

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: P647806

Luminaire Tested: **GALN-SA3A-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647806
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-835-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 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: 7343 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

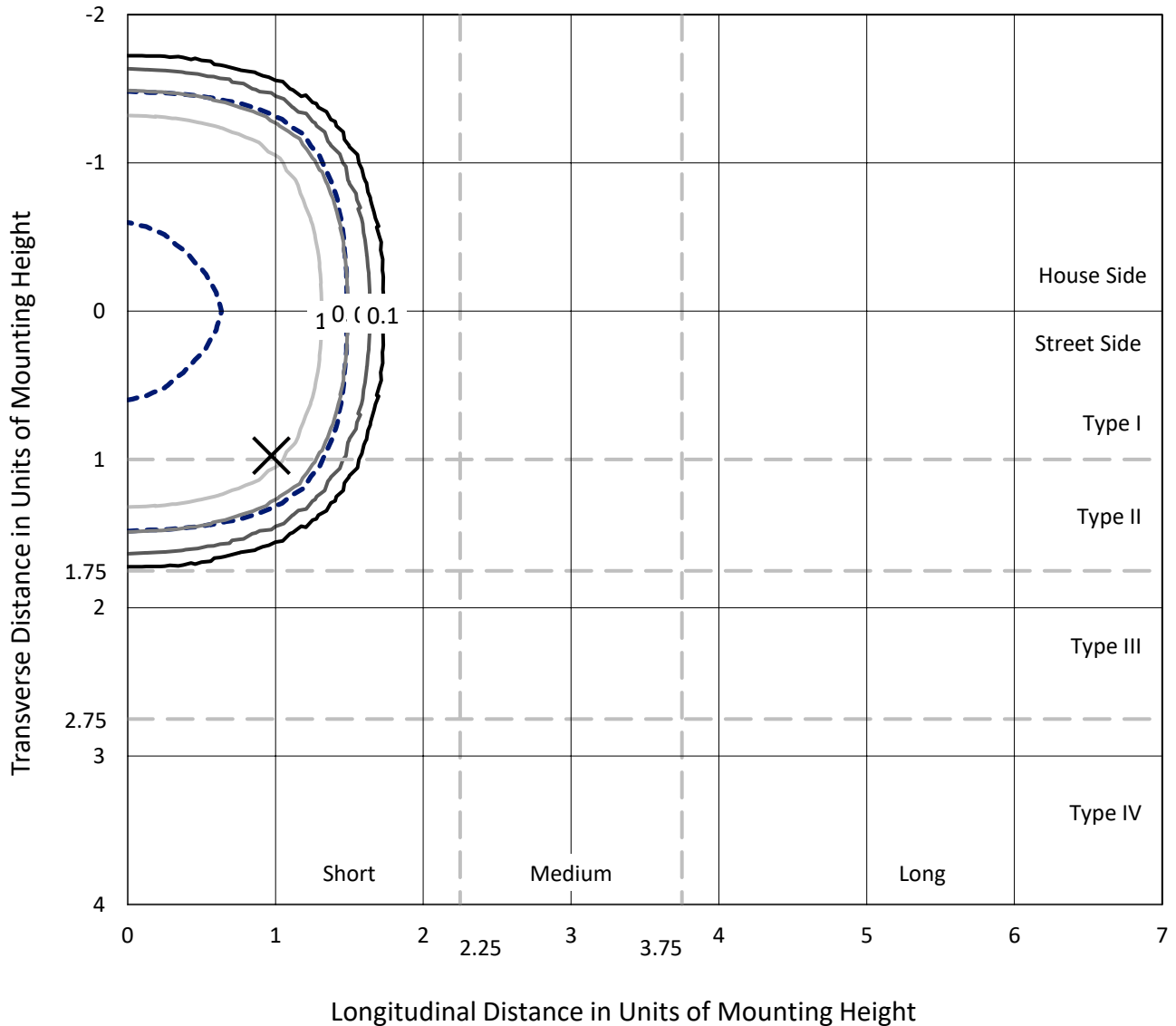
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

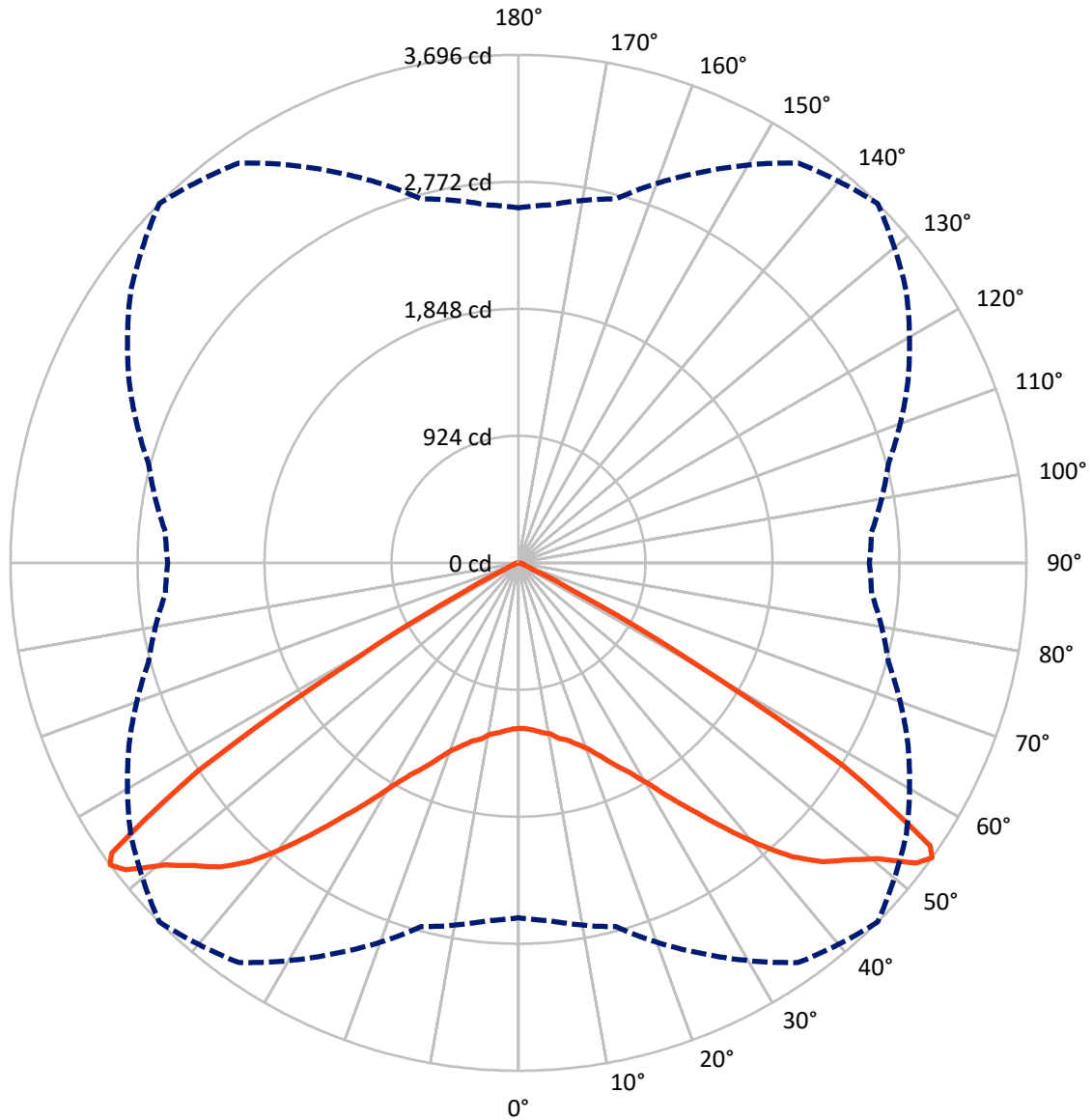
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3671.5	0.0	3671.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3671.5	0.0	3671.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	7343.0	0.0	7343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	1.6
10°-20°	381.6	5.2
20°-30°	748.0	10.2
30°-40°	1345.0	18.3
40°-50°	2302.4	31.4
50°-60°	2227.8	30.3
60°-70°	190.7	2.6
70°-80°	22.6	0.3
80°-90°	7.1	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°	7343.0	100.0
0°-180°	7343.0	100.0

Coefficient of Utilization



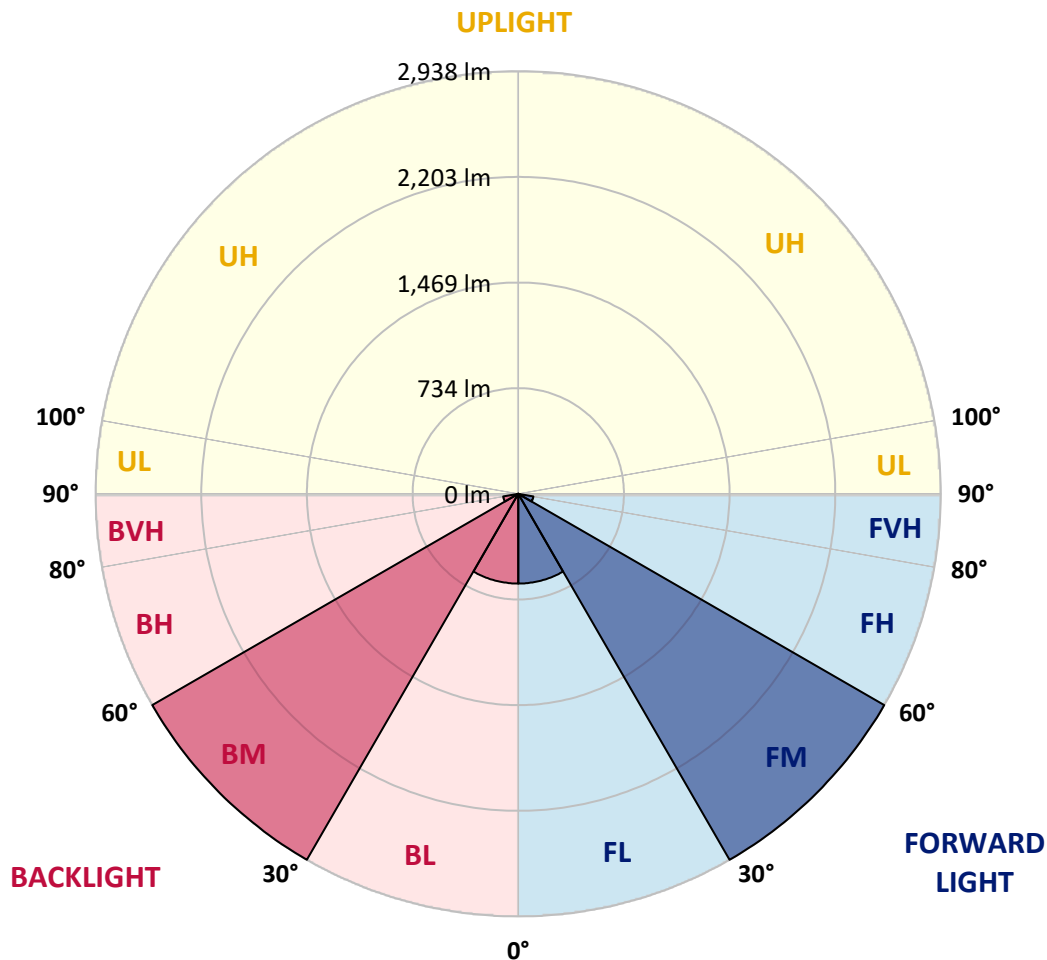
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	623.7	8.5			
FM (30°-60°)	2937.6	40.0			
FH (60°-80°)	106.7	1.5			G0/660
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	623.7	8.5	B2/1000		
BM (30°-60°)	2937.6	40.0	B3/5000		
BH (60°-80°)	106.7	1.5	B0/110		G0/660
BVH (80°-90°)	3.5	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°	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0	1204.0
2.5°	1209.8	1216.8	1212.2	1215.7	1215.7	1209.8	1213.3	1199.4	1208.6	1201.7	1202.8
5°	1228.4	1227.3	1227.3	1228.4	1223.8	1226.1	1221.5	1216.8	1213.3	1208.6	1222.7
7.5°	1251.7	1251.7	1243.6	1245.9	1243.6	1247.1	1237.8	1228.4	1224.9	1221.5	1219.1
10°	1273.8	1271.5	1268.0	1278.5	1270.3	1265.6	1261.0	1255.2	1242.4	1237.8	1233.1
12.5°	1306.4	1305.3	1300.6	1311.1	1306.4	1311.1	1293.6	1278.5	1276.1	1261.0	1269.2
15°	1344.8	1355.2	1347.1	1347.1	1344.8	1338.9	1332.0	1325.0	1304.1	1298.2	1299.4
17.5°	1394.8	1391.3	1392.5	1392.5	1404.1	1389.0	1375.0	1357.6	1347.1	1343.6	1332.0
20°	1442.5	1447.1	1446.0	1454.1	1461.1	1444.8	1429.7	1427.4	1398.3	1403.0	1386.7
22.5°	1526.2	1522.8	1528.6	1534.4	1529.7	1527.4	1513.5	1496.0	1470.4	1458.8	1456.5
25°	1614.7	1608.8	1598.4	1612.4	1619.3	1629.8	1603.0	1593.7	1554.2	1536.7	1537.9
27.5°	1690.3	1698.4	1710.1	1715.9	1733.3	1729.8	1711.2	1680.9	1650.7	1631.0	1618.1
30°	1793.8	1798.5	1818.2	1826.3	1856.6	1864.8	1835.7	1800.8	1747.3	1721.7	1706.5
32.5°	1889.2	1921.8	1920.6	1961.3	2010.2	2043.9	1991.6	1938.1	1884.5	1854.3	1827.5
35°	2043.9	2038.1	2071.8	2114.9	2194.0	2232.4	2175.4	2113.7	2032.3	1983.4	1962.5
37.5°	2188.2	2190.5	2235.9	2304.5	2395.3	2454.5	2404.5	2303.4	2219.6	2156.8	2127.6
40°	2397.5	2402.2	2448.8	2526.7	2629.1	2693.1	2634.9	2532.5	2420.8	2371.9	2371.9
42.5°	2643.0	2662.8	2693.1	2760.5	2852.4	2923.4	2871.0	2790.8	2677.9	2615.1	2624.4
45°	2895.5	2904.8	2924.6	3024.6	3067.6	3102.6	3053.7	3016.4	2940.9	2864.1	2851.3
47.5°	3131.6	3135.1	3193.2	3224.7	3258.4	3229.3	3260.7	3211.9	3127.0	3052.5	3037.4
50°	3236.3	3230.5	3313.1	3408.5	3434.1	3382.9	3356.1	3323.5	3194.4	3104.8	3065.3
52.5°	2931.6	2965.3	3118.8	3384.0	3584.1	3627.2	3471.3	3321.3	3080.4	2905.9	2879.2
54°	2582.6	2614.0	2740.7	3134.0	3550.4	3695.8	3444.6	3125.8	2786.1	2579.0	2552.3
55°	2237.0	2202.1	2432.5	2833.8	3392.2	3635.3	3338.7	2873.4	2484.9	2295.2	2257.9
57.5°	1211.0	1216.8	1411.1	1790.3	2383.6	2787.2	2461.5	1943.9	1468.1	1255.2	1236.6
60°	383.9	393.2	478.1	723.6	1138.9	1359.9	1165.7	780.6	539.8	432.8	415.3
62.5°	119.8	124.5	136.1	202.4	311.8	445.5	349.0	209.4	155.9	143.1	145.4
65°	73.3	73.3	74.5	79.1	93.1	108.2	104.7	91.9	88.4	86.1	85.0
67.5°	47.7	46.5	48.9	52.4	54.7	55.8	59.4	62.8	61.6	59.4	59.4
70°	29.0	28.0	30.2	34.9	36.1	38.4	41.9	46.5	45.3	43.1	44.2
72.5°	16.3	16.3	17.5	20.9	24.4	26.8	30.2	33.7	34.9	33.7	33.7
75°	5.8	7.0	9.3	12.8	15.1	18.6	22.1	25.6	29.0	26.8	25.6
77.5°	2.3	2.3	4.6	8.1	11.7	15.1	20.9	24.4	26.8	24.4	22.1
80°	1.2	1.2	3.5	7.0	10.5	13.9	17.5	20.9	22.1	19.8	17.5
82.5°	1.2	1.2	3.5	7.0	10.5	12.8	18.6	20.9	23.3	20.9	17.5
85°	0.0	1.2	3.5	7.0	9.3	10.5	10.5	7.0	5.8	3.5	3.5
87.5°	0.0	0.0	1.2	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)