

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: P451529

Luminaire Tested: **GALN-SA2B-830-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451529
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2B-830-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9382 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 82
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



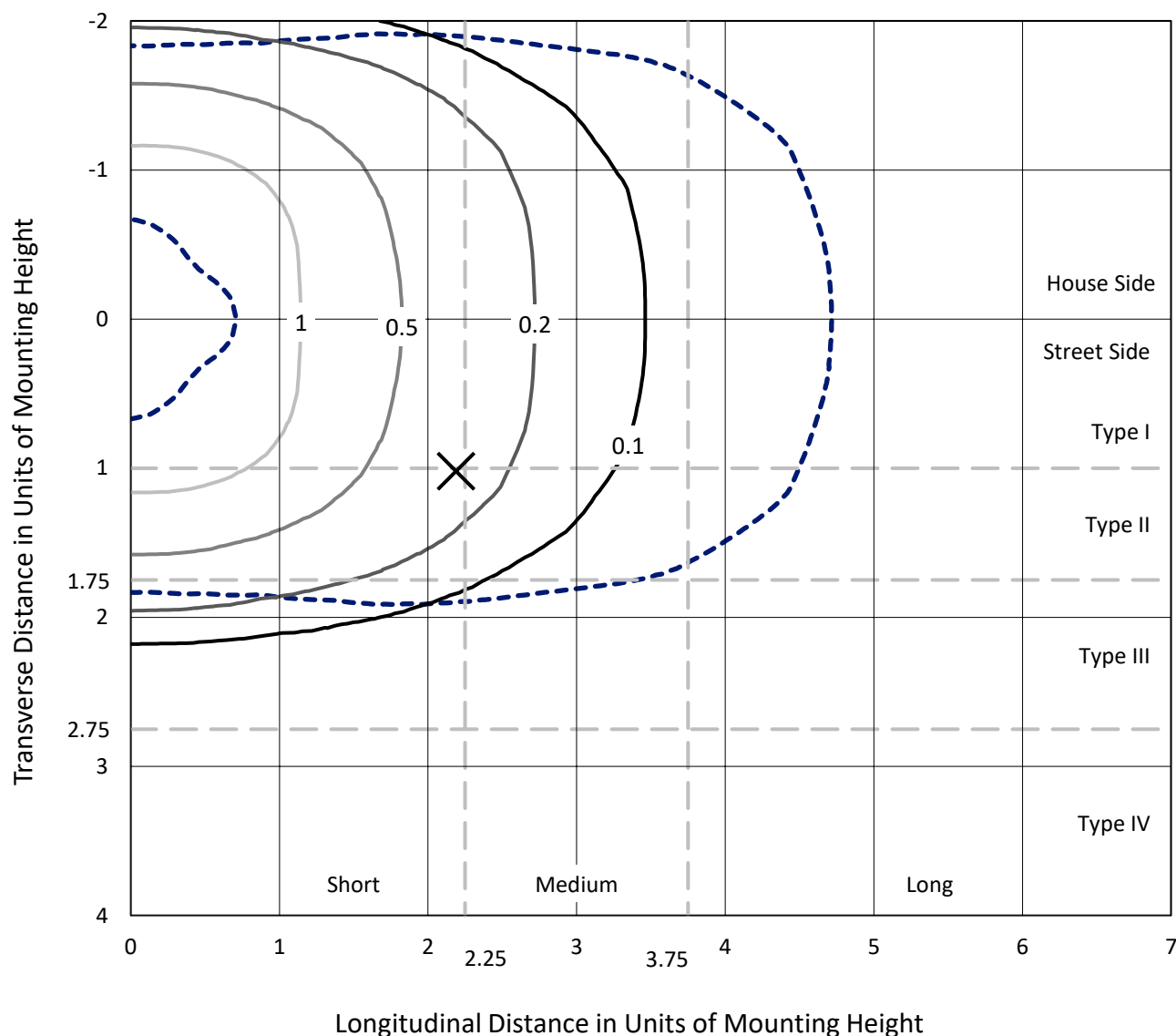
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



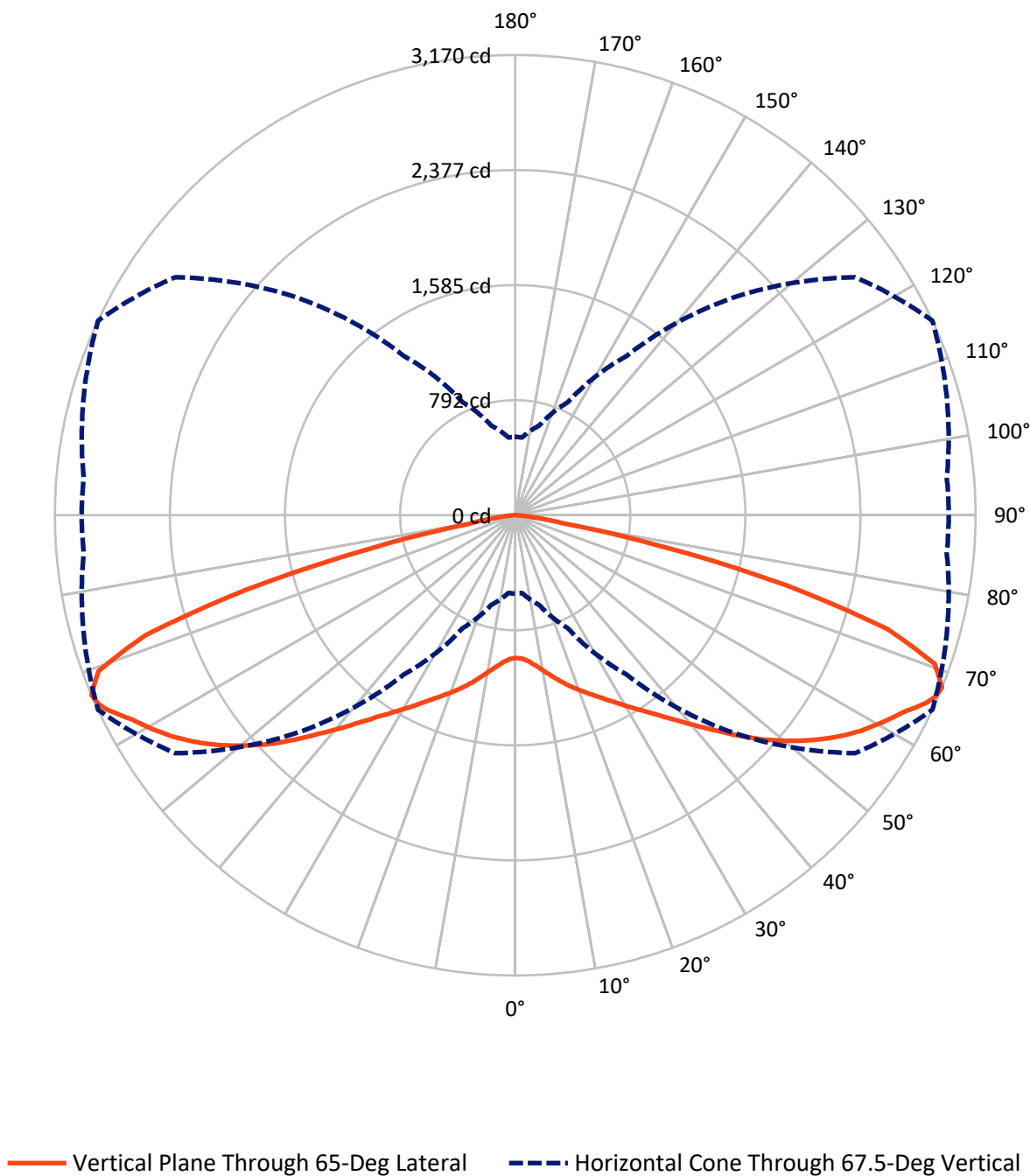
Based on 25 foot mounting height. Maximum calculated value = 1.8 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4691.0	0.0	4691.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4691.0	0.0	4691.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	9382.0	0.0	9382.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	1.0
10°-20°	324.4	3.5
20°-30°	634.5	6.8
30°-40°	1079.2	11.5
40°-50°	1708.1	18.2
50°-60°	2264.9	24.1
60°-70°	2136.5	22.8
70°-80°	1056.2	11.3
80°-90°	81.4	0.9
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°	9382.0	100.0
0°-180°	9382.0	100.0

Coefficient of Utilization



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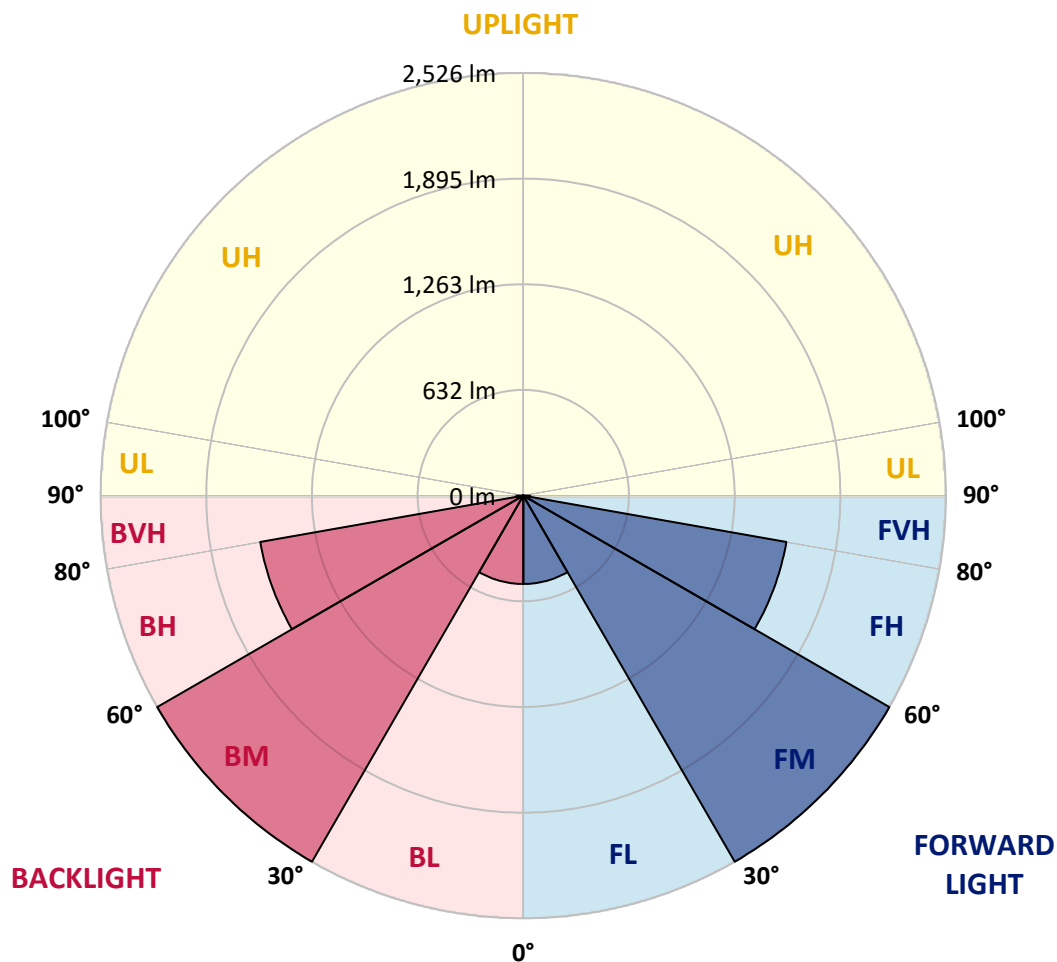
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	527.9	5.6			
FM	(30°-60°)	2526.1	26.9			
FH	(60°-80°)	1596.3	17.0			G1/1800
FVH	(80°-90°)	40.7	0.4			G1/100
BL	(0°-30°)	527.9	5.6	B2/1000		
BM	(30°-60°)	2526.1	26.9	B3/5000		
BH	(60°-80°)	1596.3	17.0	B3/2500		G3/2500
BVH	(80°-90°)	40.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7	982.7
2.5°	977.7	978.7	979.7	981.2	983.2	986.2	988.2	989.7	993.7	994.2	993.7
5°	974.1	975.1	977.7	982.2	988.7	997.8	1004.8	1013.3	1019.9	1024.4	1023.4
7.5°	973.6	975.6	979.7	989.2	1001.8	1017.4	1033.4	1048.0	1060.6	1070.6	1069.1
10°	981.7	984.2	990.7	1004.8	1024.4	1047.0	1069.6	1091.3	1109.3	1122.4	1126.9
12.5°	995.2	997.3	1009.3	1030.4	1058.6	1086.7	1112.4	1139.0	1164.1	1186.3	1186.3
15°	1018.9	1022.4	1037.5	1068.1	1102.8	1135.5	1161.6	1189.8	1216.9	1242.0	1249.6
17.5°	1051.5	1056.6	1079.2	1118.4	1162.6	1192.8	1217.4	1240.5	1264.2	1288.3	1291.8
20°	1096.3	1101.3	1131.5	1178.7	1231.0	1267.2	1283.8	1289.3	1300.9	1324.0	1327.0
22.5°	1157.1	1162.1	1195.8	1249.1	1307.4	1346.6	1353.6	1340.6	1337.6	1355.6	1357.7
25°	1226.0	1230.5	1269.2	1326.5	1386.8	1429.5	1427.5	1395.4	1377.3	1388.3	1391.3
27.5°	1303.4	1309.9	1349.1	1408.4	1473.8	1511.5	1505.4	1458.7	1420.0	1418.0	1419.0
30°	1402.4	1409.4	1446.6	1503.4	1567.8	1602.4	1589.9	1527.1	1467.2	1447.1	1447.1
32.5°	1506.9	1524.5	1562.2	1621.6	1671.8	1696.9	1677.8	1602.4	1523.0	1494.9	1493.4
35°	1643.2	1652.7	1689.9	1747.7	1785.4	1805.0	1768.3	1687.4	1595.9	1562.7	1558.2
37.5°	1776.4	1784.4	1827.6	1882.9	1928.7	1927.7	1877.9	1788.4	1686.4	1649.2	1646.2
40°	1912.6	1921.1	1970.4	2021.2	2066.9	2062.9	2002.6	1902.5	1794.0	1752.2	1760.3
42.5°	2030.7	2040.3	2096.1	2168.4	2209.7	2208.6	2138.8	2026.2	1913.1	1875.9	1882.9
45°	2138.3	2146.8	2211.7	2294.6	2354.9	2362.5	2286.1	2166.9	2050.8	2003.1	2005.1
47.5°	2214.2	2230.3	2298.1	2393.1	2475.1	2501.7	2426.8	2310.2	2176.5	2126.7	2129.7
50°	2272.0	2282.0	2355.9	2464.0	2567.5	2622.8	2562.5	2442.9	2302.1	2249.4	2256.4
52.5°	2279.0	2291.1	2371.5	2496.2	2628.9	2712.8	2683.1	2572.6	2430.3	2376.0	2391.1
55°	2221.7	2228.8	2324.8	2476.1	2653.0	2779.7	2787.2	2693.2	2552.5	2511.2	2521.3
57.5°	2058.4	2076.4	2198.1	2382.1	2619.8	2815.3	2865.1	2802.8	2676.1	2635.4	2651.5
60°	1790.4	1808.5	1930.7	2163.9	2494.7	2798.8	2929.4	2899.8	2788.2	2755.5	2764.1
62.5°	1402.9	1401.4	1552.7	1838.7	2245.8	2717.3	2977.2	2993.3	2898.8	2857.6	2870.6
65°	909.3	913.8	1060.1	1368.2	1870.4	2510.2	2987.8	3112.4	3007.4	2945.0	2954.6
66°	731.4	744.9	869.1	1153.1	1678.9	2374.5	2956.1	3147.6	3040.5	2965.1	2969.7
67.5°	539.8	537.3	639.4	858.5	1340.6	2116.7	2857.1	3169.7	3078.2	2983.2	2985.2
70°	308.1	307.6	343.8	471.5	788.2	1490.4	2408.2	3063.7	3154.6	3048.6	3043.0
72.5°	225.2	223.7	228.7	260.4	384.5	752.5	1661.3	2677.6	3115.4	3038.0	3022.4
75°	189.0	188.0	187.0	191.0	215.6	340.8	881.6	1926.2	2703.3	2851.5	2835.5
77.5°	154.3	154.3	154.8	153.8	154.8	179.4	365.4	1032.4	1646.2	1837.7	1882.4
80°	120.6	120.1	128.7	125.2	117.1	115.1	161.9	332.3	546.4	543.4	448.4
82.5°	89.0	82.9	98.0	95.5	86.5	73.4	94.5	141.7	182.5	118.6	88.0
85°	56.3	55.8	69.4	63.3	52.8	34.7	45.2	60.8	75.4	45.7	37.2
87.5°	10.1	9.6	22.1	16.1	16.1	10.1	12.6	16.6	24.6	17.1	12.6
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)