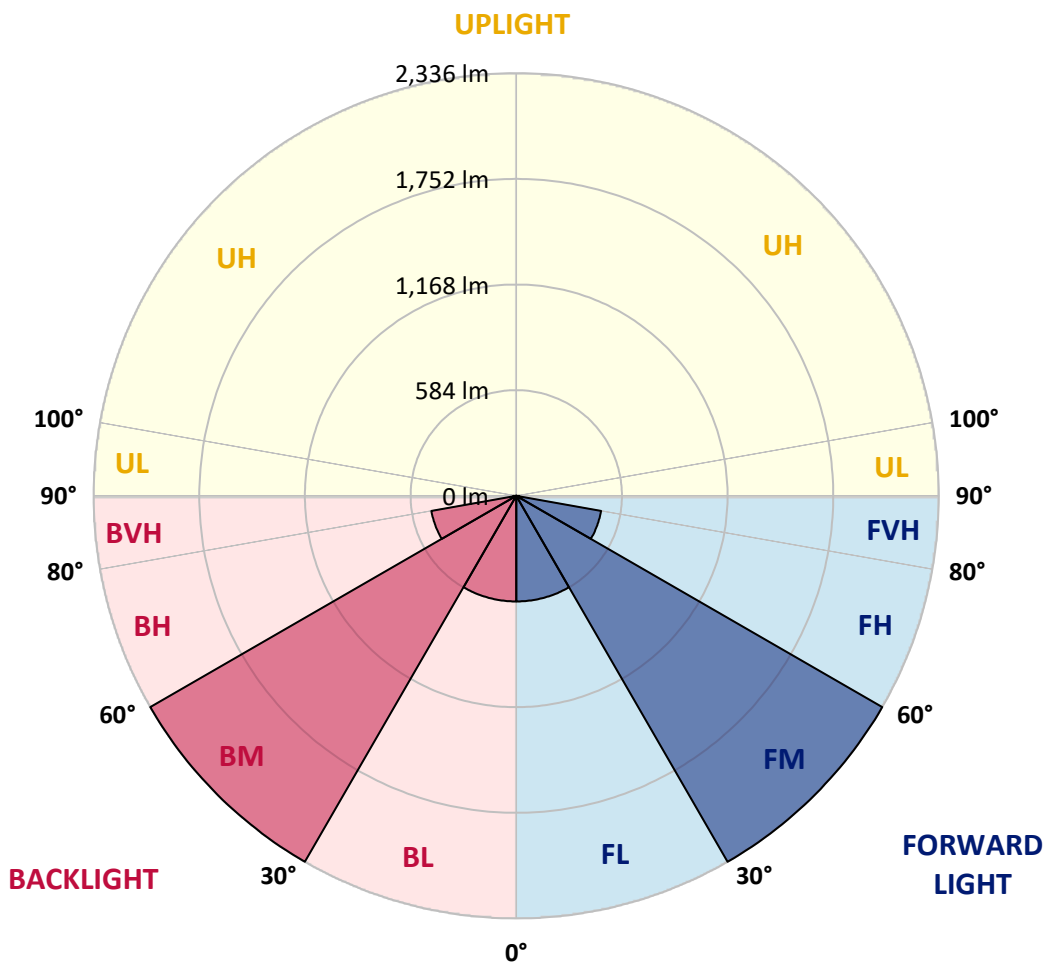


REPORT NUMBER: P651709
 CATALOG NUMBER: GALN-SA2A-840-U-5MQ-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	583.7	8.6			
FM (30°-60°)	2336.1	34.2			
FH (60°-80°)	476.2	7.0			G0/660
FVH (80°-90°)	17.2	0.3			G1/100
BL (0°-30°)	583.7	8.6	B2/1000		
BM (30°-60°)	2336.1	34.2	B2/2500		
BH (60°-80°)	476.2	7.0	B1/500		G0/660
BVH (80°-90°)	17.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type V Short





REPORT NUMBER: P651709

CATALOG NUMBER: GALN-SA2A-840-U-5MQ-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1	1348.1
2.5°	1341.4	1354.9	1349.0	1345.6	1348.1	1343.9	1337.2	1344.8	1343.1	1336.3	1333.8
5°	1338.0	1348.1	1341.4	1348.1	1341.4	1353.2	1349.8	1337.2	1352.3	1338.0	1343.1
7.5°	1335.5	1338.9	1340.6	1337.2	1334.7	1349.0	1341.4	1335.5	1327.1	1324.6	1328.8
10°	1329.6	1338.0	1325.4	1342.2	1345.6	1335.5	1335.5	1324.6	1317.8	1313.6	1327.9
12.5°	1344.8	1330.5	1328.8	1337.2	1339.7	1343.9	1332.1	1326.3	1313.6	1315.3	1312.8
15°	1327.1	1333.0	1333.8	1335.5	1338.0	1348.1	1337.2	1324.6	1319.5	1301.9	1303.6
17.5°	1333.8	1327.9	1333.8	1353.2	1349.8	1357.4	1345.6	1326.3	1314.5	1304.4	1317.8
20°	1345.6	1343.1	1345.6	1369.1	1373.4	1380.1	1370.0	1352.3	1329.6	1317.8	1324.6
22.5°	1358.2	1356.5	1358.2	1380.9	1405.3	1413.8	1403.6	1362.4	1350.6	1328.8	1321.2
25°	1380.9	1382.6	1400.3	1425.6	1441.6	1457.5	1439.0	1409.5	1371.7	1358.2	1342.2
27.5°	1431.5	1435.7	1445.8	1482.8	1510.5	1524.8	1498.7	1458.4	1434.8	1407.0	1402.8
30°	1493.7	1493.7	1511.4	1543.3	1581.2	1603.0	1571.1	1523.1	1494.5	1479.4	1470.2
32.5°	1576.1	1566.9	1573.6	1629.9	1688.8	1707.3	1664.4	1605.6	1560.1	1540.0	1533.2
35°	1646.8	1652.6	1667.8	1728.3	1793.9	1836.8	1769.5	1693.0	1646.8	1628.3	1624.9
37.5°	1738.4	1748.5	1756.1	1839.4	1918.4	1934.4	1869.6	1808.2	1751.9	1736.7	1728.3
40°	1867.9	1861.2	1863.7	1925.1	1996.6	2006.7	1942.8	1899.1	1852.8	1843.6	1843.6
42.5°	1974.8	1967.2	1975.6	1998.3	2053.0	2045.4	2010.1	1978.1	1958.8	1948.7	1958.8
45°	2039.5	2037.8	2053.0	2069.8	2108.5	2083.2	2055.5	2060.5	2042.0	2025.2	2024.4
47.5°	2110.2	2099.2	2117.7	2143.0	2113.5	2101.7	2100.1	2111.0	2105.1	2075.7	2066.4
50°	2144.6	2140.4	2169.9	2199.3	2183.3	2156.4	2162.3	2180.0	2104.3	2064.7	2042.0
52.5°	2237.1	2238.0	2294.3	2310.3	2303.6	2264.1	2276.7	2228.7	2139.6	2084.1	2086.6
55°	2382.6	2376.8	2439.8	2486.9	2494.5	2444.0	2383.5	2316.2	2204.3	2148.0	2131.2
57°	2302.7	2316.2	2386.0	2525.6	2596.3	2536.5	2404.5	2281.7	2132.9	2064.7	2034.5
57.5°	2195.9	2217.8	2338.9	2479.4	2553.4	2548.3	2378.4	2217.8	2084.9	1979.0	1981.5
60°	1608.9	1613.1	1722.5	1945.3	2176.6	2181.6	1974.8	1762.0	1614.0	1498.7	1514.7
62.5°	848.6	867.9	911.6	1090.8	1290.9	1339.7	1214.4	1105.1	977.2	889.8	898.2
65°	449.1	446.6	467.6	518.1	616.5	641.7	624.9	538.2	493.7	479.4	480.2
67.5°	365.0	369.2	366.7	369.2	375.9	386.9	384.3	387.7	390.2	394.4	393.6
70°	309.5	309.5	311.2	312.0	312.0	317.1	322.9	333.9	334.7	338.9	340.6
72.5°	243.9	242.2	244.7	250.6	251.5	255.7	264.1	270.8	273.3	273.3	268.3
75°	165.7	167.4	170.7	175.8	180.8	188.4	195.1	199.3	201.0	198.5	196.0
77.5°	93.4	95.0	97.6	105.1	111.0	117.7	125.3	129.5	133.7	134.6	129.5
80°	55.5	55.5	59.7	65.6	72.3	79.1	85.8	90.8	92.5	92.5	90.0
82.5°	33.6	34.5	37.8	43.7	49.6	53.8	59.7	63.9	67.3	66.4	64.8
85°	17.7	17.7	21.0	26.1	30.3	34.5	34.5	32.0	30.3	26.1	24.4
87.5°	5.9	5.0	6.7	6.7	5.9	6.7	6.7	7.6	7.6	7.6	7.6
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)