

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: P452048

Luminaire Tested: **GALN-SA3A-727-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452048  
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-SA3A-727-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 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: 11949 lumens  
Efficiency: N/A  
Efficacy: 128.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

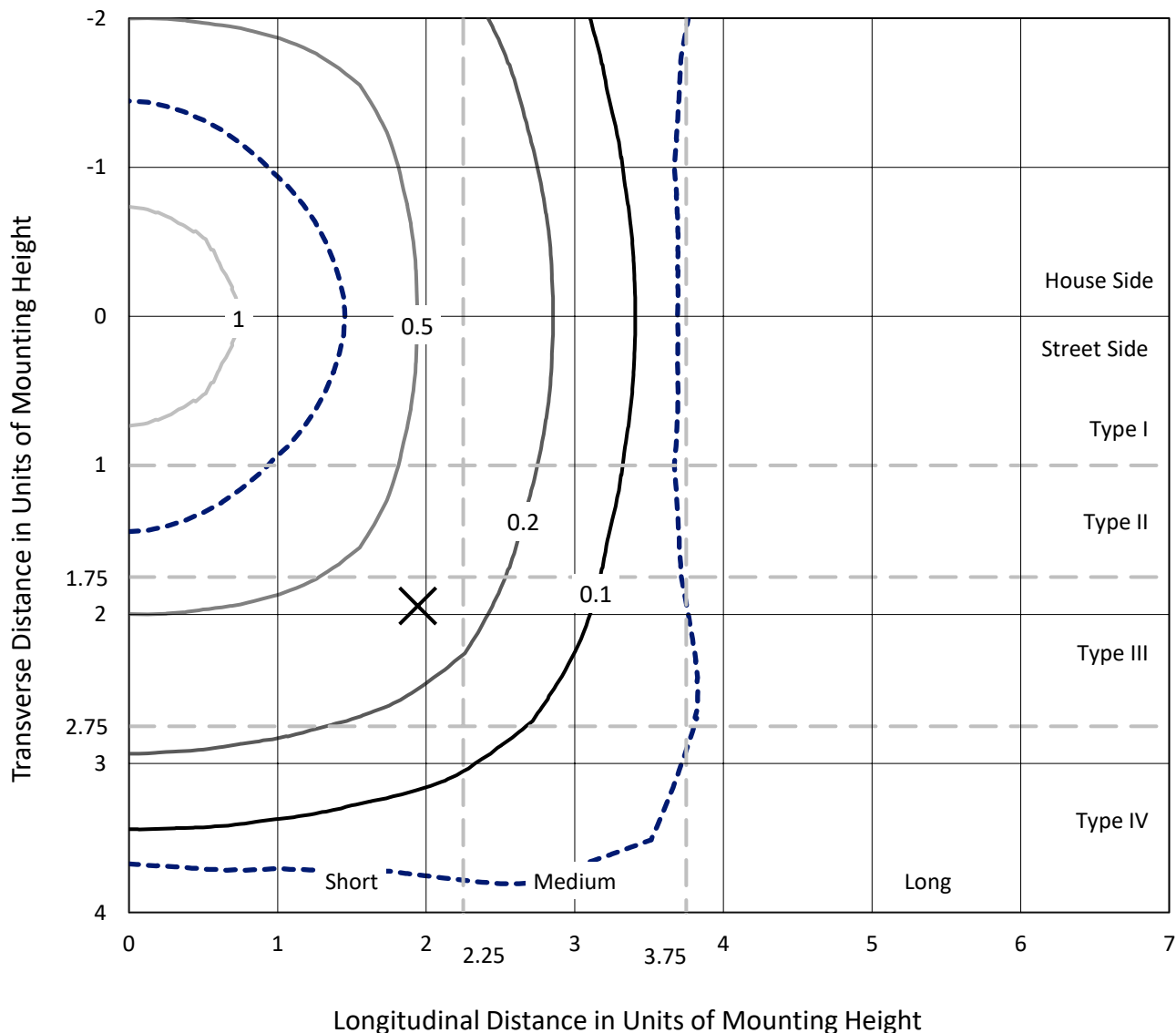
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

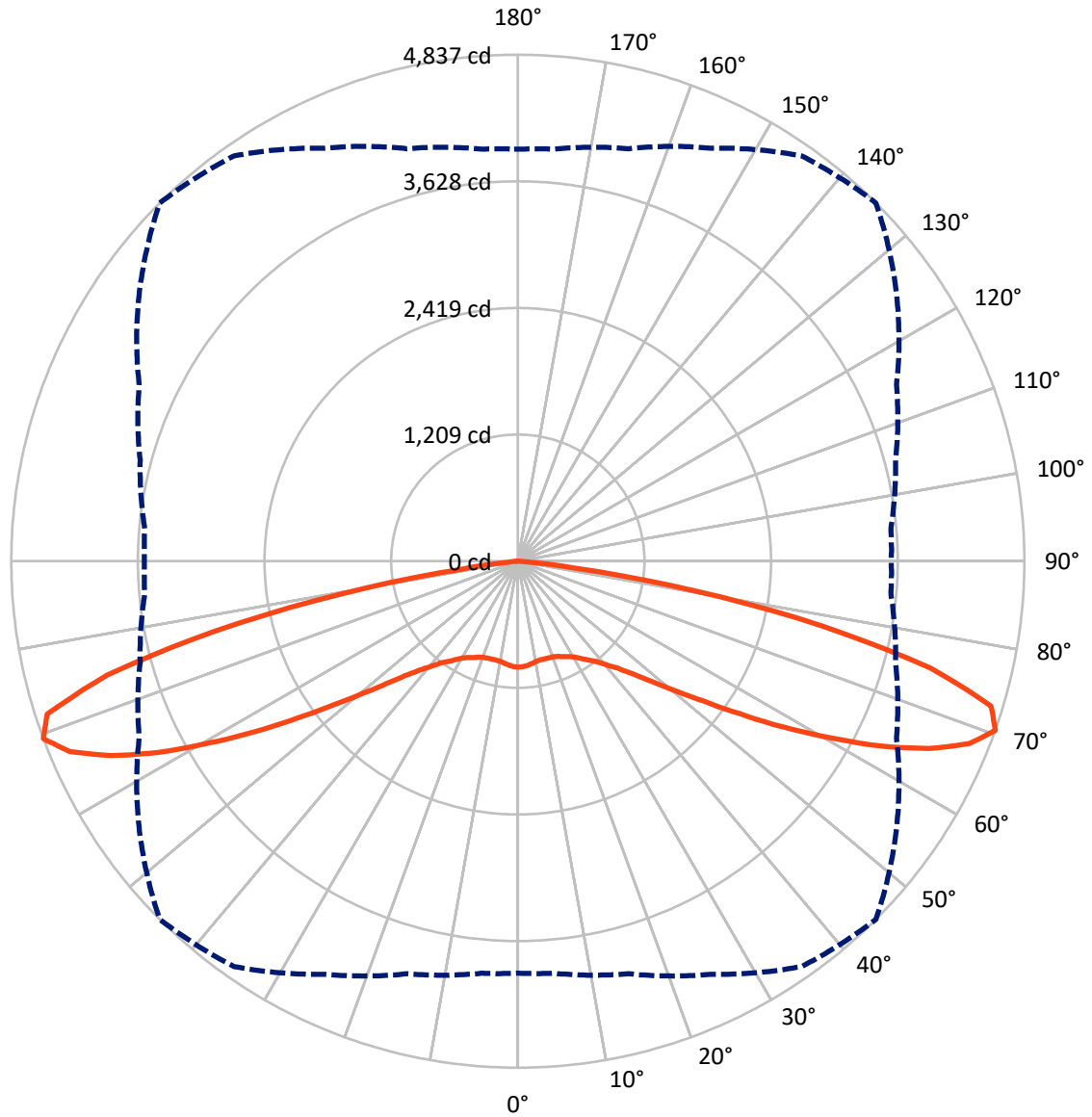
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 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	5974.5	0.0	5974.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5974.5	0.0	5974.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11949.0	0.0	11949.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.6	0.8
10°-20°	277.0	2.3
20°-30°	471.9	3.9
30°-40°	731.4	6.1
40°-50°	1231.1	10.3
50°-60°	2239.9	18.7
60°-70°	3792.1	31.7
70°-80°	2935.2	24.6
80°-90°	175.9	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°	11949.0	100.0
0°-180°	11949.0	100.0

**Coefficient of Utilization**



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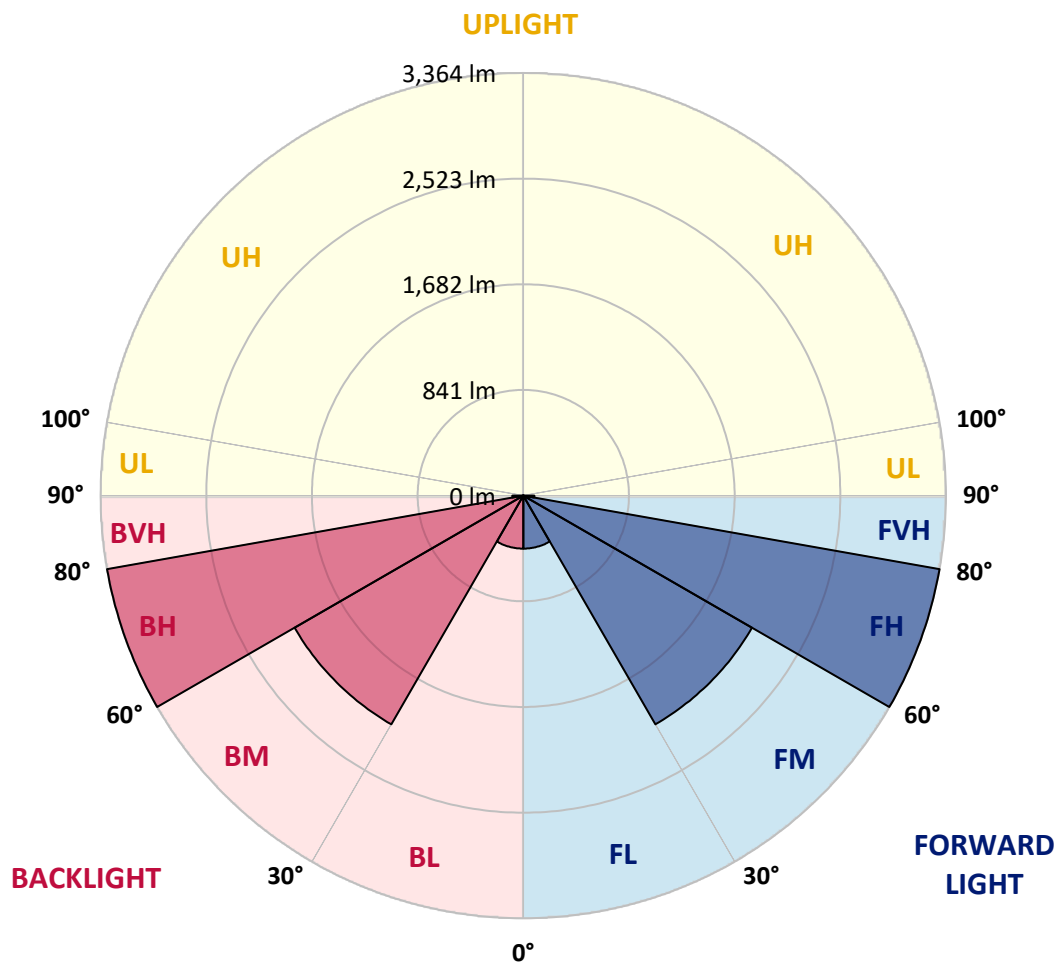
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	421.7	3.5			
FM (30°-60°)	2101.2	17.6			
FH (60°-80°)	3363.6	28.1			G2/5000
FVH (80°-90°)	87.9	0.7			G1/100
BL (0°-30°)	421.7	3.5	B1/500		
BM (30°-60°)	2101.2	17.6	B2/2500		
BH (60°-80°)	3363.6	28.1	B4/5000		G2/5000
BVH (80°-90°)	87.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1011.6	1011.6	1011.6	1011.6	1011.6	1011.6	1011.6	1011.6	1011.6	1011.6	1011.6
2.5°	1009.1	1009.7	1009.7	1008.5	1007.8	1007.8	1007.2	1007.2	1009.1	1009.7	1010.4
5°	1000.3	1000.3	1000.3	999.6	998.4	998.4	997.1	997.1	997.7	999.6	998.4
7.5°	988.3	989.5	989.5	987.0	985.1	985.1	984.5	985.1	985.8	987.6	987.0
10°	984.5	985.1	982.0	977.6	974.4	972.5	973.1	974.4	977.6	978.8	979.4
12.5°	987.0	987.0	981.3	975.0	969.3	966.8	966.2	970.6	976.3	980.1	981.3
15°	990.2	988.9	982.0	973.8	968.1	967.5	966.8	970.0	978.2	985.8	986.4
17.5°	992.1	991.4	982.6	972.5	969.3	969.3	968.7	971.2	980.1	989.5	990.2
20°	998.4	996.5	986.4	975.7	973.1	974.4	972.5	975.7	985.1	996.5	999.0
22.5°	1011.0	1009.1	999.0	988.3	987.0	987.0	986.4	989.5	999.6	1011.6	1013.5
25°	1026.1	1024.3	1014.8	1007.2	1008.5	1011.0	1009.7	1010.4	1018.6	1028.7	1031.8
27.5°	1046.3	1043.2	1035.0	1028.7	1032.5	1032.5	1032.5	1031.8	1036.9	1046.3	1049.5
30°	1071.0	1069.7	1060.9	1060.2	1063.4	1060.2	1060.2	1060.9	1061.5	1070.3	1073.5
32.5°	1103.1	1100.6	1096.2	1094.9	1103.8	1106.3	1097.5	1089.3	1093.7	1102.5	1104.4
35°	1156.1	1152.4	1146.1	1139.1	1146.1	1158.0	1139.1	1132.8	1144.2	1156.1	1157.4
37.5°	1228.1	1226.2	1216.1	1203.5	1202.8	1215.5	1195.9	1195.3	1216.7	1231.2	1233.1
40°	1318.3	1320.2	1307.6	1295.6	1289.3	1299.4	1284.3	1289.9	1310.8	1327.2	1325.9
42.5°	1445.2	1438.2	1418.7	1407.3	1400.4	1396.6	1392.8	1401.6	1425.0	1442.7	1456.5
45°	1593.5	1591.0	1566.4	1552.5	1537.3	1531.6	1530.4	1546.2	1574.6	1596.0	1597.9
47.5°	1761.4	1755.7	1739.9	1725.4	1719.7	1712.8	1706.5	1718.4	1746.8	1762.0	1766.4
50°	1934.3	1935.5	1935.5	1933.0	1938.7	1940.0	1922.9	1927.3	1943.1	1941.8	1940.6
52.5°	2131.8	2138.7	2171.6	2174.7	2201.9	2220.2	2189.2	2170.9	2165.3	2131.2	2133.7
55°	2364.0	2370.4	2419.6	2468.8	2542.0	2572.9	2507.9	2451.1	2410.7	2359.0	2361.5
57.5°	2653.7	2656.9	2703.6	2798.2	2914.4	2986.9	2872.7	2760.4	2678.3	2629.1	2609.5
60°	2965.5	2968.6	3036.8	3152.3	3332.8	3421.1	3279.7	3096.1	2992.6	2917.5	2922.6
62.5°	3339.7	3352.3	3413.5	3572.6	3791.6	3890.6	3703.2	3457.7	3317.6	3224.2	3228.0
65°	3740.4	3761.9	3828.8	4003.6	4205.6	4312.2	4082.5	3799.1	3625.0	3510.7	3522.7
67.5°	4000.4	4019.4	4115.9	4309.0	4560.9	4649.2	4352.6	4022.5	3804.8	3668.5	3643.3
70°	3934.2	3950.0	4078.7	4352.6	4725.6	4837.3	4417.0	3989.7	3733.5	3576.4	3566.3
72.5°	3472.9	3440.0	3628.1	4021.3	4537.5	4724.9	4214.4	3643.9	3321.4	3159.8	3140.9
75°	2301.6	2372.9	2650.6	3113.8	3838.9	4071.1	3597.2	2925.7	2519.9	2385.5	2364.7
77.5°	769.3	824.2	1071.0	1765.1	2617.1	2966.1	2620.9	1913.4	1353.7	1090.5	1095.6
80°	203.8	201.3	260.6	485.3	1130.9	1717.8	1316.4	648.1	354.7	256.9	243.6
82.5°	73.2	82.0	105.4	134.4	299.8	533.9	376.8	181.8	133.2	98.4	95.3
85°	32.2	31.6	45.4	53.6	75.1	99.7	88.4	77.0	67.5	44.8	41.7
87.5°	6.9	6.9	10.7	8.2	13.3	13.3	16.4	19.6	20.2	13.3	10.7
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)