

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: P527597

Luminaire Tested: **GALN-SA2C-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P527597  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-827-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6237 lumens  
Efficiency: N/A  
Efficacy: 57.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G0

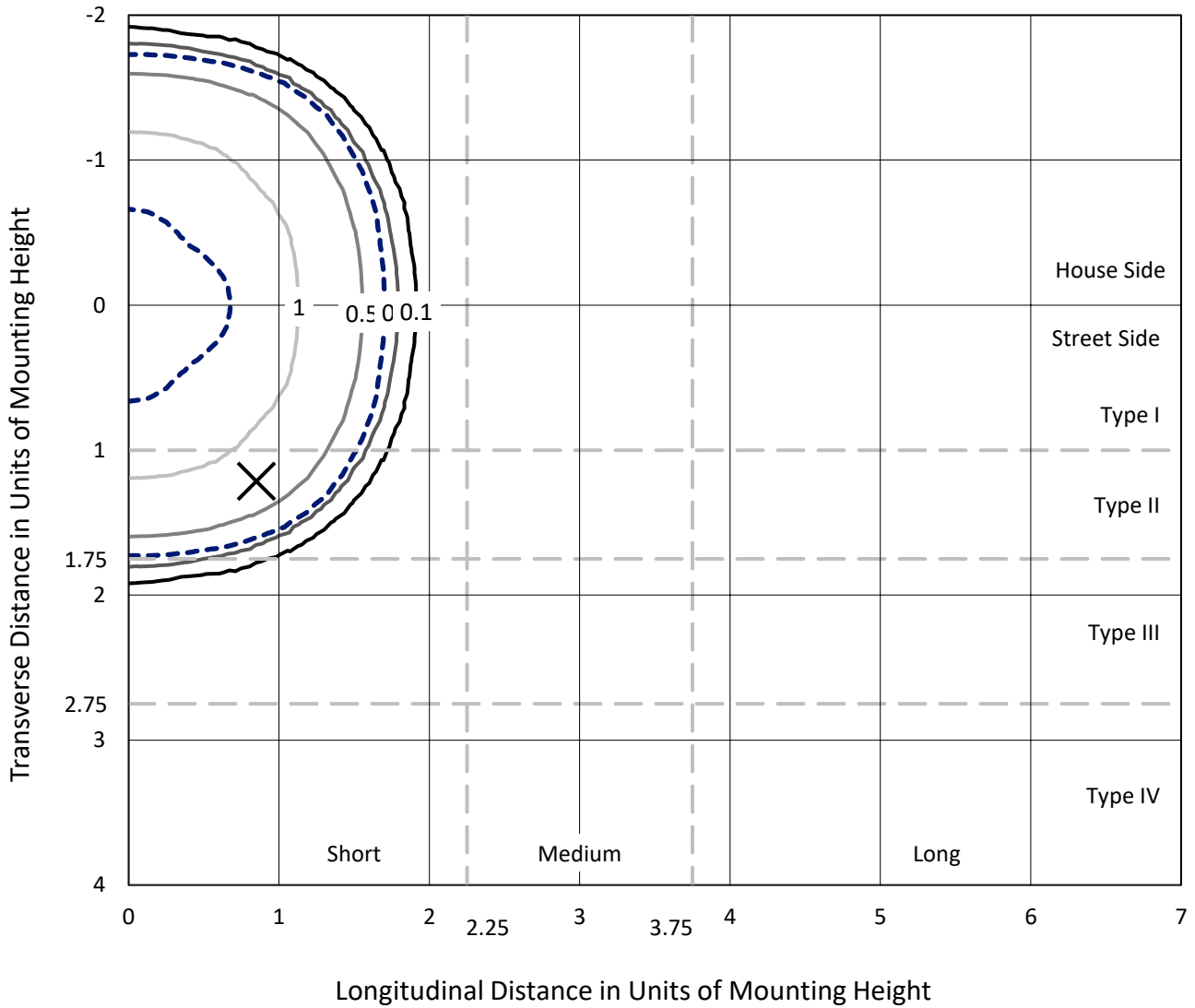
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

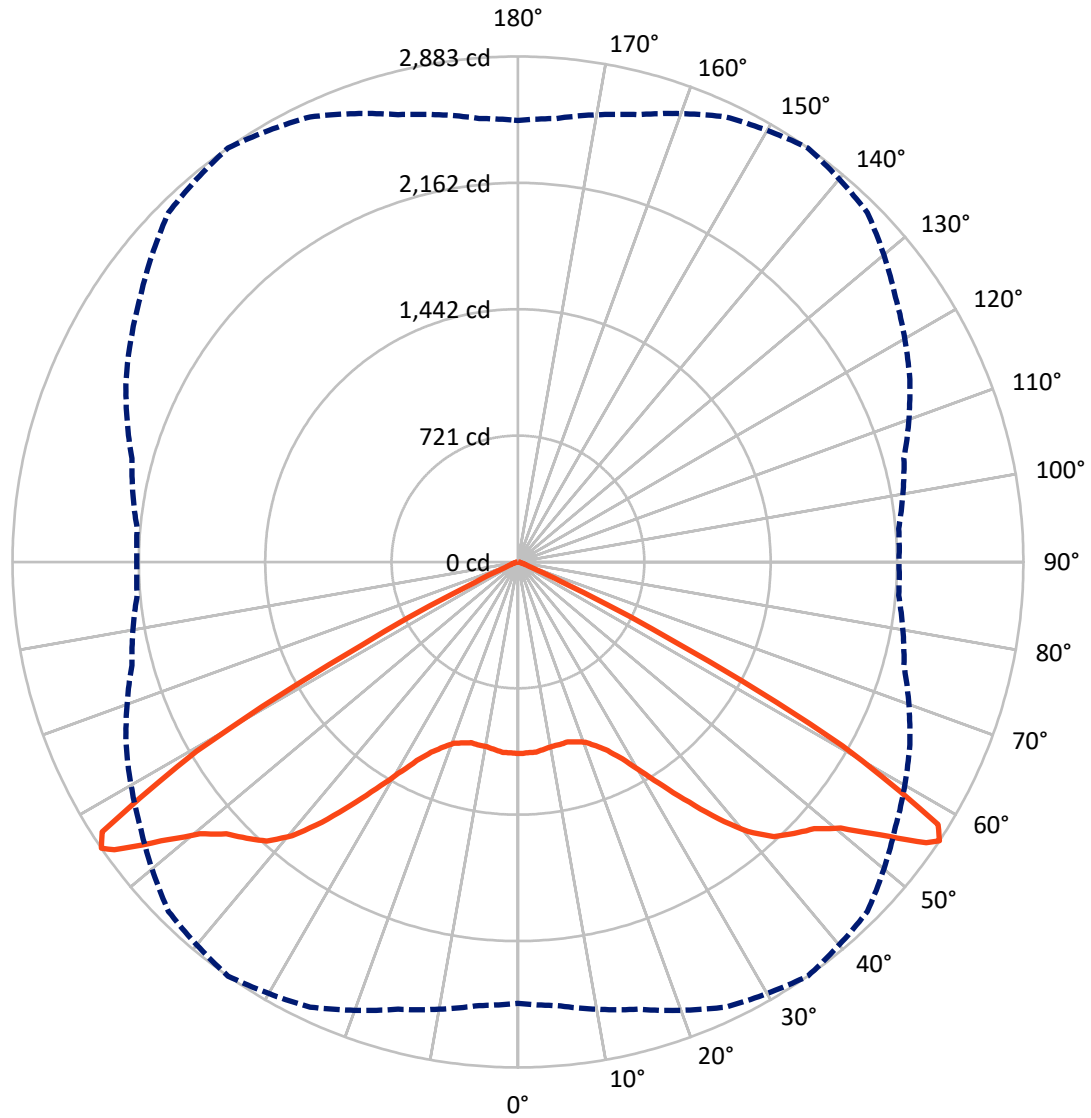
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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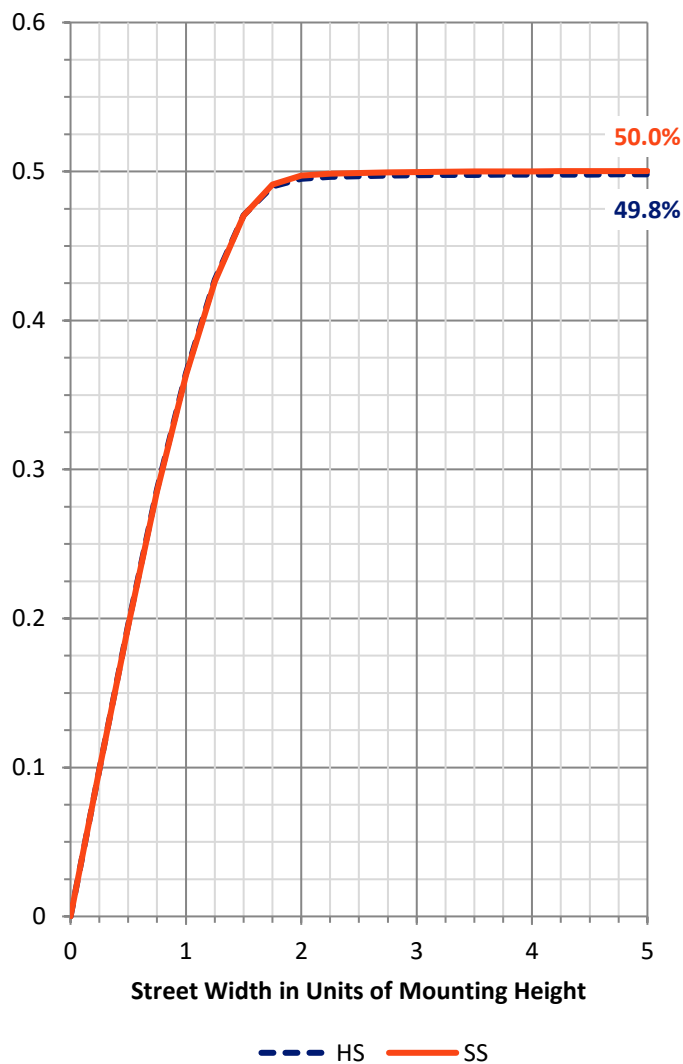
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3118.5	0.0	3118.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3118.5	0.0	3118.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6237.0	0.0	6237.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.7	1.6
10°-20°	299.9	4.8
20°-30°	543.0	8.7
30°-40°	1007.0	16.1
40°-50°	1652.8	26.5
50°-60°	2129.4	34.1
60°-70°	469.3	7.5
70°-80°	27.2	0.4
80°-90°	5.7	0.1
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°	6237.0	100.0
0°-180°	6237.0	100.0

**Coefficient of Utilization**



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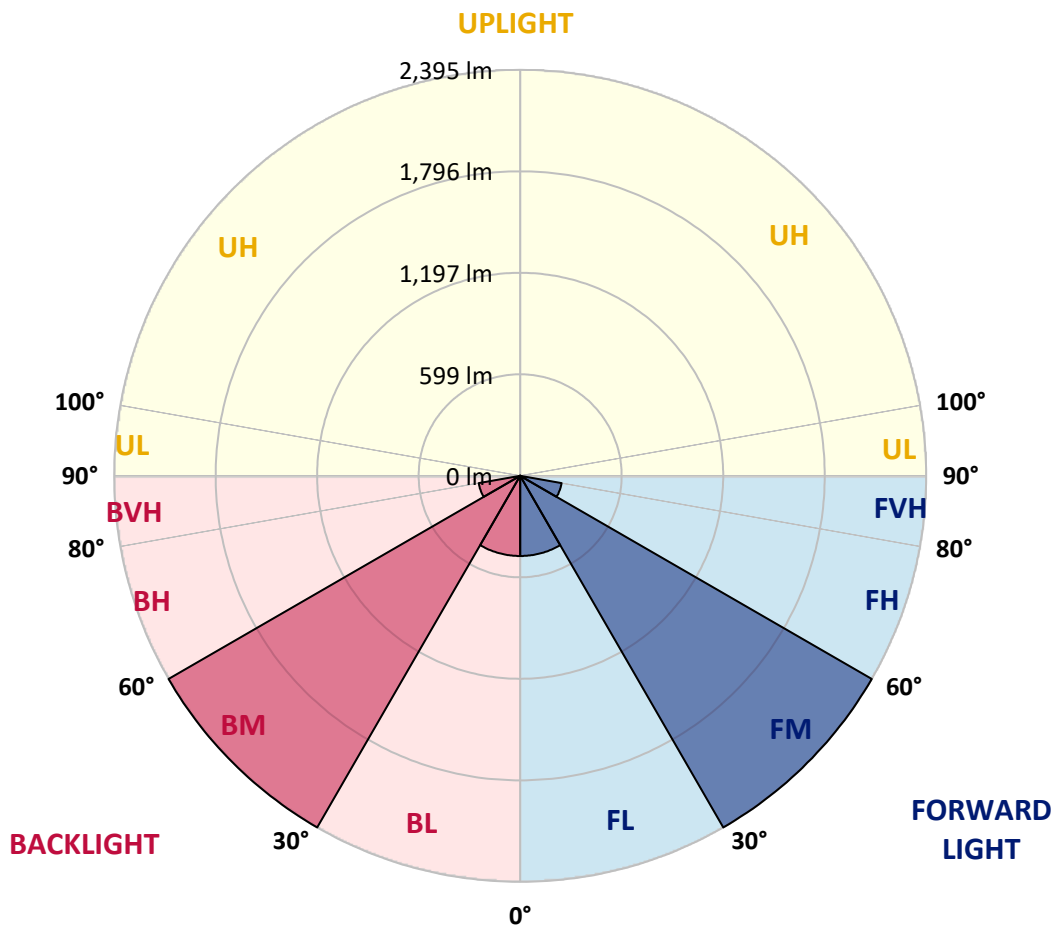
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	472.8	7.6			
FM (30°-60°)	2394.6	38.4			
FH (60°-80°)	248.3	4.0			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	472.8	7.6	B1/500		
BM (30°-60°)	2394.6	38.4	B2/2500		
BH (60°-80°)	248.3	4.0	B1/500		G0/660
BVH (80°-90°)	2.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9	1092.9
2.5°	1095.1	1095.1	1096.2	1097.4	1089.5	1086.1	1087.2	1084.9	1083.8	1087.2	1087.2
5°	1091.7	1091.7	1088.3	1089.5	1089.5	1079.3	1079.3	1081.6	1081.6	1074.8	1072.5
7.5°	1082.7	1080.4	1075.9	1081.6	1078.2	1078.2	1070.3	1064.6	1062.3	1066.9	1062.3
10°	1063.5	1064.6	1069.1	1071.4	1069.1	1075.9	1062.3	1054.4	1046.5	1043.1	1043.1
12.5°	1054.4	1061.2	1054.4	1060.1	1068.0	1062.3	1054.4	1048.8	1037.5	1033.0	1033.0
15°	1053.3	1057.8	1060.1	1068.0	1064.6	1066.9	1051.0	1044.3	1027.3	1019.4	1016.0
17.5°	1052.2	1057.8	1061.2	1075.9	1078.2	1079.3	1066.9	1046.5	1031.8	1023.9	1016.0
20°	1064.6	1066.9	1073.6	1088.3	1097.4	1113.2	1090.6	1069.1	1037.5	1028.4	1025.0
22.5°	1080.4	1091.7	1098.5	1114.3	1138.1	1151.6	1122.2	1095.1	1062.3	1051.0	1037.5
25°	1131.3	1129.0	1140.3	1173.1	1192.3	1202.5	1178.7	1139.2	1096.2	1082.7	1084.9
27.5°	1194.6	1196.8	1207.0	1243.2	1271.4	1287.2	1259.0	1207.0	1165.2	1142.6	1140.3
30°	1277.1	1274.8	1286.1	1334.7	1385.6	1409.3	1359.6	1298.5	1257.9	1228.5	1235.3
32.5°	1364.1	1365.2	1396.9	1440.9	1523.4	1569.8	1489.5	1414.9	1353.9	1333.6	1323.4
35°	1492.9	1498.6	1523.4	1591.3	1682.8	1742.7	1654.5	1565.3	1495.2	1457.9	1462.4
37.5°	1652.3	1646.6	1688.4	1761.9	1858.0	1902.0	1827.5	1725.7	1654.5	1629.7	1645.5
40°	1821.8	1827.5	1848.9	1915.6	2023.0	2052.4	1941.6	1886.2	1824.1	1811.6	1830.8
42.5°	1991.3	1987.9	2003.8	2063.7	2141.6	2121.3	2055.7	2023.0	1978.9	1954.0	1980.0
45°	2115.6	2110.0	2139.4	2180.1	2208.3	2169.9	2140.5	2129.2	2106.6	2079.5	2103.2
47.5°	2236.6	2232.0	2260.3	2271.6	2273.9	2223.0	2228.7	2249.0	2192.5	2136.0	2163.1
50°	2339.4	2331.5	2366.5	2391.4	2385.7	2304.4	2324.7	2304.4	2216.2	2149.5	2139.4
52.5°	2511.2	2514.6	2551.9	2597.1	2583.5	2515.7	2486.3	2393.7	2280.6	2220.7	2185.7
55°	2619.7	2602.7	2667.2	2810.7	2826.5	2756.4	2626.5	2489.7	2320.2	2246.7	2237.7
56°	2518.0	2539.5	2641.2	2801.6	2883.0	2818.6	2629.9	2466.0	2279.5	2180.1	2173.3
57.5°	2259.2	2247.9	2385.7	2605.0	2826.5	2799.4	2537.2	2296.5	2079.5	1967.6	1954.0
60°	1405.9	1438.7	1559.6	1830.8	2126.9	2140.5	1880.6	1673.8	1420.6	1321.1	1344.9
62.5°	550.4	522.1	597.9	800.1	1003.6	1048.8	950.5	790.0	648.7	550.4	543.6
65°	127.7	124.3	140.1	193.3	270.1	313.1	297.2	213.6	157.1	149.2	137.9
67.5°	72.3	72.3	68.9	68.9	75.7	80.2	76.9	75.7	79.1	82.5	81.4
70°	50.9	49.7	47.5	48.6	46.3	46.3	49.7	55.4	59.9	59.9	61.0
72.5°	30.5	30.5	30.5	33.9	33.9	33.9	37.3	41.8	42.9	41.8	40.7
75°	13.6	13.6	15.8	19.2	21.5	22.6	26.0	28.3	30.5	28.3	26.0
77.5°	3.4	3.4	5.7	7.9	10.2	12.4	17.0	20.3	21.5	20.3	17.0
80°	1.1	1.1	2.3	5.7	10.2	12.4	17.0	18.1	19.2	17.0	13.6
82.5°	1.1	1.1	2.3	5.7	7.9	10.2	13.6	15.8	17.0	14.7	13.6
85°	0.0	1.1	2.3	4.5	6.8	9.0	9.0	6.8	5.7	3.4	4.5
87.5°	0.0	0.0	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)