

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: P451787

Luminaire Tested: **GALN-SA2D-722-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451787  
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-SA2D-722-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11969 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

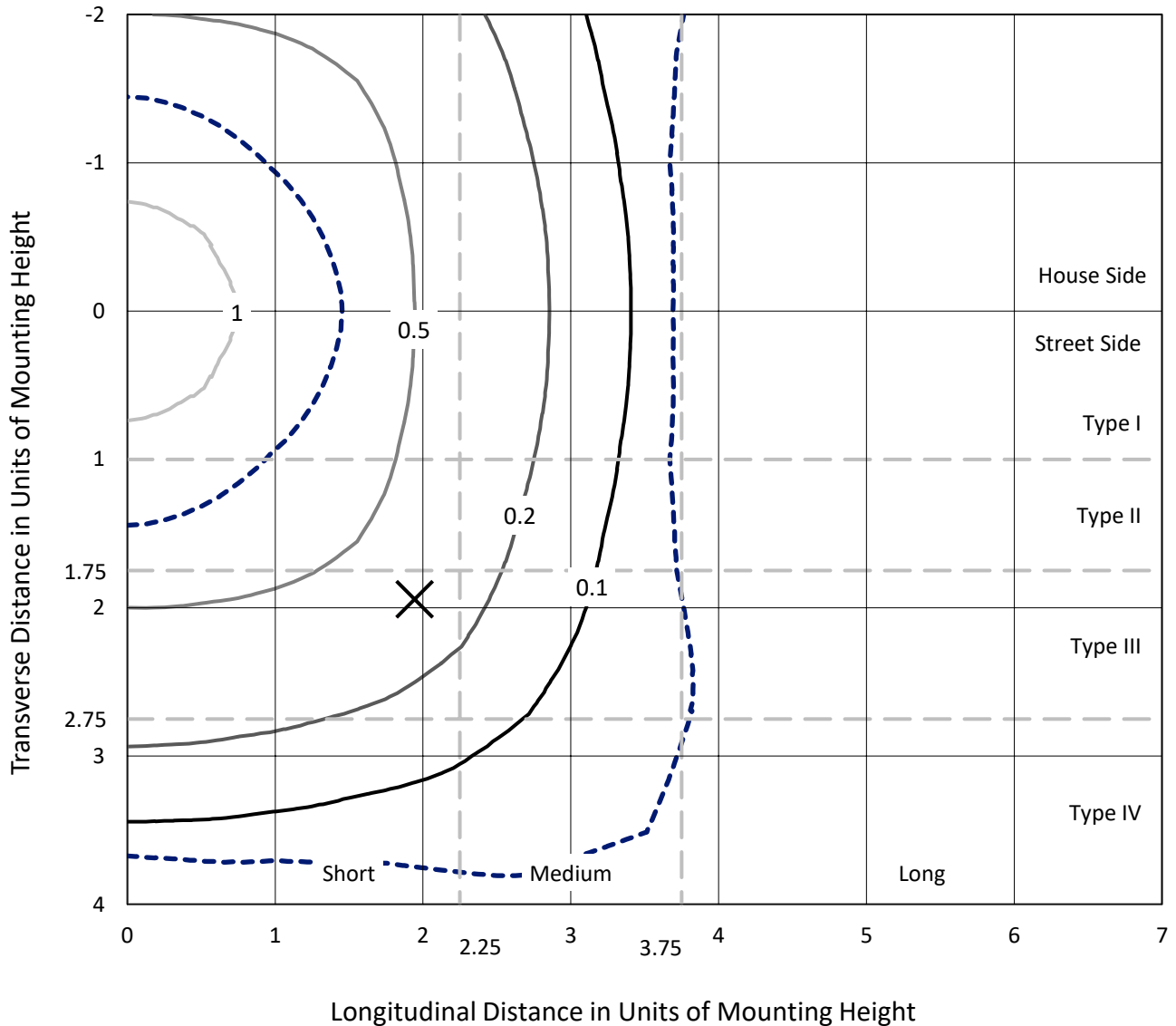
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

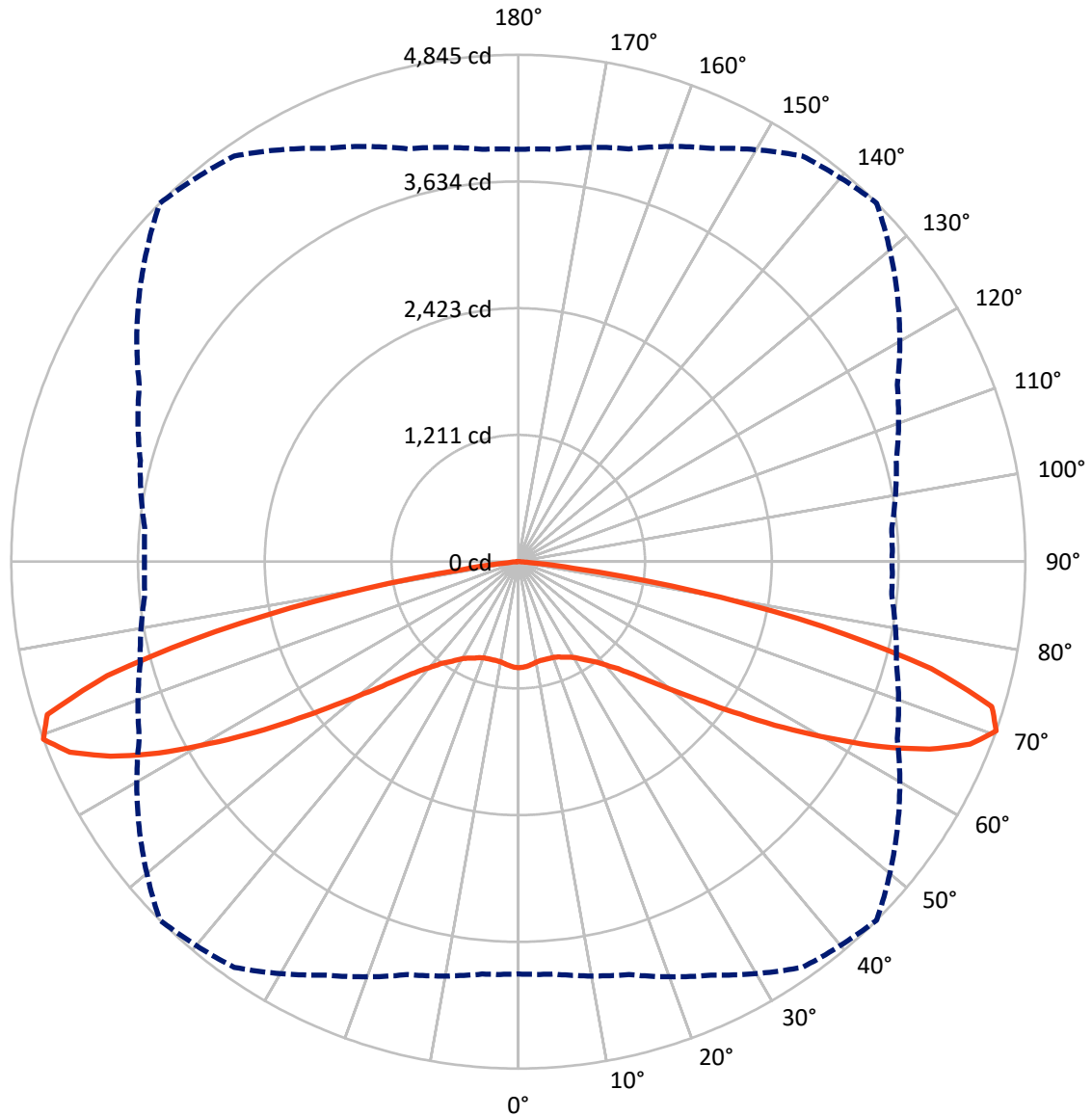
✕ Max cd  
 - - - 1/2 Max cd



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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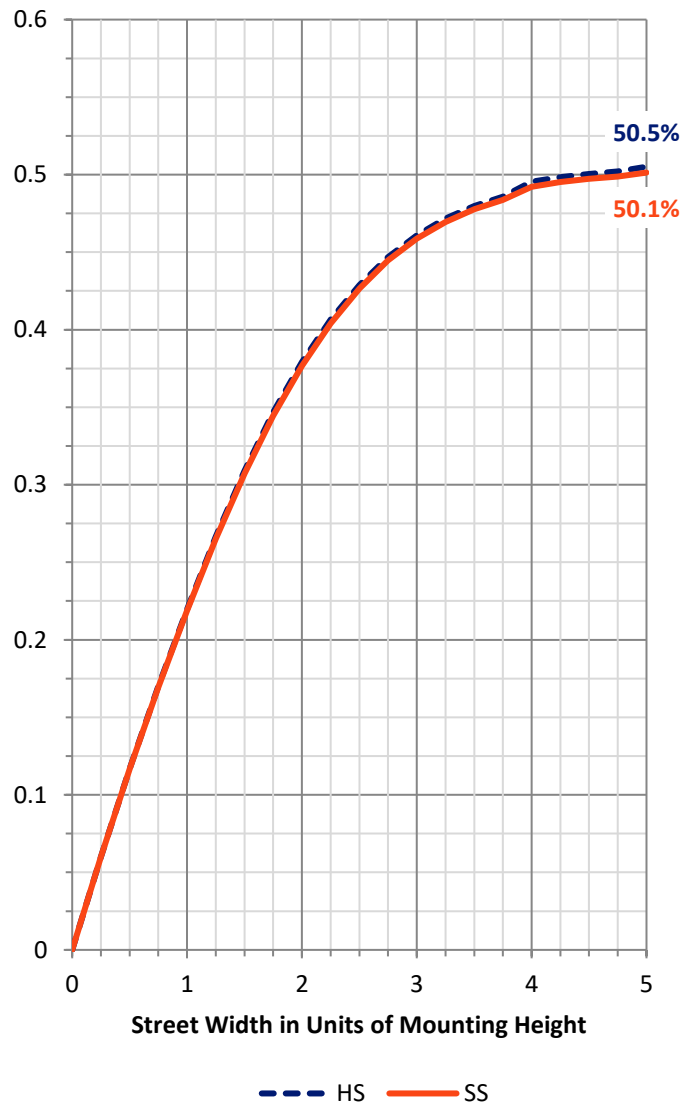
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5984.5	0.0	5984.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5984.5	0.0	5984.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	11969.0	0.0	11969.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.8	0.8
10°-20°	277.4	2.3
20°-30°	472.7	3.9
30°-40°	732.6	6.1
40°-50°	1233.1	10.3
50°-60°	2243.6	18.7
60°-70°	3798.4	31.7
70°-80°	2940.1	24.6
80°-90°	176.2	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°	11969.0	100.0
0°-180°	11969.0	100.0



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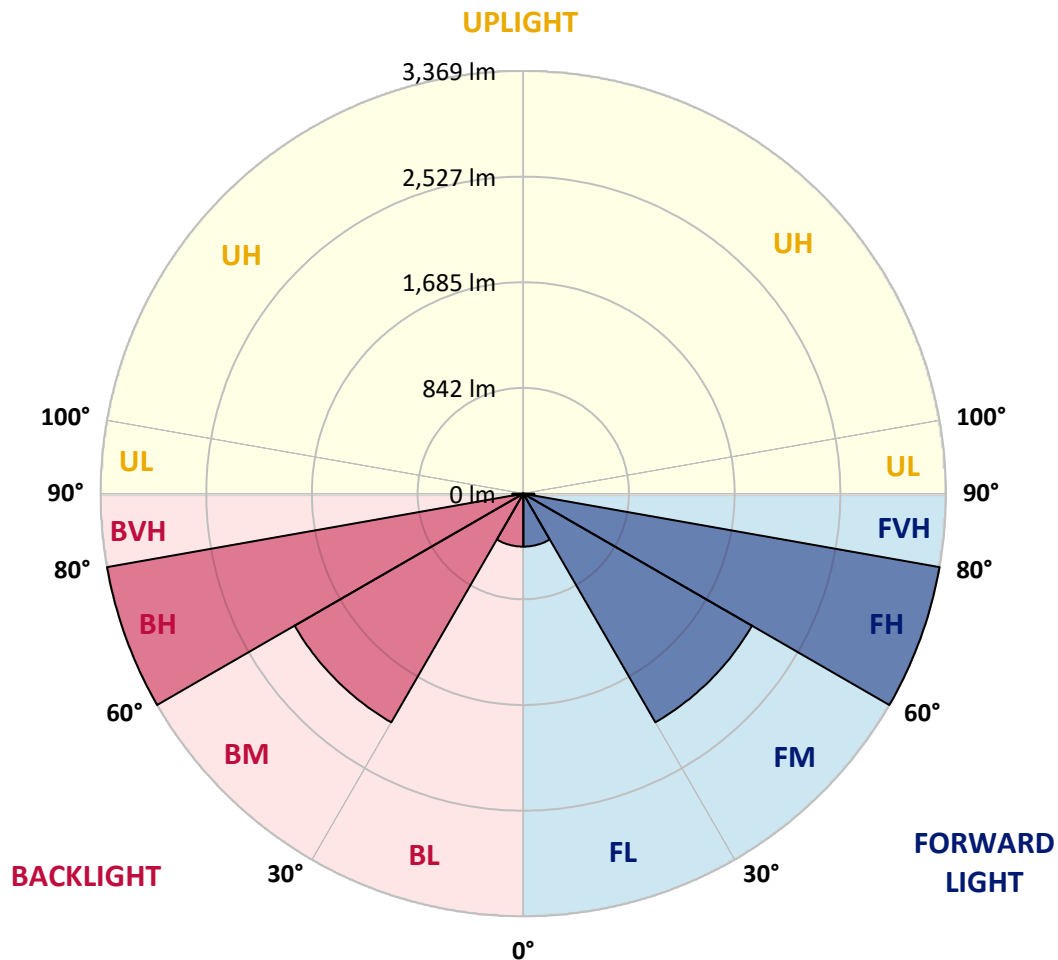
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.4	3.5			
FM (30°-60°)	2104.7	17.6			
FH (60°-80°)	3369.3	28.1			G2/5000
FVH (80°-90°)	88.1	0.7			G1/100
BL (0°-30°)	422.4	3.5	B1/500		
BM (30°-60°)	2104.7	17.6	B2/2500		
BH (60°-80°)	3369.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1013.3	1013.3	1013.3	1013.3	1013.3	1013.3	1013.3	1013.3	1013.3	1013.3	1013.3
2.5°	1010.8	1011.4	1011.4	1010.2	1009.5	1009.5	1008.9	1008.9	1010.8	1011.4	1012.1
5°	1001.9	1001.9	1001.9	1001.3	1000.0	1000.0	998.8	998.8	999.4	1001.3	1000.0
7.5°	989.9	991.2	991.2	988.7	986.8	986.8	986.1	986.8	987.4	989.3	988.7
10°	986.1	986.8	983.6	979.2	976.0	974.1	974.8	976.0	979.2	980.5	981.1
12.5°	988.7	988.7	983.0	976.7	971.0	968.4	967.8	972.2	977.9	981.7	983.0
15°	991.8	990.6	983.6	975.4	969.7	969.1	968.4	971.6	979.8	987.4	988.0
17.5°	993.7	993.1	984.2	974.1	971.0	971.0	970.3	972.9	981.7	991.2	991.8
20°	1000.0	998.2	988.0	977.3	974.8	976.0	974.1	977.3	986.8	998.2	1000.7
22.5°	1012.7	1010.8	1000.7	989.9	988.7	988.7	988.0	991.2	1001.3	1013.3	1015.2
25°	1027.9	1026.0	1016.5	1008.9	1010.2	1012.7	1011.4	1012.1	1020.3	1030.4	1033.6
27.5°	1048.1	1044.9	1036.7	1030.4	1034.2	1034.2	1034.2	1033.6	1038.6	1048.1	1051.3
30°	1072.7	1071.5	1062.6	1062.0	1065.2	1062.0	1062.0	1062.6	1063.3	1072.1	1075.3
32.5°	1105.0	1102.5	1098.0	1096.8	1105.6	1108.1	1099.3	1091.1	1095.5	1104.4	1106.2
35°	1158.1	1154.3	1148.0	1141.0	1148.0	1160.0	1141.0	1134.7	1146.1	1158.1	1159.3
37.5°	1230.1	1228.3	1218.1	1205.5	1204.9	1217.5	1197.9	1197.3	1218.8	1233.3	1235.2
40°	1320.5	1322.4	1309.8	1297.8	1291.5	1301.6	1286.4	1292.1	1313.0	1329.4	1328.1
42.5°	1447.6	1440.6	1421.1	1409.7	1402.7	1398.9	1395.1	1404.0	1427.4	1445.1	1459.0
45°	1596.2	1593.6	1569.0	1555.1	1539.9	1534.2	1532.9	1548.7	1577.2	1598.7	1600.6
47.5°	1764.3	1758.6	1742.8	1728.3	1722.6	1715.6	1709.3	1721.3	1749.8	1764.9	1769.4
50°	1937.5	1938.8	1938.8	1936.2	1941.9	1943.2	1926.1	1930.6	1946.4	1945.1	1943.8
52.5°	2135.4	2142.3	2175.2	2178.4	2205.5	2223.9	2192.9	2174.6	2168.9	2134.7	2137.3
55°	2368.0	2374.3	2423.6	2472.9	2546.3	2577.2	2512.1	2455.2	2414.8	2362.9	2365.5
57.5°	2658.2	2661.3	2708.1	2802.9	2919.2	2991.9	2877.5	2765.0	2682.8	2633.5	2613.9
60°	2970.4	2973.6	3041.9	3157.5	3338.3	3426.8	3285.2	3101.3	2997.6	2922.4	2927.4
62.5°	3345.3	3357.9	3419.3	3578.6	3797.9	3897.2	3709.4	3463.5	3323.2	3229.6	3233.4
65°	3746.7	3768.2	3835.2	4010.3	4212.6	4319.4	4089.3	3805.5	3631.0	3516.6	3528.6
67.5°	4007.1	4026.1	4122.8	4316.3	4568.5	4657.0	4359.9	4029.3	3811.2	3674.6	3649.4
70°	3940.8	3956.6	4085.5	4359.9	4733.5	4845.4	4424.4	3996.4	3739.7	3582.3	3572.2
72.5°	3478.7	3445.8	3634.2	4028.0	4545.1	4732.8	4221.4	3650.0	3327.0	3165.1	3146.2
75°	2305.4	2376.9	2655.0	3119.0	3845.3	4077.9	3603.2	2930.6	2524.1	2389.5	2368.6
77.5°	770.6	825.6	1072.7	1768.1	2621.5	2971.1	2625.3	1916.7	1355.9	1092.3	1097.4
80°	204.2	201.7	261.1	486.1	1132.8	1720.7	1318.6	649.2	355.3	257.3	244.0
82.5°	73.3	82.2	105.6	134.6	300.3	534.8	377.4	182.1	133.4	98.6	95.5
85°	32.2	31.6	45.5	53.7	75.2	99.9	88.5	77.1	67.6	44.9	41.7
87.5°	7.0	7.0	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)