

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: P458543

Luminaire Tested: **GALN-SA1B-735-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458543  
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-SA1B-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5597 lumens  
Efficiency: N/A  
Efficacy: 127.2 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

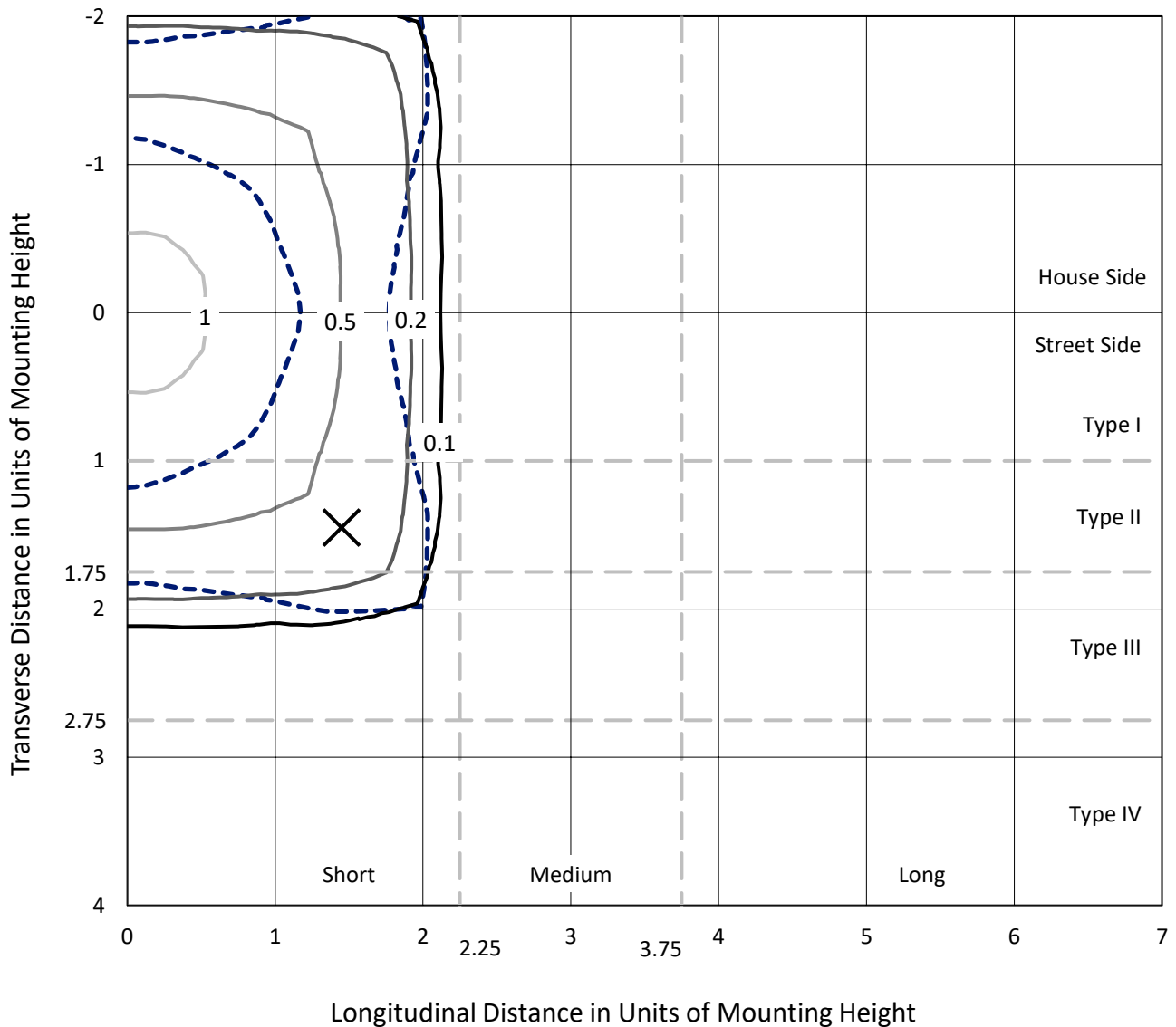
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

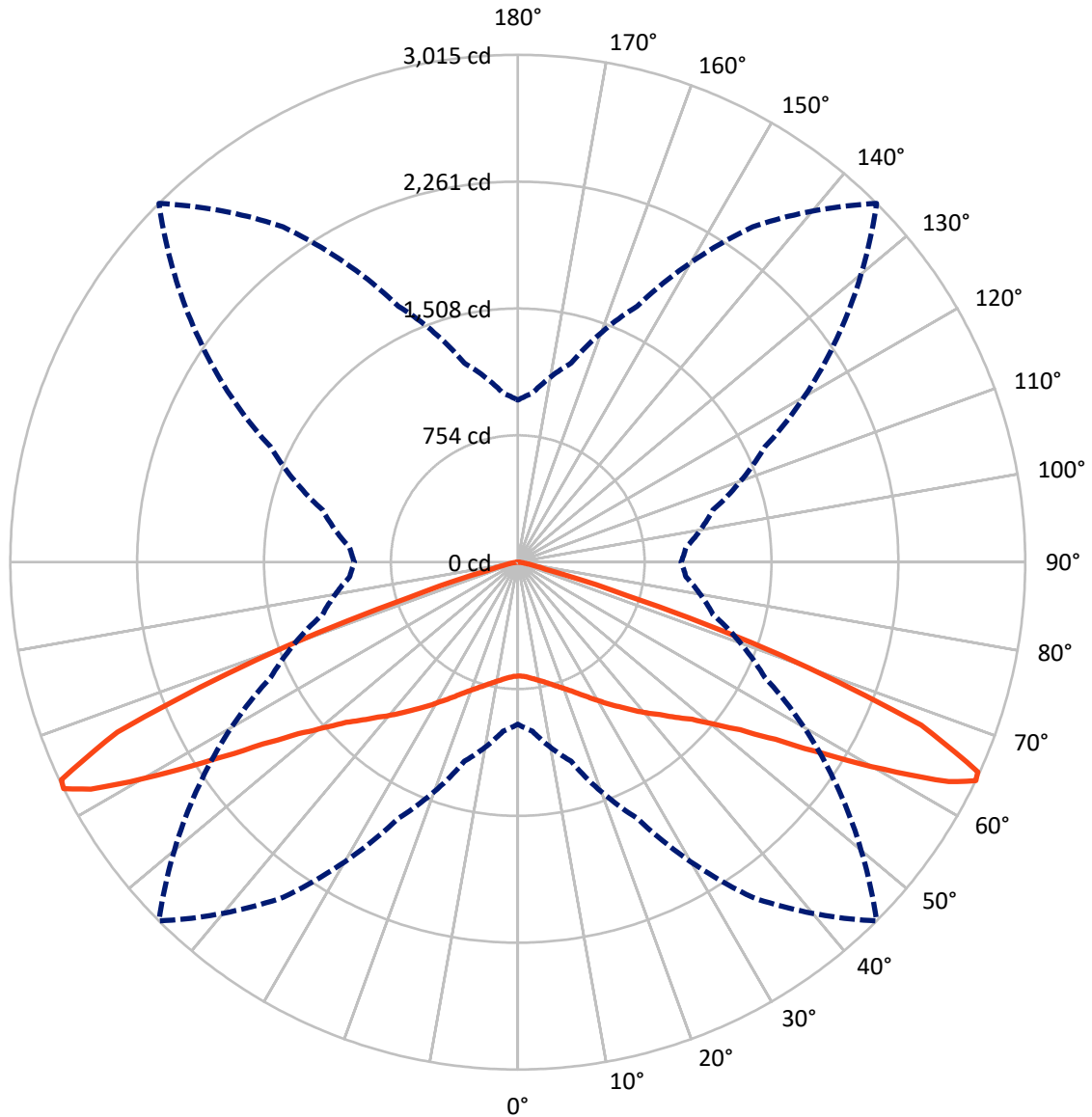
× Max cd  
 - - - 1/2 Max cd



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 64-Deg Vertical

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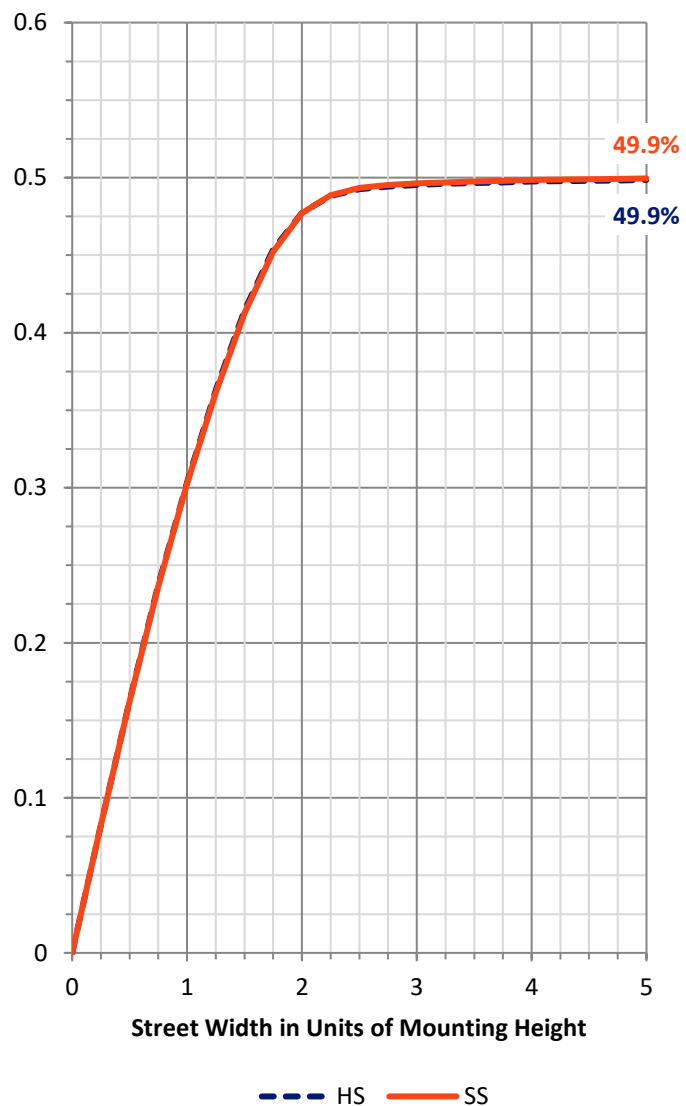
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2798.5	0.0	2798.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2798.5	0.0	2798.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5597.0	0.0	5597.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.5	1.2
10°-20°	214.4	3.8
20°-30°	405.1	7.2
30°-40°	670.9	12.0
40°-50°	1047.4	18.7
50°-60°	1619.3	28.9
60°-70°	1396.3	24.9
70°-80°	158.2	2.8
80°-90°	19.0	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°	5597.0	100.0
0°-180°	5597.0	100.0

**Coefficient of Utilization**



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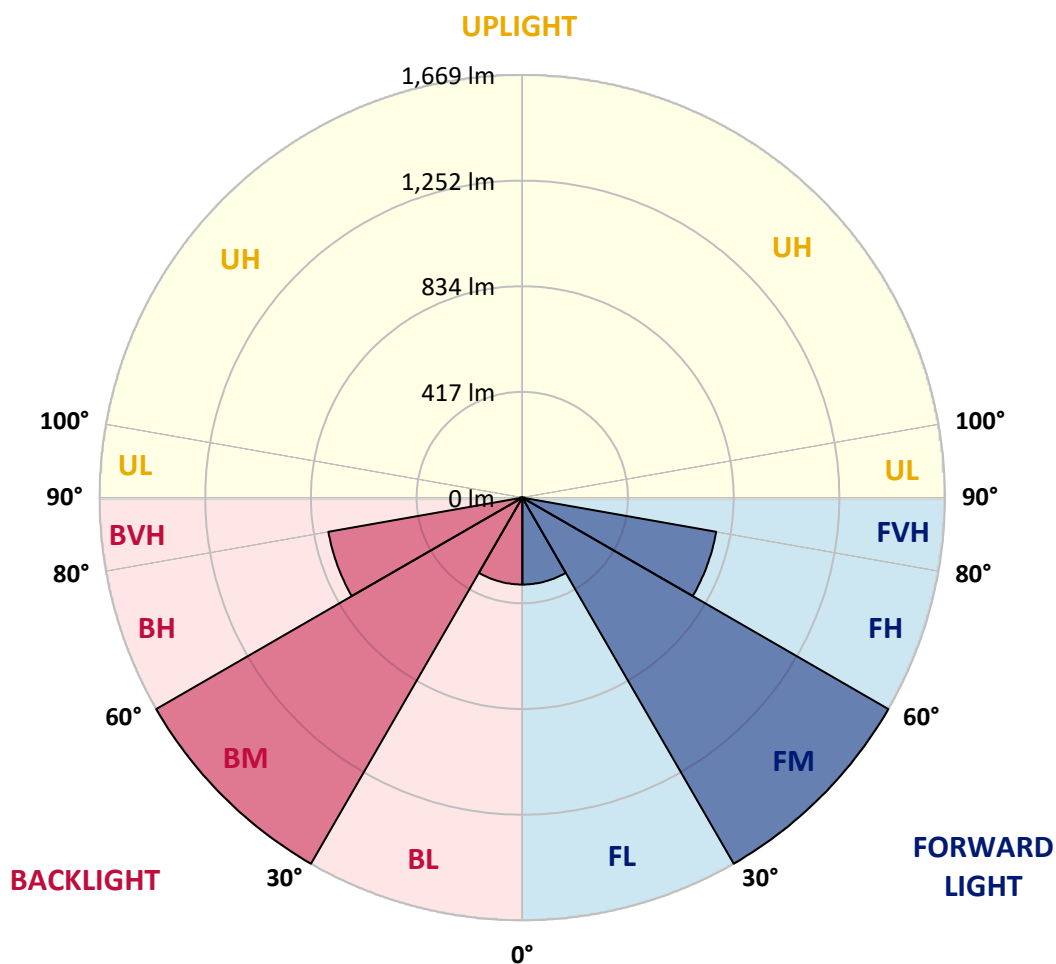
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	343.0	6.1			
FM (30°-60°)	1668.8	29.8			
FH (60°-80°)	777.3	13.9			G1/1800
FVH (80°-90°)	9.5	0.2			G0/10
BL (0°-30°)	343.0	6.1	B1/500		
BM (30°-60°)	1668.8	29.8	B2/2500		
BH (60°-80°)	777.3	13.9	B2/1000		G1/1800
BVH (80°-90°)	9.5	0.2			G0/10
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°	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5	676.5
2.5°	679.2	680.6	679.5	679.2	678.9	678.9	678.9	679.2	680.3	681.2	680.6
5°	687.8	688.9	688.3	688.1	687.8	688.1	687.5	687.2	688.1	688.1	687.8
7.5°	698.4	699.9	699.3	699.9	700.2	700.5	699.0	697.8	697.5	698.4	697.8
10°	713.0	714.1	714.4	714.7	715.3	715.0	713.3	711.2	710.9	710.6	710.3
12.5°	729.3	730.1	730.4	731.6	732.5	732.8	730.7	729.0	726.0	726.6	725.4
15°	747.6	749.4	749.1	750.9	753.3	753.9	751.8	748.8	746.2	744.7	743.8
17.5°	770.2	771.4	770.8	772.5	775.5	777.0	775.2	771.4	768.7	765.4	763.6
20°	796.8	798.9	799.5	799.5	802.2	803.7	801.0	799.8	795.7	793.3	791.8
22.5°	827.1	828.0	829.8	831.5	834.2	833.6	832.7	830.9	827.1	825.0	822.6
25°	861.2	862.1	866.5	870.4	871.3	870.7	869.5	868.6	865.0	860.3	858.5
27.5°	900.9	902.7	908.6	912.2	912.2	912.5	910.1	913.1	905.3	899.7	899.1
30°	950.7	951.9	956.9	960.5	958.7	957.2	956.6	959.6	951.3	941.2	938.8
32.5°	999.9	1004.1	1008.5	1016.2	1010.0	1007.3	1006.7	1008.8	999.3	988.1	984.8
35°	1052.7	1055.6	1063.9	1070.5	1064.8	1058.6	1061.3	1067.8	1056.5	1041.4	1040.8
37.5°	1111.1	1113.8	1124.4	1131.2	1127.1	1116.4	1120.9	1128.6	1117.3	1098.6	1094.8
40°	1171.9	1177.5	1190.8	1197.9	1191.1	1176.9	1185.2	1193.5	1183.4	1161.8	1153.2
42.5°	1240.0	1248.9	1268.2	1271.8	1258.7	1239.4	1254.0	1267.3	1260.2	1235.3	1232.0
45°	1319.8	1325.1	1348.8	1356.5	1338.5	1314.4	1332.5	1356.8	1351.5	1322.7	1316.5
47.5°	1409.0	1414.1	1438.7	1450.2	1427.4	1395.1	1427.7	1459.4	1456.1	1425.3	1422.4
50°	1514.5	1515.7	1549.8	1562.9	1540.0	1512.2	1541.2	1580.7	1567.6	1528.2	1527.6
52.5°	1630.2	1631.6	1674.6	1699.8	1687.1	1655.7	1690.0	1714.1	1680.9	1629.3	1625.4
55°	1730.4	1737.8	1796.5	1863.5	1881.0	1858.1	1868.5	1857.2	1775.4	1703.1	1691.8
57.5°	1771.3	1785.8	1875.0	2000.1	2114.0	2147.8	2067.7	1960.4	1813.1	1710.8	1699.8
60°	1671.4	1687.1	1825.5	2063.0	2353.5	2500.2	2275.2	1977.9	1727.4	1583.6	1566.4
62.5°	1338.5	1342.9	1546.6	1915.0	2493.1	2873.2	2362.7	1828.8	1478.1	1282.7	1275.9
64°	963.2	1008.8	1224.6	1679.1	2432.0	3015.2	2312.3	1619.8	1200.6	1002.9	970.9
65°	720.4	732.8	987.2	1433.9	2324.4	3004.5	2214.5	1420.0	994.3	767.5	731.9
67.5°	272.1	273.6	364.3	714.7	1654.8	2585.0	1690.0	772.5	418.9	303.0	292.0
70°	112.9	115.0	133.7	240.4	711.2	1659.8	814.9	278.7	153.3	124.2	122.4
72.5°	82.7	83.9	89.5	106.7	218.8	681.5	268.0	118.3	89.8	80.3	79.4
75°	64.9	65.5	69.7	78.6	102.0	188.8	111.5	81.2	68.5	61.7	61.1
77.5°	49.5	51.0	54.0	59.9	68.5	89.5	73.8	60.8	52.8	47.1	46.2
80°	34.1	35.9	41.5	43.9	45.9	58.1	50.4	45.9	41.2	34.4	32.3
82.5°	21.0	22.2	27.9	29.9	29.1	32.6	32.3	32.9	29.3	21.3	19.9
85°	11.0	11.6	15.1	15.7	14.5	13.3	16.6	19.3	18.1	12.2	11.9
87.5°	2.4	2.7	3.3	3.0	3.3	3.3	4.2	6.2	6.5	4.2	3.9
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)