

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: P458630

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458630
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8941 lumens
Efficiency: N/A
Efficacy: 141.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

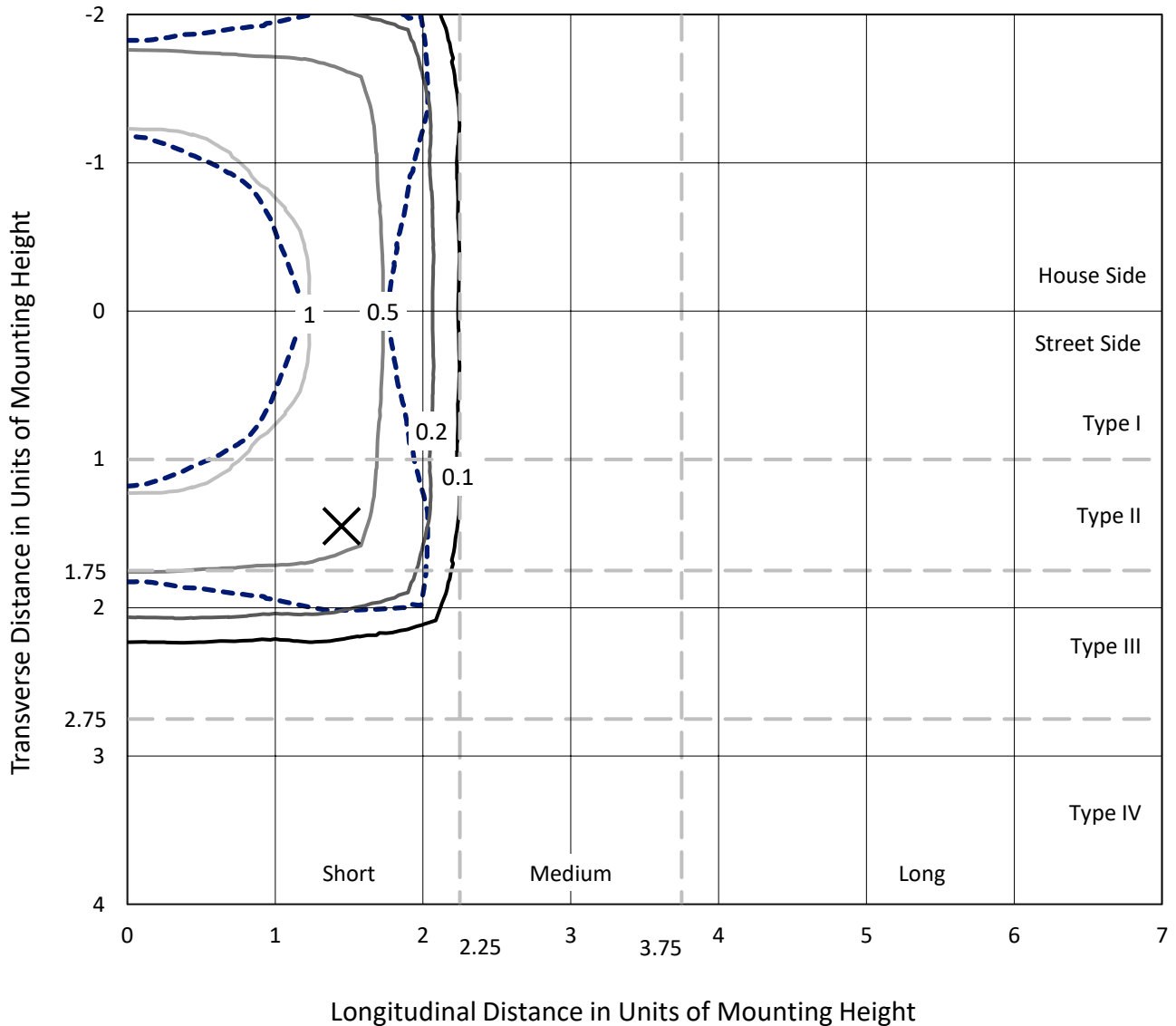
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458630
 CATALOG NUMBER: GALN-SA2A-735-U-5NQ

Iso-Footcandle Lines of Horizontal Illumination

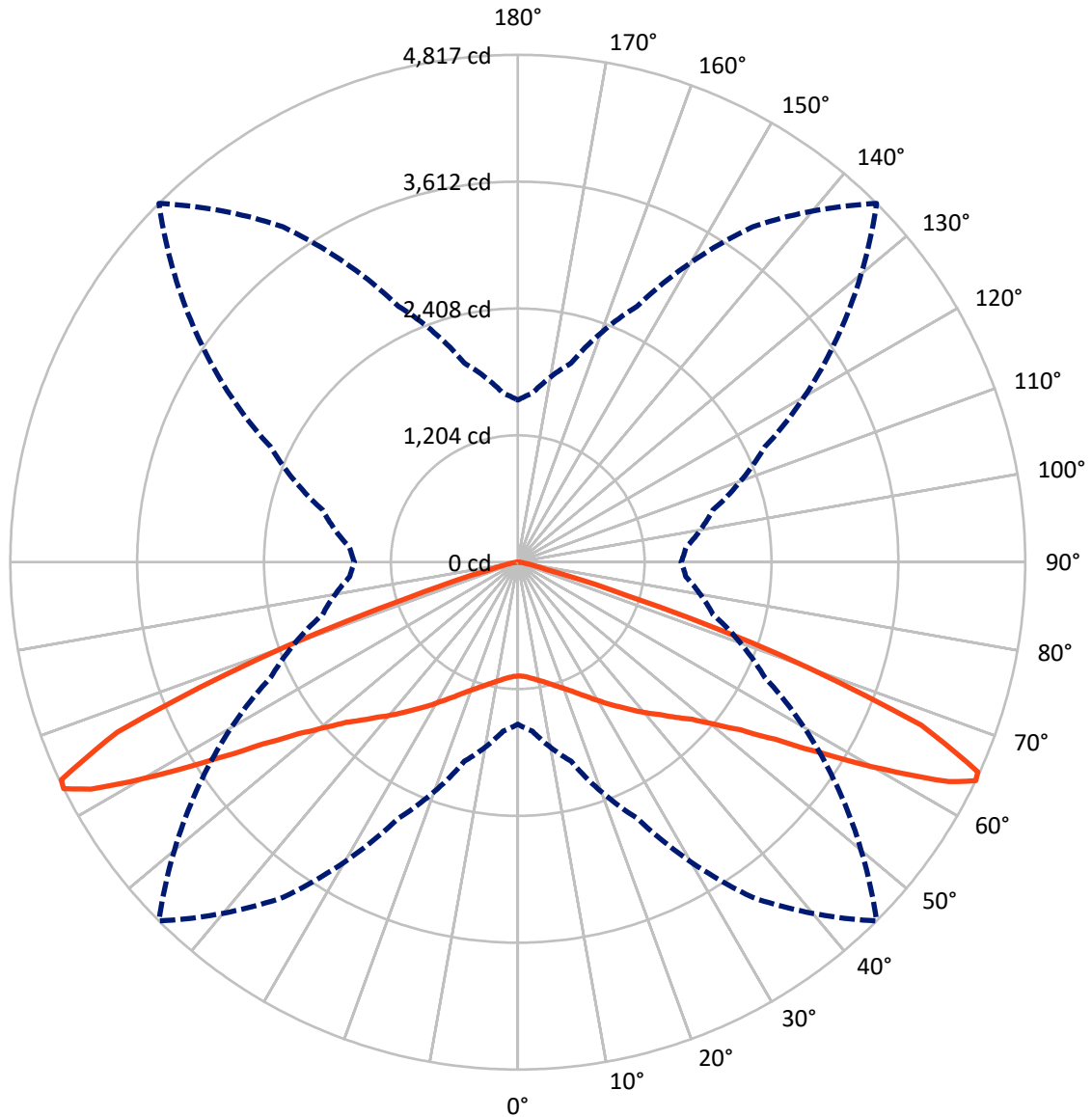
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type V - Short - N/A

REPORT NUMBER: P458630
CATALOG NUMBER: GALN-SA2A-735-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P458630

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

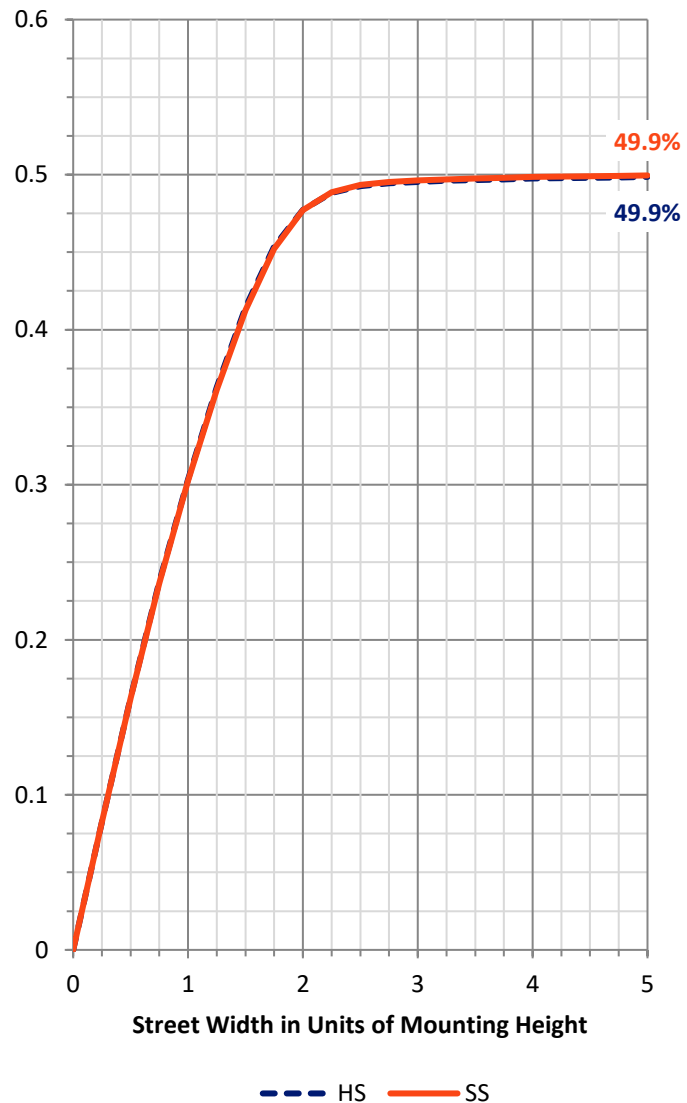
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4470.5	0.0	4470.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4470.5	0.0	4470.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8941.0	0.0	8941.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	1.2
10°-20°	342.5	3.8
20°-30°	647.2	7.2
30°-40°	1071.8	12.0
40°-50°	1673.2	18.7
50°-60°	2586.7	28.9
60°-70°	2230.5	24.9
70°-80°	252.8	2.8
80°-90°	30.3	0.3
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°	8941.0	100.0
0°-180°	8941.0	100.0



REPORT NUMBER: P458630

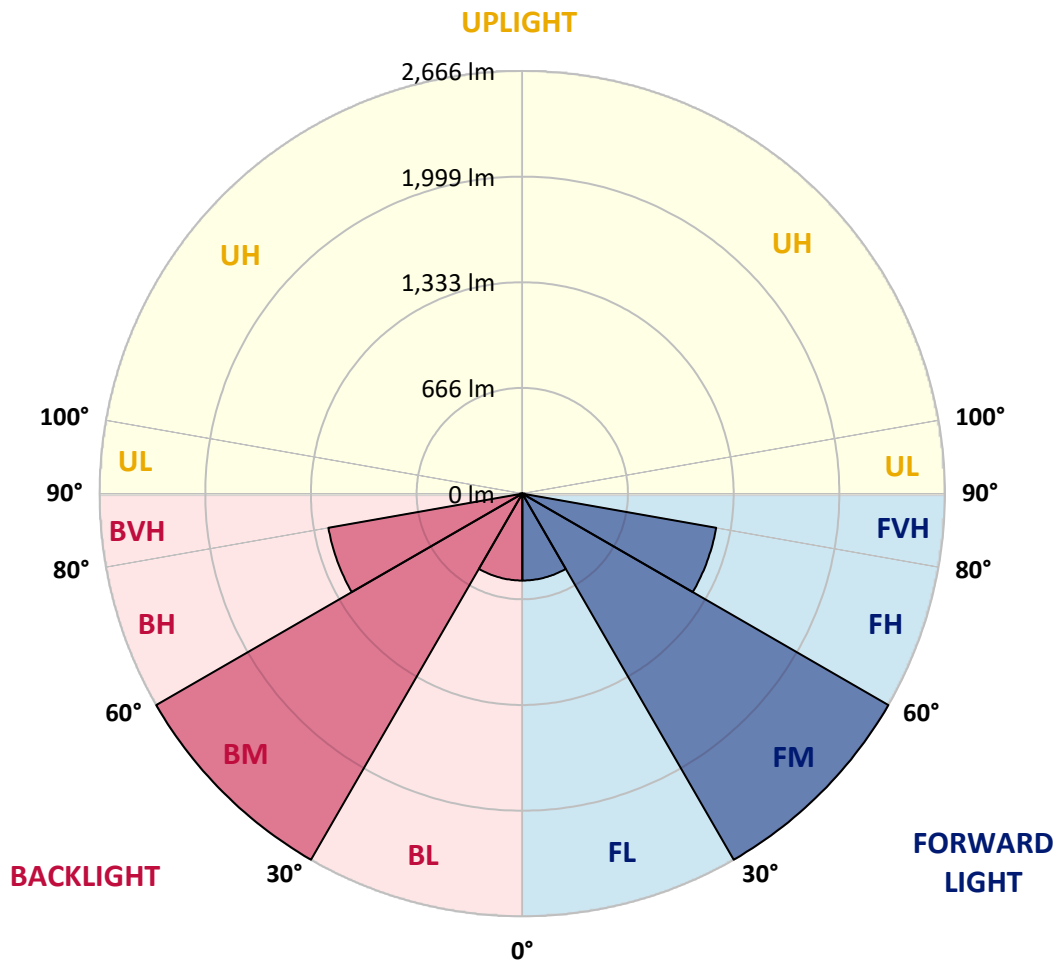
CATALOG NUMBER: GALN-SA2A-735-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	547.9	6.1			
FM	(30°-60°)	2665.8	29.8			
FH	(60°-80°)	1241.6	13.9			G1/1800
FVH	(80°-90°)	15.1	0.2			G1/100
BL	(0°-30°)	547.9	6.1	B2/1000		
BM	(30°-60°)	2665.8	29.8	B3/5000		
BH	(60°-80°)	1241.6	13.9	B3/2500		G1/1800
BVH	(80°-90°)	15.1	0.2			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





REPORT NUMBER: P458630
 CATALOG NUMBER: GALN-SA2A-735-U-5NQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1080.7	1080.7	1080.7	1080.7	1080.7	1080.7	1080.7	1080.7	1080.7	1080.7	1080.7
2.5°	1084.9	1087.3	1085.4	1084.9	1084.5	1084.5	1084.5	1084.9	1086.8	1088.2	1087.3
5°	1098.7	1100.6	1099.6	1099.1	1098.7	1099.1	1098.2	1097.7	1099.1	1099.1	1098.7
7.5°	1115.7	1118.1	1117.1	1118.1	1118.6	1119.0	1116.7	1114.8	1114.3	1115.7	1114.8
10°	1138.9	1140.8	1141.3	1141.8	1142.7	1142.2	1139.4	1136.1	1135.6	1135.1	1134.7
12.5°	1165.0	1166.4	1166.9	1168.8	1170.2	1170.6	1167.3	1164.5	1159.8	1160.7	1158.8
15°	1194.3	1197.2	1196.7	1199.5	1203.3	1204.3	1201.0	1196.2	1192.0	1189.6	1188.2
17.5°	1230.3	1232.2	1231.3	1234.1	1238.8	1241.2	1238.4	1232.2	1227.9	1222.7	1219.9
20°	1272.9	1276.3	1277.2	1277.2	1281.5	1283.8	1279.6	1277.7	1271.0	1267.3	1264.9
22.5°	1321.2	1322.7	1325.5	1328.3	1332.6	1331.7	1330.2	1327.4	1321.2	1317.9	1314.1
25°	1375.7	1377.1	1384.2	1390.4	1391.8	1390.9	1389.0	1387.5	1381.9	1374.3	1371.4
27.5°	1439.2	1442.0	1451.5	1457.2	1457.2	1457.6	1453.8	1458.6	1446.3	1437.3	1436.3
30°	1518.7	1520.6	1528.7	1534.3	1531.5	1529.1	1528.2	1532.9	1519.7	1503.6	1499.8
32.5°	1597.3	1604.0	1611.1	1623.4	1613.4	1609.2	1608.2	1611.5	1596.4	1578.4	1573.2
35°	1681.6	1686.4	1699.6	1710.0	1701.0	1691.1	1695.4	1705.8	1687.8	1663.6	1662.7
37.5°	1774.9	1779.2	1796.2	1807.1	1800.5	1783.4	1790.5	1802.9	1784.9	1755.0	1748.9
40°	1872.0	1881.0	1902.3	1913.7	1902.8	1880.0	1893.3	1906.6	1890.5	1855.9	1842.2
42.5°	1980.9	1995.1	2025.9	2031.6	2010.7	1980.0	2003.2	2024.5	2013.1	1973.3	1968.1
45°	2108.3	2116.8	2154.7	2167.0	2138.1	2099.8	2128.7	2167.5	2159.0	2113.0	2103.1
47.5°	2250.8	2258.9	2298.2	2316.7	2280.2	2228.6	2280.7	2331.3	2326.1	2276.9	2272.2
50°	2419.4	2421.3	2475.8	2496.6	2460.2	2415.6	2462.1	2525.0	2504.2	2441.2	2440.3
52.5°	2604.1	2606.5	2675.2	2715.4	2695.0	2644.8	2699.8	2738.1	2685.1	2602.7	2596.5
55°	2764.2	2776.0	2869.8	2976.8	3004.8	2968.3	2984.9	2966.9	2836.2	2720.6	2702.6
57.5°	2829.5	2852.7	2995.3	3195.1	3377.0	3431.0	3303.1	3131.7	2896.3	2732.9	2715.4
60°	2669.9	2695.0	2916.2	3295.5	3759.6	3994.0	3634.6	3159.6	2759.5	2529.8	2502.3
62.5°	2138.1	2145.2	2470.6	3059.2	3982.7	4589.8	3774.3	2921.4	2361.2	2049.1	2038.2
64°	1538.6	1611.5	1956.3	2682.3	3885.1	4816.6	3693.8	2587.5	1917.9	1602.1	1550.9
65°	1150.8	1170.6	1577.0	2290.6	3713.2	4799.6	3537.5	2268.4	1588.3	1226.1	1169.2
67.5°	434.7	437.1	582.0	1141.8	2643.4	4129.5	2699.8	1234.1	669.1	484.0	466.5
70°	180.4	183.7	213.6	384.1	1136.1	2651.5	1301.8	445.1	244.8	198.4	195.6
72.5°	132.1	134.0	143.0	170.5	349.5	1088.7	428.1	189.0	143.5	128.3	126.9
75°	103.7	104.7	111.3	125.5	162.9	301.7	178.1	129.8	109.4	98.5	97.6
77.5°	79.1	81.5	86.2	95.7	109.4	143.0	117.9	97.1	84.3	75.3	73.9
80°	54.5	57.3	66.3	70.1	73.4	92.8	80.5	73.4	65.8	54.9	51.6
82.5°	33.6	35.5	44.5	47.8	46.4	52.1	51.6	52.6	46.9	34.1	31.7
85°	17.5	18.5	24.2	25.1	23.2	21.3	26.5	30.8	28.9	19.4	18.9
87.5°	3.8	4.3	5.2	4.7	5.2	5.2	6.6	9.9	10.4	6.6	6.2
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)