

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: P451149

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451149  
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-SA2A-730-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8766 lumens  
Efficiency: N/A  
Efficacy: 139.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G2

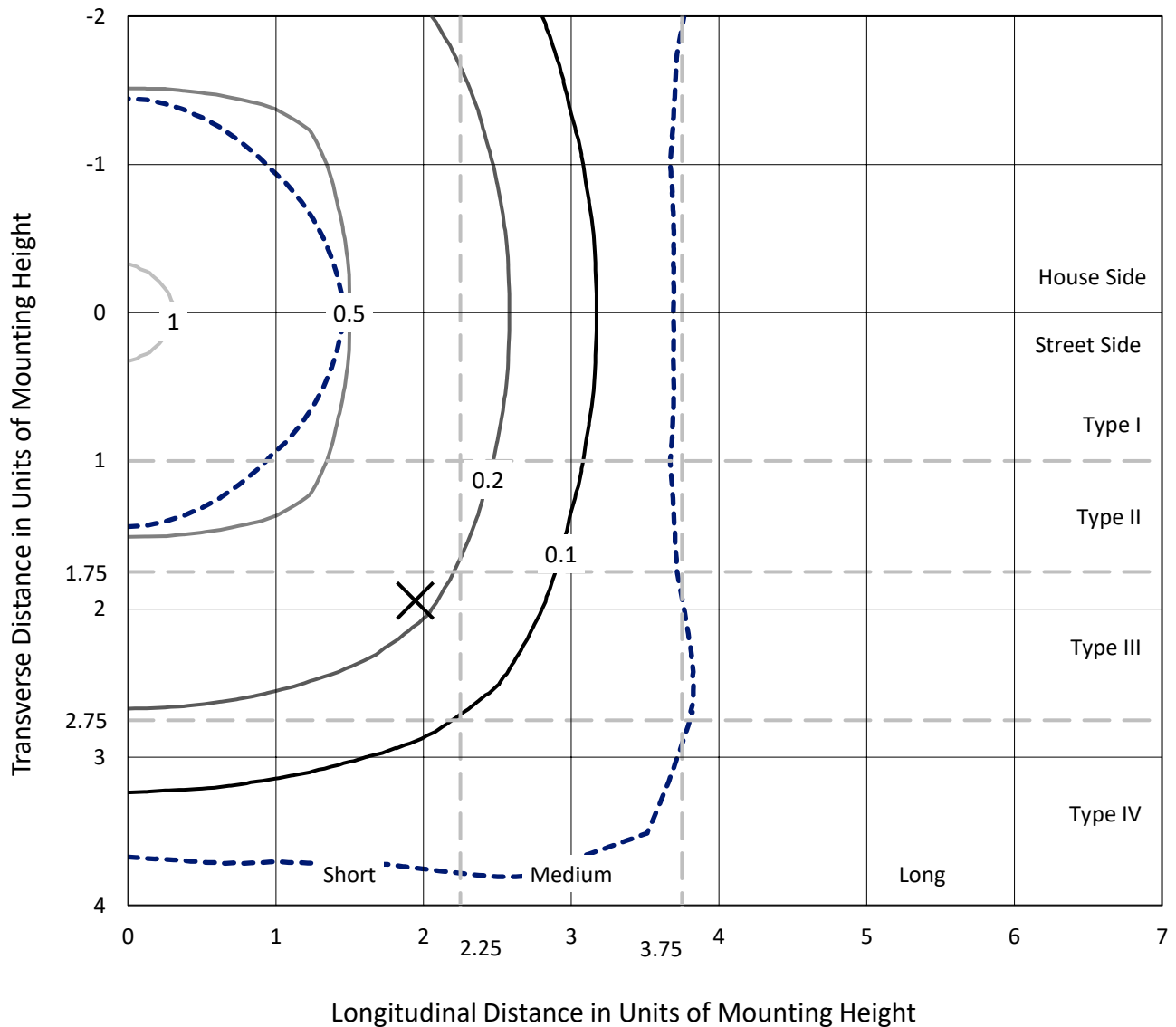
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

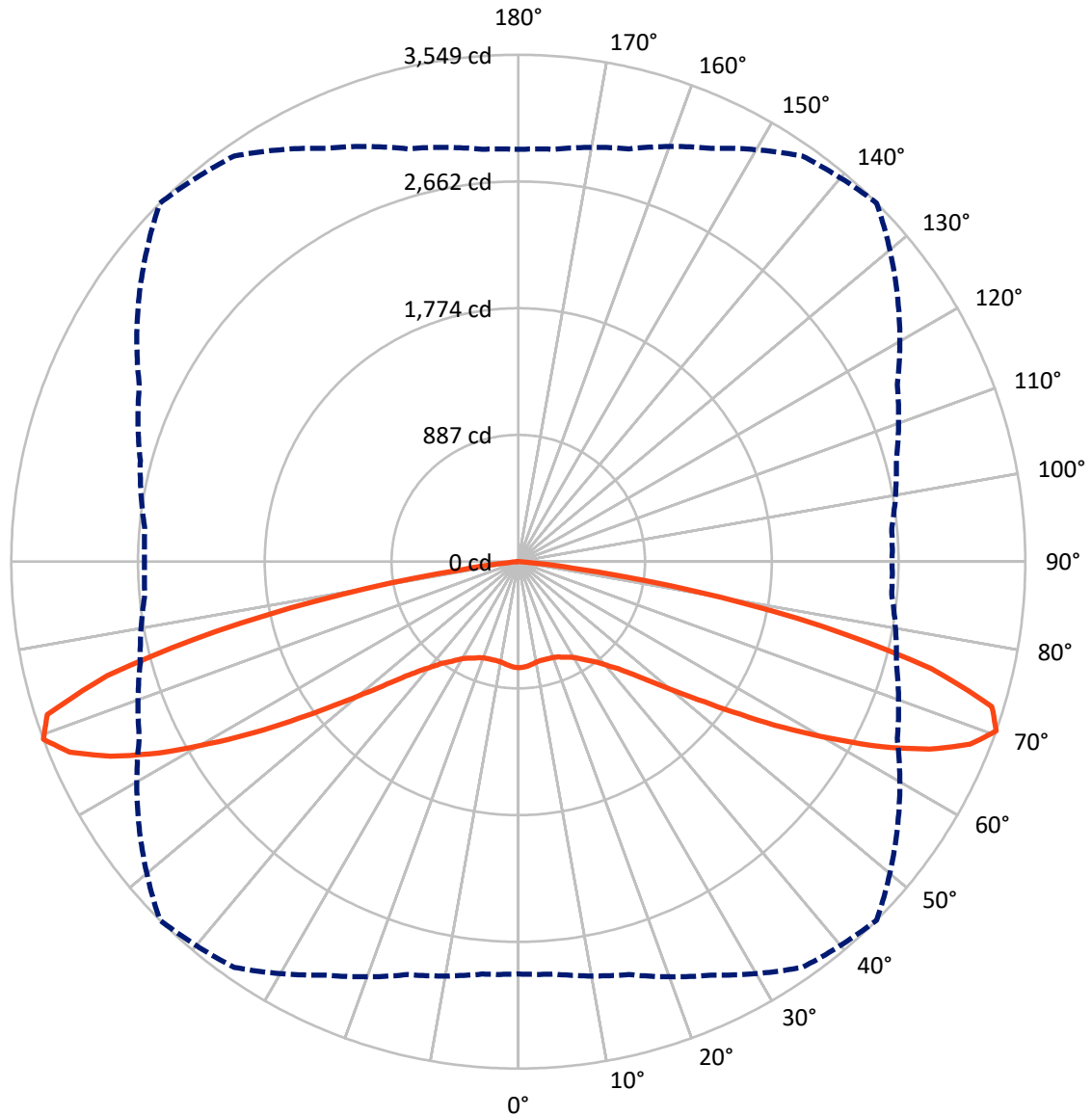
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4383.0	0.0	4383.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4383.0	0.0	4383.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8766.0	0.0	8766.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	0.8
10°-20°	203.2	2.3
20°-30°	346.2	3.9
30°-40°	536.6	6.1
40°-50°	903.1	10.3
50°-60°	1643.2	18.7
60°-70°	2781.9	31.7
70°-80°	2153.3	24.6
80°-90°	129.0	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°	8766.0	100.0
0°-180°	8766.0	100.0



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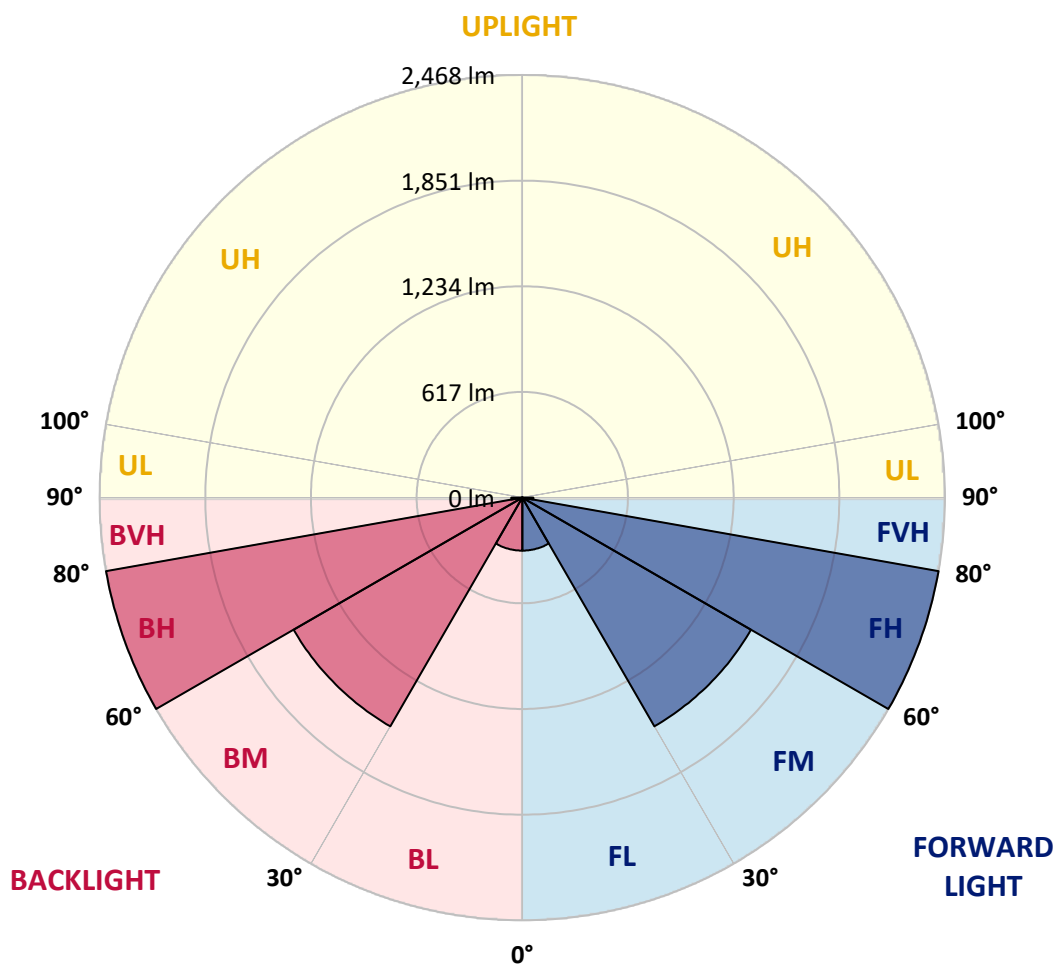
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	309.4	3.5			
FM (30°-60°)	1541.5	17.6			
FH (60°-80°)	2467.6	28.1			G2/5000
FVH (80°-90°)	64.5	0.7			G1/100
BL (0°-30°)	309.4	3.5	B1/500		
BM (30°-60°)	1541.5	17.6	B2/2500		
BH (60°-80°)	2467.6	28.1	B3/2500		G2/5000
BVH (80°-90°)	64.5	0.7			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1	742.1
2.5°	740.3	740.8	740.8	739.8	739.4	739.4	738.9	738.9	740.3	740.8	741.2
5°	733.8	733.8	733.8	733.4	732.4	732.4	731.5	731.5	732.0	733.4	732.4
7.5°	725.0	725.9	725.9	724.1	722.7	722.7	722.2	722.7	723.2	724.6	724.1
10°	722.2	722.7	720.4	717.1	714.8	713.4	713.9	714.8	717.1	718.1	718.5
12.5°	724.1	724.1	719.9	715.3	711.1	709.3	708.8	712.1	716.2	719.0	719.9
15°	726.4	725.5	720.4	714.4	710.2	709.7	709.3	711.6	717.6	723.2	723.6
17.5°	727.8	727.3	720.9	713.4	711.1	711.1	710.7	712.5	719.0	725.9	726.4
20°	732.4	731.0	723.6	715.8	713.9	714.8	713.4	715.8	722.7	731.0	732.9
22.5°	741.7	740.3	732.9	725.0	724.1	724.1	723.6	725.9	733.4	742.1	743.5
25°	752.8	751.4	744.5	738.9	739.8	741.7	740.8	741.2	747.2	754.6	757.0
27.5°	767.6	765.3	759.3	754.6	757.4	757.4	757.4	757.0	760.7	767.6	769.9
30°	785.7	784.7	778.3	777.8	780.1	777.8	777.8	778.3	778.7	785.2	787.5
32.5°	809.3	807.4	804.2	803.3	809.7	811.6	805.1	799.1	802.3	808.8	810.2
35°	848.2	845.4	840.8	835.7	840.8	849.6	835.7	831.0	839.4	848.2	849.1
37.5°	900.9	899.6	892.2	882.9	882.4	891.7	877.3	876.9	892.6	903.3	904.7
40°	967.2	968.5	959.3	950.5	945.9	953.3	942.2	946.3	961.6	973.6	972.7
42.5°	1060.2	1055.1	1040.8	1032.4	1027.3	1024.6	1021.8	1028.3	1045.4	1058.4	1068.5
45°	1169.0	1167.2	1149.1	1138.9	1127.8	1123.6	1122.7	1134.3	1155.1	1170.9	1172.3
47.5°	1292.2	1288.0	1276.4	1265.8	1261.6	1256.5	1251.9	1260.7	1281.5	1292.6	1295.9
50°	1419.0	1419.9	1419.9	1418.1	1422.3	1423.2	1410.7	1413.9	1425.5	1424.6	1423.6
52.5°	1563.9	1569.0	1593.1	1595.4	1615.3	1628.7	1606.1	1592.6	1588.5	1563.5	1565.3
55°	1734.3	1738.9	1775.0	1811.2	1864.9	1887.5	1839.9	1798.2	1768.6	1730.6	1732.5
57.5°	1946.8	1949.1	1983.4	2052.8	2138.0	2191.3	2107.5	2025.1	1964.9	1928.8	1914.4
60°	2175.5	2177.8	2227.8	2312.6	2445.0	2509.8	2406.1	2271.4	2195.4	2140.3	2144.0
62.5°	2450.1	2459.3	2504.2	2620.9	2781.6	2854.2	2716.7	2536.6	2433.9	2365.3	2368.1
65°	2744.1	2759.8	2808.9	2937.1	3085.3	3163.5	2995.0	2787.1	2659.3	2575.5	2584.3
67.5°	2934.8	2948.7	3019.5	3161.2	3345.9	3410.7	3193.1	2951.0	2791.3	2691.3	2672.8
70°	2886.2	2897.8	2992.2	3193.1	3466.8	3548.7	3240.4	2926.9	2739.0	2623.7	2616.3
72.5°	2547.8	2523.7	2661.6	2950.1	3328.8	3466.3	3091.7	2673.2	2436.6	2318.1	2304.2
75°	1688.5	1740.8	1944.5	2284.3	2816.3	2986.7	2639.0	2146.4	1848.7	1750.0	1734.8
77.5°	564.4	604.6	785.7	1294.9	1920.0	2176.0	1922.7	1403.7	993.1	800.0	803.7
80°	149.5	147.7	191.2	356.0	829.7	1260.2	965.8	475.5	260.2	188.4	178.7
82.5°	53.7	60.2	77.3	98.6	219.9	391.7	276.4	133.3	97.7	72.2	69.9
85°	23.6	23.1	33.3	39.4	55.1	73.2	64.8	56.5	49.5	32.9	30.6
87.5°	5.1	5.1	7.9	6.0	9.7	9.7	12.0	14.4	14.8	9.7	7.9
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)