

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: P451147

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451147  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-730-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8784 lumens  
Efficiency: N/A  
Efficacy: 139.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

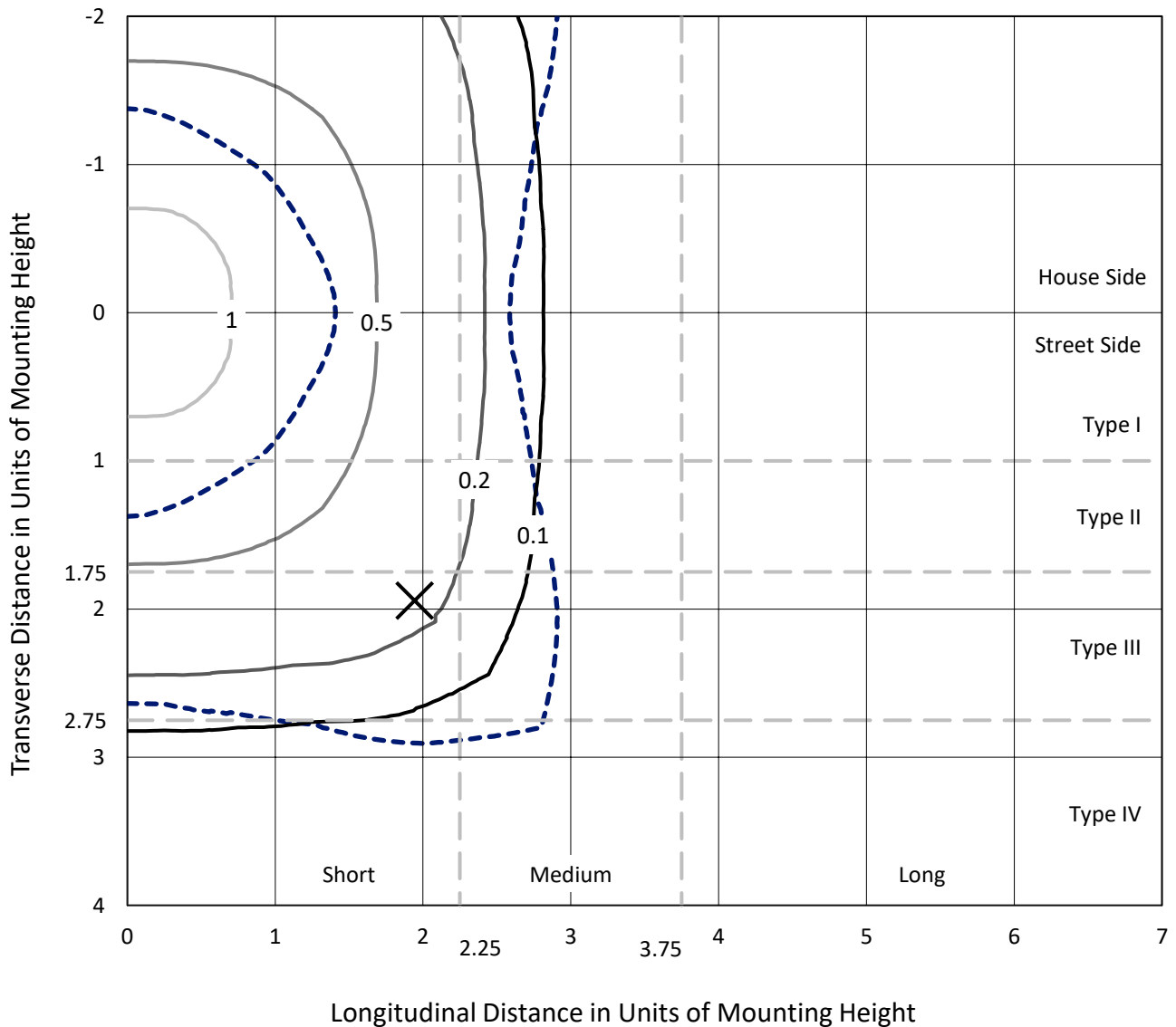
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P451147  
 CATALOG NUMBER: GALN-SA2A-730-U-5MQ

### Iso-Footcandle Lines of Horizontal Illumination

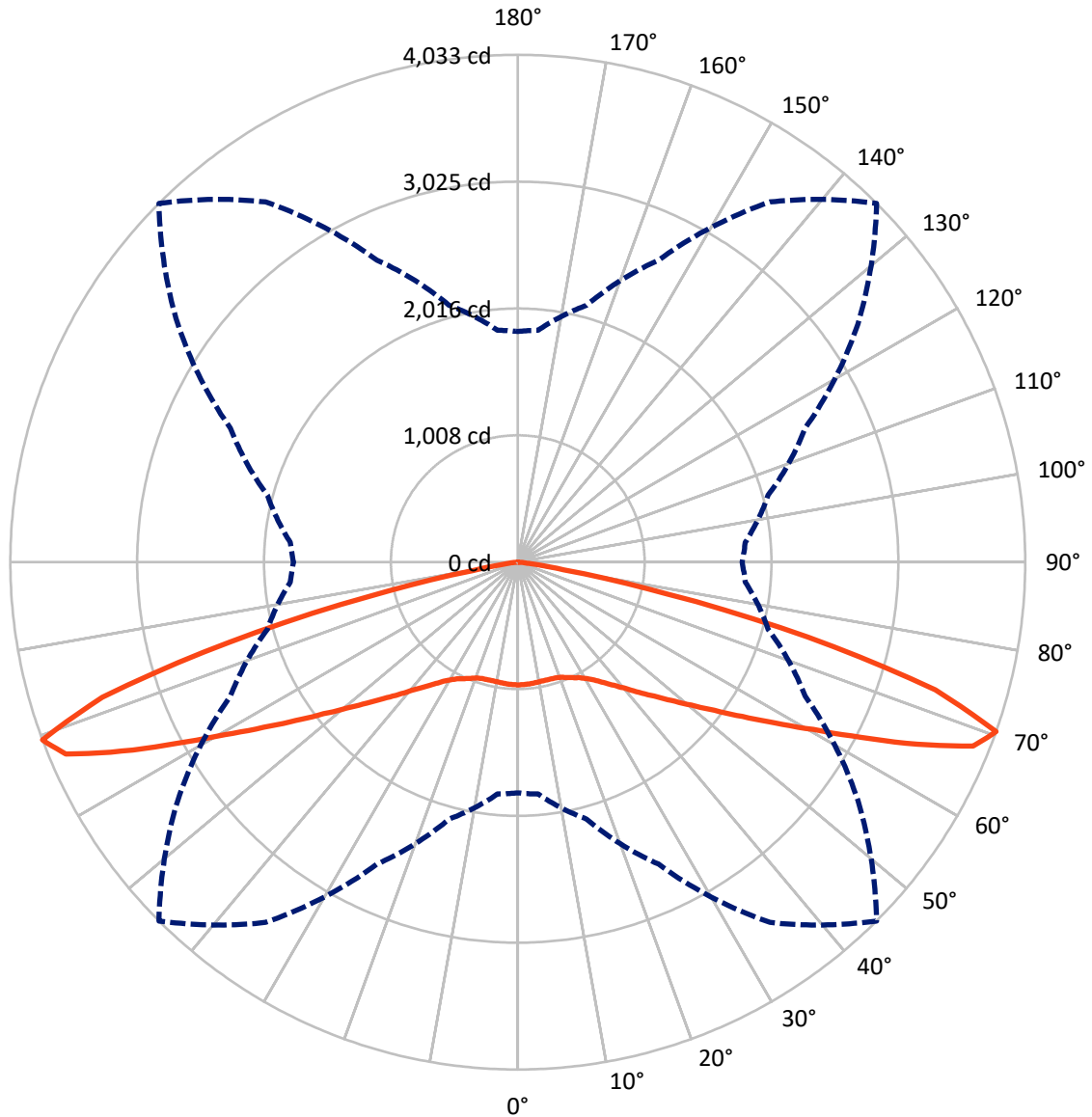
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P451147  
CATALOG NUMBER: GALN-SA2A-730-U-5MQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P451147

CATALOG NUMBER: GALN-SA2A-730-U-5MQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4392.0	0.0	4392.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4392.0	0.0	4392.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8784.0	0.0	8784.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.5	1.1
10°-20°	271.4	3.1
20°-30°	464.2	5.3
30°-40°	736.8	8.4
40°-50°	1188.7	13.5
50°-60°	1934.0	22.0
60°-70°	2803.6	31.9
70°-80°	1243.6	14.2
80°-90°	49.0	0.6
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°	8784.0	100.0
0°-180°	8784.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P451147

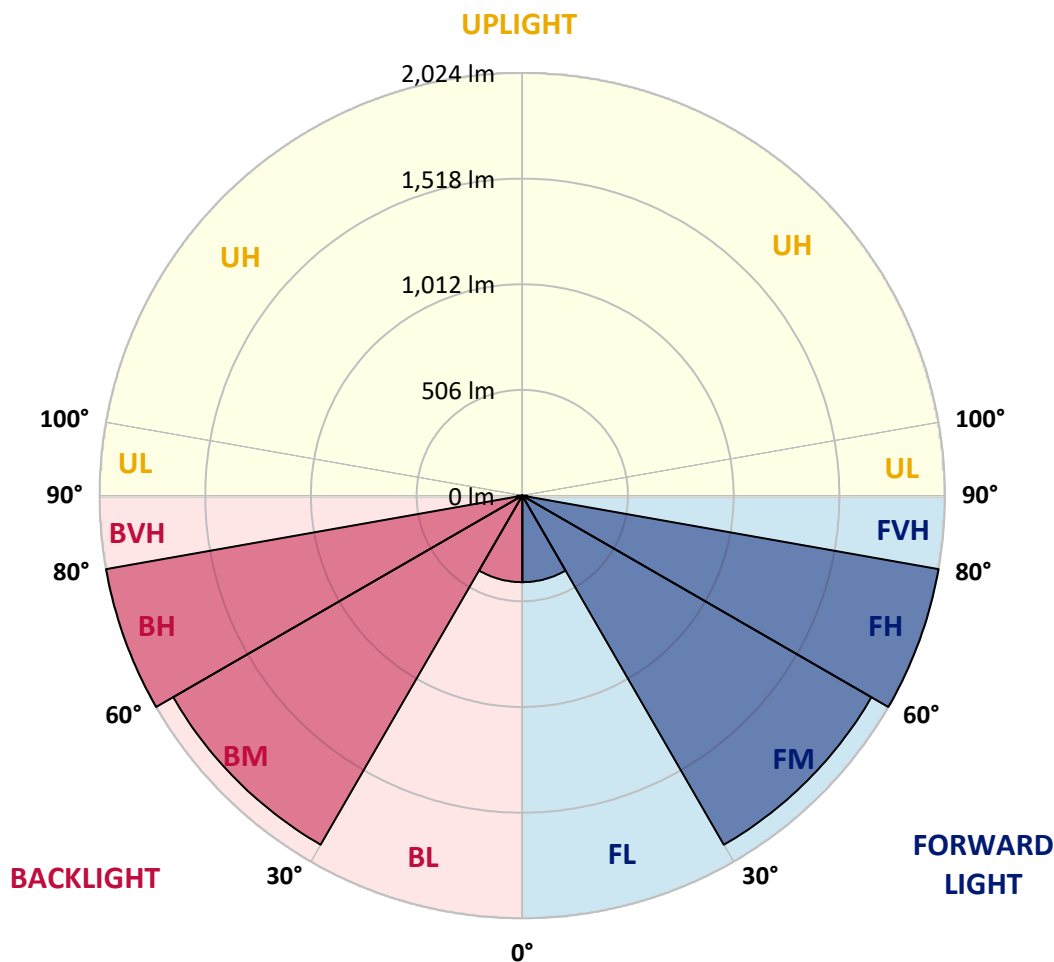
CATALOG NUMBER: GALN-SA2A-730-U-5MQ

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	414.1	4.7			
FM (30°-60°)	1929.8	22.0			
FH (60°-80°)	2023.6	23.0			G2/5000
FVH (80°-90°)	24.5	0.3			G1/100
BL (0°-30°)	414.1	4.7	B1/500		
BM (30°-60°)	1929.8	22.0	B2/2500		
BH (60°-80°)	2023.6	23.0	B3/2500		G2/5000
BVH (80°-90°)	24.5	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-G2**

Type V Short





REPORT NUMBER: P451147  
 CATALOG NUMBER: GALN-SA2A-730-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	975.4	975.4	975.4	975.4	975.4	975.4	975.4	975.4	975.4	975.4	975.4
2.5°	975.4	976.3	975.0	974.0	973.6	973.6	973.1	973.6	976.3	976.8	975.4
5°	972.6	973.6	973.1	972.2	971.7	971.7	971.3	970.8	973.1	974.0	973.6
7.5°	968.9	969.4	968.9	968.5	968.9	968.5	967.1	966.2	968.0	968.0	967.6
10°	962.5	963.4	962.9	963.4	964.3	964.3	962.5	960.6	961.1	960.1	960.1
12.5°	954.6	956.0	956.4	958.3	960.6	963.4	959.2	955.1	954.1	953.7	953.2
15°	949.5	950.9	952.7	954.6	958.8	964.8	958.8	952.3	950.4	948.6	947.6
17.5°	948.1	950.0	952.7	955.5	961.1	967.1	962.0	955.5	950.9	948.1	947.2
20°	951.8	953.2	957.4	962.5	970.3	976.3	971.3	964.3	957.4	953.2	951.8
22.5°	959.2	961.5	966.6	975.9	987.0	995.8	988.8	977.3	966.2	960.6	958.8
25°	975.4	977.3	983.3	995.8	1008.8	1017.1	1009.7	996.3	981.0	973.6	971.3
27.5°	1000.0	1002.7	1009.2	1024.0	1034.7	1039.3	1034.2	1025.0	1013.8	1006.0	1004.1
30°	1034.7	1037.9	1047.6	1063.4	1070.3	1073.1	1070.8	1064.8	1056.9	1048.6	1046.7
32.5°	1081.4	1083.3	1094.4	1109.2	1115.7	1116.6	1113.8	1111.1	1098.1	1084.2	1083.3
35°	1133.7	1137.0	1150.4	1168.0	1174.0	1174.5	1168.9	1164.8	1149.5	1138.4	1138.4
37.5°	1203.2	1204.6	1217.5	1237.4	1243.9	1242.1	1239.3	1235.6	1219.4	1205.0	1205.5
40°	1284.7	1287.4	1298.6	1321.7	1321.7	1319.4	1321.2	1318.5	1302.3	1288.4	1288.8
42.5°	1381.4	1382.8	1396.2	1420.8	1418.9	1414.3	1416.1	1412.4	1402.3	1386.5	1381.0
45°	1484.7	1490.2	1513.4	1537.0	1533.3	1518.5	1525.9	1524.9	1515.7	1492.1	1493.5
47.5°	1609.2	1618.5	1640.7	1668.9	1664.7	1641.6	1649.9	1655.5	1642.5	1616.6	1612.0
50°	1749.5	1755.5	1788.4	1814.7	1811.0	1786.5	1805.5	1806.4	1774.0	1737.4	1737.4
52.5°	1899.0	1905.0	1949.5	1990.7	1993.0	1957.3	1972.6	1971.7	1918.9	1870.8	1861.5
55°	2066.6	2069.4	2126.8	2187.4	2200.4	2165.6	2167.5	2149.0	2080.5	2024.5	2019.4
57.5°	2239.7	2249.9	2313.3	2392.0	2430.5	2409.2	2399.4	2349.9	2283.7	2219.4	2216.1
60°	2431.4	2431.8	2514.2	2607.3	2685.1	2699.4	2659.6	2593.4	2507.8	2422.6	2418.9
62.5°	2564.2	2584.2	2688.3	2845.7	2985.1	3065.6	2960.5	2821.6	2653.1	2515.6	2501.7
65°	2591.6	2605.0	2763.8	3030.4	3315.1	3488.7	3245.7	2950.3	2662.9	2479.5	2470.3
67.5°	2370.7	2385.1	2599.0	3008.2	3546.6	3902.6	3430.9	2888.3	2498.0	2271.2	2253.1
70°	1833.7	1849.9	2114.3	2648.0	3495.2	4032.7	3298.9	2519.3	2060.1	1815.2	1782.3
72.5°	975.0	1034.7	1260.6	1817.5	2836.9	3472.1	2705.0	1838.3	1328.6	1086.1	1042.5
75°	356.0	363.4	489.3	806.0	1650.4	2380.9	1713.8	876.8	504.1	389.3	369.4
77.5°	147.2	146.8	161.1	243.5	599.5	1219.4	669.0	257.4	160.6	148.6	146.8
80°	87.0	87.0	95.8	101.4	157.9	368.0	176.4	114.8	96.3	88.0	89.3
82.5°	38.9	41.2	60.6	63.9	76.4	100.9	85.2	73.1	63.0	43.5	39.4
85°	21.3	18.5	31.9	33.3	36.6	37.5	40.3	39.8	36.6	21.3	21.8
87.5°	4.2	5.1	9.3	6.9	7.9	6.9	9.3	13.0	13.4	7.4	6.0
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)