

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: P451119

Luminaire Tested: **GALN-SA2A-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451119
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-SA2A-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8027 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

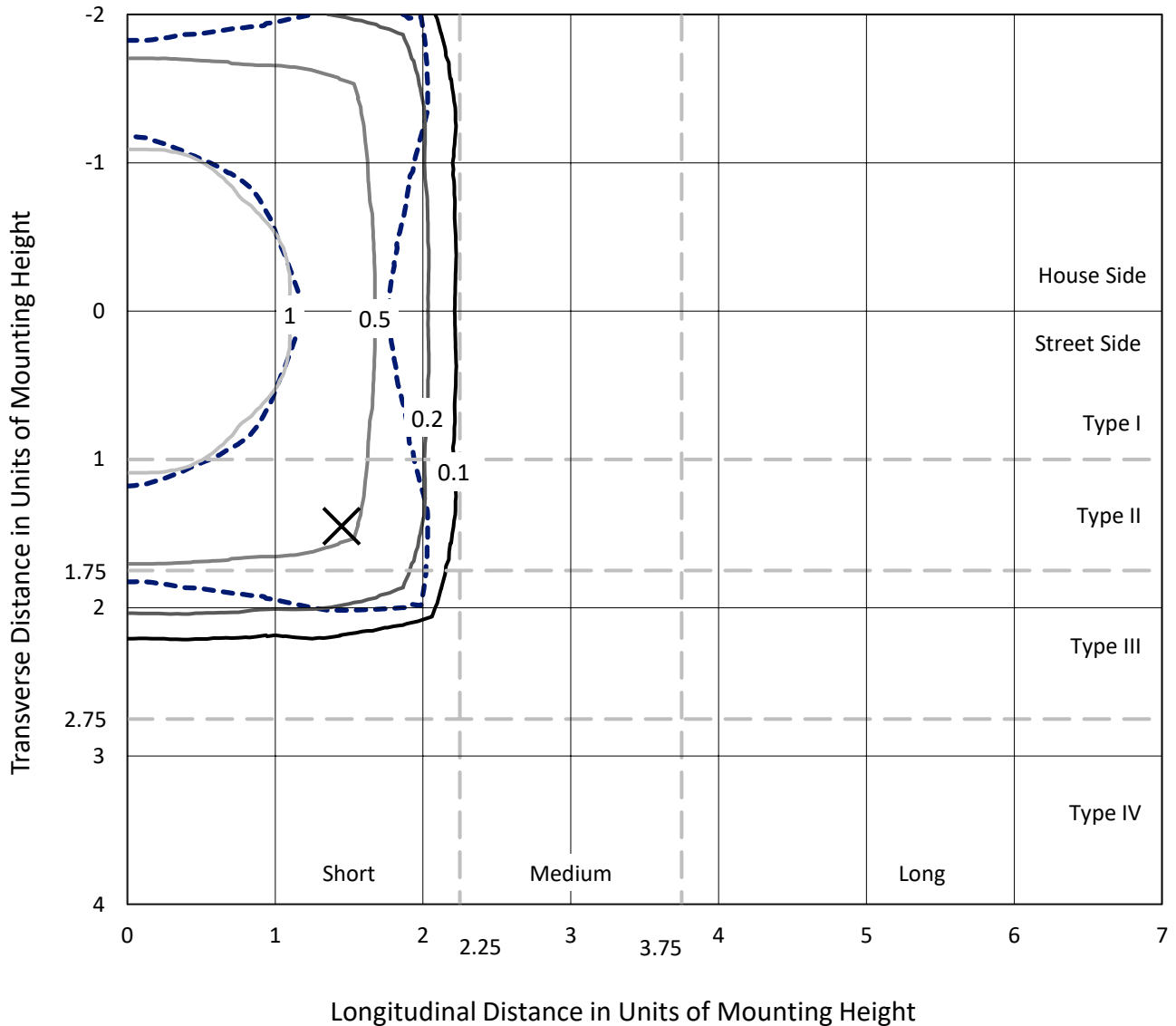
Input Watts (W): 63
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

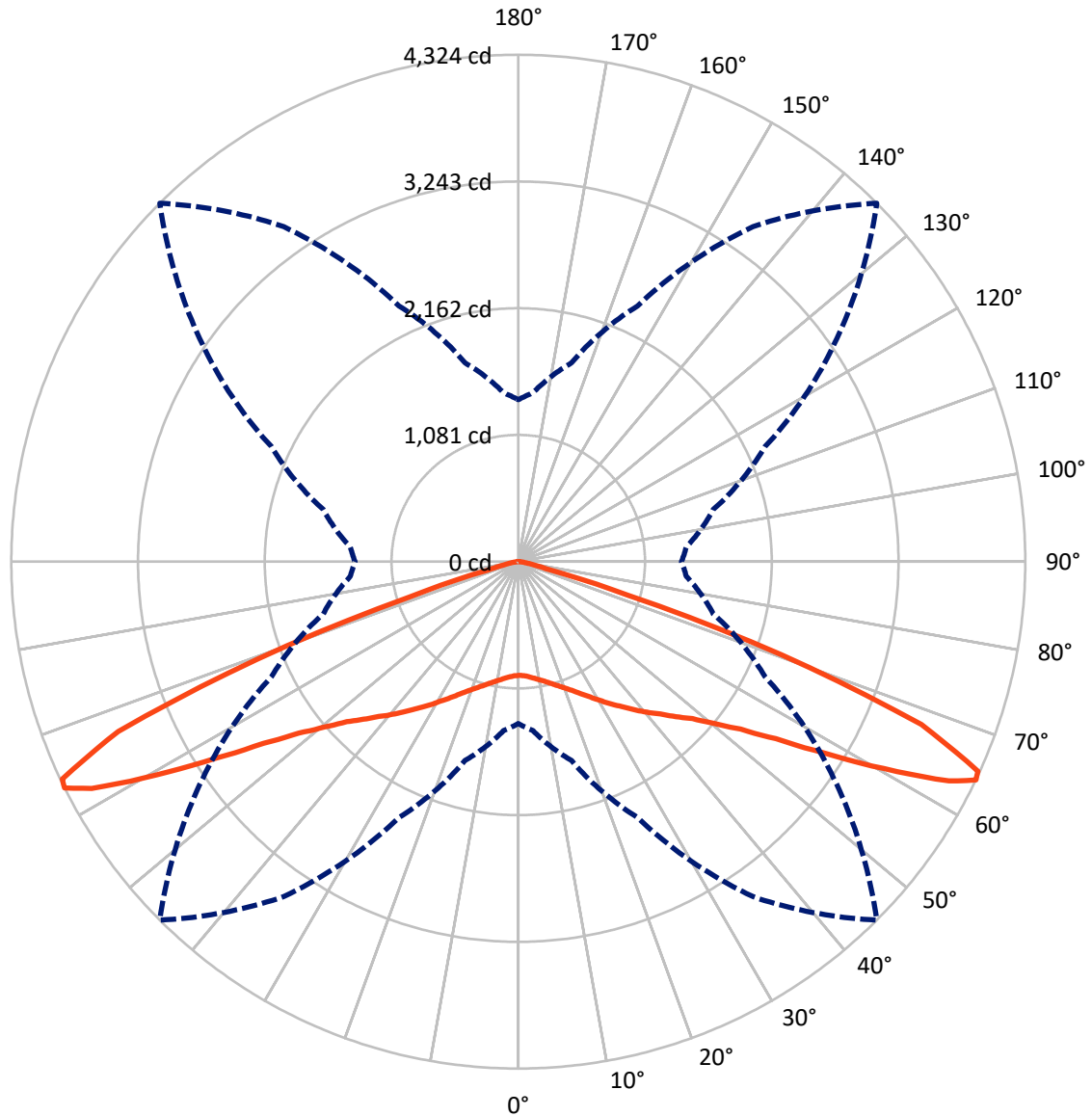
✕ Max cd
 - - - 1/2 Max cd



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 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4013.5	0.0	4013.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4013.5	0.0	4013.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8027.0	0.0	8027.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	1.2
10°-20°	307.5	3.8
20°-30°	581.0	7.2
30°-40°	962.2	12.0
40°-50°	1502.1	18.7
50°-60°	2322.3	28.9
60°-70°	2002.5	24.9
70°-80°	226.9	2.8
80°-90°	27.2	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°	8027.0	100.0
0°-180°	8027.0	100.0



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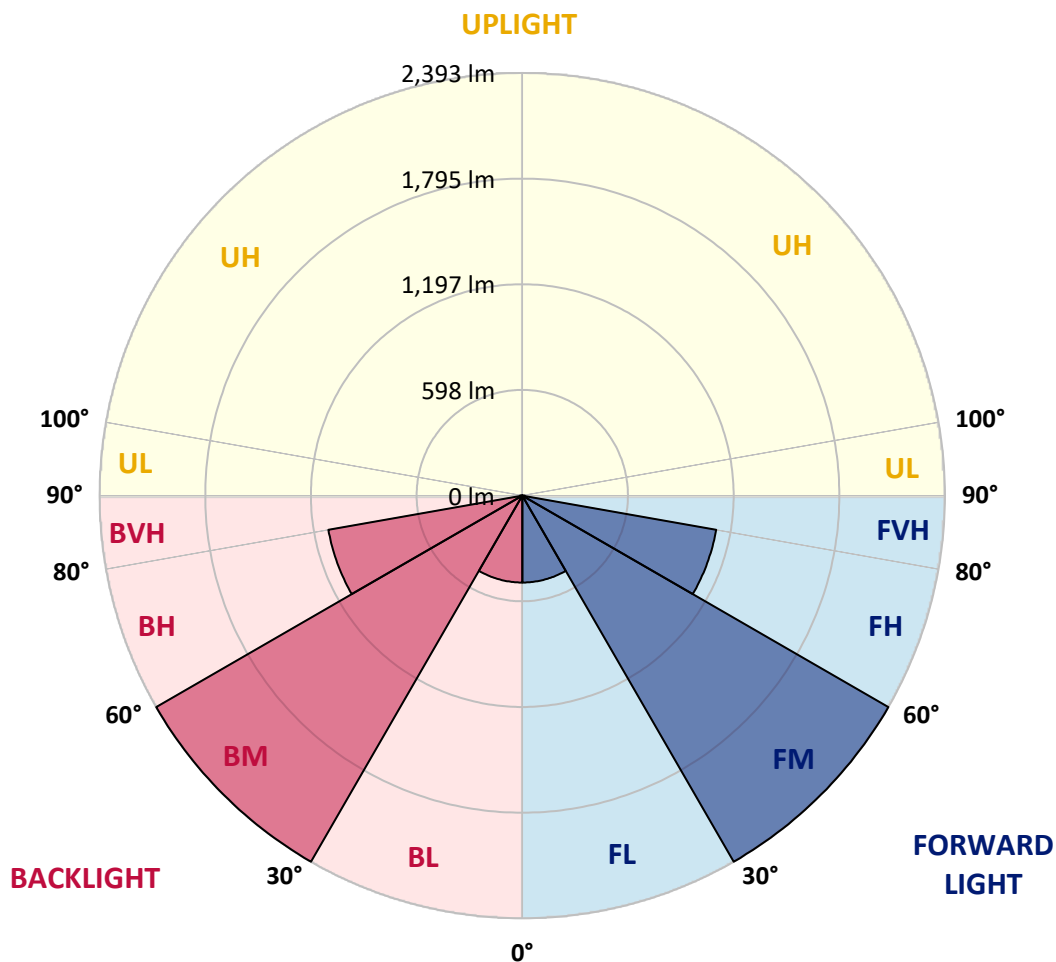
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	491.9	6.1			
FM	(30°-60°)	2393.3	29.8			
FH	(60°-80°)	1114.7	13.9			G1/1800
FVH	(80°-90°)	13.6	0.2			G1/100
BL	(0°-30°)	491.9	6.1	B1/500		
BM	(30°-60°)	2393.3	29.8	B2/2500		
BH	(60°-80°)	1114.7	13.9	B3/2500		G1/1800
BVH	(80°-90°)	13.6	0.2			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°	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2	970.2
2.5°	974.0	976.2	974.4	974.0	973.6	973.6	973.6	974.0	975.7	977.0	976.2
5°	986.4	988.1	987.2	986.8	986.4	986.8	985.9	985.5	986.8	986.8	986.4
7.5°	1001.7	1003.8	1002.9	1003.8	1004.2	1004.6	1002.5	1000.8	1000.4	1001.7	1000.8
10°	1022.5	1024.2	1024.6	1025.0	1025.9	1025.5	1022.9	1019.9	1019.5	1019.1	1018.7
12.5°	1045.9	1047.2	1047.6	1049.3	1050.6	1051.0	1048.0	1045.4	1041.2	1042.0	1040.3
15°	1072.2	1074.8	1074.4	1076.9	1080.3	1081.2	1078.2	1073.9	1070.1	1068.0	1066.7
17.5°	1104.5	1106.2	1105.4	1107.9	1112.2	1114.3	1111.8	1106.2	1102.4	1097.7	1095.2
20°	1142.8	1145.8	1146.6	1146.6	1150.5	1152.6	1148.8	1147.1	1141.1	1137.7	1135.6
22.5°	1186.2	1187.5	1190.0	1192.6	1196.4	1195.5	1194.3	1191.7	1186.2	1183.2	1179.8
25°	1235.1	1236.3	1242.7	1248.2	1249.5	1248.7	1247.0	1245.7	1240.6	1233.8	1231.2
27.5°	1292.0	1294.6	1303.1	1308.2	1308.2	1308.6	1305.2	1309.5	1298.4	1290.3	1289.5
30°	1363.5	1365.2	1372.4	1377.5	1374.9	1372.8	1372.0	1376.2	1364.3	1349.9	1346.5
32.5°	1434.0	1440.0	1446.4	1457.4	1448.5	1444.7	1443.8	1446.8	1433.2	1417.0	1412.4
35°	1509.7	1514.0	1525.9	1535.2	1527.1	1518.2	1522.0	1531.4	1515.2	1493.6	1492.7
37.5°	1593.5	1597.3	1612.6	1622.4	1616.4	1601.1	1607.5	1618.6	1602.4	1575.6	1570.1
40°	1680.6	1688.7	1707.8	1718.0	1708.3	1687.9	1699.8	1711.7	1697.2	1666.2	1653.8
42.5°	1778.4	1791.2	1818.8	1823.9	1805.2	1777.6	1798.4	1817.5	1807.3	1771.6	1766.9
45°	1892.8	1900.4	1934.4	1945.5	1919.6	1885.1	1911.1	1945.9	1938.3	1897.0	1888.1
47.5°	2020.7	2028.0	2063.3	2079.8	2047.1	2000.8	2047.5	2093.0	2088.3	2044.1	2039.9
50°	2172.1	2173.8	2222.7	2241.4	2208.7	2168.7	2210.4	2266.9	2248.2	2191.7	2190.8
52.5°	2337.9	2340.0	2401.7	2437.8	2419.5	2374.5	2423.8	2458.2	2410.6	2336.6	2331.1
55°	2481.6	2492.2	2576.4	2672.5	2697.6	2664.9	2679.7	2663.6	2546.2	2442.5	2426.3
57.5°	2540.3	2561.1	2689.1	2868.5	3031.8	3080.2	2965.4	2811.5	2600.2	2453.6	2437.8
60°	2397.0	2419.5	2618.1	2958.6	3375.3	3585.7	3263.0	2836.6	2477.4	2271.2	2246.5
62.5°	1919.6	1925.9	2218.0	2746.5	3575.5	4120.6	3388.5	2622.8	2119.8	1839.6	1829.9
64°	1381.3	1446.8	1756.3	2408.1	3488.0	4324.2	3316.2	2323.0	1721.9	1438.3	1392.4
65°	1033.1	1051.0	1415.8	2056.5	3333.6	4308.9	3175.9	2036.5	1426.0	1100.7	1049.7
67.5°	390.3	392.4	522.5	1025.0	2373.2	3707.3	2423.8	1107.9	600.7	434.5	418.8
70°	162.0	165.0	191.7	344.8	1019.9	2380.4	1168.7	399.6	219.8	178.1	175.6
72.5°	118.6	120.3	128.4	153.1	313.8	977.4	384.3	169.6	128.8	115.2	113.9
75°	93.1	94.0	99.9	112.7	146.3	270.8	159.9	116.5	98.2	88.4	87.6
77.5°	71.0	73.1	77.4	85.9	98.2	128.4	105.9	87.2	75.7	67.6	66.3
80°	48.9	51.4	59.5	62.9	65.9	83.3	72.3	65.9	59.1	49.3	46.3
82.5°	30.2	31.9	40.0	42.9	41.7	46.8	46.3	47.2	42.1	30.6	28.5
85°	15.7	16.6	21.7	22.5	20.8	19.1	23.8	27.6	25.9	17.4	17.0
87.5°	3.4	3.8	4.7	4.3	4.7	4.7	6.0	8.9	9.4	6.0	5.5
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)