

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: P528091

Luminaire Tested: **GALN-SA3A-830-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528091
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-830-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6511 lumens
Efficiency: N/A
Efficacy: 70.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - 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

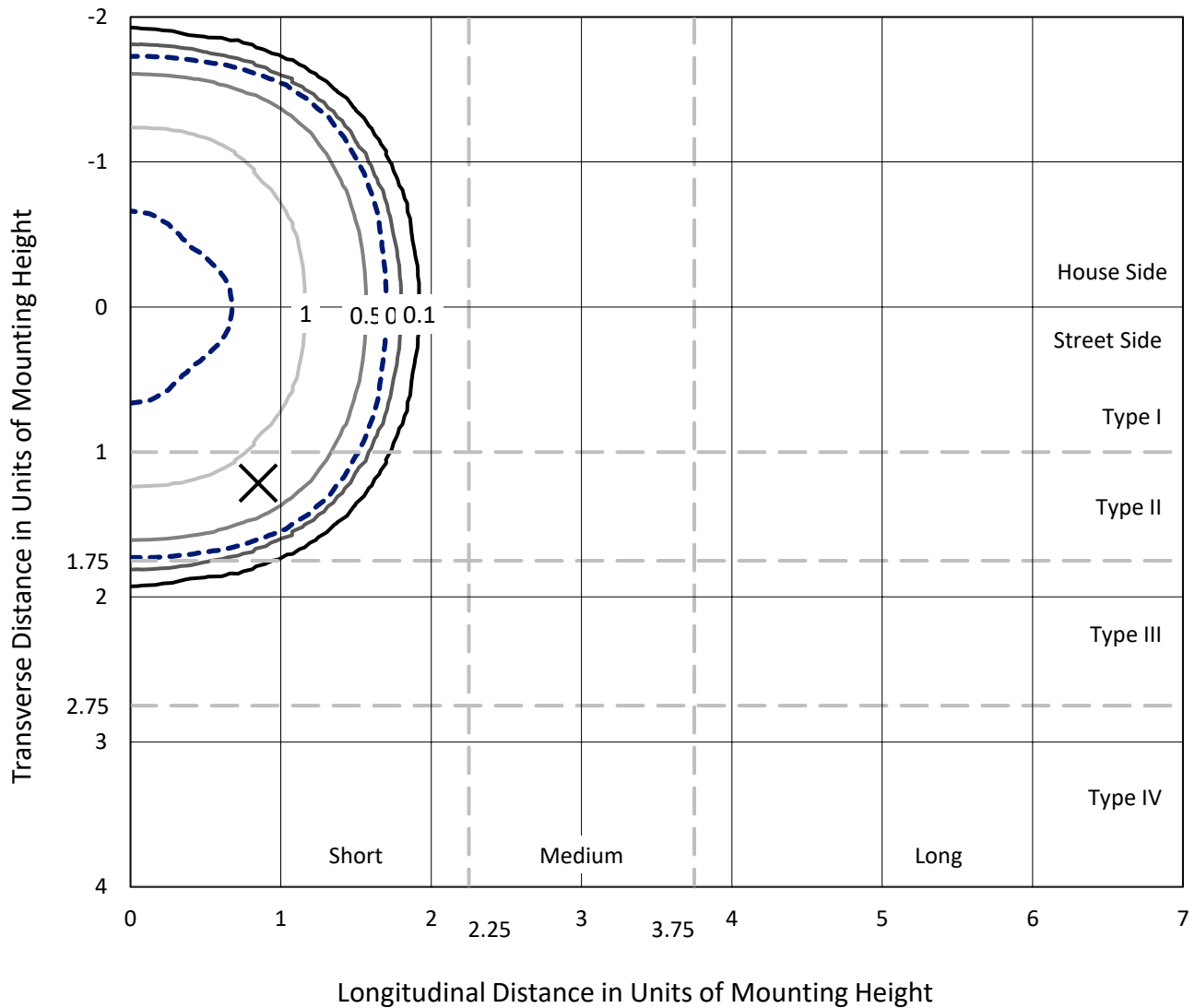


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Iso-Footcandle Lines of Horizontal Illumination

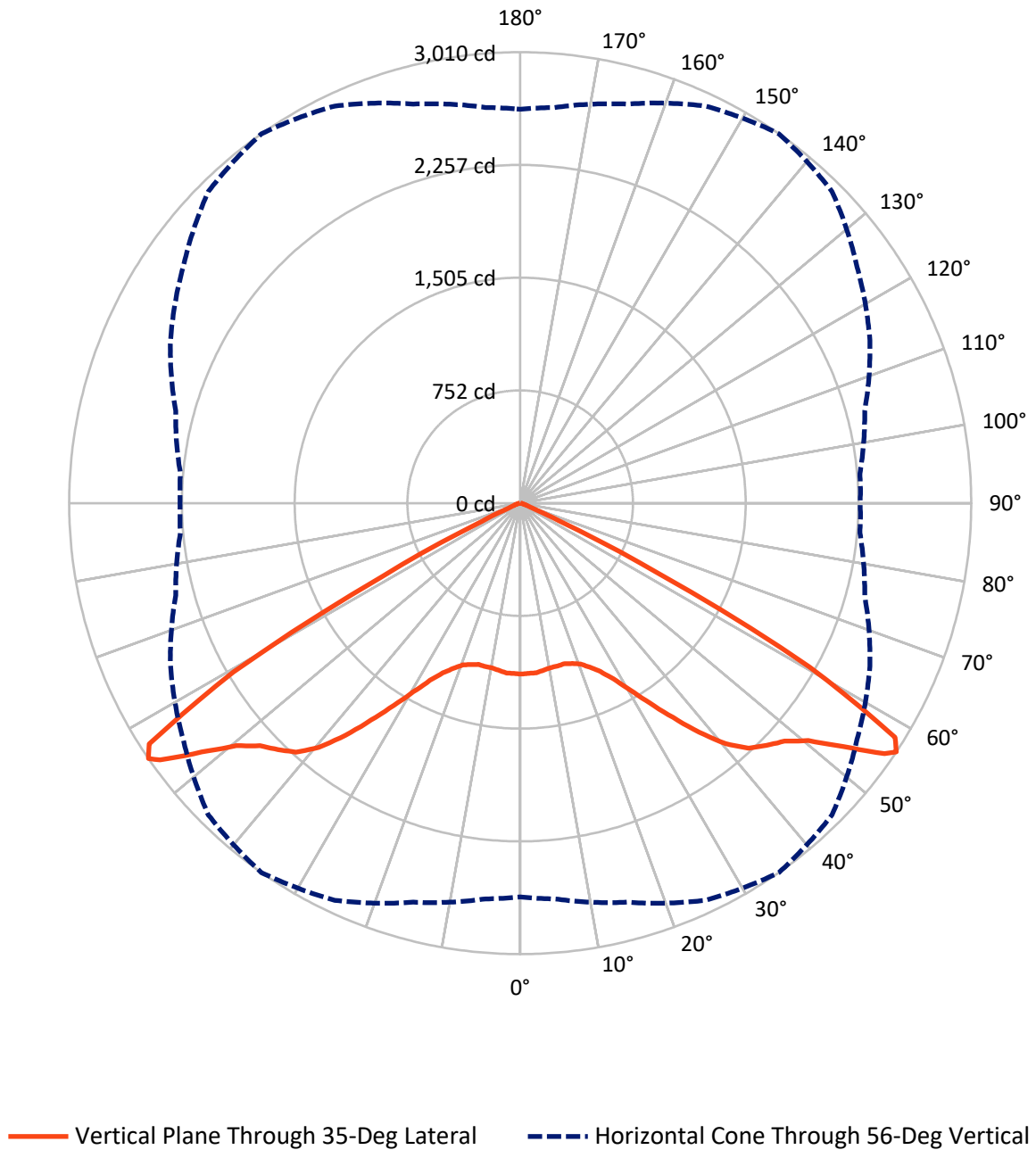
✕ Max cd
 - - - 1/2 Max cd



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	3255.5	0.0	3255.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3255.5	0.0	3255.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6511.0	0.0	6511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	1.6
10°-20°	313.0	4.8
20°-30°	566.9	8.7
30°-40°	1051.2	16.1
40°-50°	1725.5	26.5
50°-60°	2222.9	34.1
60°-70°	489.9	7.5
70°-80°	28.4	0.4
80°-90°	6.0	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°	6511.0	100.0
0°-180°	6511.0	100.0

Coefficient of Utilization



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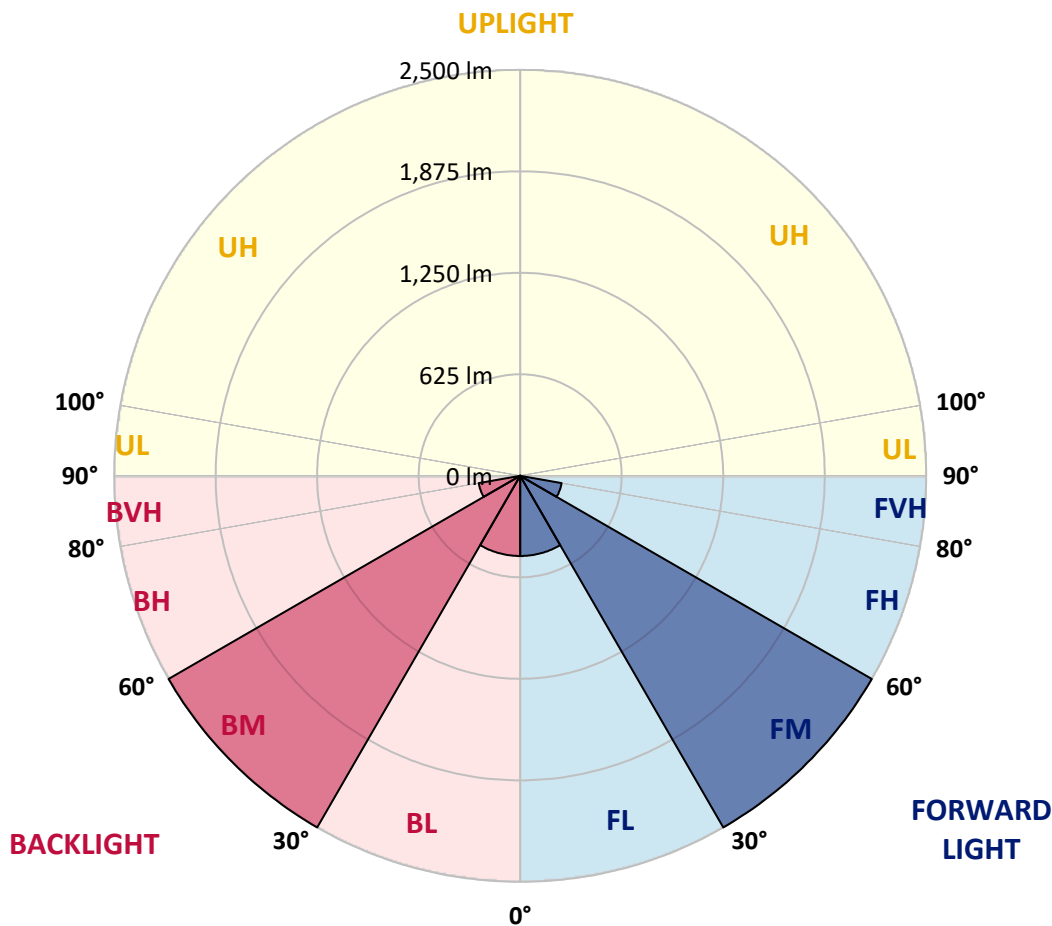
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	493.6	7.6			
FM	(30°-60°)	2499.8	38.4			
FH	(60°-80°)	259.2	4.0			G0/660
FVH	(80°-90°)	3.0	0.0			G0/10
BL	(0°-30°)	493.6	7.6	B1/500		
BM	(30°-60°)	2499.8	38.4	B2/2500		
BH	(60°-80°)	259.2	4.0	B1/500		G0/660
BVH	(80°-90°)	3.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9	1140.9
2.5°	1143.2	1143.2	1144.4	1145.6	1137.3	1133.8	1135.0	1132.6	1131.4	1135.0	1135.0
5°	1139.7	1139.7	1136.1	1137.3	1137.3	1126.7	1126.7	1129.1	1129.1	1122.0	1119.6
7.5°	1130.2	1127.9	1123.2	1129.1	1125.5	1125.5	1117.3	1111.4	1109.0	1113.7	1109.0
10°	1110.2	1111.4	1116.1	1118.5	1116.1	1123.2	1109.0	1100.8	1092.5	1089.0	1089.0
12.5°	1100.8	1107.8	1100.8	1106.7	1114.9	1109.0	1100.8	1094.9	1083.1	1078.3	1078.3
15°	1099.6	1104.3	1106.7	1114.9	1111.4	1113.7	1097.2	1090.1	1072.4	1064.2	1060.6
17.5°	1098.4	1104.3	1107.8	1123.2	1125.5	1126.7	1113.7	1092.5	1077.2	1068.9	1060.6
20°	1111.4	1113.7	1120.8	1136.1	1145.6	1162.1	1138.5	1116.1	1083.1	1073.6	1070.1
22.5°	1127.9	1139.7	1146.8	1163.3	1188.1	1202.2	1171.5	1143.2	1109.0	1097.2	1083.1
25°	1181.0	1178.6	1190.4	1224.6	1244.7	1255.3	1230.5	1189.2	1144.4	1130.2	1132.6
27.5°	1247.0	1249.4	1260.0	1297.8	1327.3	1343.8	1314.3	1260.0	1216.4	1192.8	1190.4
30°	1333.2	1330.8	1342.6	1393.3	1446.4	1471.2	1419.3	1355.6	1313.1	1282.4	1289.5
32.5°	1424.0	1425.2	1458.2	1504.2	1590.4	1638.7	1555.0	1477.1	1413.4	1392.2	1381.5
35°	1558.5	1564.4	1590.4	1661.2	1756.7	1819.3	1727.2	1634.0	1560.9	1521.9	1526.7
37.5°	1724.9	1719.0	1762.6	1839.3	1939.6	1985.6	1907.7	1801.6	1727.2	1701.3	1717.8
40°	1901.8	1907.7	1930.2	1999.8	2111.8	2142.5	2026.9	1969.1	1904.2	1891.2	1911.3
42.5°	2078.8	2075.3	2091.8	2154.3	2235.7	2214.5	2146.1	2111.8	2065.8	2039.9	2067.0
45°	2208.6	2202.7	2233.4	2275.8	2305.3	2265.2	2234.5	2222.7	2199.1	2170.8	2195.6
47.5°	2334.8	2330.1	2359.6	2371.4	2373.8	2320.7	2326.6	2347.8	2288.8	2229.8	2258.1
50°	2442.2	2433.9	2470.5	2496.5	2490.6	2405.6	2426.8	2405.6	2313.6	2244.0	2233.4
52.5°	2621.5	2625.1	2664.0	2711.2	2697.0	2626.2	2595.6	2498.8	2380.8	2318.3	2281.7
55°	2734.8	2717.1	2784.3	2934.2	2950.7	2877.5	2741.9	2599.1	2422.1	2345.4	2336.0
56°	2628.6	2651.0	2757.2	2924.7	3009.7	2942.4	2745.4	2574.3	2379.7	2275.8	2268.8
57.5°	2358.4	2346.6	2490.6	2719.4	2950.7	2922.4	2648.7	2397.4	2170.8	2054.0	2039.9
60°	1467.7	1501.9	1628.1	1911.3	2220.4	2234.5	1963.2	1747.3	1483.0	1379.2	1404.0
62.5°	574.6	545.1	624.1	835.3	1047.7	1094.9	992.2	824.7	677.2	574.6	567.5
65°	133.3	129.8	146.3	201.7	282.0	326.8	310.3	223.0	164.0	155.7	143.9
67.5°	75.5	75.5	72.0	72.0	79.0	83.8	80.2	79.0	82.6	86.1	84.9
70°	53.1	51.9	49.6	50.7	48.4	48.4	51.9	57.8	62.5	62.5	63.7
72.5°	31.9	31.9	31.9	35.4	35.4	35.4	38.9	43.7	44.8	43.7	42.5
75°	14.2	14.2	16.5	20.1	22.4	23.6	27.1	29.5	31.9	29.5	27.1
77.5°	3.5	3.5	5.9	8.3	10.6	13.0	17.7	21.2	22.4	21.2	17.7
80°	1.2	1.2	2.4	5.9	10.6	13.0	17.7	18.9	20.1	17.7	14.2
82.5°	1.2	1.2	2.4	5.9	8.3	10.6	14.2	16.5	17.7	15.3	14.2
85°	0.0	1.2	2.4	4.7	7.1	9.4	9.4	7.1	5.9	3.5	4.7
87.5°	0.0	0.0	1.2	1.2	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)