

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: P450538

Luminaire Tested: **GALN-SA1B-760-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450538  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-760-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6039 lumens  
Efficiency: N/A  
Efficacy: 137.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B3 - U0 - G1

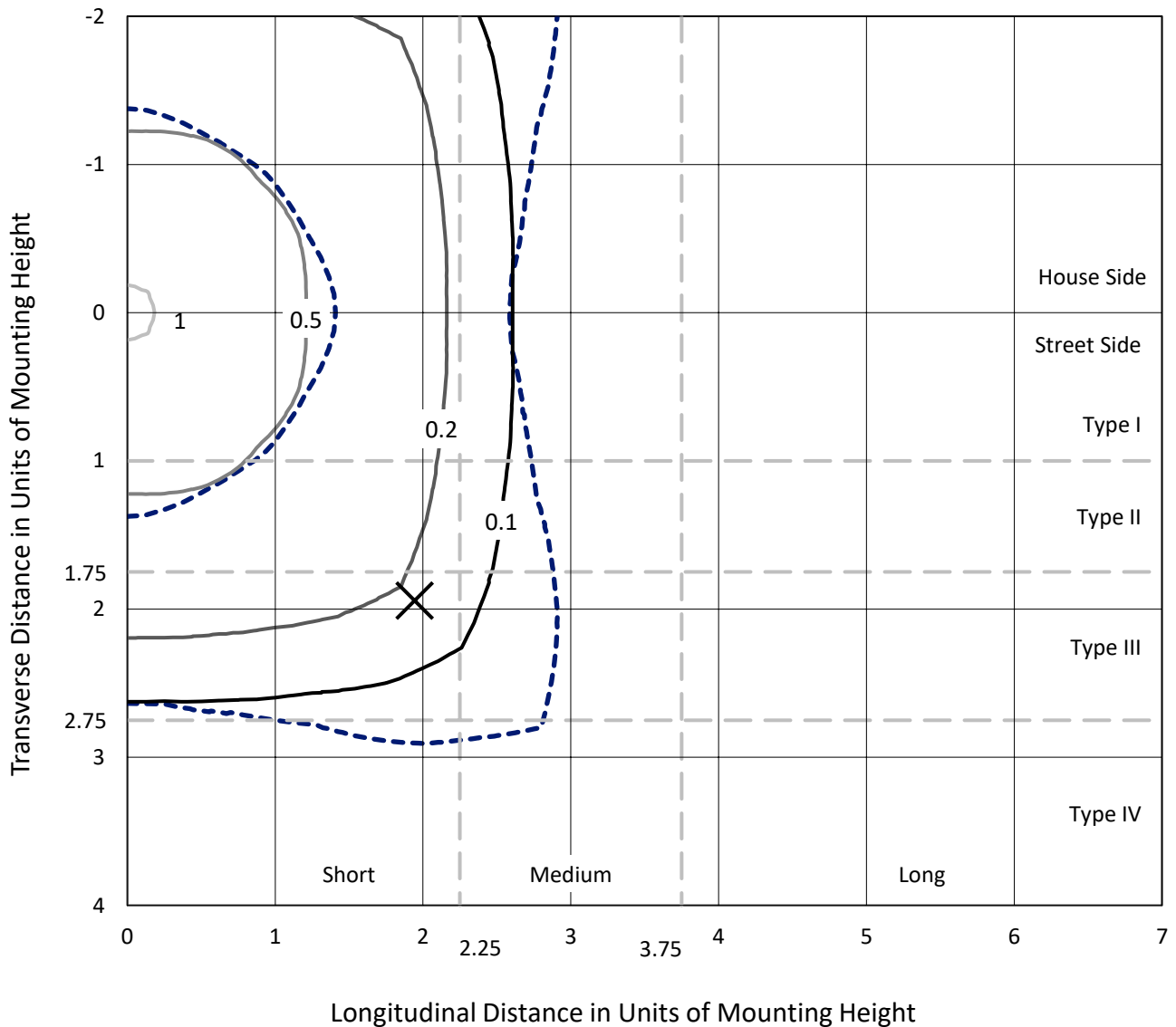
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

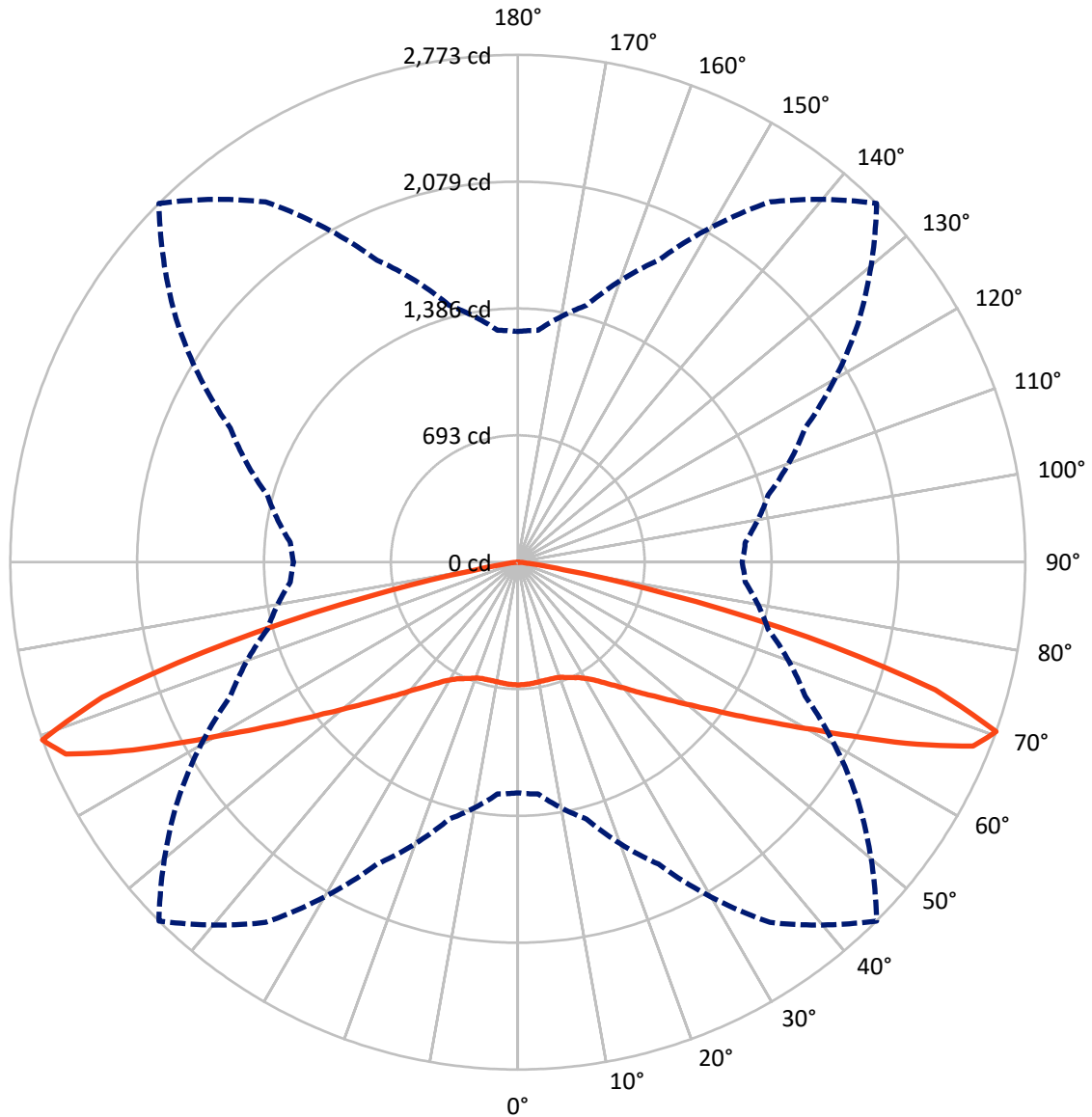
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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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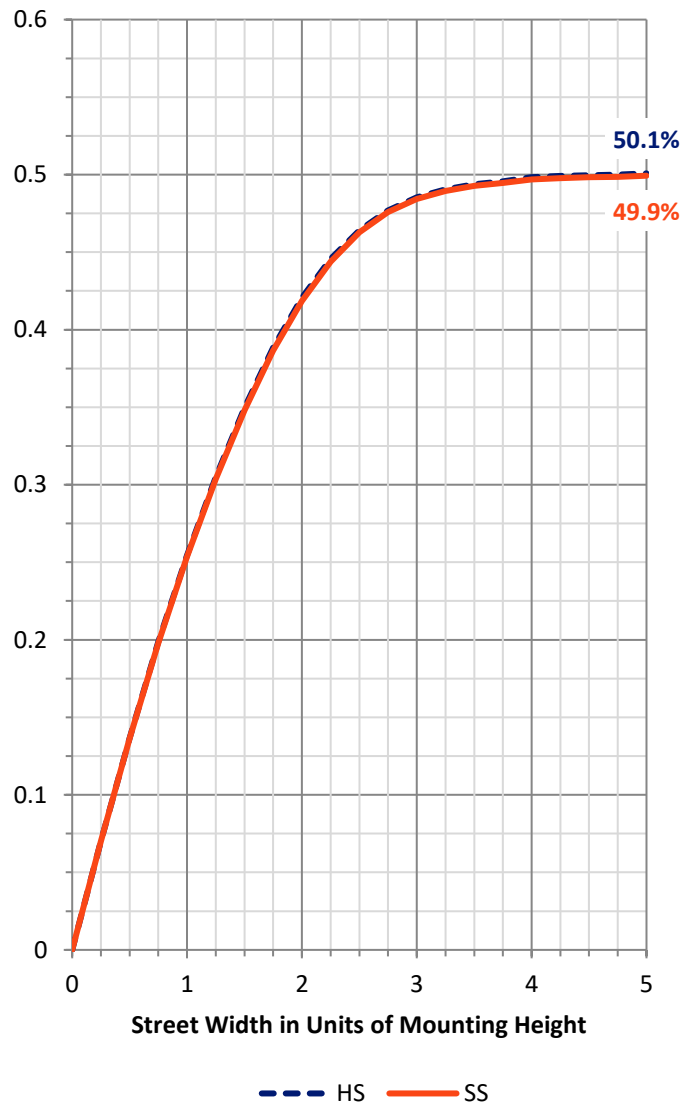
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3019.5	0.0	3019.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3019.5	0.0	3019.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6039.0	0.0	6039.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.6	1.1
10°-20°	186.6	3.1
20°-30°	319.2	5.3
30°-40°	506.6	8.4
40°-50°	817.2	13.5
50°-60°	1329.6	22.0
60°-70°	1927.5	31.9
70°-80°	855.0	14.2
80°-90°	33.7	0.6
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°	6039.0	100.0
0°-180°	6039.0	100.0



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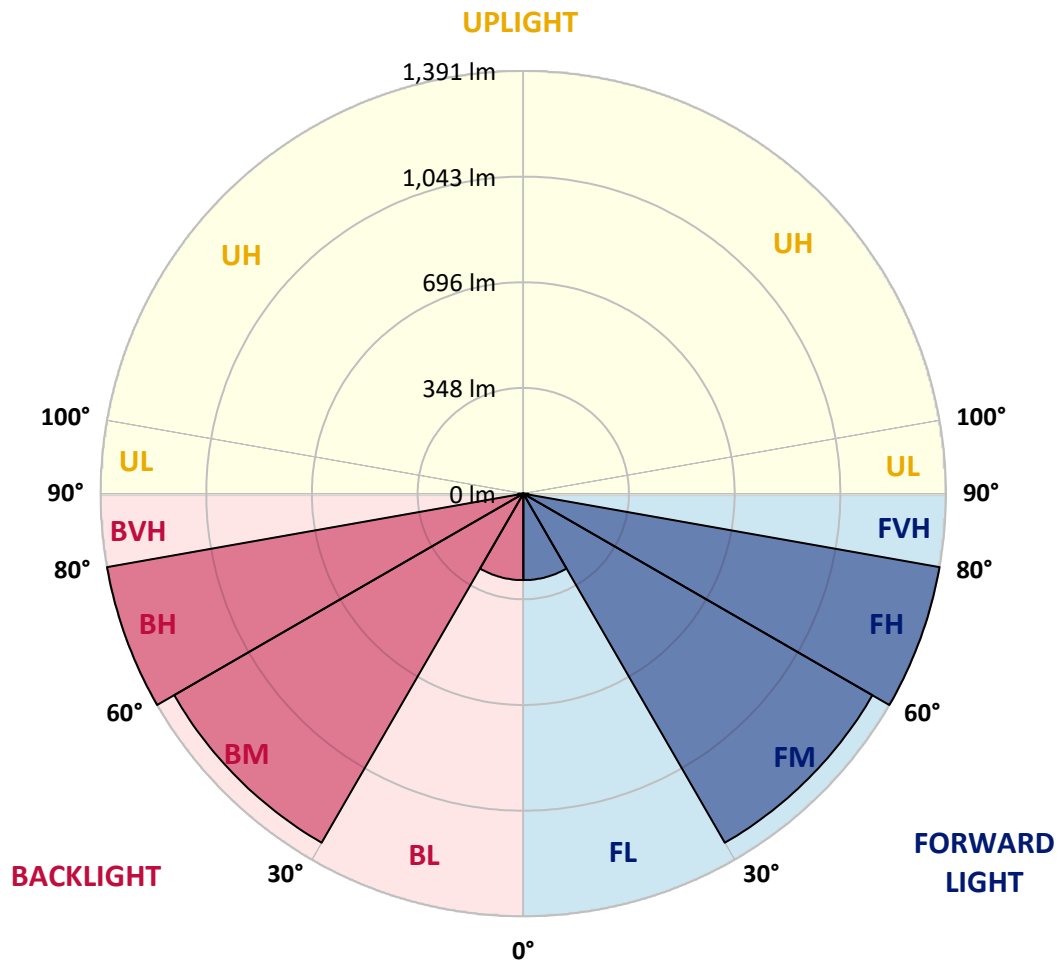
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	284.7	4.7			
FM (30°-60°)	1326.7	22.0			
FH (60°-80°)	1391.2	23.0			G1/1800
FVH (80°-90°)	16.9	0.3			G1/100
BL (0°-30°)	284.7	4.7	B1/500		
BM (30°-60°)	1326.7	22.0	B2/2500		
BH (60°-80°)	1391.2	23.0	B3/2500		G1/1800
BVH (80°-90°)	16.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	670.6	670.6	670.6	670.6	670.6	670.6	670.6	670.6	670.6	670.6	670.6
2.5°	670.6	671.2	670.3	669.6	669.3	669.3	669.0	669.3	671.2	671.6	670.6
5°	668.7	669.3	669.0	668.4	668.1	668.1	667.7	667.4	669.0	669.6	669.3
7.5°	666.1	666.5	666.1	665.8	666.1	665.8	664.9	664.2	665.5	665.5	665.2
10°	661.7	662.3	662.0	662.3	663.0	663.0	661.7	660.4	660.7	660.1	660.1
12.5°	656.3	657.2	657.6	658.8	660.4	662.3	659.5	656.6	656.0	655.6	655.3
15°	652.8	653.7	655.0	656.3	659.1	663.3	659.1	654.7	653.4	652.1	651.5
17.5°	651.8	653.1	655.0	656.9	660.7	664.9	661.4	656.9	653.7	651.8	651.2
20°	654.4	655.3	658.2	661.7	667.1	671.2	667.7	663.0	658.2	655.3	654.4
22.5°	659.5	661.1	664.6	670.9	678.6	684.6	679.8	671.9	664.2	660.4	659.1
25°	670.6	671.9	676.0	684.6	693.5	699.2	694.2	684.9	674.4	669.3	667.7
27.5°	687.5	689.4	693.8	704.0	711.3	714.5	711.0	704.7	697.0	691.6	690.3
30°	711.3	713.6	720.3	731.1	735.8	737.8	736.2	732.0	726.6	720.9	719.6
32.5°	743.5	744.8	752.4	762.6	767.0	767.7	765.8	763.9	754.9	745.4	744.8
35°	779.5	781.7	790.9	803.0	807.1	807.5	803.6	800.8	790.3	782.6	782.6
37.5°	827.2	828.1	837.1	850.7	855.2	853.9	852.0	849.5	838.3	828.5	828.8
40°	883.2	885.1	892.8	908.7	908.7	907.1	908.4	906.4	895.3	885.8	886.1
42.5°	949.7	950.7	959.9	976.8	975.5	972.3	973.6	971.1	964.1	953.2	949.4
45°	1020.7	1024.5	1040.4	1056.7	1054.1	1043.9	1049.0	1048.4	1042.0	1025.8	1026.8
47.5°	1106.3	1112.7	1128.0	1147.4	1144.5	1128.6	1134.3	1138.1	1129.2	1111.4	1108.2
50°	1202.8	1206.9	1229.5	1247.6	1245.1	1228.2	1241.3	1241.9	1219.6	1194.5	1194.5
52.5°	1305.6	1309.7	1340.3	1368.6	1370.2	1345.7	1356.2	1355.5	1319.2	1286.1	1279.8
55°	1420.8	1422.7	1462.1	1503.8	1512.8	1488.9	1490.2	1477.4	1430.3	1391.8	1388.3
57.5°	1539.8	1546.8	1590.4	1644.5	1670.9	1656.3	1649.6	1615.6	1570.0	1525.8	1523.6
60°	1671.6	1671.9	1728.5	1792.5	1846.0	1855.9	1828.5	1783.0	1724.1	1665.5	1663.0
62.5°	1762.9	1776.6	1848.2	1956.4	2052.2	2107.6	2035.4	1939.9	1824.0	1729.5	1720.0
65°	1781.7	1790.9	1900.1	2083.4	2279.2	2398.5	2231.4	2028.4	1830.7	1704.7	1698.3
67.5°	1629.9	1639.7	1786.8	2068.1	2438.3	2683.0	2358.7	1985.7	1717.4	1561.5	1549.0
70°	1260.7	1271.8	1453.6	1820.5	2403.0	2772.5	2268.0	1732.0	1416.3	1248.0	1225.4
72.5°	670.3	711.3	866.7	1249.5	1950.4	2387.1	1859.7	1263.9	913.4	746.7	716.8
75°	244.8	249.8	336.4	554.1	1134.6	1636.9	1178.2	602.8	346.6	267.7	254.0
77.5°	101.2	100.9	110.8	167.4	412.2	838.3	459.9	177.0	110.4	102.2	100.9
80°	59.8	59.8	65.9	69.7	108.5	253.0	121.3	78.9	66.2	60.5	61.4
82.5°	26.7	28.3	41.7	43.9	52.5	69.4	58.6	50.3	43.3	29.9	27.1
85°	14.6	12.7	22.0	22.9	25.1	25.8	27.7	27.4	25.1	14.6	15.0
87.5°	2.9	3.5	6.4	4.8	5.4	4.8	6.4	8.9	9.2	5.1	4.1
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)