

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: P527027

Luminaire Tested: **GALN-SA2A-735-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527027
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5885 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G0

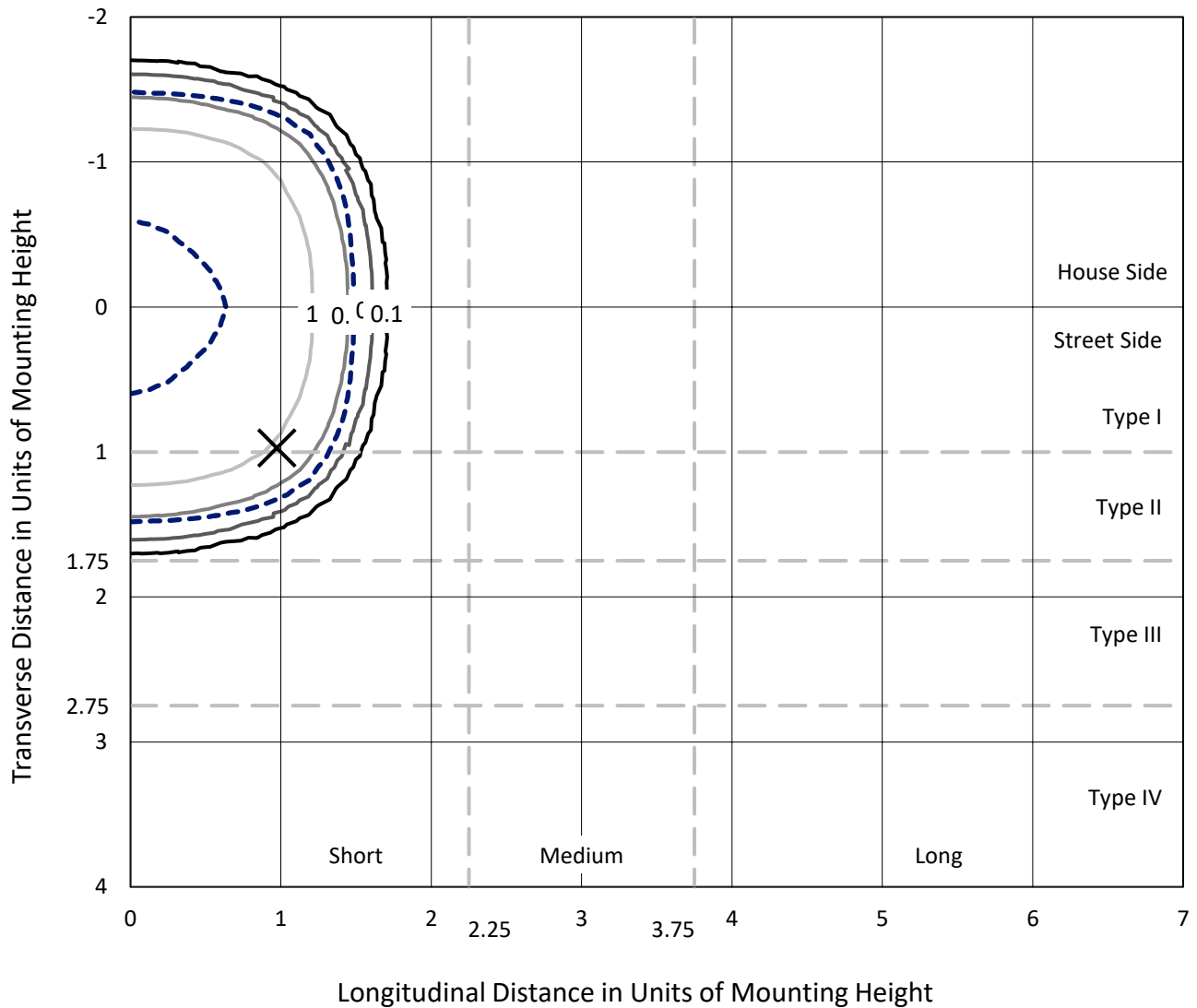
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527027
 CATALOG NUMBER: GALN-SA2A-735-U-5NQ-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

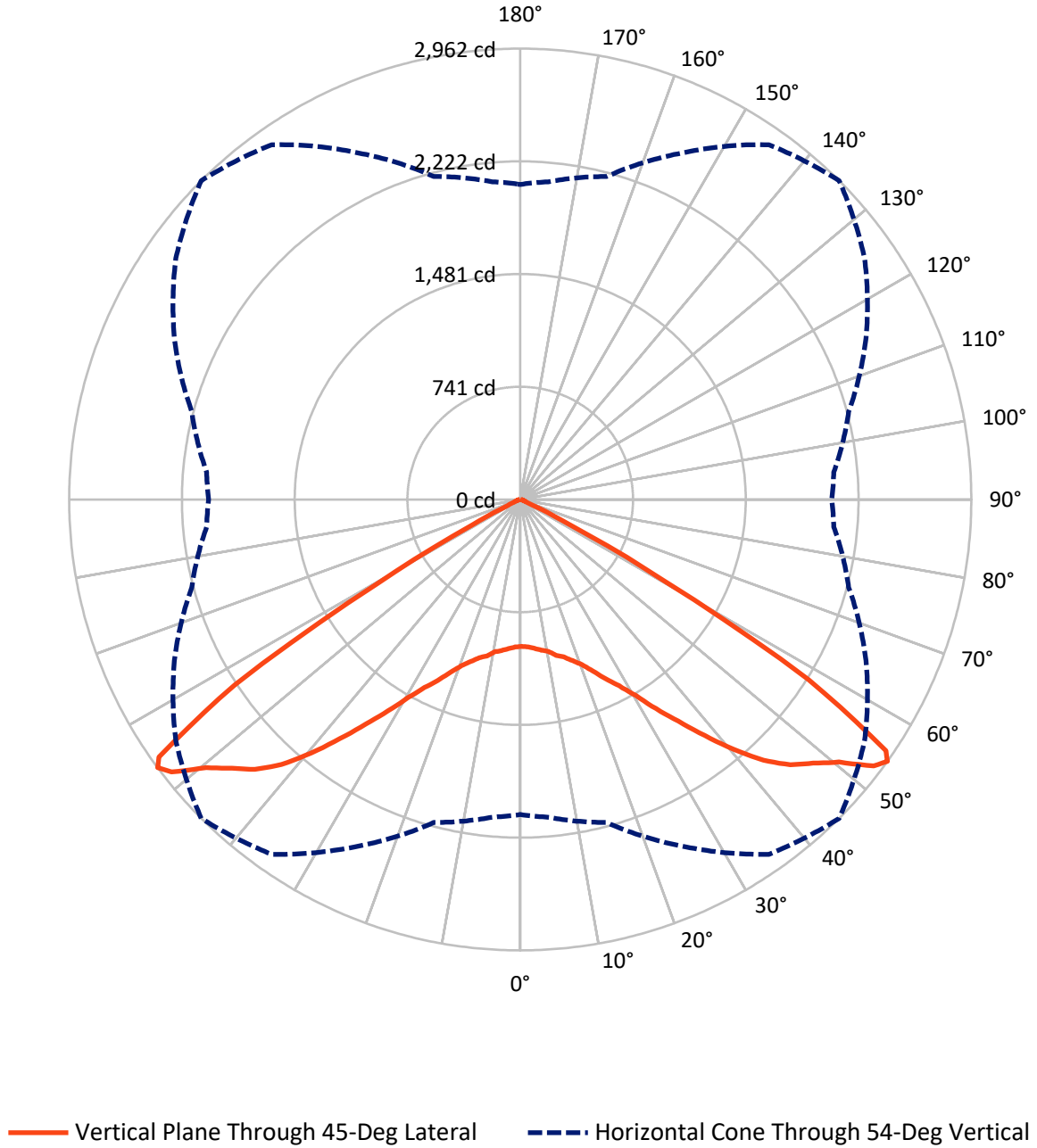
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - N/A

REPORT NUMBER: P527027
CATALOG NUMBER: GALN-SA2A-735-U-5NQ-GRSBK

Luminous Intensity Polar Plot



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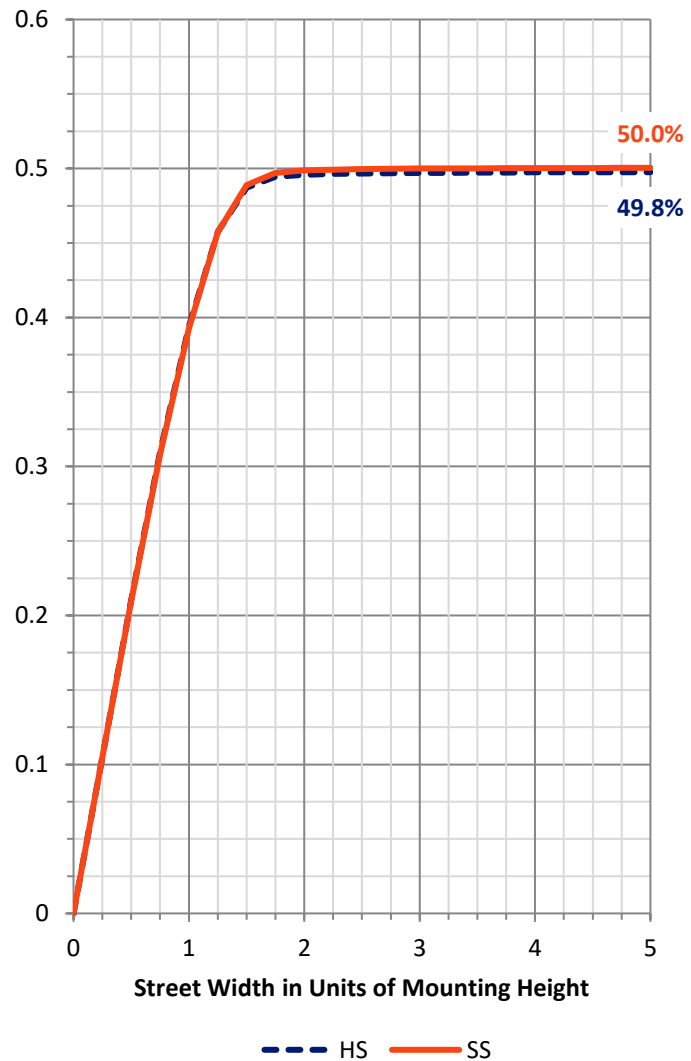
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2942.5	0.0	2942.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2942.5	0.0	2942.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	5885.0	0.0	5885.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	1.6
10°-20°	305.9	5.2
20°-30°	599.5	10.2
30°-40°	1077.9	18.3
40°-50°	1845.2	31.4
50°-60°	1785.4	30.3
60°-70°	152.8	2.6
70°-80°	18.1	0.3
80°-90°	5.7	0.1
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°	5885.0	100.0
0°-180°	5885.0	100.0



REPORT NUMBER: P527027

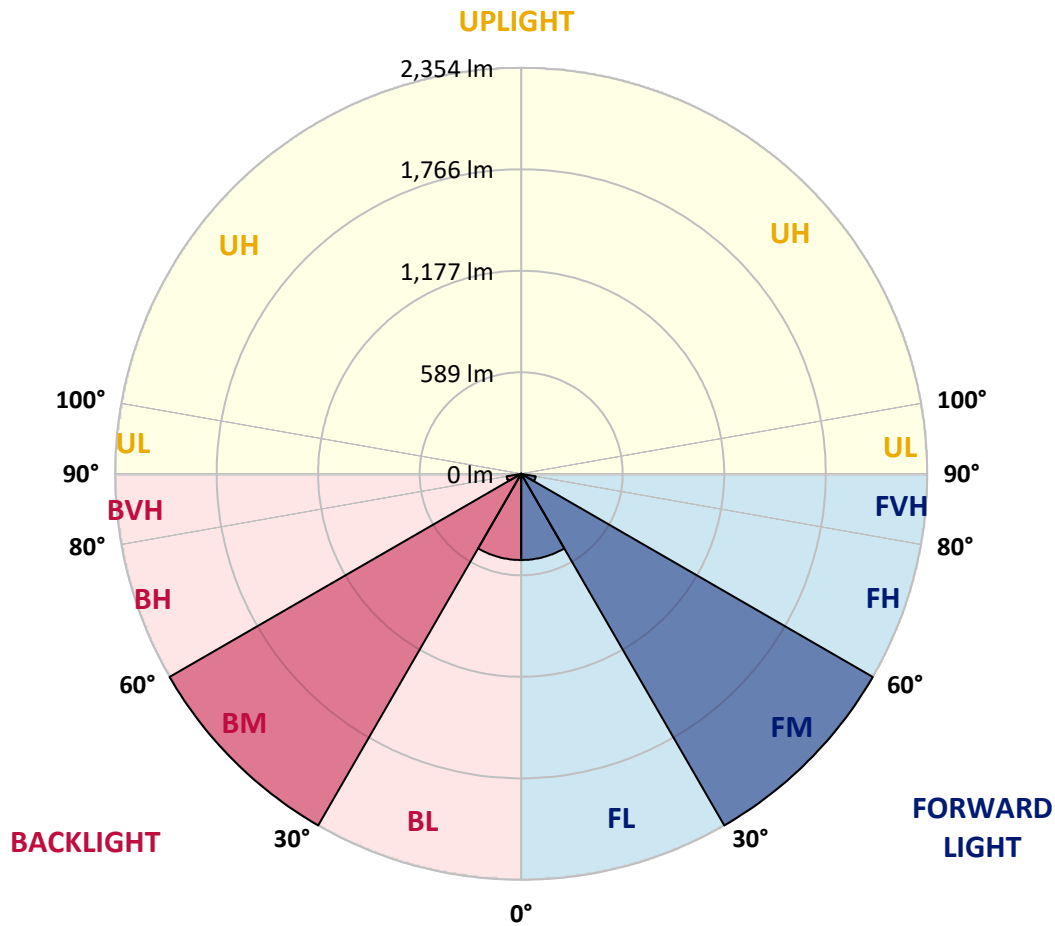
CATALOG NUMBER: GALN-SA2A-735-U-5NQ-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	499.9	8.5			
FM (30°-60°)	2354.3	40.0			
FH (60°-80°)	85.5	1.5			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	499.9	8.5	B1/500		
BM (30°-60°)	2354.3	40.0	B2/2500		
BH (60°-80°)	85.5	1.5	B0/110		G0/660
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	965.0	965.0	965.0	965.0	965.0	965.0	965.0	965.0	965.0	965.0	965.0
2.5°	969.6	975.2	971.5	974.3	974.3	969.6	972.4	961.2	968.7	963.1	964.0
5°	984.5	983.6	983.6	984.5	980.8	982.7	978.9	975.2	972.4	968.7	979.9
7.5°	1003.2	1003.2	996.7	998.5	996.7	999.5	992.0	984.5	981.7	978.9	977.1
10°	1020.9	1019.0	1016.2	1024.6	1018.1	1014.4	1010.6	1006.0	995.7	992.0	988.3
12.5°	1047.0	1046.1	1042.3	1050.7	1047.0	1050.7	1036.7	1024.6	1022.8	1010.6	1017.2
15°	1077.8	1086.2	1079.6	1079.6	1077.8	1073.1	1067.5	1061.9	1045.1	1040.5	1041.4
17.5°	1117.9	1115.1	1116.0	1116.0	1125.3	1113.2	1102.0	1088.0	1079.6	1076.8	1067.5
20°	1156.1	1159.8	1158.9	1165.4	1171.0	1157.9	1145.8	1144.0	1120.7	1124.4	1111.3
22.5°	1223.2	1220.4	1225.1	1229.7	1226.0	1224.1	1213.0	1199.0	1178.5	1169.1	1167.3
25°	1294.1	1289.4	1281.0	1292.2	1297.8	1306.2	1284.7	1277.3	1245.6	1231.6	1232.5
27.5°	1354.7	1361.2	1370.5	1375.2	1389.2	1386.4	1371.5	1347.2	1323.0	1307.1	1296.9
30°	1437.6	1441.4	1457.2	1463.8	1488.0	1494.5	1471.2	1443.2	1400.4	1379.8	1367.7
32.5°	1514.1	1540.2	1539.3	1571.9	1611.1	1638.1	1596.1	1553.3	1510.4	1486.1	1464.7
35°	1638.1	1633.4	1660.5	1695.0	1758.4	1789.1	1743.4	1694.0	1628.8	1589.6	1572.8
37.5°	1753.7	1755.6	1791.9	1846.9	1919.7	1967.2	1927.1	1846.0	1778.9	1728.5	1705.2
40°	1921.5	1925.3	1962.5	2025.0	2107.1	2158.3	2111.7	2029.7	1940.2	1901.0	1901.0
42.5°	2118.2	2134.1	2158.3	2212.4	2286.1	2342.9	2301.0	2236.6	2146.2	2095.9	2103.3
45°	2320.6	2328.0	2343.9	2424.0	2458.5	2486.5	2447.4	2417.5	2356.9	2295.4	2285.1
47.5°	2509.8	2512.6	2559.2	2584.4	2611.4	2588.1	2613.3	2574.2	2506.1	2446.4	2434.3
50°	2593.7	2589.1	2655.3	2731.7	2752.2	2711.2	2689.8	2663.7	2560.2	2488.4	2456.7
52.5°	2349.5	2376.5	2499.6	2712.1	2872.5	2907.0	2782.1	2661.8	2468.8	2328.9	2307.5
54°	2069.8	2094.9	2196.6	2511.7	2845.5	2962.0	2760.6	2505.2	2232.9	2067.0	2045.5
55°	1792.9	1764.9	1949.5	2271.1	2718.7	2913.5	2675.8	2302.8	1991.4	1839.5	1809.6
57.5°	970.6	975.2	1130.9	1434.8	1910.3	2233.9	1972.8	1557.9	1176.6	1006.0	991.1
60°	307.7	315.1	383.2	579.9	912.7	1089.9	934.2	625.6	432.6	346.8	332.8
62.5°	96.0	99.8	109.1	162.2	249.9	357.1	279.7	167.8	124.9	114.7	116.5
65°	58.7	58.7	59.7	63.4	74.6	86.7	83.9	73.7	70.9	69.0	68.1
67.5°	38.2	37.3	39.2	42.0	43.8	44.8	47.5	50.3	49.4	47.5	47.5
70°	23.3	22.4	24.2	28.0	28.9	30.8	33.6	37.3	36.4	34.5	35.4
72.5°	13.1	13.1	14.0	16.8	19.6	21.4	24.2	27.0	28.0	27.0	27.0
75°	4.7	5.6	7.5	10.3	12.1	14.9	17.7	20.5	23.3	21.4	20.5
77.5°	1.9	1.9	3.7	6.5	9.3	12.1	16.8	19.6	21.4	19.6	17.7
80°	0.9	0.9	2.8	5.6	8.4	11.2	14.0	16.8	17.7	15.8	14.0
82.5°	0.9	0.9	2.8	5.6	8.4	10.3	14.9	16.8	18.6	16.8	14.0
85°	0.0	0.9	2.8	5.6	7.5	8.4	8.4	5.6	4.7	2.8	2.8
87.5°	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)