

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: P650733

Luminaire Tested: **GALN-SA2C-840-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650733
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-SA2C-840-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12267.7 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

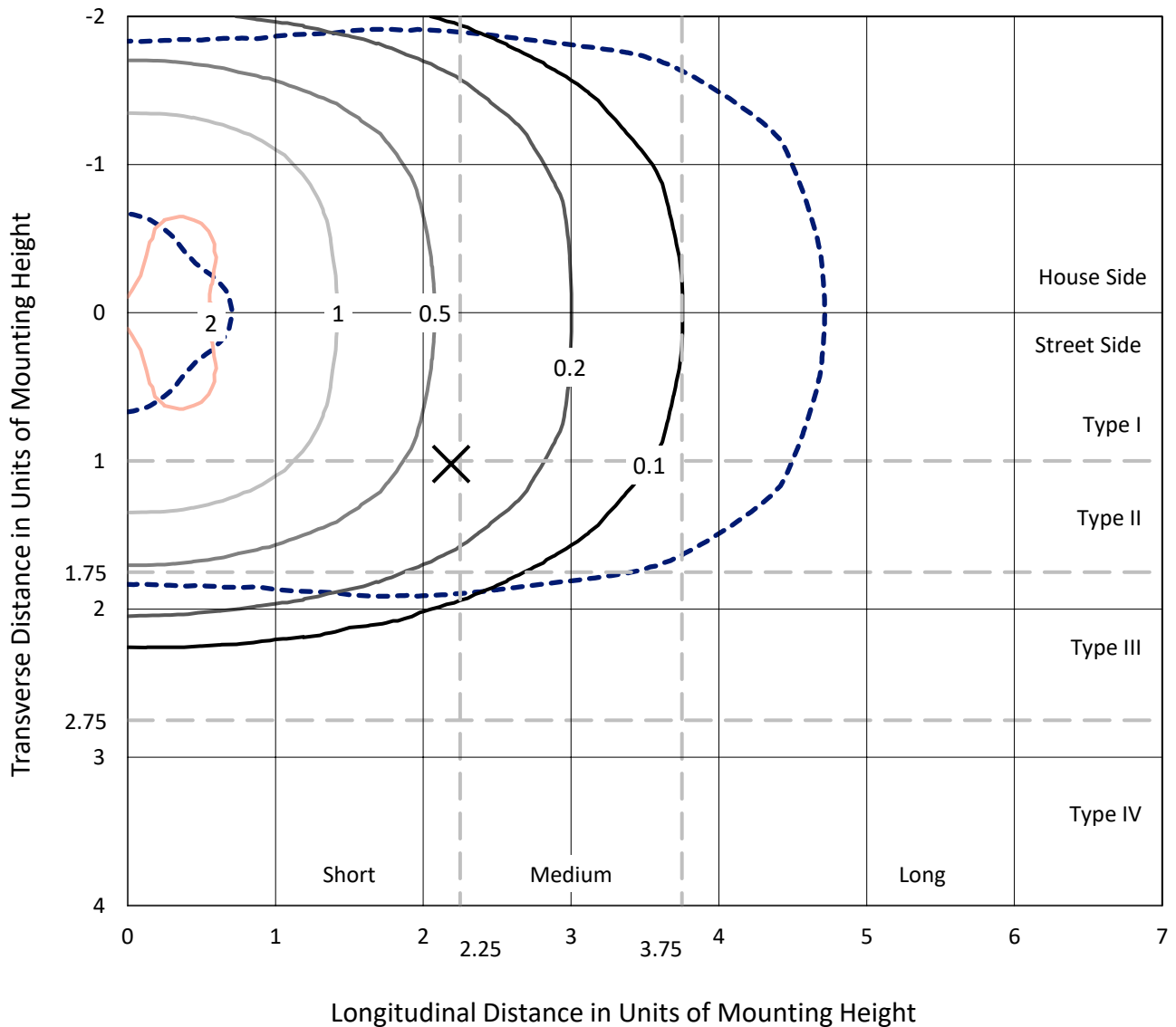
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

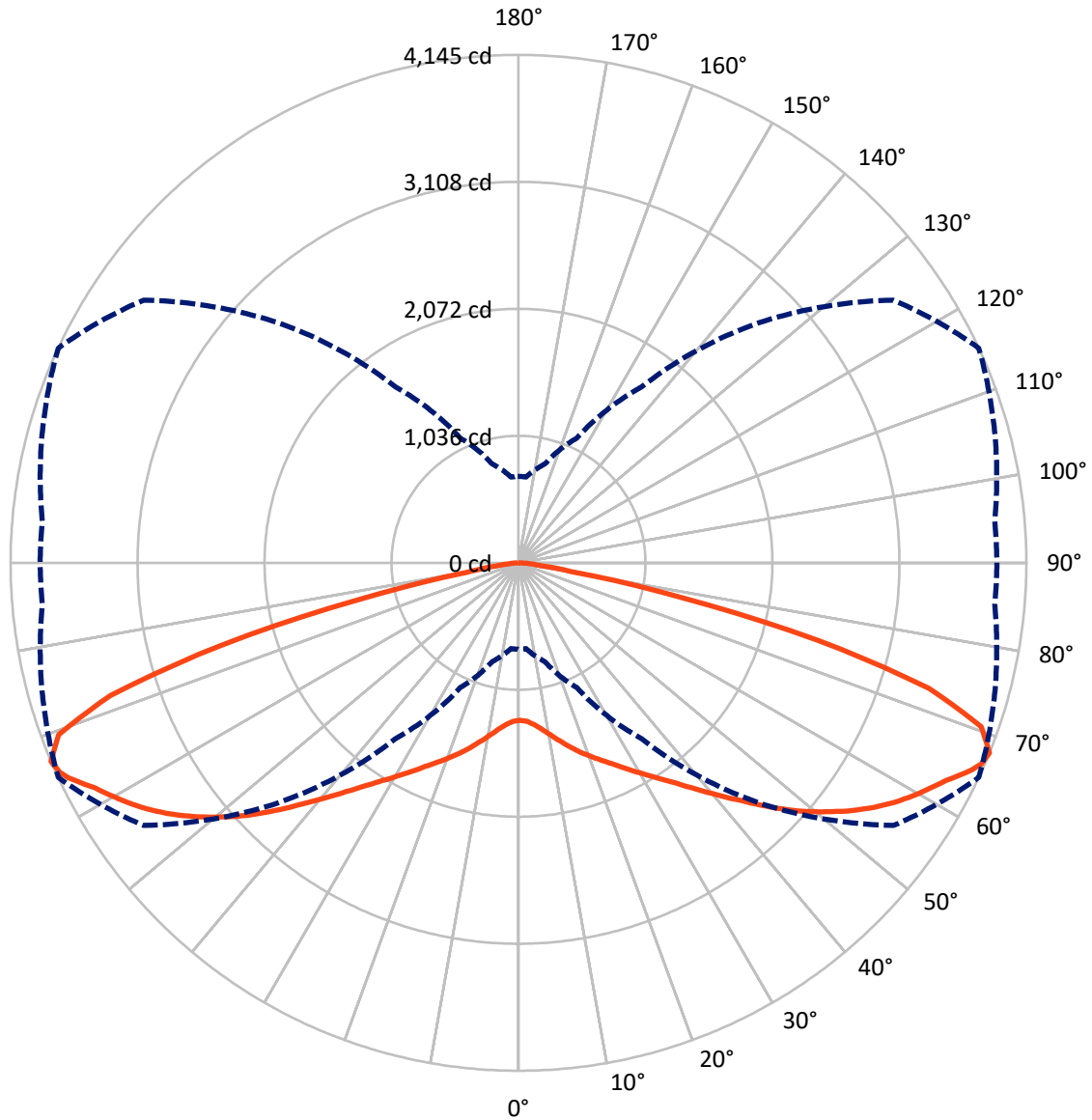
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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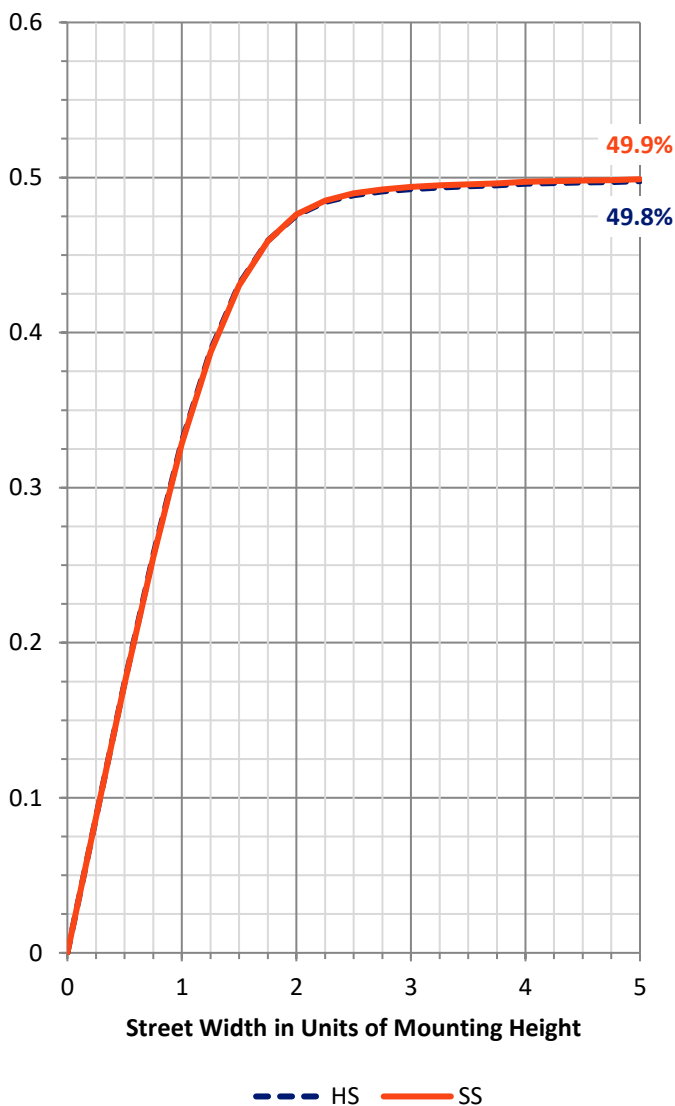
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6133.8	0.0	6133.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6133.8	0.0	6133.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	12267.7	0.0	12267.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	1.0
10°-20°	424.1	3.5
20°-30°	829.7	6.8
30°-40°	1411.2	11.5
40°-50°	2233.4	18.2
50°-60°	2961.5	24.1
60°-70°	2793.6	22.8
70°-80°	1381.0	11.3
80°-90°	106.4	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°	12267.7	100.0
0°-180°	12267.7	100.0

Coefficient of Utilization



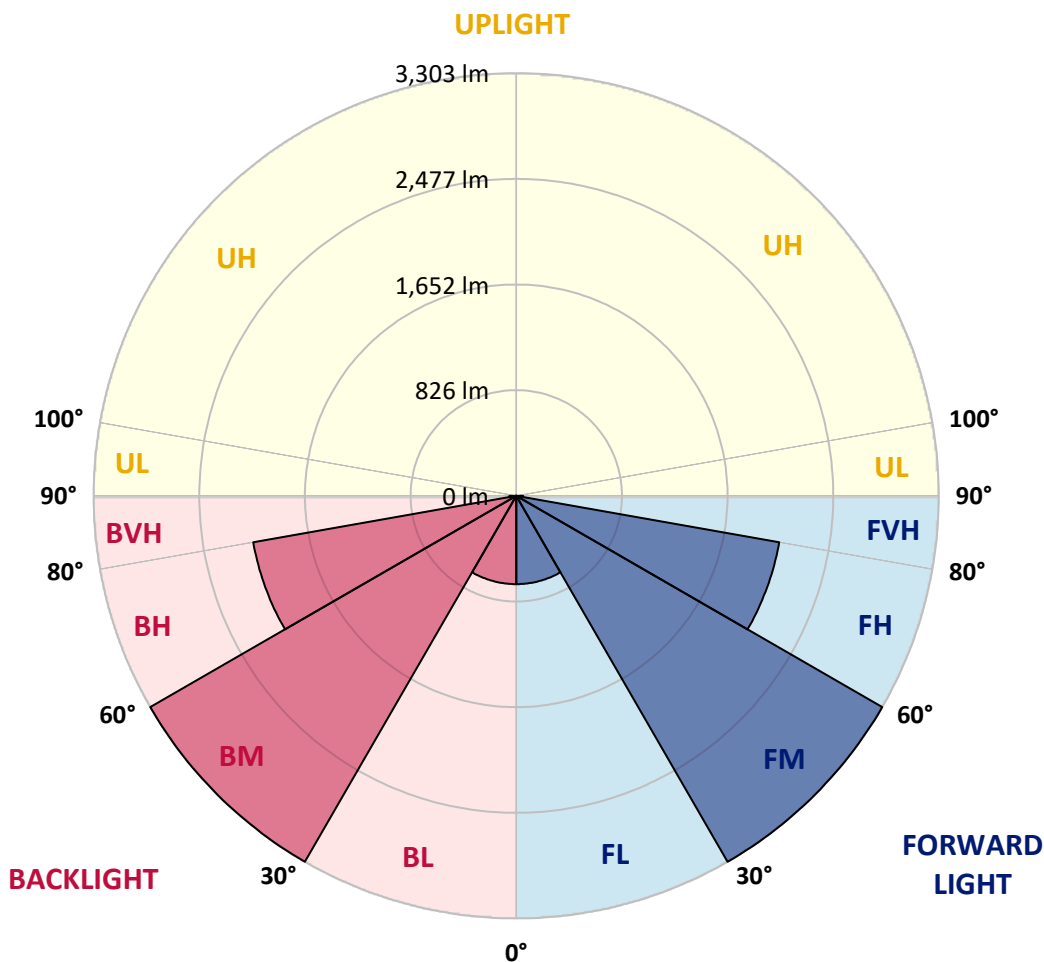
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	690.3	5.6			
FM (30°-60°)	3303.0	26.9			
FH (60°-80°)	2087.3	17.0			G2/5000
FVH (80°-90°)	53.2	0.4			G1/100
BL (0°-30°)	690.3	5.6	B2/1000		
BM (30°-60°)	3303.0	26.9	B3/5000		
BH (60°-80°)	2087.3	17.0	B3/2500		G3/2500
BVH (80°-90°)	53.2	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°	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0	1285.0
2.5°	1278.3	1279.7	1281.0	1282.9	1285.6	1289.5	1292.2	1294.1	1299.4	1300.0	1299.4
5°	1273.8	1275.0	1278.3	1284.3	1292.8	1304.6	1313.8	1325.0	1333.6	1339.5	1338.2
7.5°	1273.1	1275.7	1281.0	1293.5	1309.9	1330.3	1351.3	1370.4	1386.8	1399.9	1398.0
10°	1283.6	1286.9	1295.5	1313.8	1339.5	1369.1	1398.7	1426.9	1450.6	1467.6	1473.6
12.5°	1301.4	1304.0	1319.8	1347.4	1384.2	1421.0	1454.5	1489.3	1522.2	1551.1	1551.1
15°	1332.2	1336.9	1356.5	1396.6	1442.0	1484.7	1518.9	1555.7	1591.2	1624.1	1633.9
17.5°	1375.0	1381.5	1411.1	1462.4	1520.2	1559.6	1591.8	1622.1	1653.0	1684.5	1689.1
20°	1433.5	1440.0	1479.5	1541.2	1609.6	1656.9	1678.6	1685.9	1701.0	1731.2	1735.2
22.5°	1513.0	1519.6	1563.6	1633.3	1709.5	1760.8	1770.0	1752.9	1748.9	1772.6	1775.3
25°	1603.0	1608.9	1659.5	1734.5	1813.4	1869.2	1866.6	1824.5	1800.8	1815.3	1819.3
27.5°	1704.3	1712.8	1764.1	1841.6	1927.1	1976.4	1968.4	1907.4	1856.8	1854.2	1855.4
30°	1833.7	1843.0	1891.6	1965.8	2049.9	2095.4	2078.9	1996.7	1918.5	1892.2	1892.2
32.5°	1970.5	1993.4	2042.7	2120.3	2186.0	2218.9	2193.9	2095.4	1991.5	1954.7	1952.7
35°	2148.6	2161.0	2209.6	2285.2	2334.5	2360.2	2312.2	2206.4	2086.8	2043.4	2037.5
37.5°	2322.8	2333.3	2389.8	2462.1	2521.9	2520.6	2455.5	2338.5	2205.1	2156.4	2152.5
40°	2500.9	2512.0	2576.4	2642.8	2702.6	2697.3	2618.5	2487.7	2345.7	2291.2	2301.7
42.5°	2655.3	2667.8	2740.7	2835.4	2889.3	2888.0	2796.6	2649.4	2501.5	2452.9	2462.1
45°	2796.0	2807.1	2891.9	3000.4	3079.2	3089.1	2989.2	2833.4	2681.6	2619.1	2621.8
47.5°	2895.2	2916.3	3005.0	3129.2	3236.3	3271.2	3173.2	3020.7	2845.9	2780.9	2784.8
50°	2970.7	2984.0	3080.6	3221.9	3357.3	3429.5	3350.7	3194.3	3010.2	2941.2	2950.4
52.5°	2980.0	2995.7	3100.9	3263.9	3437.4	3547.2	3508.4	3363.8	3177.8	3106.8	3126.6
55°	2905.1	2914.2	3039.8	3237.6	3469.0	3634.6	3644.5	3521.6	3337.5	3283.6	3296.8
57.5°	2691.5	2715.1	2874.2	3114.7	3425.6	3681.3	3746.3	3664.8	3499.2	3446.0	3467.0
60°	2341.2	2364.8	2524.5	2829.5	3262.0	3659.6	3830.5	3791.7	3645.8	3603.1	3614.2
62.5°	1834.4	1832.5	2030.3	2404.3	2936.6	3553.1	3892.9	3913.9	3790.4	3736.5	3753.6
65°	1189.0	1194.9	1386.1	1789.1	2445.6	3282.3	3906.7	4069.7	3932.3	3850.9	3863.3
66°	956.3	974.0	1136.4	1507.7	2195.3	3104.9	3865.3	4115.7	3975.7	3877.2	3883.1
67.5°	705.9	702.6	836.0	1122.6	1752.9	2767.7	3735.8	4144.6	4025.0	3900.8	3903.4
70°	402.9	402.3	449.6	616.5	1030.6	1948.8	3148.9	4005.9	4124.9	3986.3	3979.0
72.5°	294.4	292.5	299.1	340.4	502.8	983.9	2172.2	3501.2	4073.6	3972.5	3952.0
75°	247.1	245.8	244.5	249.8	282.0	445.6	1152.8	2518.6	3534.7	3728.6	3707.5
77.5°	201.8	201.8	202.4	201.1	202.4	234.6	477.9	1350.0	2152.5	2402.9	2461.4
80°	157.8	157.1	168.3	163.7	153.1	150.5	211.6	434.5	714.4	710.5	586.3
82.5°	116.3	108.4	128.2	124.9	113.0	96.0	123.5	185.4	238.6	155.1	115.0
85°	73.6	72.9	90.7	82.8	69.0	45.3	59.1	79.6	98.6	59.8	48.6
87.5°	13.1	12.4	28.9	21.0	21.0	13.1	16.4	21.7	32.2	22.4	16.4
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)