

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: P450655

Luminaire Tested: **GALN-SA1C-727-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450655  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-727-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6209 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

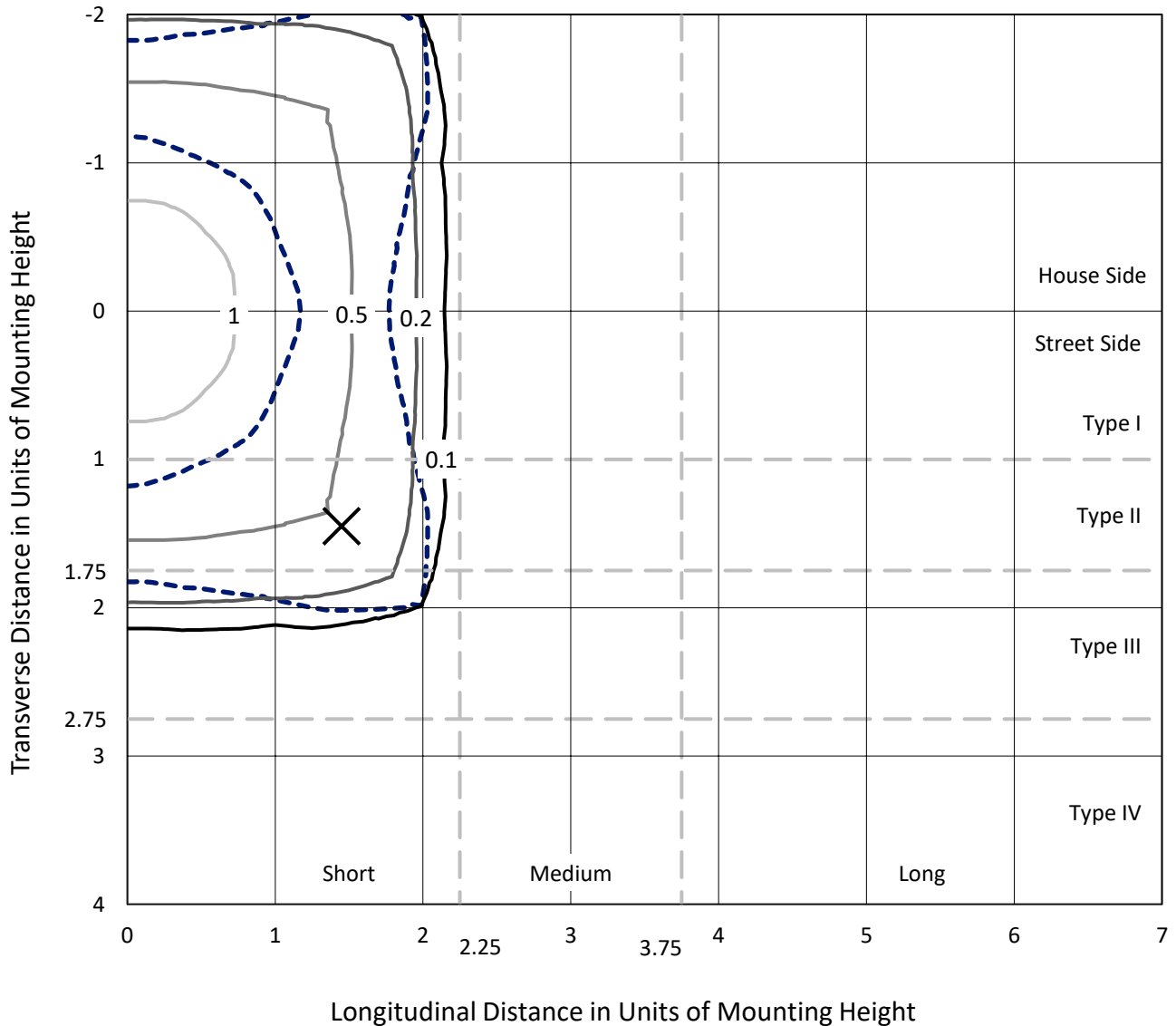
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

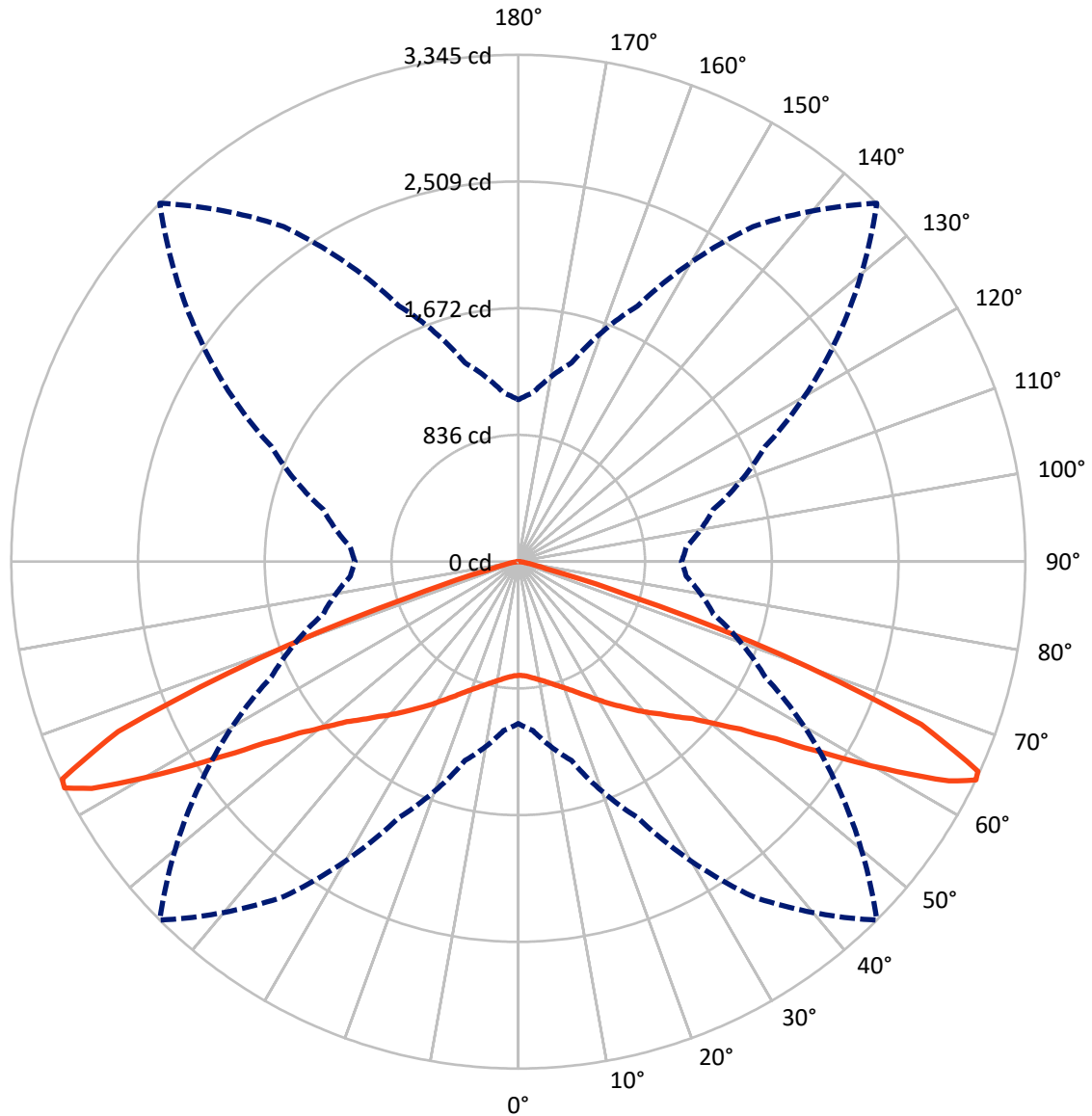
× Max cd  
 - - - 1/2 Max cd



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 64-Deg Vertical

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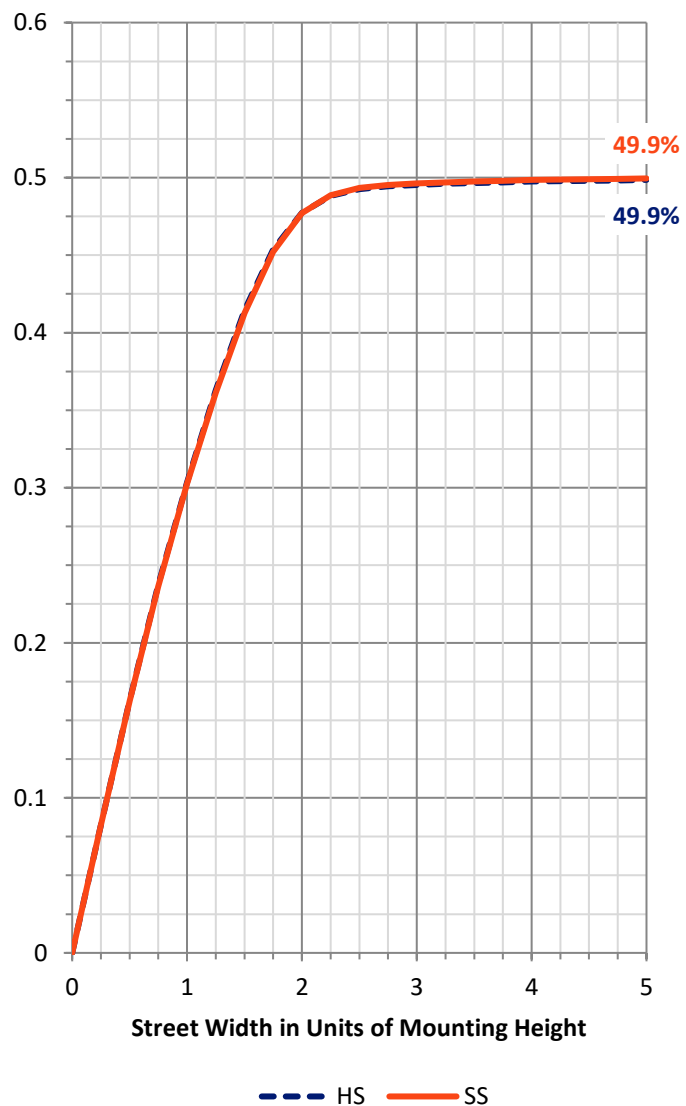
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3104.5	0.0	3104.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3104.5	0.0	3104.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6209.0	0.0	6209.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.7	1.2
10°-20°	237.8	3.8
20°-30°	449.4	7.2
30°-40°	744.3	12.0
40°-50°	1161.9	18.7
50°-60°	1796.3	28.9
60°-70°	1548.9	24.9
70°-80°	175.5	2.8
80°-90°	21.0	0.3
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°	6209.0	100.0
0°-180°	6209.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P450655

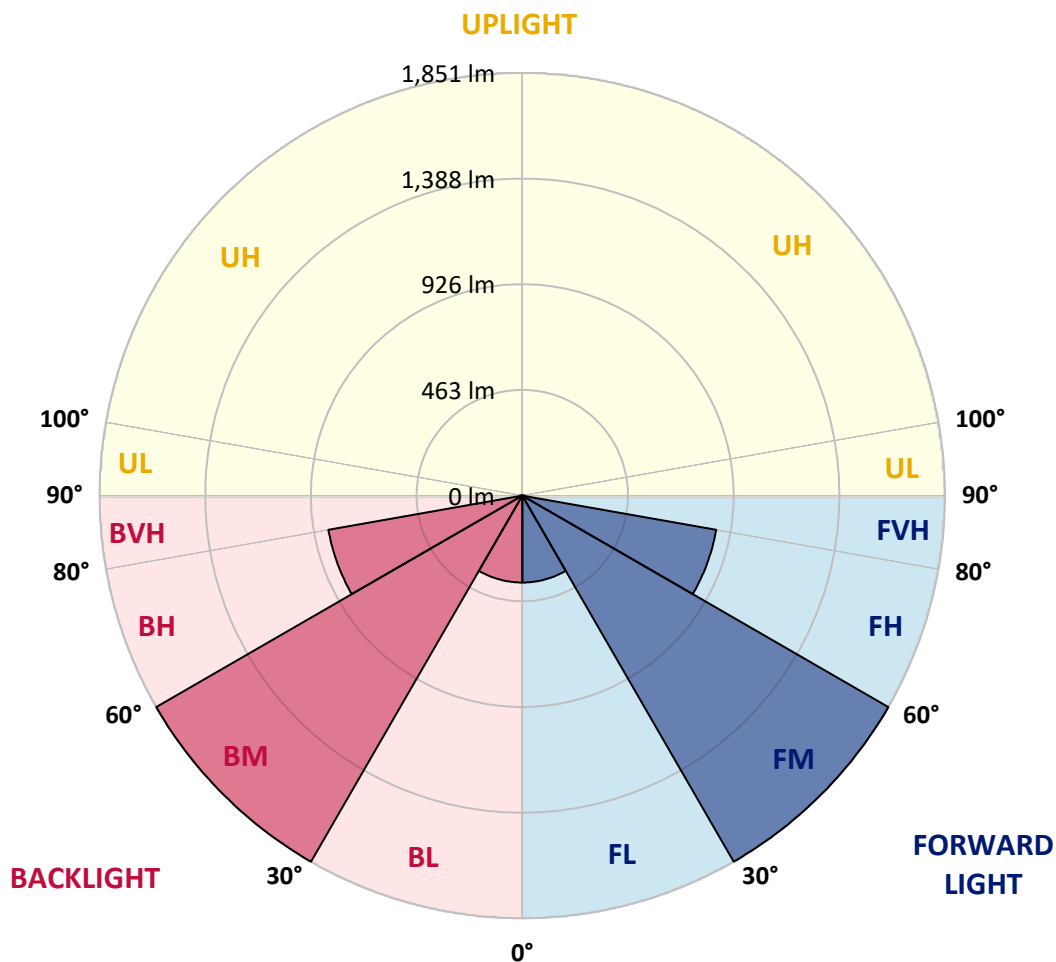
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	380.5	6.1			
FM (30°-60°)	1851.3	29.8			
FH (60°-80°)	862.2	13.9			G1/1800
FVH (80°-90°)	10.5	0.2			G1/100
BL (0°-30°)	380.5	6.1	B1/500		
BM (30°-60°)	1851.3	29.8	B2/2500		
BH (60°-80°)	862.2	13.9	B2/1000		G1/1800
BVH (80°-90°)	10.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	750.5	750.5	750.5	750.5	750.5	750.5	750.5	750.5	750.5	750.5	750.5
2.5°	753.4	755.1	753.8	753.4	753.1	753.1	753.1	753.4	754.7	755.7	755.1
5°	763.0	764.3	763.6	763.3	763.0	763.3	762.6	762.3	763.3	763.3	763.0
7.5°	774.8	776.4	775.8	776.4	776.8	777.1	775.5	774.1	773.8	774.8	774.1
10°	790.9	792.2	792.6	792.9	793.5	793.2	791.2	788.9	788.6	788.3	788.0
12.5°	809.0	810.0	810.3	811.6	812.6	812.9	810.6	808.7	805.4	806.0	804.7
15°	829.4	831.4	831.0	833.0	835.6	836.3	834.0	830.7	827.7	826.1	825.1
17.5°	854.4	855.7	855.0	857.0	860.3	861.9	860.0	855.7	852.7	849.1	847.1
20°	884.0	886.3	886.9	886.9	889.9	891.5	888.6	887.3	882.7	880.0	878.4
22.5°	917.5	918.5	920.5	922.5	925.4	924.8	923.8	921.8	917.5	915.2	912.6
25°	955.3	956.3	961.3	965.5	966.5	965.9	964.6	963.6	959.6	954.4	952.4
27.5°	999.4	1001.4	1008.0	1011.9	1011.9	1012.2	1009.6	1012.9	1004.3	998.1	997.4
30°	1054.7	1056.0	1061.6	1065.5	1063.5	1061.9	1061.2	1064.5	1055.3	1044.1	1041.5
32.5°	1109.3	1113.9	1118.8	1127.3	1120.4	1117.5	1116.8	1119.1	1108.6	1096.1	1092.5
35°	1167.8	1171.1	1180.3	1187.5	1181.3	1174.4	1177.3	1184.6	1172.1	1155.3	1154.6
37.5°	1232.6	1235.5	1247.4	1254.9	1250.3	1238.5	1243.4	1252.0	1239.5	1218.8	1214.5
40°	1300.0	1306.2	1321.0	1328.9	1321.4	1305.6	1314.8	1324.0	1312.8	1288.8	1279.3
42.5°	1375.6	1385.5	1406.9	1410.8	1396.3	1375.0	1391.1	1405.9	1398.0	1370.4	1366.7
45°	1464.1	1470.0	1496.3	1504.9	1484.8	1458.2	1478.2	1505.2	1499.3	1467.4	1460.5
47.5°	1563.1	1568.7	1596.0	1608.8	1583.5	1547.6	1583.8	1619.0	1615.4	1581.2	1577.9
50°	1680.2	1681.5	1719.3	1733.8	1708.4	1677.5	1709.8	1753.5	1739.0	1695.3	1694.6
52.5°	1808.4	1810.1	1857.7	1885.7	1871.6	1836.7	1874.8	1901.5	1864.6	1807.4	1803.1
55°	1919.6	1927.8	1992.9	2067.2	2086.6	2061.3	2072.8	2060.3	1969.6	1889.3	1876.8
57.5°	1964.9	1981.1	2080.0	2218.8	2345.1	2382.6	2293.8	2174.8	2011.3	1897.9	1885.7
60°	1854.1	1871.6	2025.1	2288.5	2610.8	2773.6	2524.0	2194.2	1916.3	1756.8	1737.7
62.5°	1484.8	1489.7	1715.7	2124.4	2765.7	3187.3	2621.0	2028.7	1639.7	1423.0	1415.4
64°	1068.5	1119.1	1358.5	1862.7	2698.0	3344.9	2565.1	1796.9	1331.9	1112.5	1077.0
65°	799.1	812.9	1095.1	1590.7	2578.6	3333.0	2456.6	1575.2	1103.0	851.4	812.0
67.5°	301.9	303.5	404.2	792.9	1835.7	2867.7	1874.8	857.0	464.7	336.1	323.9
70°	125.3	127.6	148.3	266.7	788.9	1841.3	904.0	309.1	170.0	137.8	135.8
72.5°	91.8	93.1	99.3	118.4	242.7	756.1	297.3	131.2	99.6	89.1	88.1
75°	72.0	72.7	77.3	87.1	113.1	209.5	123.7	90.1	76.0	68.4	67.7
77.5°	54.9	56.6	59.9	66.4	76.0	99.3	81.9	67.4	58.5	52.3	51.3
80°	37.8	39.8	46.0	48.7	51.0	64.5	55.9	51.0	45.7	38.1	35.8
82.5°	23.3	24.7	30.9	33.2	32.2	36.2	35.8	36.5	32.6	23.7	22.0
85°	12.2	12.8	16.8	17.4	16.1	14.8	18.4	21.4	20.1	13.5	13.2
87.5°	2.6	3.0	3.6	3.3	3.6	3.6	4.6	6.9	7.2	4.6	4.3
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)