

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: P451756

Luminaire Tested: **GALN-SA2C-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11783 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 108
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



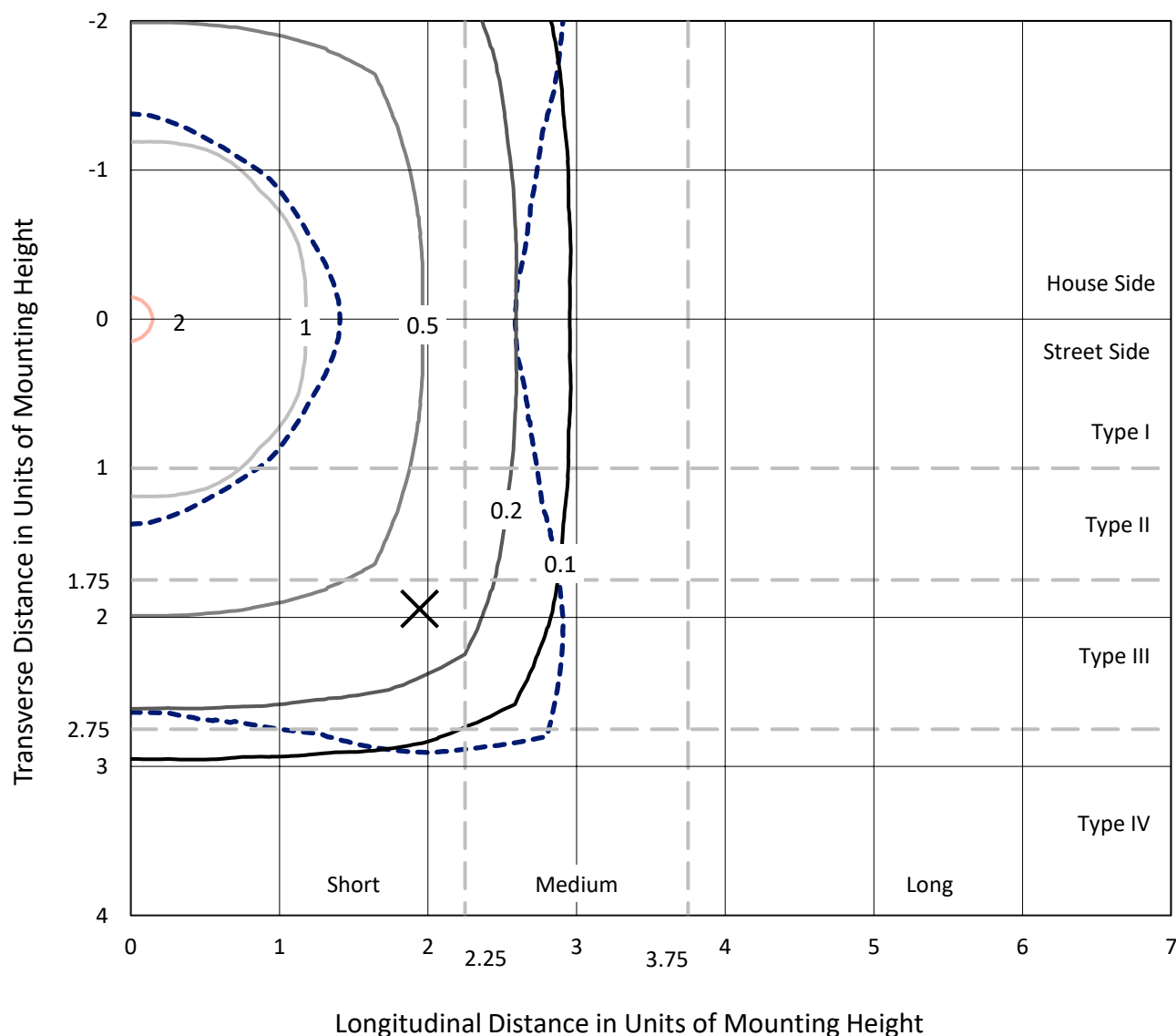
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



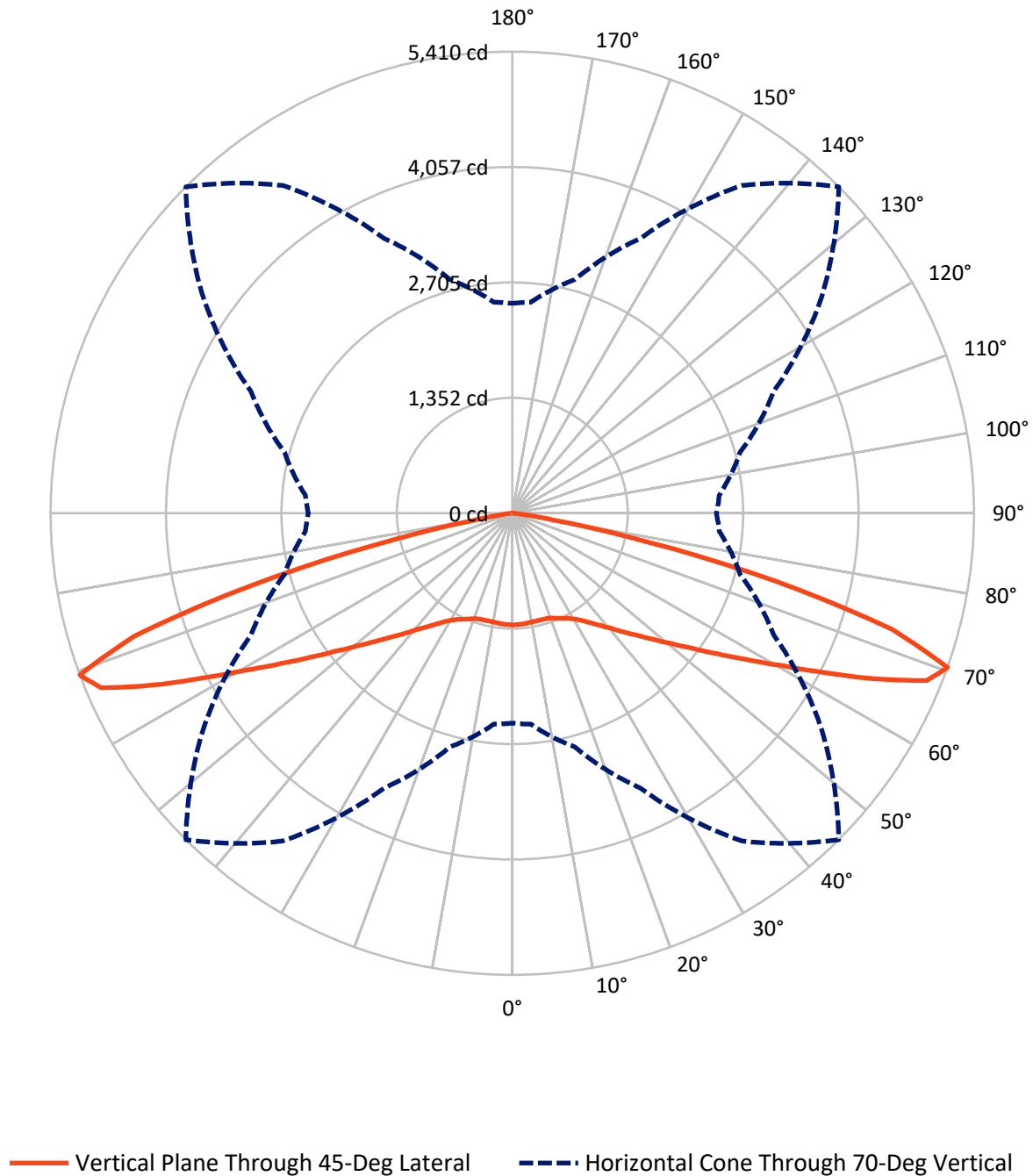
Based on 25 foot mounting height. Maximum calculated value = 2.1 fc

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	5891.5	0.0	5891.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5891.5	0.0	5891.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11783.0	0.0	11783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	1.1
10°-20°	364.1	3.1
20°-30°	622.7	5.3
30°-40°	988.4	8.4
40°-50°	1594.5	13.5
50°-60°	2594.3	22.0
60°-70°	3760.9	31.9
70°-80°	1668.2	14.2
80°-90°	65.8	0.6
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°	11783.0	100.0
0°-180°	11783.0	100.0

Coefficient of Utilization



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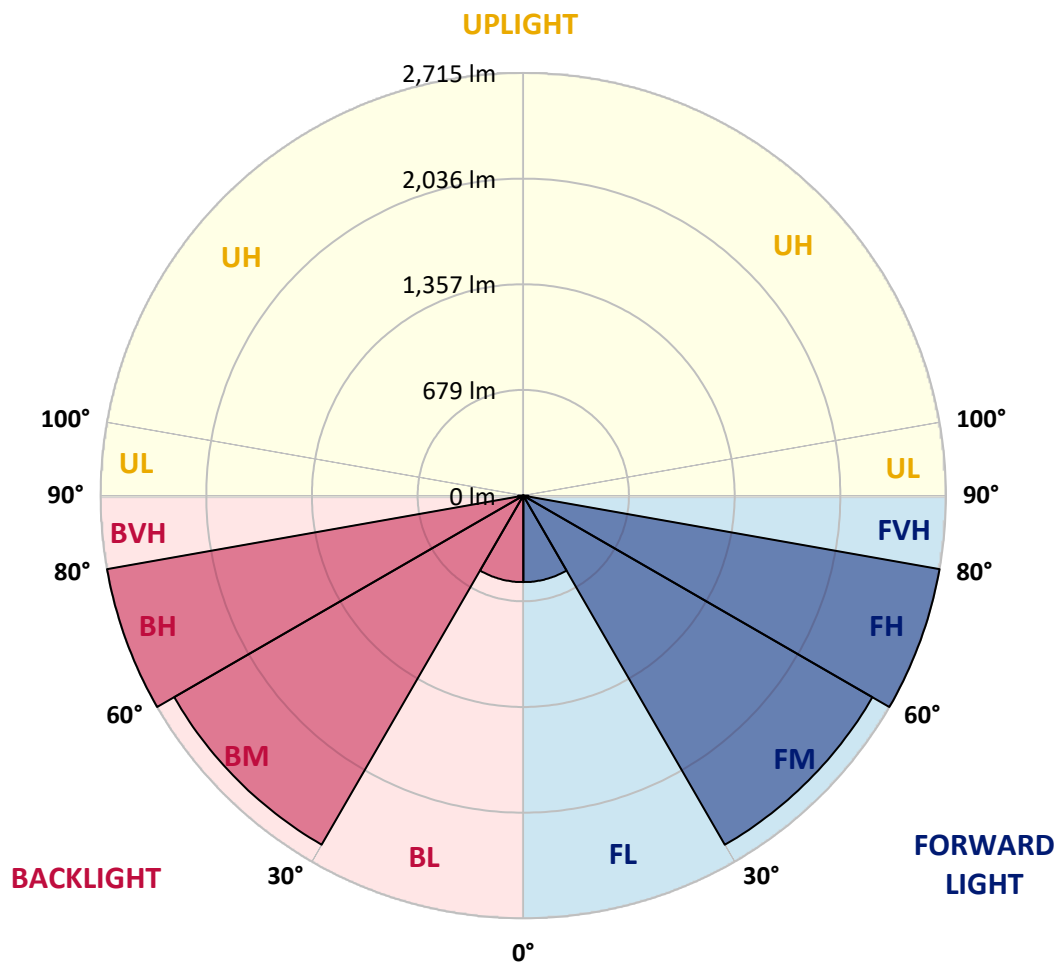
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	555.4	4.7			
FM	(30°-60°)	2588.6	22.0			
FH	(60°-80°)	2714.5	23.0			G2/5000
FVH	(80°-90°)	32.9	0.3			G1/100
BL	(0°-30°)	555.4	4.7	B2/1000		
BM	(30°-60°)	2588.6	22.0	B3/5000		
BH	(60°-80°)	2714.5	23.0	B4/5000		G2/5000
BVH	(80°-90°)	32.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4	1308.4
2.5°	1308.4	1309.7	1307.8	1306.6	1306.0	1306.0	1305.3	1306.0	1309.7	1310.3	1308.4
5°	1304.7	1306.0	1305.3	1304.1	1303.5	1303.5	1302.9	1302.2	1305.3	1306.6	1306.0
7.5°	1299.8	1300.4	1299.8	1299.1	1299.8	1299.1	1297.3	1296.0	1298.5	1298.5	1297.9
10°	1291.1	1292.3	1291.7	1292.3	1293.5	1293.5	1291.1	1288.6	1289.2	1288.0	1288.0
12.5°	1280.5	1282.4	1283.0	1285.5	1288.6	1292.3	1286.7	1281.1	1279.9	1279.3	1278.6
15°	1273.7	1275.5	1278.0	1280.5	1286.1	1294.2	1286.1	1277.4	1274.9	1272.4	1271.2
17.5°	1271.8	1274.3	1278.0	1281.7	1289.2	1297.3	1290.4	1281.7	1275.5	1271.8	1270.6
20°	1276.8	1278.6	1284.2	1291.1	1301.6	1309.7	1302.9	1293.5	1284.2	1278.6	1276.8
22.5°	1286.7	1289.8	1296.6	1309.1	1324.0	1335.8	1326.5	1310.9	1296.0	1288.6	1286.1
25°	1308.4	1310.9	1319.0	1335.8	1353.2	1364.3	1354.4	1336.4	1315.9	1306.0	1302.9
27.5°	1341.4	1345.1	1353.8	1373.7	1387.9	1394.1	1387.3	1374.9	1360.0	1349.4	1346.9
30°	1387.9	1392.3	1405.3	1426.4	1435.8	1439.5	1436.4	1428.3	1417.7	1406.6	1404.1
32.5°	1450.7	1453.1	1468.0	1487.9	1496.6	1497.9	1494.1	1490.4	1473.0	1454.4	1453.1
35°	1520.8	1525.2	1543.2	1566.8	1574.9	1575.5	1568.0	1562.4	1541.9	1527.0	1527.0
37.5°	1614.0	1615.8	1633.2	1659.9	1668.6	1666.1	1662.4	1657.4	1635.7	1616.5	1617.1
40°	1723.3	1727.0	1741.9	1773.0	1773.0	1769.8	1772.3	1768.6	1746.9	1728.2	1728.9
42.5°	1853.1	1854.9	1872.9	1905.8	1903.4	1897.2	1899.6	1894.7	1881.0	1859.9	1852.4
45°	1991.5	1999.0	2030.0	2061.7	2056.8	2036.9	2046.8	2045.6	2033.2	2001.5	2003.3
47.5°	2158.6	2171.0	2200.8	2238.7	2233.1	2202.1	2213.2	2220.7	2203.3	2168.5	2162.3
50°	2346.8	2354.8	2398.9	2434.3	2429.4	2396.4	2421.9	2423.1	2379.7	2330.6	2330.6
52.5°	2547.3	2555.4	2615.0	2670.3	2673.4	2625.6	2646.1	2644.8	2574.0	2509.5	2497.0
55°	2772.1	2775.9	2852.9	2934.2	2951.6	2905.0	2907.5	2882.7	2790.8	2715.6	2708.8
57.5°	3004.4	3018.1	3103.1	3208.7	3260.2	3231.7	3218.6	3152.2	3063.4	2977.1	2972.7
60°	3261.5	3262.1	3372.7	3497.5	3601.8	3621.0	3567.6	3478.8	3364.0	3249.7	3244.7
62.5°	3439.7	3466.4	3606.1	3817.3	4004.2	4112.3	3971.3	3785.0	3558.9	3374.5	3355.9
65°	3476.4	3494.4	3707.4	4065.1	4447.0	4679.9	4353.8	3957.6	3572.0	3326.1	3313.7
67.5°	3180.1	3199.4	3486.3	4035.3	4757.5	5235.0	4602.2	3874.4	3350.9	3046.6	3022.4
70°	2459.8	2481.5	2836.1	3552.1	4688.5	5409.5	4425.2	3379.5	2763.4	2434.9	2390.8
72.5°	1307.8	1387.9	1691.0	2438.0	3805.5	4657.5	3628.5	2466.0	1782.3	1456.9	1398.5
75°	477.5	487.5	656.4	1081.2	2213.9	3193.8	2298.9	1176.2	676.3	522.3	495.6
77.5°	197.5	196.9	216.1	326.6	804.2	1635.7	897.3	345.3	215.5	199.3	196.9
80°	116.7	116.7	128.5	136.0	211.8	493.7	236.6	154.0	129.2	118.0	119.9
82.5°	52.2	55.3	81.4	85.7	102.5	135.4	114.3	98.1	84.5	58.4	52.8
85°	28.6	24.8	42.8	44.7	49.1	50.3	54.0	53.4	49.1	28.6	29.2
87.5°	5.6	6.8	12.4	9.3	10.6	9.3	12.4	17.4	18.0	9.9	8.1
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)