

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: P451381

Luminaire Tested: **GALN-SA2B-730-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451381  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10907 lumens  
Efficiency: N/A  
Efficacy: 133.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

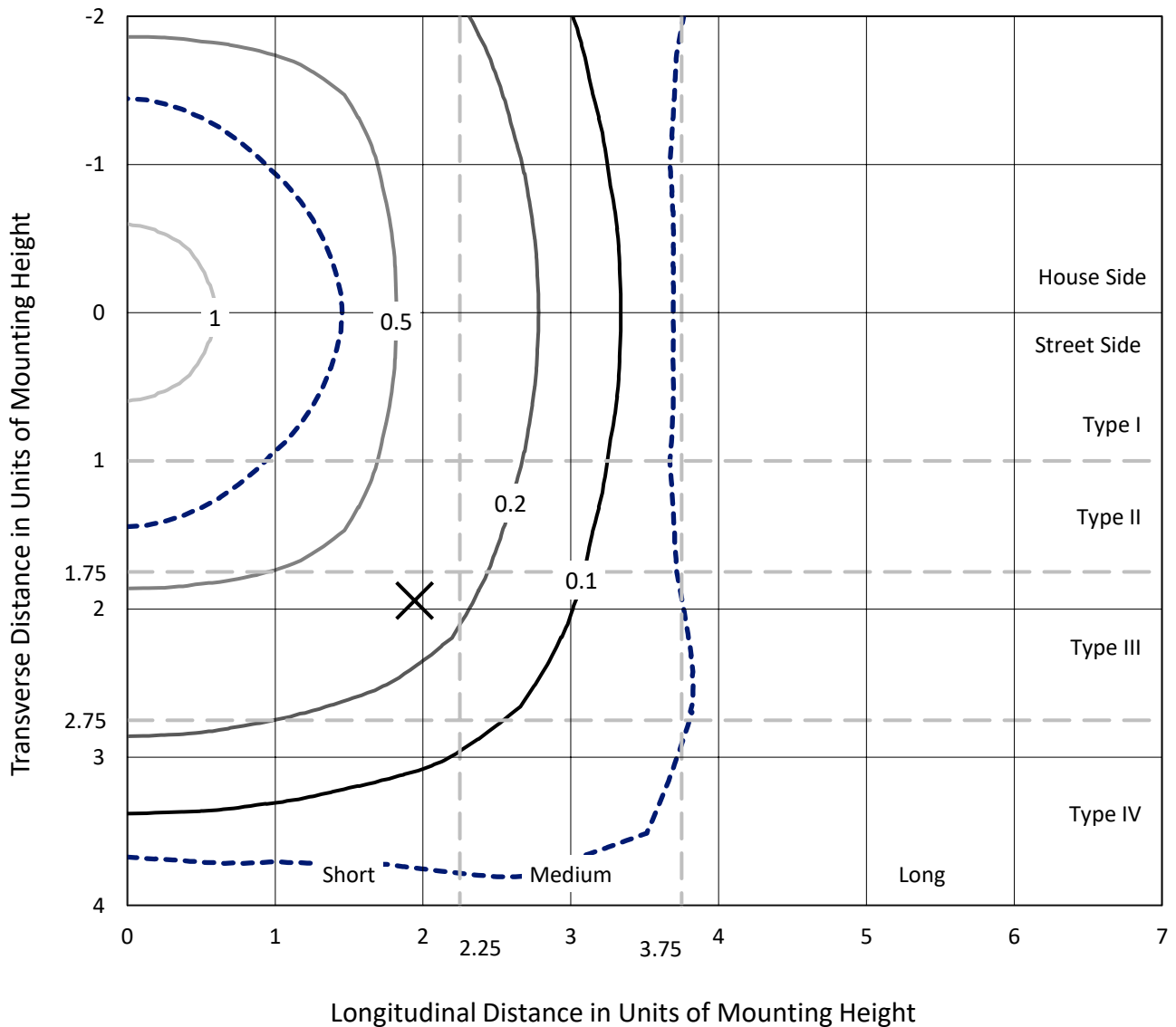
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P451381  
 CATALOG NUMBER: GALN-SA2B-730-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

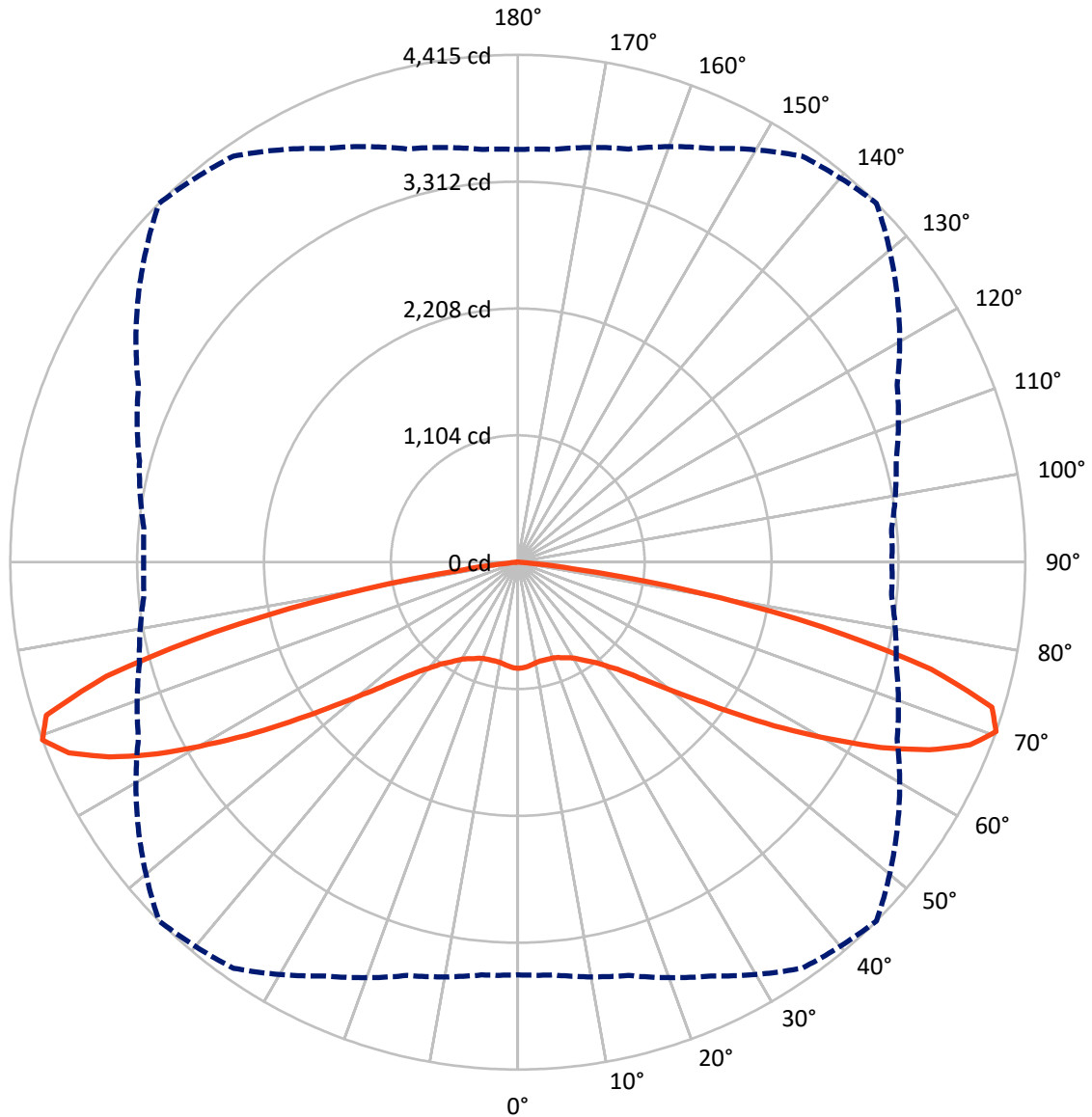
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type V - Short - N/A

REPORT NUMBER: P451381  
CATALOG NUMBER: GALN-SA2B-730-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P451381

CATALOG NUMBER: GALN-SA2B-730-U-5WQ

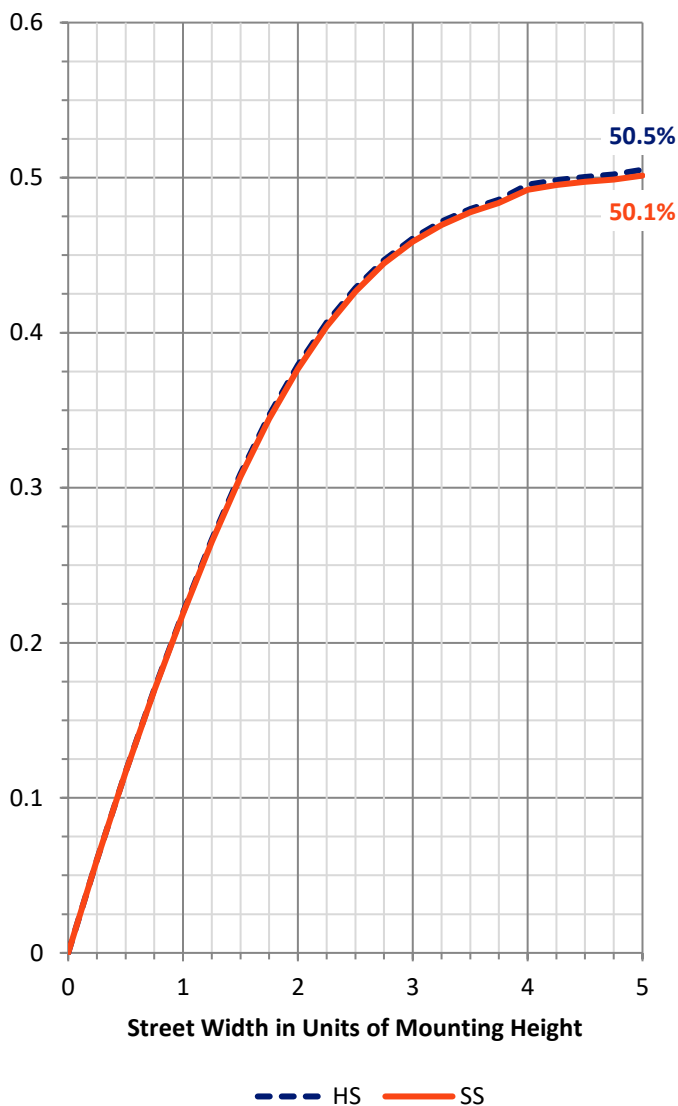
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5453.5	0.0	5453.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5453.5	0.0	5453.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10907.0	0.0	10907.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.4	0.8
10°-20°	252.8	2.3
20°-30°	430.7	3.9
30°-40°	667.6	6.1
40°-50°	1123.7	10.3
50°-60°	2044.6	18.7
60°-70°	3461.4	31.7
70°-80°	2679.2	24.6
80°-90°	160.5	1.5
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°	10907.0	100.0
0°-180°	10907.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P451381

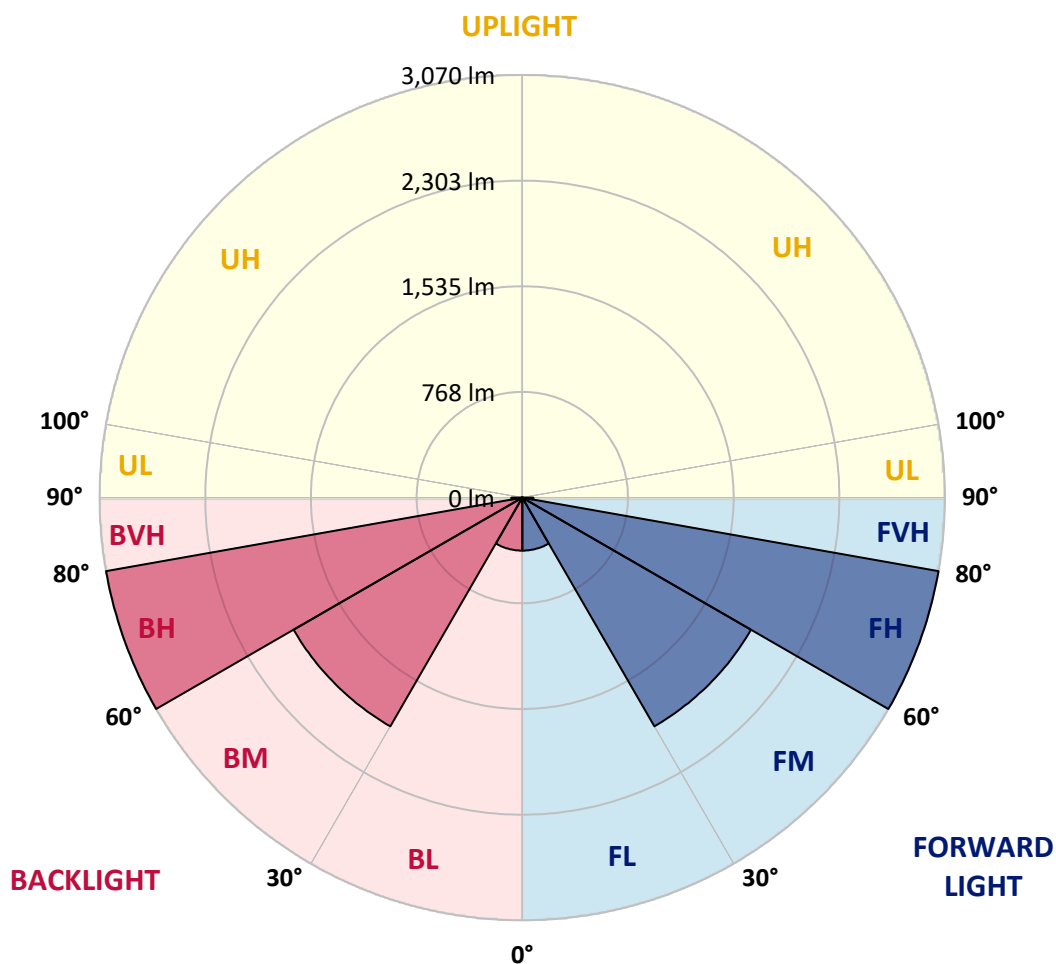
CATALOG NUMBER: GALN-SA2B-730-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.9	3.5			
FM (30°-60°)	1918.0	17.6			
FH (60°-80°)	3070.3	28.1			G2/5000
FVH (80°-90°)	80.3	0.7			G1/100
BL (0°-30°)	384.9	3.5	B1/500		
BM (30°-60°)	1918.0	17.6	B2/2500		
BH (60°-80°)	3070.3	28.1	B4/5000		G2/5000
BVH (80°-90°)	80.3	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





REPORT NUMBER: P451381  
 CATALOG NUMBER: GALN-SA2B-730-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	923.4	923.4	923.4	923.4	923.4	923.4	923.4	923.4	923.4	923.4	923.4
2.5°	921.1	921.7	921.7	920.5	920.0	920.0	919.4	919.4	921.1	921.7	922.3
5°	913.0	913.0	913.0	912.5	911.3	911.3	910.2	910.2	910.7	912.5	911.3
7.5°	902.1	903.2	903.2	900.9	899.2	899.2	898.6	899.2	899.8	901.5	900.9
10°	898.6	899.2	896.3	892.3	889.4	887.7	888.3	889.4	892.3	893.5	894.0
12.5°	900.9	900.9	895.8	890.0	884.8	882.5	881.9	886.0	891.2	894.6	895.8
15°	903.8	902.7	896.3	888.8	883.7	883.1	882.5	885.4	892.9	899.8	900.4
17.5°	905.6	905.0	896.9	887.7	884.8	884.8	884.2	886.5	894.6	903.2	903.8
20°	911.3	909.6	900.4	890.6	888.3	889.4	887.7	890.6	899.2	909.6	911.9
22.5°	922.8	921.1	911.9	902.1	900.9	900.9	900.4	903.2	912.5	923.4	925.1
25°	936.7	934.9	926.3	919.4	920.5	922.8	921.7	922.3	929.7	939.0	941.8
27.5°	955.1	952.2	944.7	939.0	942.4	942.4	942.4	941.8	946.5	955.1	958.0
30°	977.6	976.4	968.3	967.8	970.6	967.8	967.8	968.3	968.9	977.0	979.9
32.5°	1006.9	1004.6	1000.6	999.4	1007.5	1009.8	1001.8	994.3	998.3	1006.4	1008.1
35°	1055.3	1051.9	1046.1	1039.8	1046.1	1057.1	1039.8	1034.0	1044.4	1055.3	1056.5
37.5°	1121.0	1119.3	1110.1	1098.5	1098.0	1109.5	1091.6	1091.0	1110.6	1123.9	1125.6
40°	1203.4	1205.1	1193.6	1182.6	1176.9	1186.1	1172.3	1177.4	1196.5	1211.4	1210.3
42.5°	1319.2	1312.8	1295.0	1284.6	1278.3	1274.8	1271.3	1279.4	1300.7	1316.9	1329.5
45°	1454.5	1452.2	1429.8	1417.1	1403.3	1398.1	1396.9	1411.3	1437.2	1456.8	1458.6
47.5°	1607.8	1602.6	1588.2	1574.9	1569.7	1563.4	1557.6	1568.6	1594.5	1608.3	1612.4
50°	1765.6	1766.8	1766.8	1764.4	1769.6	1770.8	1755.2	1759.3	1773.7	1772.5	1771.4
52.5°	1945.9	1952.2	1982.2	1985.1	2009.8	2026.6	1998.3	1981.6	1976.4	1945.3	1947.6
55°	2157.9	2163.7	2208.6	2253.5	2320.3	2348.6	2289.2	2237.4	2200.5	2153.3	2155.6
57.5°	2422.3	2425.2	2467.8	2554.2	2660.2	2726.5	2622.2	2519.7	2444.8	2399.8	2382.0
60°	2706.9	2709.7	2772.0	2877.4	3042.1	3122.8	2993.7	2826.1	2731.6	2663.1	2667.7
62.5°	3048.5	3060.0	3115.9	3261.0	3460.9	3551.4	3380.3	3156.2	3028.3	2943.0	2946.5
65°	3414.3	3433.8	3494.9	3654.5	3838.8	3936.2	3726.5	3467.8	3308.8	3204.6	3215.5
67.5°	3651.6	3668.9	3757.0	3933.3	4163.1	4243.8	3973.0	3671.8	3473.0	3348.6	3325.5
70°	3591.1	3605.5	3723.0	3973.0	4313.5	4415.4	4031.8	3641.8	3407.9	3264.5	3255.3
72.5°	3170.0	3140.1	3311.7	3670.6	4141.8	4312.9	3846.9	3326.1	3031.8	2884.3	2867.0
75°	2100.9	2166.0	2419.4	2842.2	3504.1	3716.1	3283.5	2670.6	2300.2	2177.5	2158.5
77.5°	702.2	752.3	977.6	1611.2	2388.9	2707.4	2392.3	1746.6	1235.6	995.4	1000.0
80°	186.1	183.8	237.9	443.0	1032.3	1568.0	1201.6	591.6	323.7	234.5	222.4
82.5°	66.8	74.9	96.2	122.7	273.6	487.3	343.9	165.9	121.5	89.9	87.0
85°	29.4	28.8	41.5	49.0	68.6	91.0	80.6	70.3	61.6	40.9	38.0
87.5°	6.3	6.3	9.8	7.5	12.1	12.1	15.0	17.9	18.4	12.1	9.8
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)