

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: P651716

Luminaire Tested: **GALN-SA2A-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651716
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8094.6 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

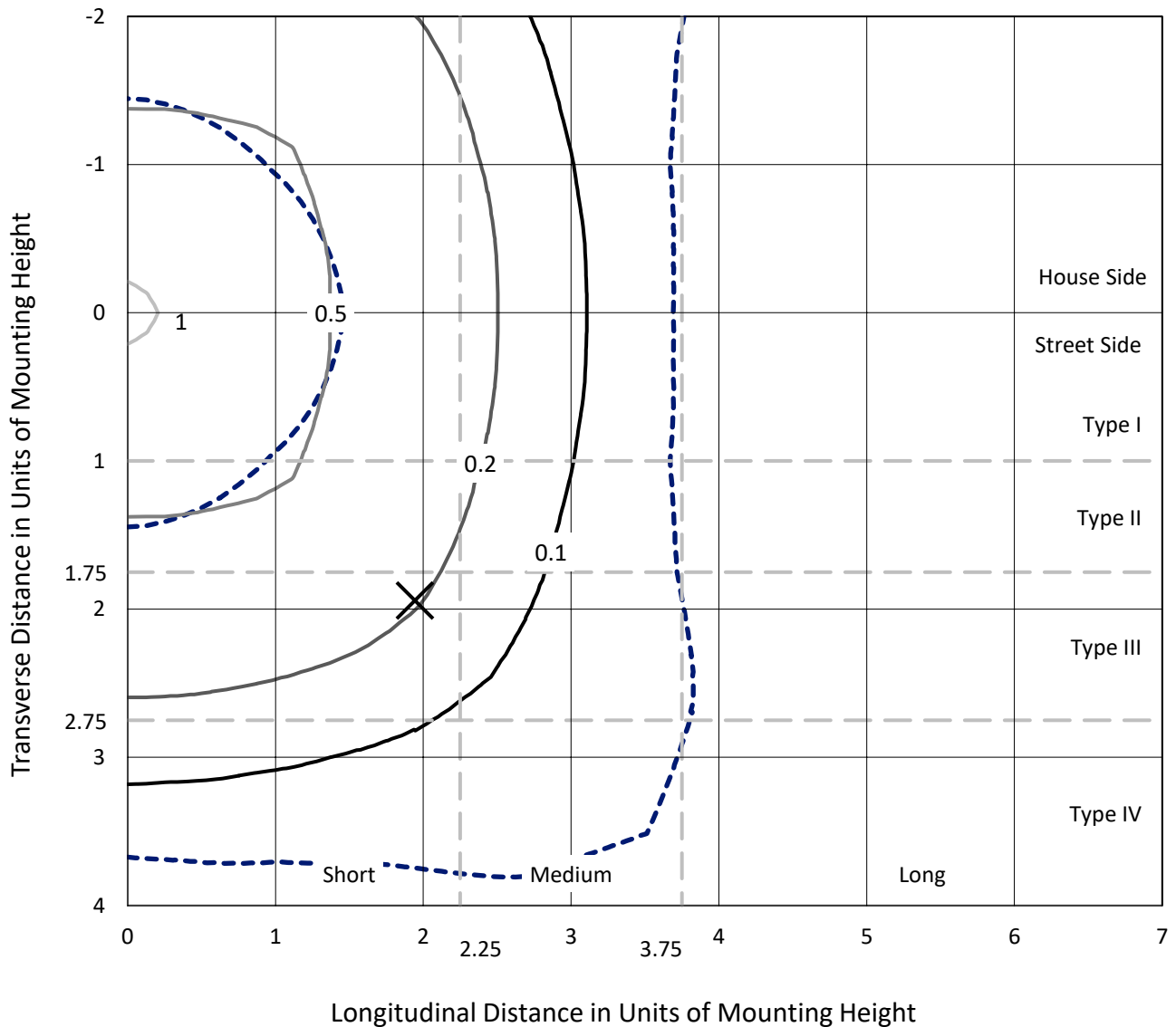
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

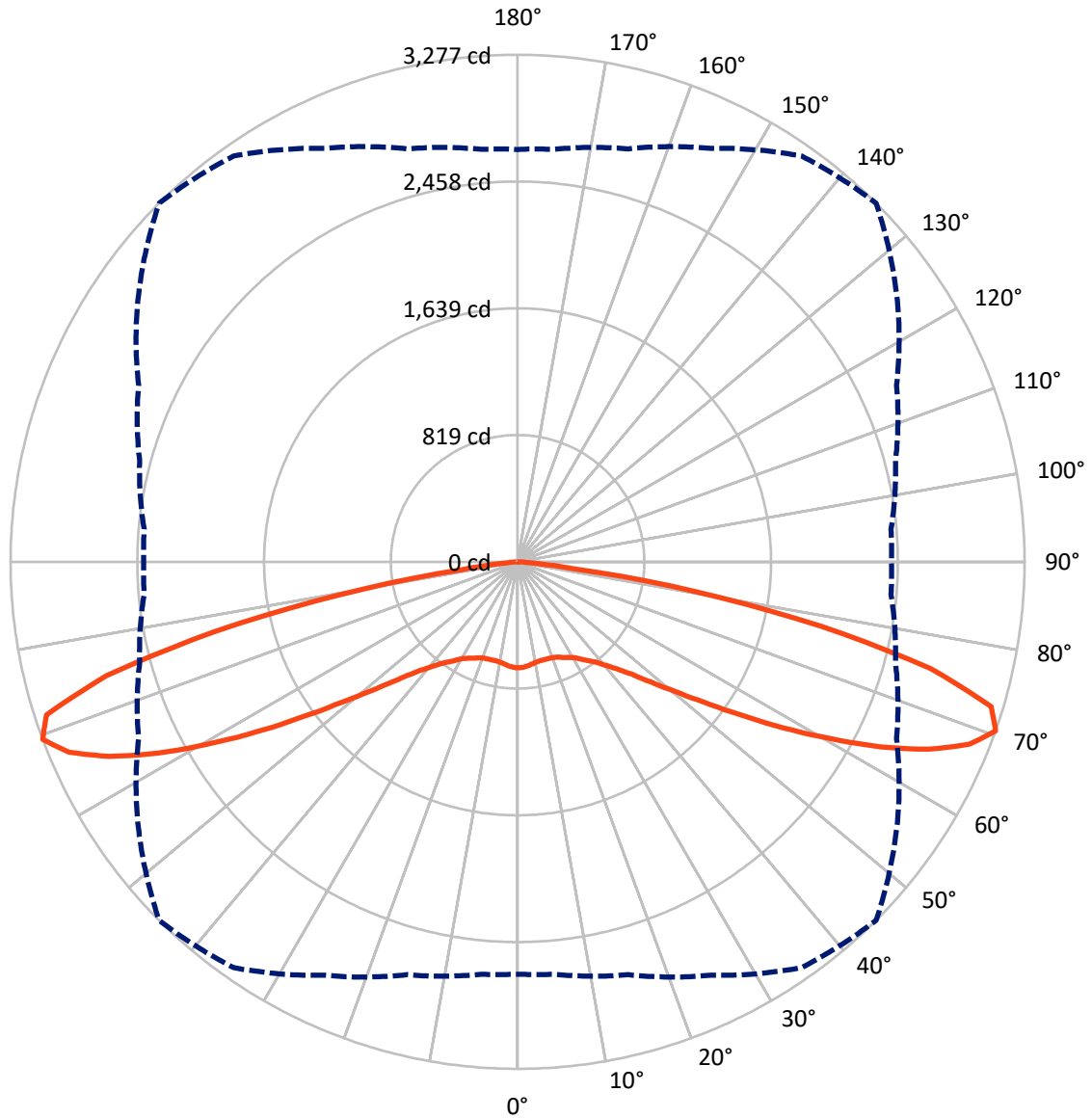
× Max cd
 - - - 1/2 Max cd



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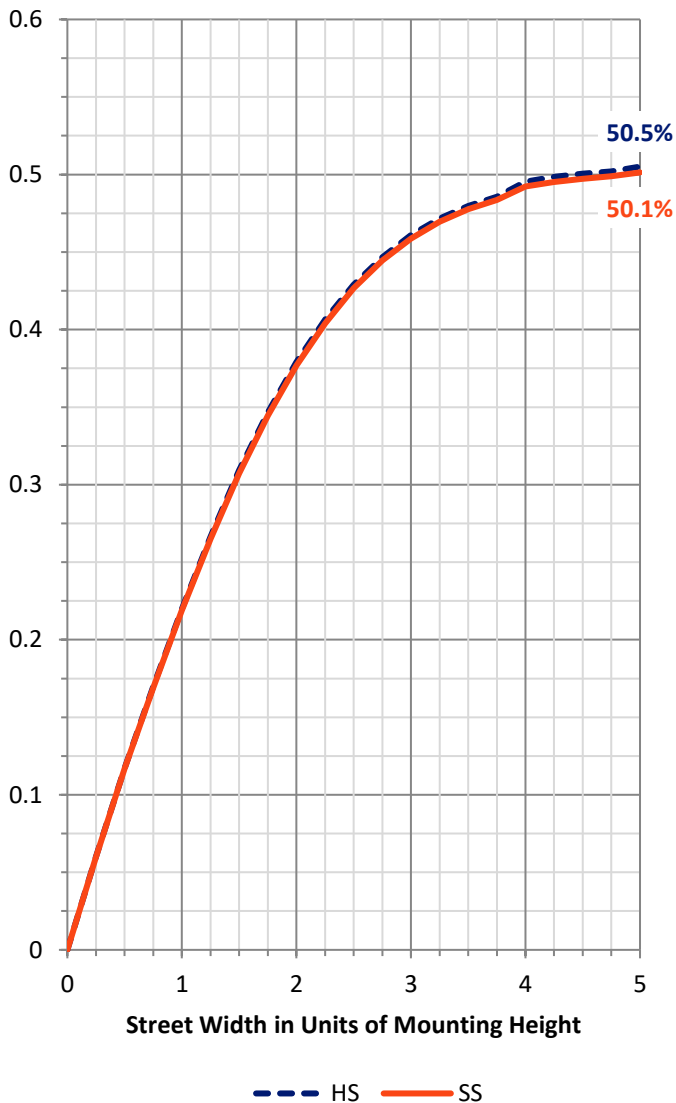
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4047.3	0.0	4047.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4047.3	0.0	4047.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8094.6	0.0	8094.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.1	0.8
10°-20°	187.6	2.3
20°-30°	319.7	3.9
30°-40°	495.5	6.1
40°-50°	834.0	10.3
50°-60°	1517.4	18.7
60°-70°	2568.9	31.7
70°-80°	1988.4	24.6
80°-90°	119.2	1.5
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°	8094.6	100.0
0°-180°	8094.6	100.0



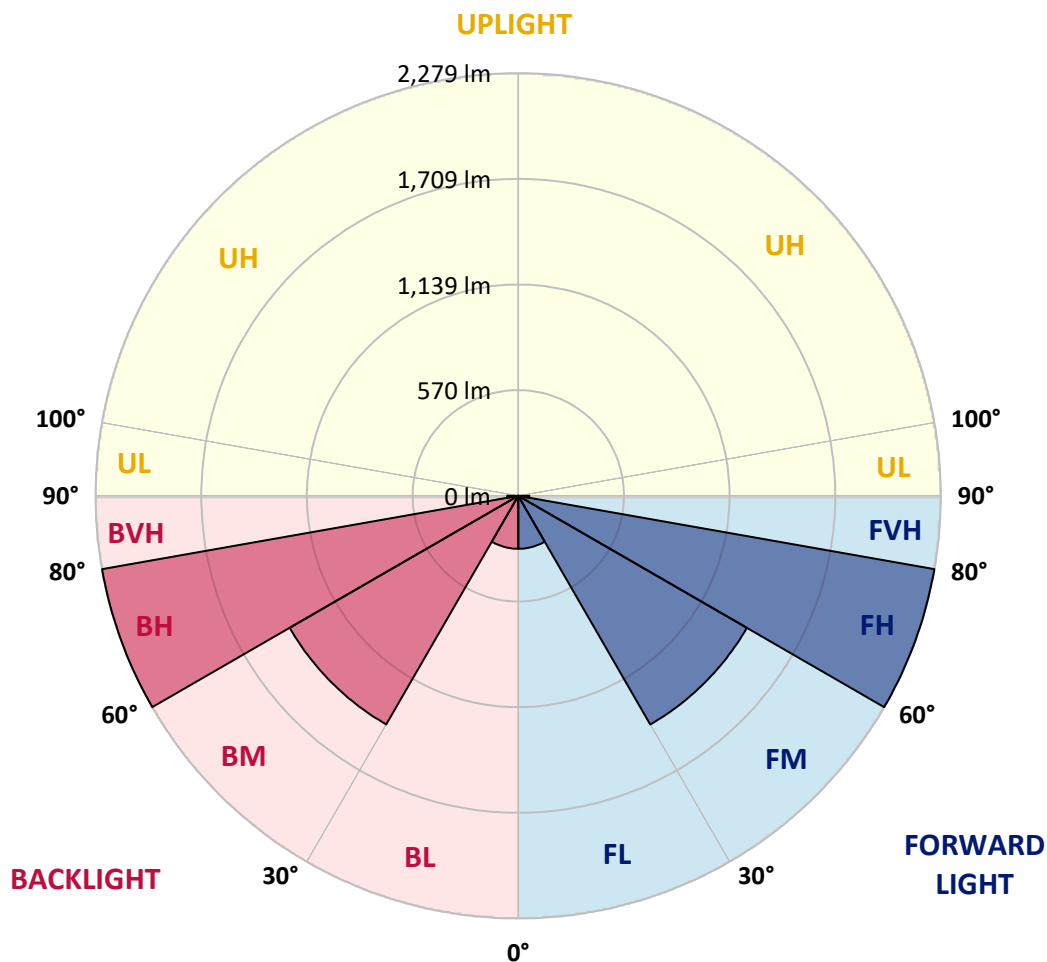
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	285.7	3.5			
FM (30°-60°)	1423.4	17.6			
FH (60°-80°)	2278.6	28.1			G2/5000
FVH (80°-90°)	59.6	0.7			G1/100
BL (0°-30°)	285.7	3.5	B1/500		
BM (30°-60°)	1423.4	17.6	B2/2500		
BH (60°-80°)	2278.6	28.1	B3/2500		G2/5000
BVH (80°-90°)	59.6	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	685.3	685.3	685.3	685.3	685.3	685.3	685.3	685.3	685.3	685.3	685.3
2.5°	683.6	684.0	684.0	683.1	682.7	682.7	682.3	682.3	683.6	684.0	684.5
5°	677.6	677.6	677.6	677.2	676.3	676.3	675.5	675.5	675.9	677.2	676.3
7.5°	669.5	670.4	670.4	668.6	667.3	667.3	666.9	667.3	667.8	669.1	668.6
10°	666.9	667.3	665.2	662.2	660.1	658.8	659.3	660.1	662.2	663.0	663.5
12.5°	668.6	668.6	664.8	660.5	656.7	655.0	654.6	657.5	661.4	664.0	664.8
15°	670.8	669.9	665.2	659.7	655.8	655.4	655.0	657.1	662.6	667.8	668.2
17.5°	672.0	671.6	665.7	658.8	656.7	656.7	656.2	657.9	664.0	670.4	670.8
20°	676.3	675.1	668.2	660.9	659.3	660.1	658.8	660.9	667.3	675.1	676.8
22.5°	684.9	683.6	676.8	669.5	668.6	668.6	668.2	670.4	677.2	685.3	686.6
25°	695.2	693.8	687.4	682.3	683.1	684.9	684.0	684.5	690.0	696.9	699.0
27.5°	708.8	706.7	701.1	696.9	699.4	699.4	699.4	699.0	702.4	708.8	711.0
30°	725.5	724.6	718.6	718.2	720.4	718.2	718.2	718.6	719.1	725.1	727.2
32.5°	747.3	745.6	742.6	741.8	747.7	749.4	743.4	737.9	740.9	746.9	748.2
35°	783.2	780.6	776.4	771.7	776.4	784.5	771.7	767.4	775.1	783.2	784.1
37.5°	831.9	830.7	823.8	815.3	814.8	823.4	810.1	809.7	824.3	834.1	835.4
40°	893.1	894.4	885.8	877.7	873.4	880.3	870.0	873.9	887.9	899.0	898.2
42.5°	979.0	974.3	961.1	953.4	948.6	946.1	943.5	949.5	965.3	977.3	986.7
45°	1079.5	1077.7	1061.1	1051.7	1041.4	1037.5	1036.7	1047.4	1066.6	1081.2	1082.5
47.5°	1193.2	1189.3	1178.7	1168.8	1165.0	1160.2	1156.0	1164.1	1183.4	1193.6	1196.7
50°	1310.4	1311.2	1311.2	1309.5	1313.3	1314.1	1302.6	1305.7	1316.3	1315.5	1314.7
52.5°	1444.2	1448.9	1471.1	1473.3	1491.6	1504.0	1483.0	1470.7	1466.8	1443.7	1445.4
55°	1601.5	1605.7	1639.1	1672.4	1722.0	1743.0	1699.0	1660.5	1633.1	1598.1	1599.8
57.5°	1797.7	1799.8	1831.4	1895.6	1974.2	2023.4	1946.1	1870.0	1814.4	1781.1	1767.8
60°	2008.9	2011.0	2057.2	2135.5	2257.7	2317.5	2221.8	2097.4	2027.3	1976.4	1979.8
62.5°	2262.5	2271.0	2312.4	2420.1	2568.5	2635.6	2508.7	2342.4	2247.5	2184.2	2186.8
65°	2533.9	2548.4	2593.7	2712.1	2849.0	2921.2	2765.6	2573.6	2455.6	2378.3	2386.4
67.5°	2710.0	2722.8	2788.3	2919.1	3089.7	3149.5	2948.5	2725.0	2577.5	2485.2	2468.1
70°	2665.1	2675.8	2763.0	2948.5	3201.3	3277.0	2992.2	2702.7	2529.2	2422.8	2415.9
72.5°	2352.6	2330.4	2457.8	2724.2	3073.9	3200.8	2854.9	2468.5	2250.0	2140.6	2127.7
75°	1559.1	1607.5	1795.5	2109.4	2600.6	2757.9	2436.9	1982.0	1707.1	1616.0	1601.9
77.5°	521.2	558.3	725.5	1195.7	1772.9	2009.3	1775.4	1296.2	917.0	738.7	742.2
80°	138.1	136.4	176.5	328.7	766.2	1163.7	891.8	439.1	240.3	174.0	165.0
82.5°	49.6	55.6	71.4	91.1	203.1	361.7	255.2	123.1	90.2	66.7	64.6
85°	21.8	21.4	30.8	36.3	50.9	67.5	59.9	52.1	45.8	30.4	28.3
87.5°	4.7	4.7	7.2	5.6	9.0	9.0	11.1	13.3	13.7	9.0	7.2
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)