

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: P529941

Luminaire Tested: **GALN-SA5A-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8782 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

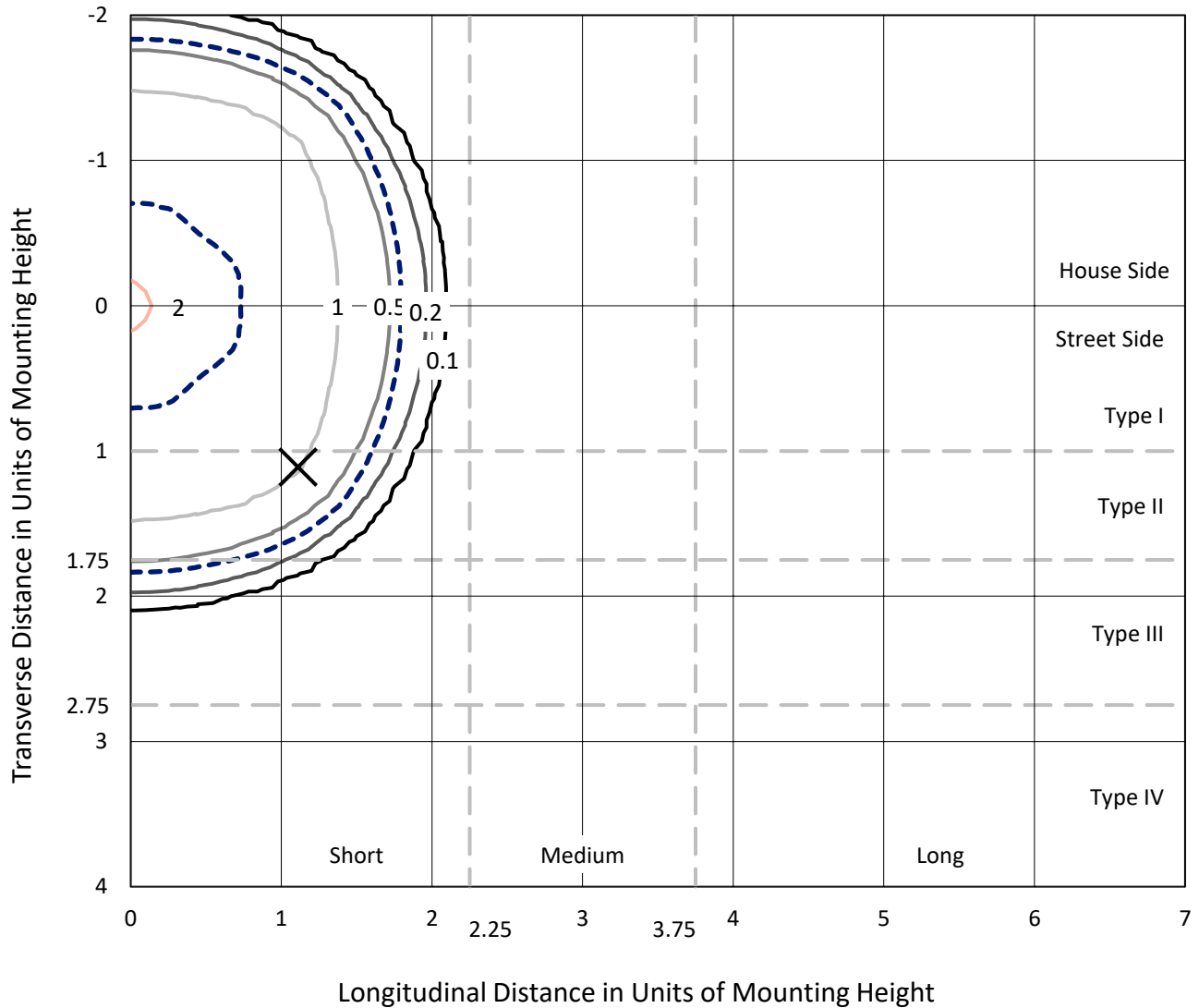
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

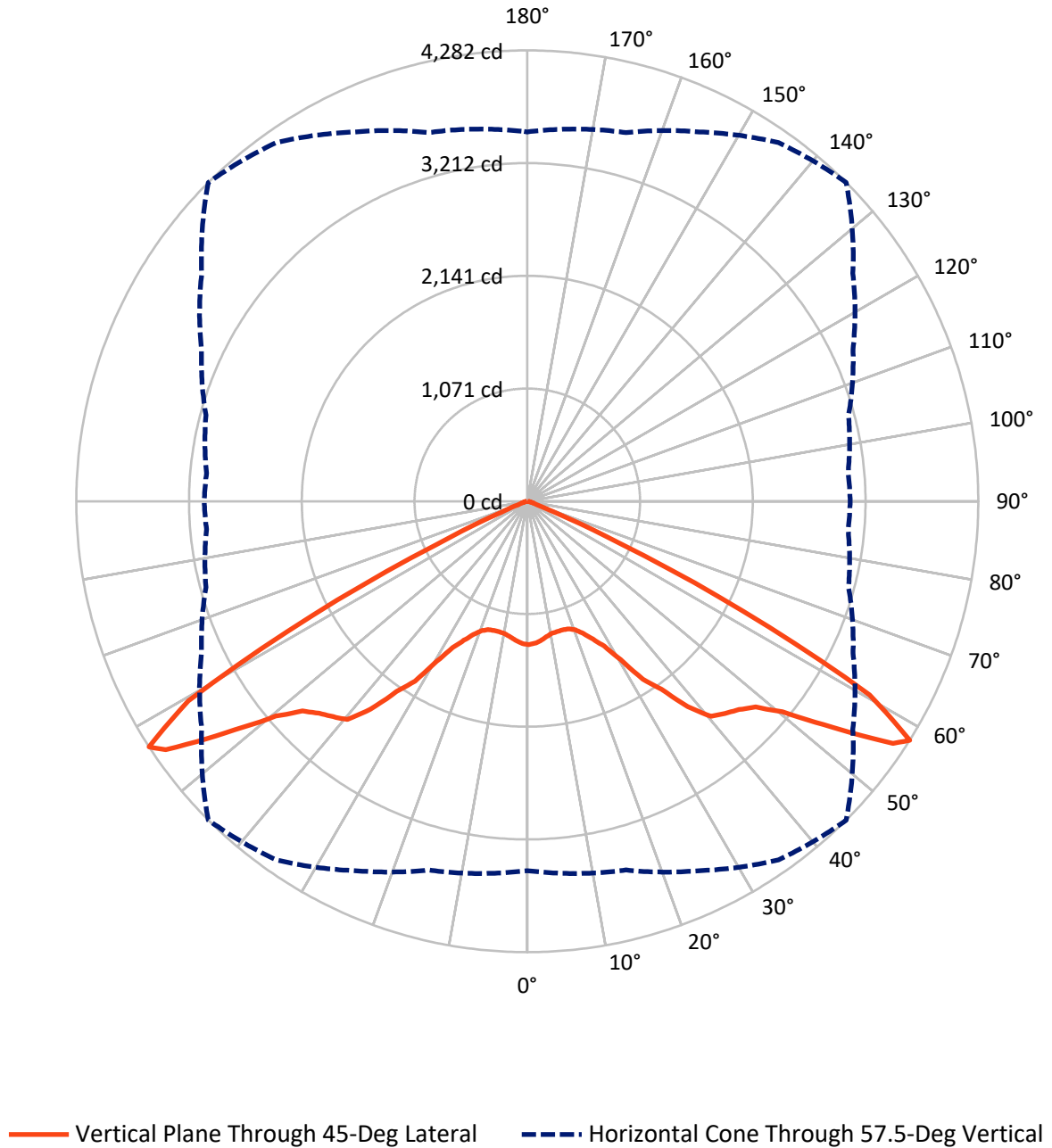
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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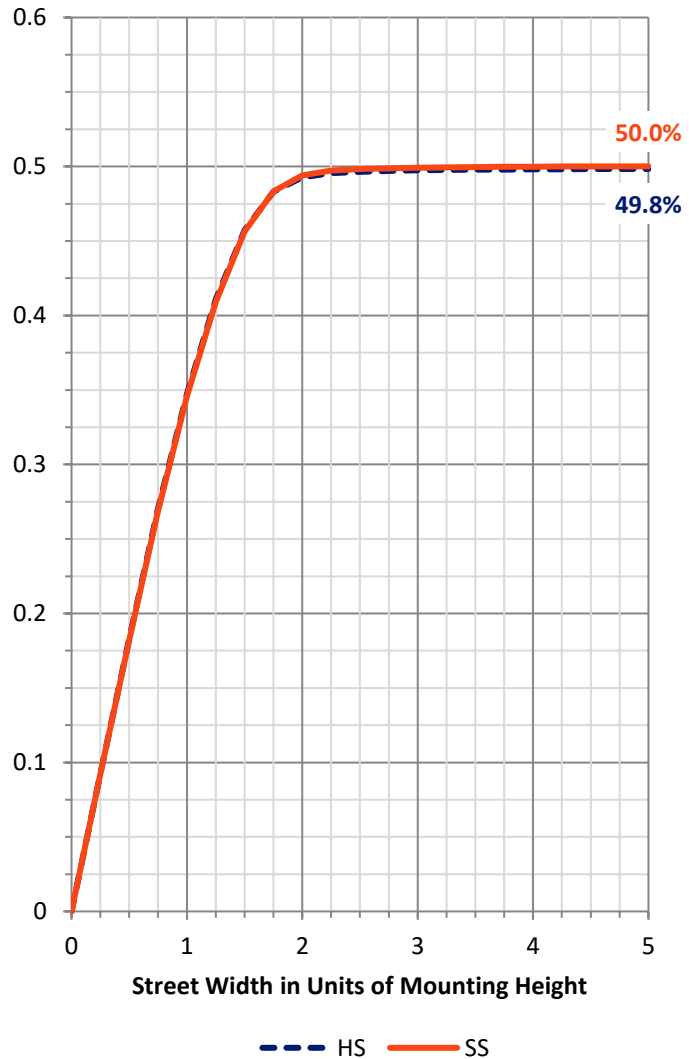
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4391.0	0.0	4391.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4391.0	0.0	4391.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	8782.0	0.0	8782.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	1.4
10°-20°	361.8	4.1
20°-30°	667.9	7.6
30°-40°	1313.4	15.0
40°-50°	2139.3	24.4
50°-60°	3050.8	34.7
60°-70°	1056.3	12.0
70°-80°	56.7	0.6
80°-90°	10.6	0.1
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°	8782.0	100.0
0°-180°	8782.0	100.0

Coefficient of Utilization

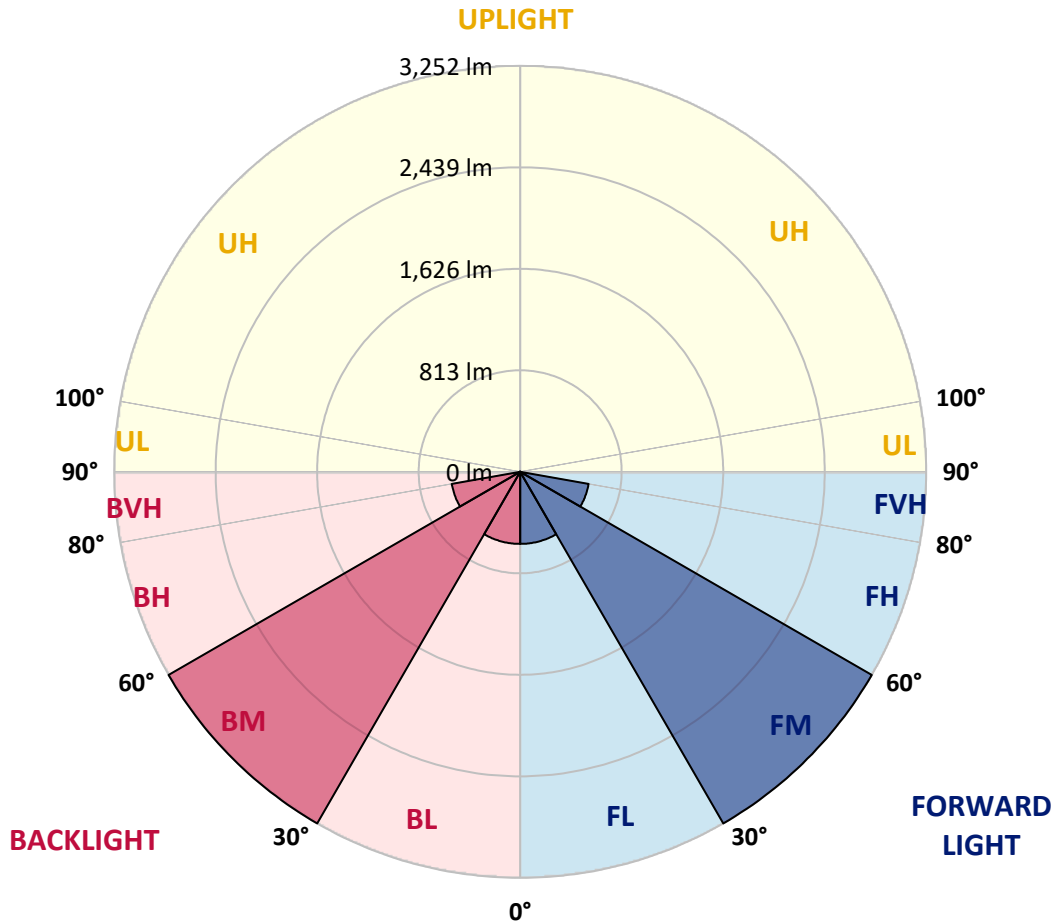


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	577.4	6.6			
FM (30°-60°)	3251.8	37.0			
FH (60°-80°)	556.5	6.3			G0/660
FVH (80°-90°)	5.3	0.1			G0/10
BL (0°-30°)	577.4	6.6	B2/1000		
BM (30°-60°)	3251.8	37.0	B3/5000		
BH (60°-80°)	556.5	6.3	B2/1000		G0/660
BVH (80°-90°)	5.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2	1362.2
2.5°	1358.5	1365.8	1356.7	1353.0	1351.2	1351.2	1345.7	1345.7	1343.9	1345.7	1338.4
5°	1336.5	1343.9	1343.9	1342.0	1331.1	1329.2	1323.7	1320.1	1321.9	1314.6	1320.1
7.5°	1314.6	1320.1	1312.7	1310.9	1307.3	1299.9	1298.1	1281.6	1283.5	1283.5	1287.1
10°	1310.9	1309.1	1298.1	1288.9	1278.0	1276.1	1270.6	1267.0	1267.0	1265.1	1270.6
12.5°	1310.9	1301.8	1299.9	1279.8	1261.5	1268.8	1254.2	1245.0	1257.8	1261.5	1268.8
15°	1309.1	1318.2	1287.1	1278.0	1265.1	1267.0	1254.2	1245.0	1252.3	1256.0	1261.5
17.5°	1320.1	1314.6	1305.4	1287.1	1281.6	1274.3	1257.8	1250.5	1250.5	1259.7	1261.5
20°	1349.4	1334.7	1316.4	1307.3	1312.7	1303.6	1283.5	1256.0	1263.3	1270.6	1276.1
22.5°	1376.8	1365.8	1353.0	1347.5	1378.7	1364.0	1329.2	1298.1	1287.1	1299.9	1309.1
25°	1429.9	1429.9	1406.1	1413.4	1448.2	1450.1	1409.8	1354.9	1347.5	1353.0	1356.7
27.5°	1537.9	1543.4	1523.3	1530.6	1545.3	1558.1	1523.3	1477.5	1461.0	1459.2	1464.7
30°	1655.1	1666.1	1664.3	1695.4	1737.5	1744.8	1693.6	1618.5	1569.1	1559.9	1567.2
32.5°	1808.9	1814.4	1810.7	1847.4	1960.9	2014.0	1880.3	1774.1	1708.2	1724.7	1708.2
35°	2098.2	2092.7	2052.4	2059.7	2153.1	2191.6	2063.4	1995.7	1964.5	1997.5	1990.2
37.5°	2347.2	2327.1	2294.1	2341.7	2438.7	2473.5	2339.9	2220.9	2164.1	2219.0	2242.8
40°	2557.7	2506.5	2460.7	2508.3	2638.3	2685.9	2490.0	2393.0	2371.0	2411.3	2462.5
42.5°	2735.3	2702.4	2642.0	2645.6	2731.7	2753.7	2596.2	2539.4	2517.5	2581.6	2607.2
45°	2861.7	2830.6	2773.8	2770.1	2836.0	2821.4	2680.4	2642.0	2654.8	2696.9	2709.7
47.5°	2925.8	2942.2	2909.3	2918.4	2953.2	2918.4	2806.8	2806.8	2777.5	2803.1	2790.3
50°	3110.7	3059.4	3101.5	3101.5	3138.1	3141.8	3030.1	2989.8	2911.1	2867.2	2867.2
52.5°	3326.7	3330.4	3346.9	3407.3	3469.5	3522.6	3363.3	3191.2	3059.4	3002.7	2995.3
55°	3504.3	3540.9	3606.8	3720.4	3899.8	3973.0	3698.4	3390.8	3229.7	3141.8	3123.5
56°	3601.4	3566.6	3680.1	3835.7	4070.1	4165.3	3753.3	3431.1	3253.5	3154.6	3152.8
57.5°	3508.0	3546.4	3625.2	3870.5	4157.9	4282.4	3773.5	3412.8	3158.3	3057.6	3066.7
60°	2770.1	2806.8	2912.9	3187.6	3638.0	3735.0	3193.1	2814.1	2587.0	2442.4	2444.2
62.5°	1567.2	1594.7	1677.1	1931.6	2211.7	2305.1	1990.2	1737.5	1580.1	1499.5	1473.9
65°	576.7	565.7	578.6	708.6	880.7	959.4	827.6	699.4	617.0	587.7	576.7
67.5°	216.0	199.6	186.8	199.6	250.8	265.5	243.5	203.2	190.4	195.9	199.6
70°	133.7	126.3	100.7	95.2	93.4	91.5	97.0	102.5	117.2	137.3	141.0
72.5°	93.4	87.9	71.4	67.7	64.1	62.3	71.4	78.7	91.5	106.2	108.0
75°	36.6	38.4	36.6	40.3	42.1	43.9	51.3	56.8	62.3	62.3	60.4
77.5°	7.3	7.3	11.0	14.6	18.3	23.8	34.8	40.3	42.1	40.3	34.8
80°	0.0	0.0	3.7	7.3	14.6	20.1	31.1	34.8	38.4	34.8	27.5
82.5°	0.0	0.0	3.7	9.2	14.6	18.3	29.3	36.6	42.1	38.4	29.3
85°	0.0	0.0	3.7	7.3	11.0	12.8	12.8	9.2	9.2	5.5	3.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)