

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: P528067

Luminaire Tested: **GALN-SA3A-827-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528067
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-827-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6894 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

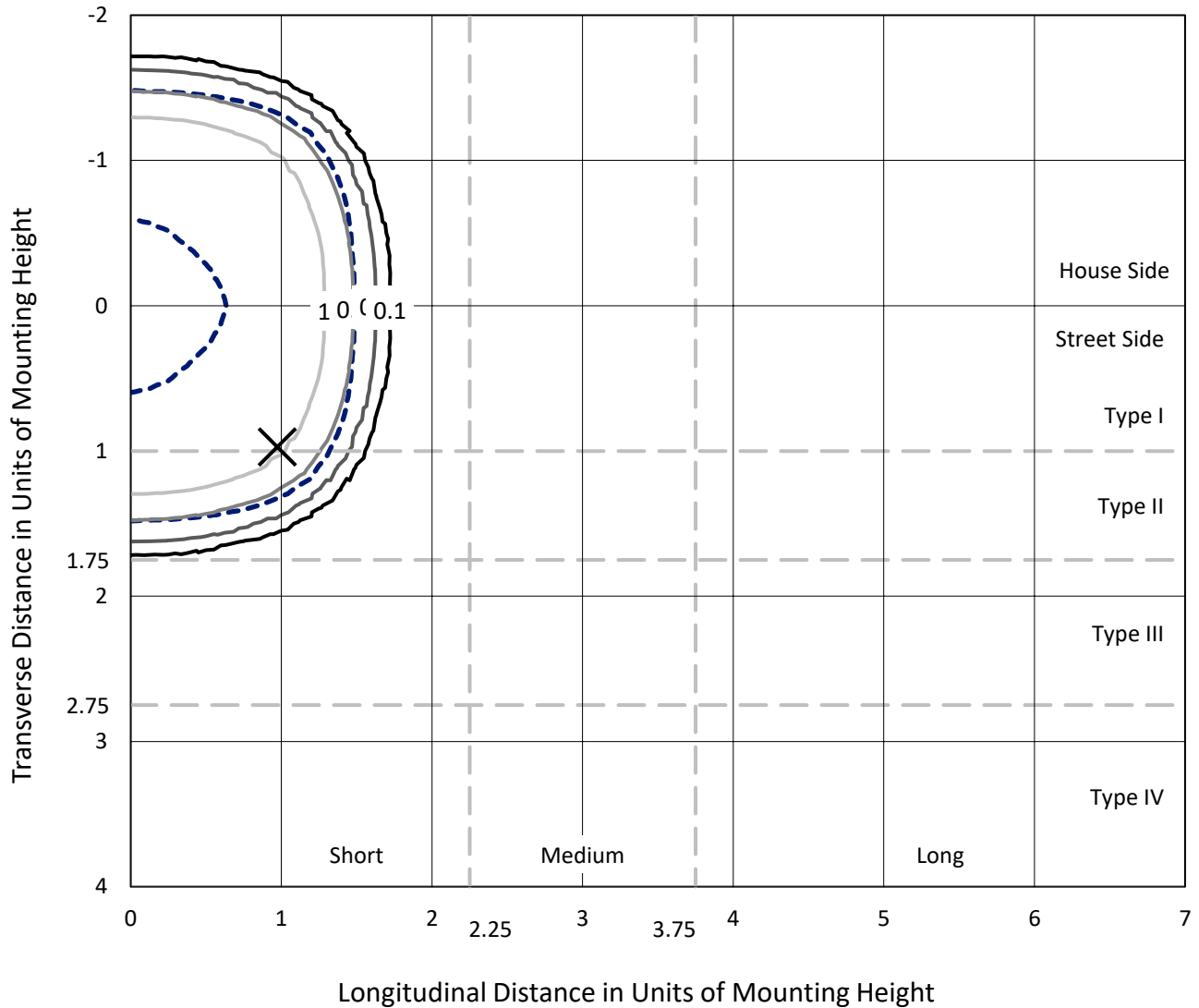
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

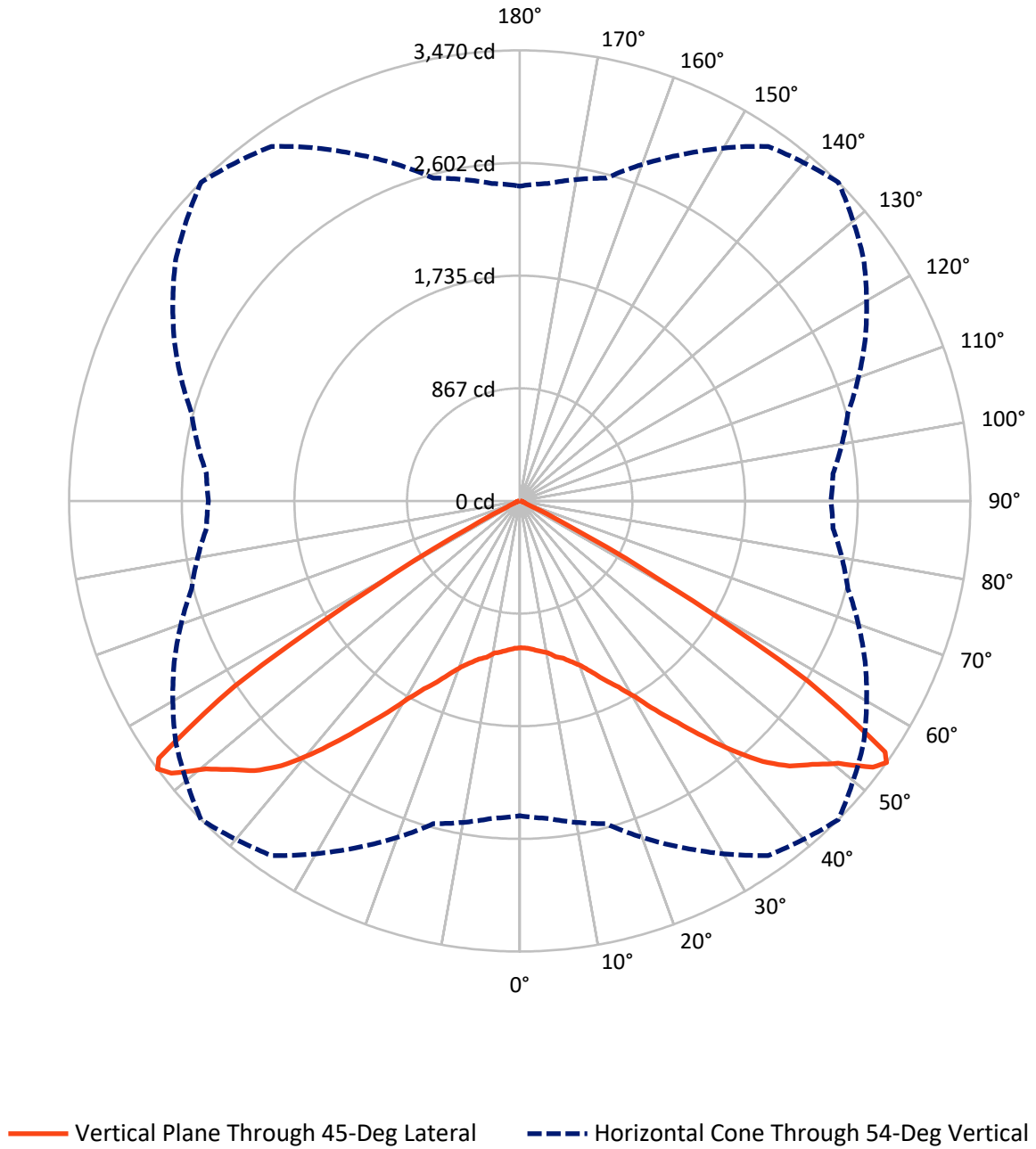
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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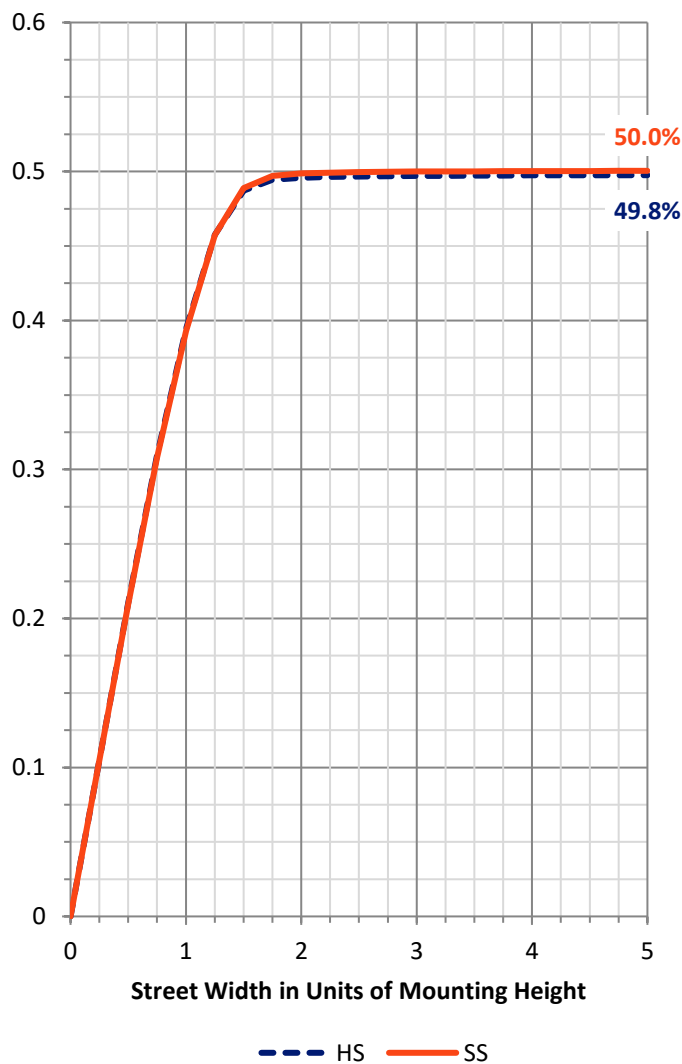
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3447.0	0.0	3447.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3447.0	0.0	3447.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6894.0	0.0	6894.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	1.6
10°-20°	358.3	5.2
20°-30°	702.2	10.2
30°-40°	1262.8	18.3
40°-50°	2161.6	31.4
50°-60°	2091.6	30.3
60°-70°	179.0	2.6
70°-80°	21.2	0.3
80°-90°	6.7	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°	6894.0	100.0
0°-180°	6894.0	100.0

Coefficient of Utilization

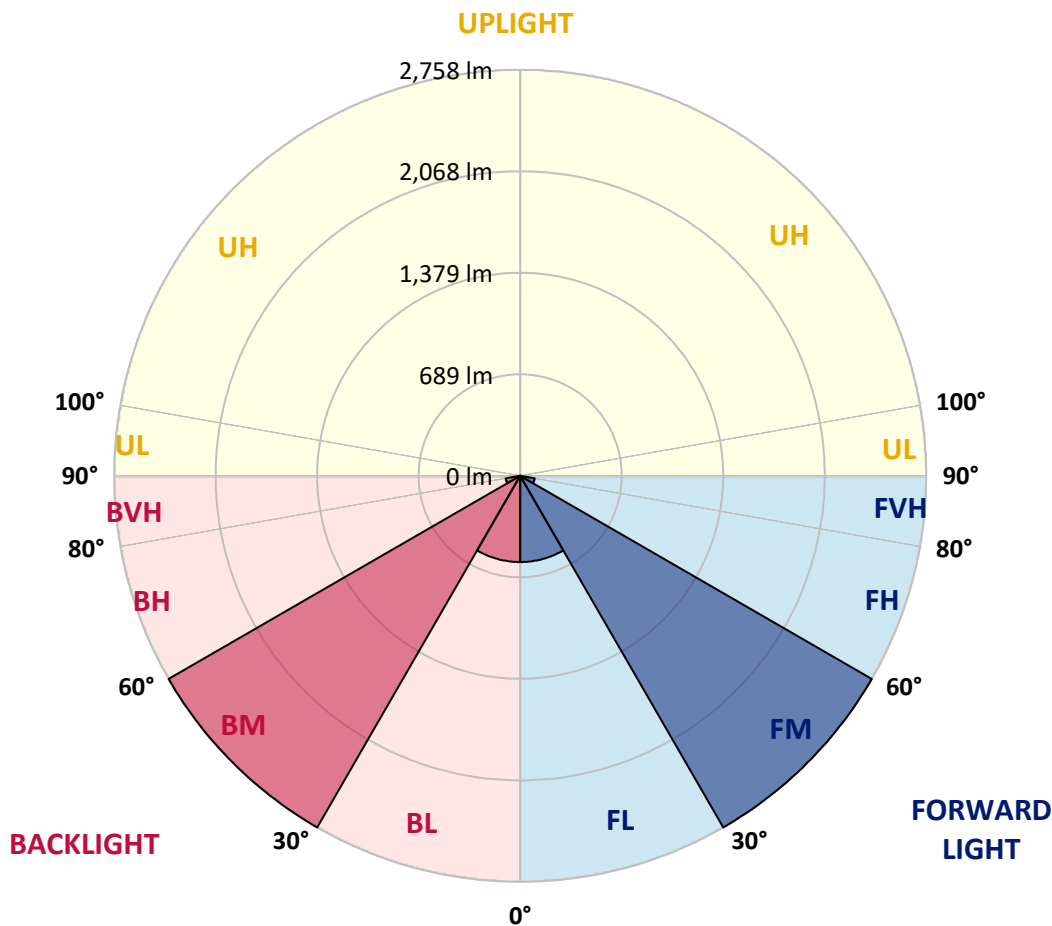


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	585.6	8.5			
FM (30°-60°)	2758.0	40.0			
FH (60°-80°)	100.1	1.5			G0/660
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	585.6	8.5	B2/1000		
BM (30°-60°)	2758.0	40.0	B3/5000		
BH (60°-80°)	100.1	1.5	B0/110		G0/660
BVH (80°-90°)	3.3	0.0			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°	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4	1130.4
2.5°	1135.9	1142.4	1138.0	1141.3	1141.3	1135.9	1139.1	1126.0	1134.8	1128.2	1129.3
5°	1153.3	1152.2	1152.2	1153.3	1149.0	1151.2	1146.8	1142.4	1139.1	1134.8	1147.9
7.5°	1175.2	1175.2	1167.5	1169.7	1167.5	1170.8	1162.1	1153.3	1150.1	1146.8	1144.6
10°	1195.9	1193.7	1190.5	1200.3	1192.7	1188.3	1183.9	1178.5	1166.4	1162.1	1157.7
12.5°	1226.5	1225.4	1221.1	1230.9	1226.5	1230.9	1214.5	1200.3	1198.1	1183.9	1191.6
15°	1262.6	1272.4	1264.7	1264.7	1262.6	1257.1	1250.5	1244.0	1224.3	1218.9	1220.0
17.5°	1309.5	1306.2	1307.3	1307.3	1318.3	1304.1	1291.0	1274.6	1264.7	1261.5	1250.5
20°	1354.3	1358.7	1357.6	1365.2	1371.8	1356.5	1342.3	1340.1	1312.8	1317.2	1301.9
22.5°	1432.9	1429.7	1435.1	1440.6	1436.2	1434.0	1420.9	1404.5	1380.5	1369.6	1367.4
25°	1515.9	1510.5	1500.6	1513.8	1520.3	1530.1	1505.0	1496.3	1459.1	1442.8	1443.9
27.5°	1586.9	1594.6	1605.5	1611.0	1627.3	1624.1	1606.6	1578.2	1549.8	1531.2	1519.2
30°	1684.1	1688.5	1707.1	1714.7	1743.1	1750.8	1723.5	1690.7	1640.4	1616.4	1602.2
32.5°	1773.7	1804.3	1803.2	1841.4	1887.3	1919.0	1869.8	1819.6	1769.3	1740.9	1715.8
35°	1919.0	1913.5	1945.2	1985.6	2059.8	2095.9	2042.4	1984.5	1908.0	1862.2	1842.5
37.5°	2054.4	2056.6	2099.2	2163.6	2248.8	2304.5	2257.5	2162.5	2083.9	2024.9	1997.6
40°	2251.0	2255.3	2299.0	2372.2	2468.3	2528.4	2473.8	2377.7	2272.8	2226.9	2226.9
42.5°	2481.4	2500.0	2528.4	2591.7	2678.0	2744.6	2695.5	2620.1	2514.2	2455.2	2463.9
45°	2718.4	2727.2	2745.7	2839.7	2880.1	2912.8	2867.0	2832.0	2761.0	2688.9	2676.9
47.5°	2940.1	2943.4	2998.0	3027.5	3059.2	3031.9	3061.4	3015.5	2935.8	2865.9	2851.7
50°	3038.4	3033.0	3110.5	3200.1	3224.1	3176.0	3150.9	3120.3	2999.1	2915.0	2877.9
52.5°	2752.3	2784.0	2928.1	3177.1	3365.0	3405.4	3259.1	3118.2	2892.1	2728.3	2703.1
54°	2424.6	2454.1	2573.2	2942.3	3333.3	3469.8	3233.9	2934.7	2615.8	2421.4	2396.2
55°	2100.3	2067.5	2283.7	2660.5	3184.8	3413.0	3134.5	2697.7	2332.9	2154.9	2119.9
57.5°	1137.0	1142.4	1324.8	1680.9	2237.9	2616.9	2311.0	1825.0	1378.3	1178.5	1161.0
60°	360.4	369.2	448.9	679.3	1069.2	1276.8	1094.4	732.8	506.8	406.3	389.9
62.5°	112.5	116.9	127.8	190.0	292.7	418.3	327.7	196.6	146.4	134.3	136.5
65°	68.8	68.8	69.9	74.3	87.4	101.6	98.3	86.3	83.0	80.8	79.7
67.5°	44.8	43.7	45.9	49.1	51.3	52.4	55.7	59.0	57.9	55.7	55.7
70°	27.3	26.2	28.4	32.8	33.9	36.0	39.3	43.7	42.6	40.4	41.5
72.5°	15.3	15.3	16.4	19.7	22.9	25.1	28.4	31.7	32.8	31.7	31.7
75°	5.5	6.6	8.7	12.0	14.2	17.5	20.8	24.0	27.3	25.1	24.0
77.5°	2.2	2.2	4.4	7.6	10.9	14.2	19.7	22.9	25.1	22.9	20.8
80°	1.1	1.1	3.3	6.6	9.8	13.1	16.4	19.7	20.8	18.6	16.4
82.5°	1.1	1.1	3.3	6.6	9.8	12.0	17.5	19.7	21.8	19.7	16.4
85°	0.0	1.1	3.3	6.6	8.7	9.8	9.8	6.6	5.5	3.3	3.3
87.5°	0.0	0.0	1.1	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)