

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637240

Luminaire Tested: GWS-SA4C-735-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637240  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-735-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

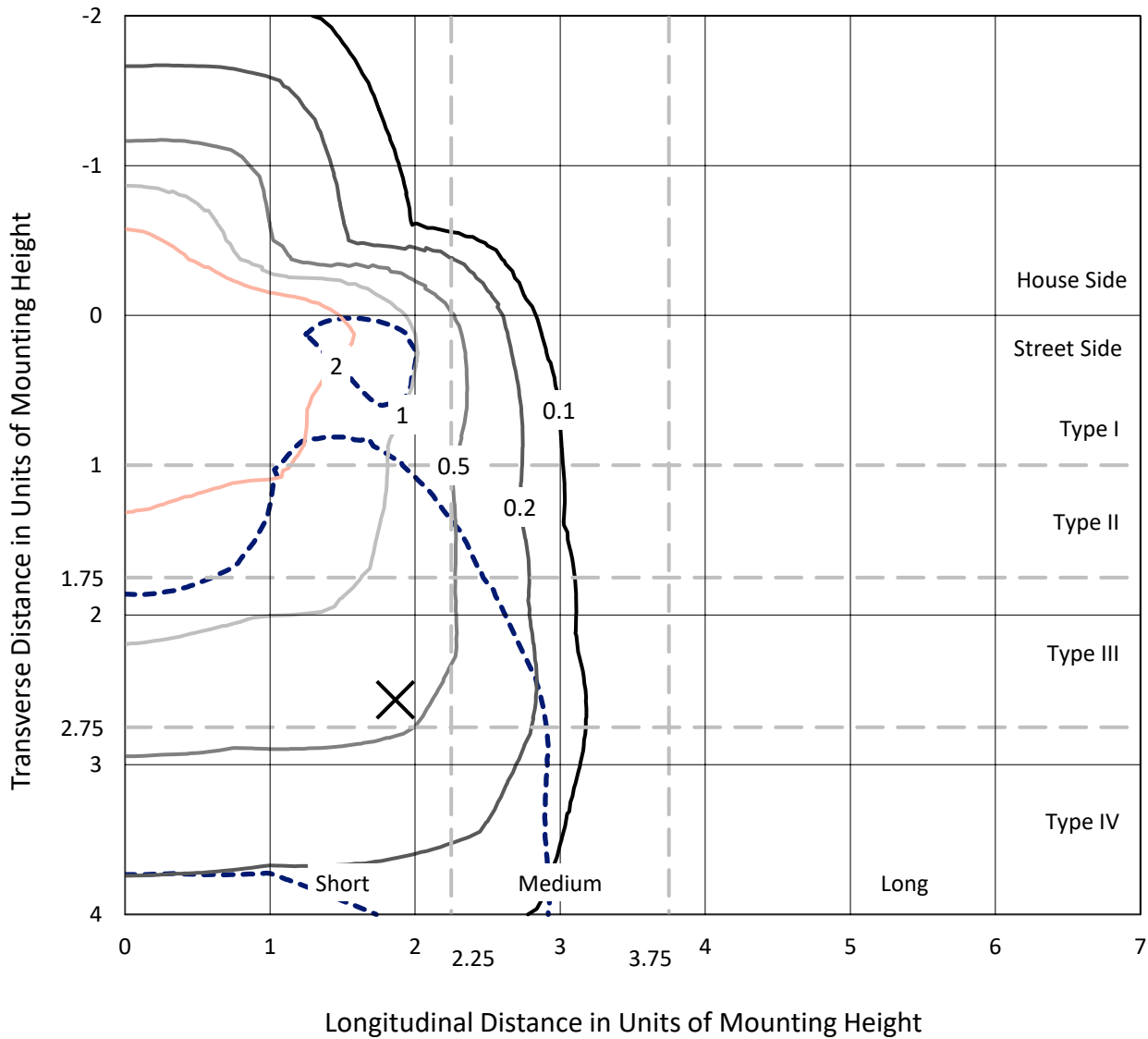
Lumens per Lamp: N/A  
Luminaire Lumens: 18493 lumens  
Efficiency: N/A  
Efficacy: 143.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

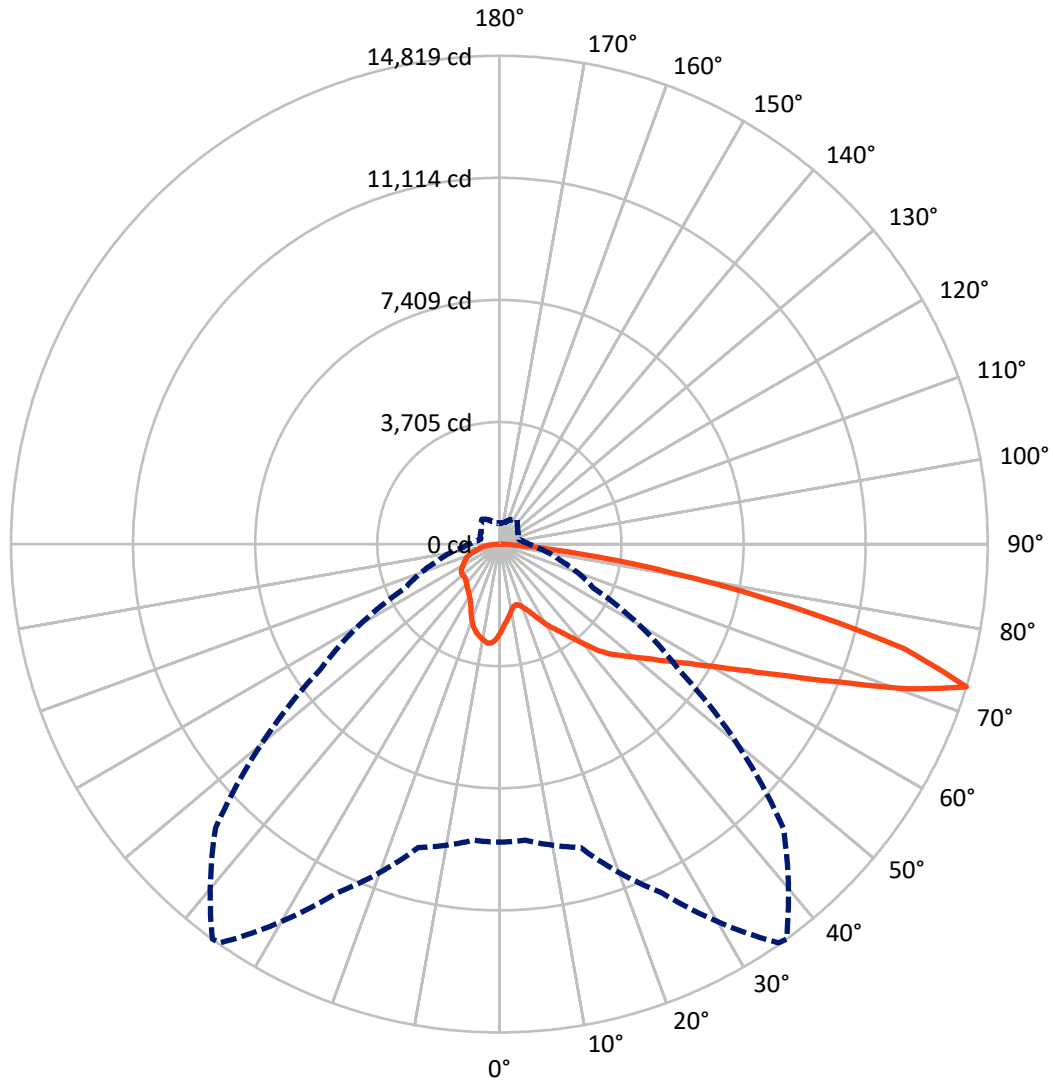
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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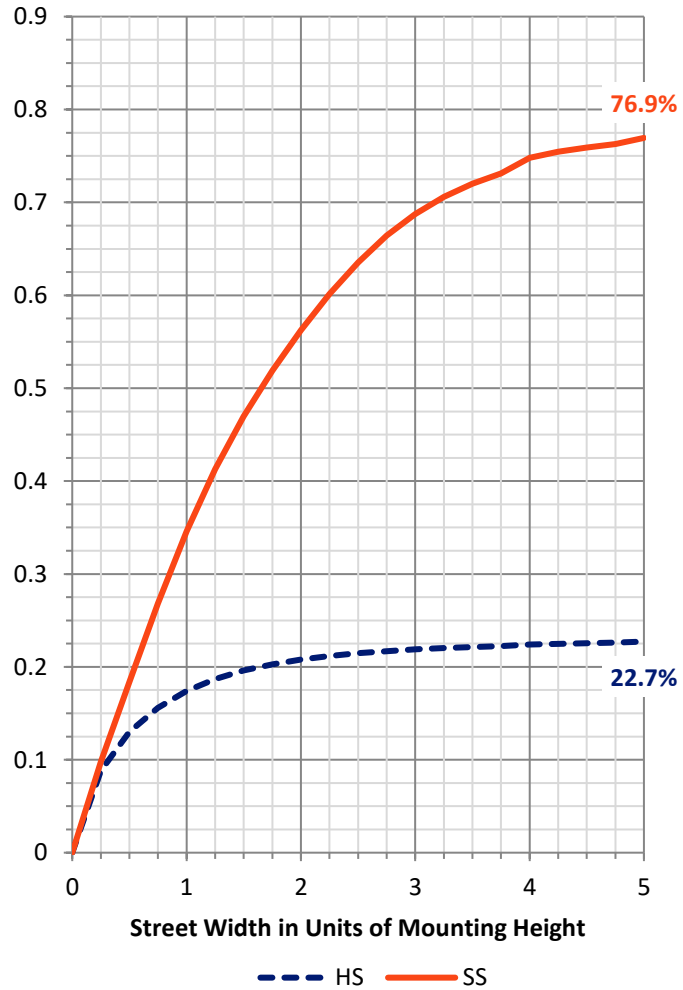
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4263.4	0.0	4263.4
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	14229.6	0.0	14229.6
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	18493.0	0.0	18493.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.0	1.4
10°-20°	713.8	3.9
20°-30°	1182.1	6.4
30°-40°	1770.3	9.6
40°-50°	2582.7	14.0
50°-60°	3676.0	19.9
60°-70°	4644.3	25.1
70°-80°	3309.5	17.9
80°-90°	361.3	2.0
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°	18493.0	100.0
0°-180°	18493.0	100.0

**Coefficient of Utilization**







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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2469.1	2465.0	2456.7	2481.4	2506.2	2503.4	2537.7	2570.7	2606.3	2643.4	2692.8
5°	2271.5	2268.7	2261.8	2298.9	2336.0	2334.6	2390.9	2444.4	2517.1	2596.7	2695.6
7.5°	2073.8	2067.0	2076.6	2123.2	2175.4	2180.9	2257.7	2345.6	2451.3	2570.7	2710.7
10°	1899.5	1898.1	1902.3	1954.4	2032.6	2038.1	2137.0	2259.1	2399.1	2558.3	2745.0
12.5°	1854.2	1851.5	1840.5	1866.6	1925.6	1933.8	2042.3	2191.9	2363.4	2565.2	2791.6
15°	1928.3	1921.5	1883.0	1870.7	1899.5	1906.4	1998.3	2152.1	2342.8	2577.5	2850.6
17.5°	2056.0	2051.9	1979.1	1928.3	1947.6	1953.0	2021.7	2145.2	2337.3	2602.2	2923.4
20°	2242.6	2224.8	2110.9	2034.0	2034.0	2042.3	2083.4	2175.4	2344.2	2632.4	3005.7
22.5°	2489.7	2454.0	2293.4	2189.1	2161.7	2172.6	2190.5	2250.9	2373.0	2683.2	3108.7
25°	2766.9	2734.0	2543.2	2396.4	2357.9	2362.0	2346.9	2357.9	2436.2	2753.2	3236.3
27.5°	3062.0	3040.0	2836.9	2650.3	2589.9	2589.9	2536.3	2510.3	2524.0	2832.8	3379.0
30°	3325.5	3295.3	3123.8	2919.3	2839.7	2839.7	2738.1	2681.8	2648.9	2930.2	3569.8
32.5°	3464.1	3446.3	3332.4	3175.9	3078.5	3063.4	2975.5	2909.7	2832.8	3074.4	3827.9
35°	3645.3	3641.2	3572.6	3450.4	3326.9	3304.9	3244.5	3192.4	3059.3	3254.2	4171.0
37.5°	3873.1	3866.3	3855.3	3782.6	3634.3	3630.2	3576.7	3513.6	3340.6	3513.6	4586.8
40°	4128.4	4116.1	4102.3	4101.0	4011.8	3996.7	3992.5	3921.2	3679.6	3826.5	5020.5
42.5°	4479.8	4437.2	4308.2	4365.9	4431.7	4418.0	4470.2	4363.1	4102.3	4198.4	5430.9
45°	4912.1	4807.8	4552.5	4569.0	4735.1	4762.5	4943.7	4917.6	4567.6	4628.0	5863.2
47.5°	5171.5	5080.9	4843.5	4829.8	5037.0	5071.3	5465.2	5514.6	5068.6	5145.4	6397.1
50°	5384.2	5321.1	5126.2	5145.4	5365.0	5399.3	5982.6	6088.3	5540.7	5675.2	7017.5
52.5°	5640.9	5550.3	5399.3	5489.9	5758.9	5800.1	6557.7	6671.6	5966.2	6257.1	7659.8
55°	5785.0	5748.0	5750.7	5889.3	6226.9	6283.2	7160.2	7141.0	6356.0	6755.4	8142.9
57.5°	6117.1	6103.4	6229.7	6281.8	6773.2	6845.9	7762.8	7598.1	6710.1	7141.0	8374.9
60°	6703.2	6668.9	6778.7	6858.3	7448.5	7551.4	8435.3	8045.5	6950.2	7427.9	8296.7
62.5°	7526.7	7484.1	7488.3	7614.5	8352.9	8461.3	9183.3	8418.8	7024.4	7471.8	7801.2
65°	8550.6	8488.8	8418.8	8590.4	9553.8	9644.4	9997.2	8690.6	6847.3	7049.1	6766.3
67.5°	9630.7	9579.9	9497.6	9857.2	11108.9	11163.8	10909.9	8667.2	6286.0	5918.1	4746.0
70°	9693.8	9706.2	10096.0	11397.1	13138.8	13152.5	11773.1	8197.8	5090.5	3836.1	2364.8
72.5°	9043.3	9022.7	9530.5	11678.4	14772.0	14818.7	12180.8	6641.4	3145.7	1913.2	1109.0
75°	7345.5	7381.2	7915.1	10218.1	12661.1	12702.3	9929.9	3915.7	1494.6	936.0	709.6
77.5°	3162.2	3361.2	4413.9	7198.7	9068.0	8940.3	5118.0	1586.6	797.4	667.0	543.5
80°	912.7	990.9	1572.9	3423.0	5433.7	5337.6	2025.8	594.3	555.9	501.0	389.8
82.5°	295.1	326.7	576.4	1362.9	2434.8	2432.0	768.6	351.4	363.7	340.4	251.2
85°	82.3	94.7	177.1	413.1	753.5	738.4	222.3	166.1	193.5	196.3	124.9
87.5°	0.0	0.0	1.4	2.7	2.7	2.7	5.5	24.7	56.3	71.4	50.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2723.0	2718.9	2775.2	2819.1	2860.3	2887.7	2895.9	2901.4	2912.4	2917.9	2912.4
5°	2742.2	2762.8	2856.1	2924.8	2979.7	3012.6	3014.0	3011.2	3019.5	3012.6	3008.5
7.5°	2783.4	2823.2	2941.2	3014.0	3049.7	3051.0	3018.1	2979.7	2960.4	2944.0	2938.5
10°	2838.3	2897.3	3026.3	3074.4	3063.4	3012.6	2939.9	2879.5	2845.2	2820.4	2815.0
12.5°	2913.8	2979.7	3101.8	3100.4	3031.8	2941.2	2856.1	2783.4	2734.0	2705.2	2695.6
15°	2985.1	3068.9	3156.7	3092.2	2983.8	2874.0	2764.2	2666.7	2600.9	2555.6	2547.3
17.5°	3073.0	3162.2	3196.5	3066.1	2923.4	2782.0	2635.2	2507.5	2418.3	2364.8	2360.7
20°	3174.5	3254.2	3215.7	3020.8	2845.2	2659.9	2460.9	2318.1	2222.0	2169.9	2174.0
22.5°	3292.6	3350.2	3221.2	2959.1	2736.7	2486.9	2264.6	2127.3	2062.8	2035.4	2036.8
25°	3418.9	3455.9	3211.6	2875.3	2570.7	2275.6	2062.8	1999.7	1994.2	1987.4	1990.1
27.5°	3568.5	3560.2	3182.8	2757.3	2346.9	2029.9	1921.5	1937.9	1959.9	1957.2	1959.9
30°	3768.8	3690.6	3145.7	2594.0	2080.7	1824.0	1837.8	1884.4	1913.2	1916.0	1924.2
32.5°	3998.0	3834.7	3086.7	2371.6	1826.8	1708.7	1759.5	1815.8	1850.1	1857.0	1867.9
35°	4271.2	3999.4	2982.4	2094.4	1644.2	1640.1	1686.8	1725.2	1762.3	1765.0	1765.0
37.5°	4585.5	4164.1	2816.3	1788.3	1531.7	1581.1	1625.0	1633.3	1642.9	1634.6	1638.7
40°	4873.7	4323.3	2580.3	1509.7	1439.7	1528.9	1566.0	1538.6	1508.4	1487.8	1491.9
42.5°	5115.2	4431.7	2267.3	1314.8	1346.4	1482.3	1511.1	1454.8	1395.8	1357.4	1362.9
45°	5387.0	4531.9	1899.5	1183.1	1266.8	1449.3	1468.6	1395.8	1320.3	1262.7	1254.4
47.5°	5761.7	4736.4	1572.9	1091.1	1210.5	1431.5	1463.1	1364.2	1265.4	1179.0	1169.4
50°	6224.2	5026.0	1299.7	1030.7	1184.5	1421.9	1461.7	1329.9	1211.9	1110.3	1103.5
52.5°	6729.3	5308.8	1098.0	984.1	1158.4	1393.1	1454.8	1291.5	1155.6	1045.8	1037.6
55°	7065.5	5419.9	962.1	940.1	1115.8	1347.8	1427.4	1254.4	1070.5	970.3	958.0
57.5°	7164.4	5277.2	867.4	900.3	1060.9	1284.6	1375.2	1176.2	1018.4	938.8	929.2
60°	6994.2	4917.6	808.4	867.4	1000.5	1203.7	1284.6	1130.9	977.2	905.8	899.0
62.5°	6513.8	4363.1	763.1	833.1	938.8	1118.6	1227.0	1076.0	931.9	875.6	866.0
65°	5547.6	3578.1	726.0	797.4	879.8	1037.6	1163.9	1021.1	882.5	840.0	829.0
67.5°	3880.0	2513.0	686.2	754.9	820.7	959.4	1098.0	970.3	831.7	800.2	789.2
70°	1896.8	1332.7	638.2	705.5	757.6	879.8	1032.1	908.6	764.5	746.6	731.5
72.5°	903.1	745.3	581.9	638.2	671.1	774.1	922.3	819.4	684.9	646.4	620.4
75°	605.3	529.8	507.8	558.6	566.8	649.2	790.5	706.8	603.9	560.0	538.0
77.5°	458.4	404.9	426.8	472.1	455.7	533.9	650.6	630.0	544.9	505.1	494.1
80°	322.5	295.1	339.0	366.5	354.1	454.3	586.0	539.4	448.8	404.9	396.6
82.5°	203.1	197.6	249.8	253.9	258.0	359.6	481.7	424.1	348.6	286.8	266.3
85°	101.6	112.5	149.6	149.6	148.2	185.3	274.5	238.8	188.0	149.6	145.5
87.5°	34.3	48.0	64.5	52.2	39.8	31.6	35.7	43.9	46.7	45.3	45.3
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)