

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: P451410

Luminaire Tested: **GALN-SA2B-740-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451410  
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-740-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 4000K, 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: 11976 lumens  
Efficiency: N/A  
Efficacy: 146.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

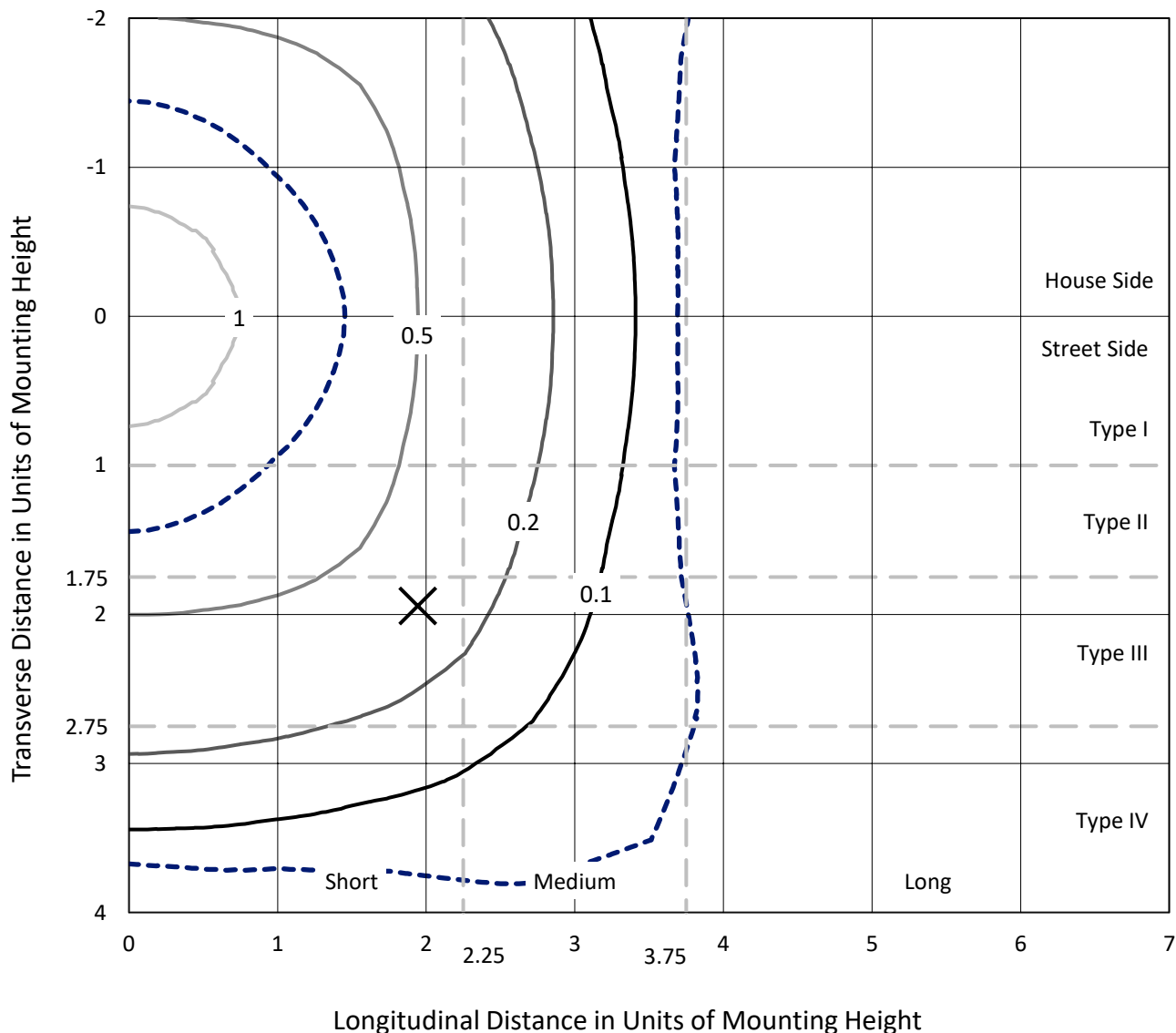
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P451410  
 CATALOG NUMBER: GALN-SA2B-740-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

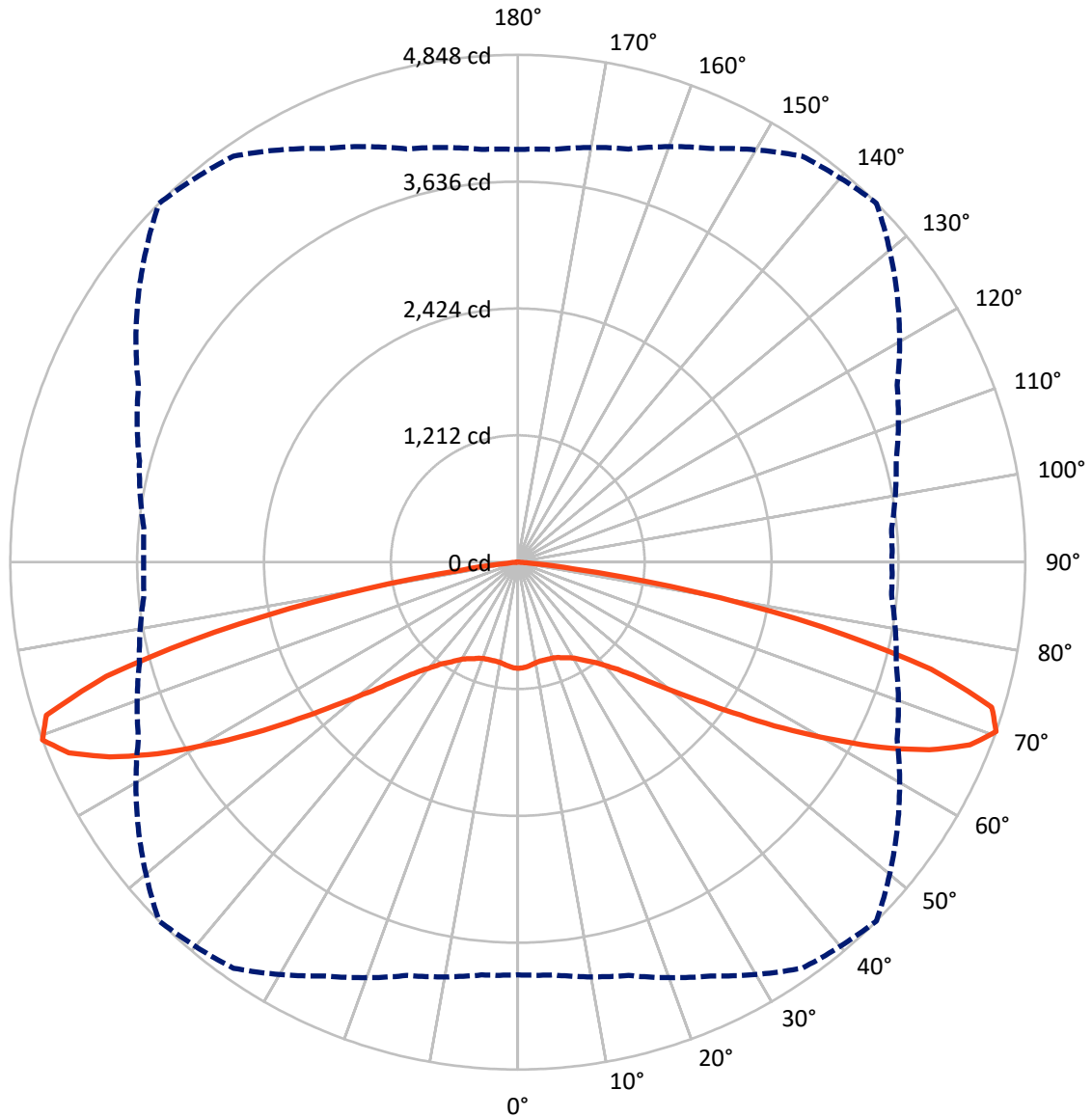
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P451410  
CATALOG NUMBER: GALN-SA2B-740-U-5WQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P451410

CATALOG NUMBER: GALN-SA2B-740-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5988.0	0.0	5988.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5988.0	0.0	5988.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11976.0	0.0	11976.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.8	0.8
10°-20°	277.6	2.3
20°-30°	473.0	3.9
30°-40°	733.1	6.1
40°-50°	1233.9	10.3
50°-60°	2244.9	18.7
60°-70°	3800.6	31.7
70°-80°	2941.8	24.6
80°-90°	176.3	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°	11976.0	100.0
0°-180°	11976.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P451410

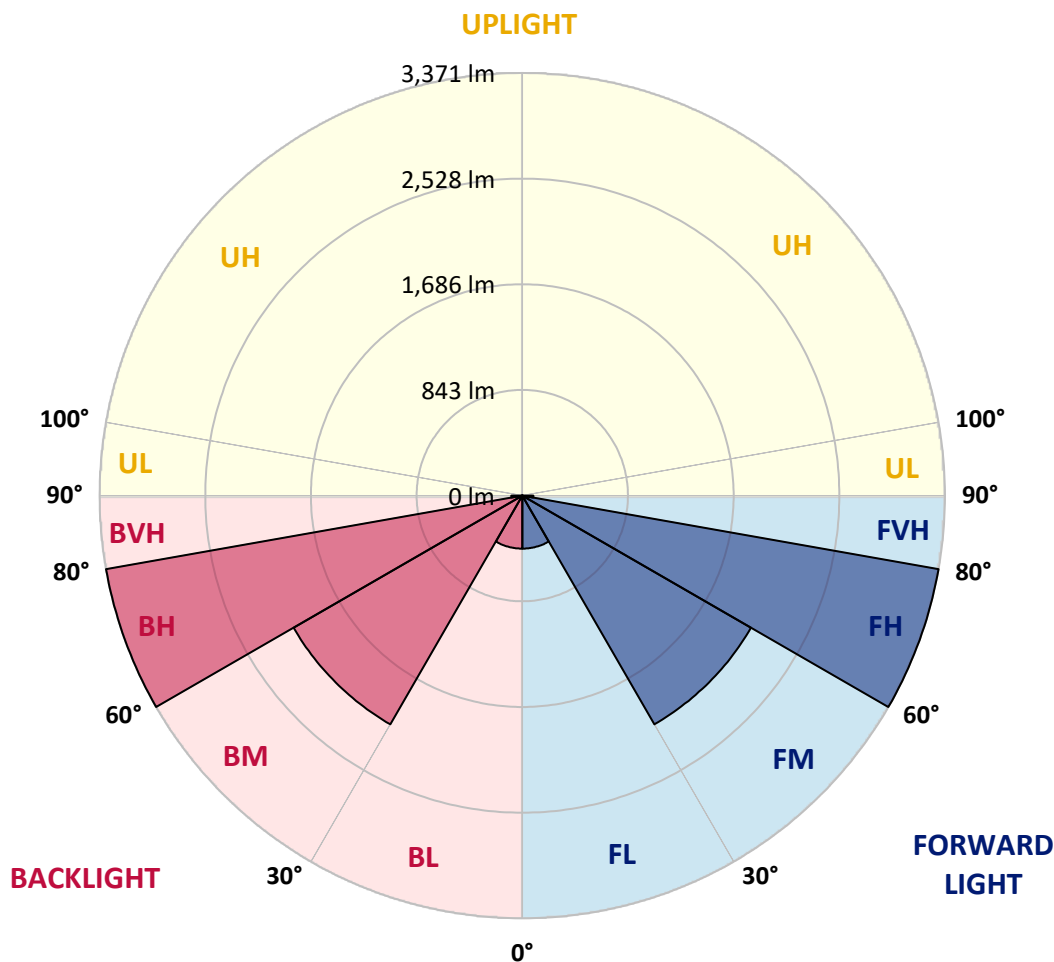
CATALOG NUMBER: GALN-SA2B-740-U-5WQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.7	3.5			
FM (30°-60°)	2105.9	17.6			
FH (60°-80°)	3371.2	28.1			G2/5000
FVH (80°-90°)	88.1	0.7			G1/100
BL (0°-30°)	422.7	3.5	B1/500		
BM (30°-60°)	2105.9	17.6	B2/2500		
BH (60°-80°)	3371.2	28.1	B4/5000		G2/5000
BVH (80°-90°)	88.1	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: P451410

CATALOG NUMBER: GALN-SA2B-740-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1013.9	1013.9	1013.9	1013.9	1013.9	1013.9	1013.9	1013.9	1013.9	1013.9	1013.9
2.5°	1011.4	1012.0	1012.0	1010.8	1010.1	1010.1	1009.5	1009.5	1011.4	1012.0	1012.7
5°	1002.5	1002.5	1002.5	1001.9	1000.6	1000.6	999.4	999.4	1000.0	1001.9	1000.6
7.5°	990.5	991.8	991.8	989.2	987.3	987.3	986.7	987.3	988.0	989.9	989.2
10°	986.7	987.3	984.2	979.8	976.6	974.7	975.3	976.6	979.8	981.0	981.7
12.5°	989.2	989.2	983.6	977.2	971.5	969.0	968.4	972.8	978.5	982.3	983.6
15°	992.4	991.1	984.2	976.0	970.3	969.6	969.0	972.2	980.4	988.0	988.6
17.5°	994.3	993.7	984.8	974.7	971.5	971.5	970.9	973.4	982.3	991.8	992.4
20°	1000.6	998.7	988.6	977.9	975.3	976.6	974.7	977.9	987.3	998.7	1001.3
22.5°	1013.3	1011.4	1001.3	990.5	989.2	989.2	988.6	991.8	1001.9	1013.9	1015.8
25°	1028.5	1026.6	1017.1	1009.5	1010.8	1013.3	1012.0	1012.7	1020.9	1031.0	1034.2
27.5°	1048.7	1045.5	1037.3	1031.0	1034.8	1034.8	1034.8	1034.2	1039.2	1048.7	1051.9
30°	1073.4	1072.1	1063.3	1062.6	1065.8	1062.6	1062.6	1063.3	1063.9	1072.7	1075.9
32.5°	1105.6	1103.1	1098.7	1097.4	1106.3	1108.8	1099.9	1091.7	1096.1	1105.0	1106.9
35°	1158.8	1155.0	1148.6	1141.7	1148.6	1160.7	1141.7	1135.4	1146.7	1158.8	1160.0
37.5°	1230.9	1229.0	1218.8	1206.2	1205.6	1218.2	1198.6	1198.0	1219.5	1234.0	1235.9
40°	1321.3	1323.2	1310.6	1298.5	1292.2	1302.3	1287.2	1292.9	1313.7	1330.2	1328.9
42.5°	1448.5	1441.5	1421.9	1410.5	1403.5	1399.7	1396.0	1404.8	1428.2	1445.9	1459.8
45°	1597.1	1594.6	1569.9	1556.0	1540.8	1535.1	1533.8	1549.7	1578.1	1599.6	1601.5
47.5°	1765.3	1759.6	1743.8	1729.3	1723.6	1716.6	1710.3	1722.3	1750.8	1766.0	1770.4
50°	1938.6	1939.9	1939.9	1937.4	1943.1	1944.3	1927.3	1931.7	1947.5	1946.2	1945.0
52.5°	2136.6	2143.6	2176.5	2179.6	2206.8	2225.2	2194.2	2175.8	2170.1	2136.0	2138.5
55°	2369.4	2375.7	2425.0	2474.4	2547.8	2578.7	2513.6	2456.7	2416.2	2364.3	2366.9
57.5°	2659.7	2662.9	2709.7	2804.6	2920.9	2993.7	2879.2	2766.6	2684.4	2635.0	2615.4
60°	2972.2	2975.3	3043.6	3159.4	3340.3	3428.8	3287.2	3103.1	2999.4	2924.1	2929.2
62.5°	3347.2	3359.9	3421.3	3580.6	3800.1	3899.4	3711.6	3465.5	3325.1	3231.5	3235.3
65°	3748.9	3770.4	3837.4	4012.6	4215.1	4321.9	4091.7	3807.7	3633.1	3518.7	3530.7
67.5°	4009.5	4028.5	4125.2	4318.8	4571.2	4659.7	4362.4	4031.6	3813.4	3676.8	3651.5
70°	3943.1	3958.9	4087.9	4362.4	4736.2	4848.2	4426.9	3998.7	3741.9	3584.4	3574.3
72.5°	3480.7	3447.8	3636.3	4030.4	4547.8	4735.6	4223.9	3652.1	3328.9	3167.0	3148.0
75°	2306.8	2378.2	2656.5	3120.8	3847.6	4080.3	3605.3	2932.3	2525.6	2390.9	2370.0
77.5°	771.0	826.1	1073.4	1769.1	2623.0	2972.8	2626.8	1917.8	1356.7	1093.0	1098.0
80°	204.3	201.8	261.2	486.4	1133.5	1721.7	1319.4	649.6	355.5	257.4	244.1
82.5°	73.4	82.2	105.6	134.7	300.4	535.1	377.6	182.2	133.5	98.7	95.5
85°	32.3	31.6	45.5	53.8	75.3	99.9	88.6	77.2	67.7	44.9	41.7
87.5°	7.0	7.0	10.8	8.2	13.3	13.3	16.4	19.6	20.2	13.3	10.8
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)