

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: P642675

Luminaire Tested: GWS-SA6D-735-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642675  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6D-735-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

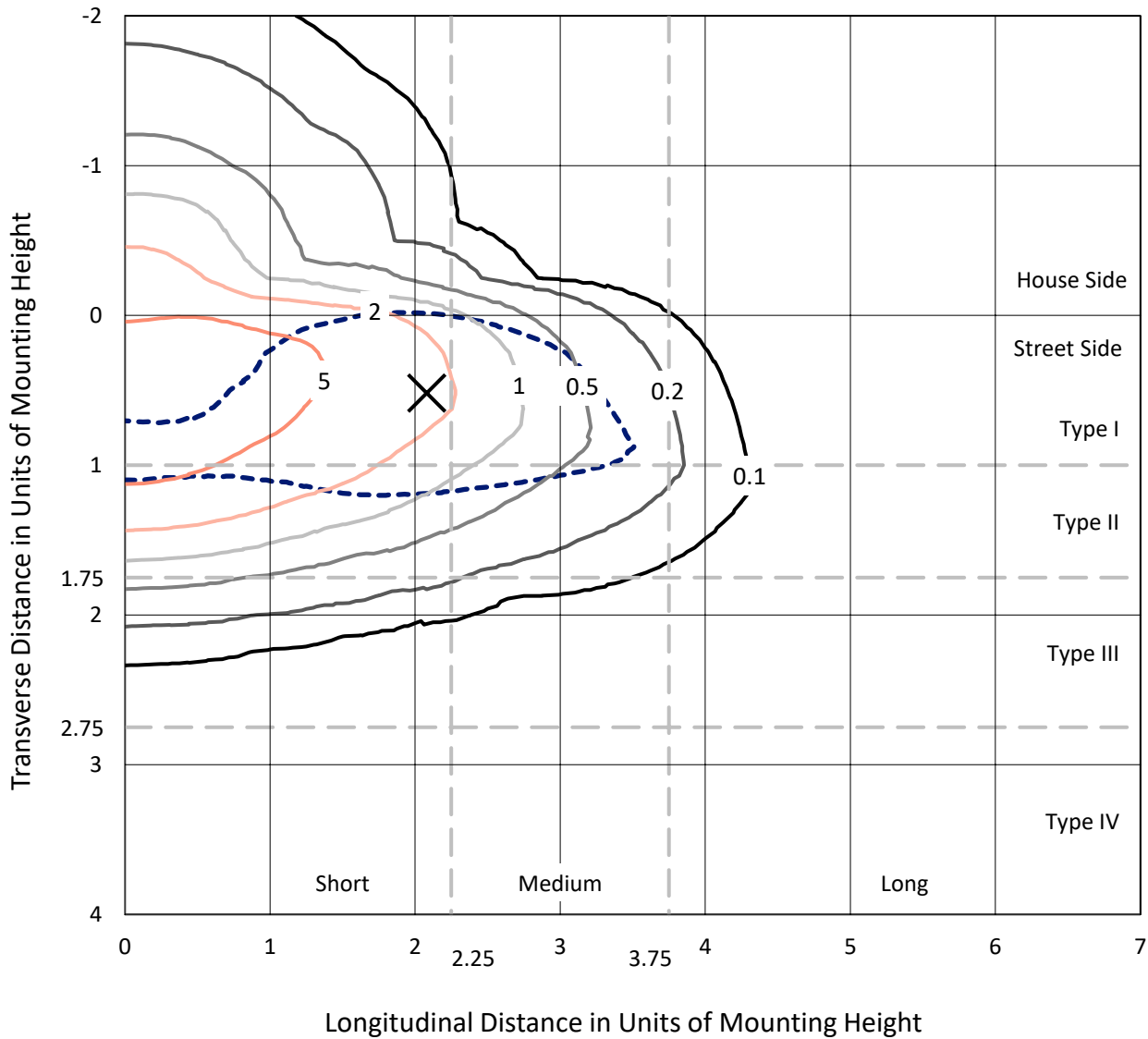
Lumens per Lamp: N/A  
Luminaire Lumens: 36026 lumens  
Efficiency: N/A  
Efficacy: 146.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

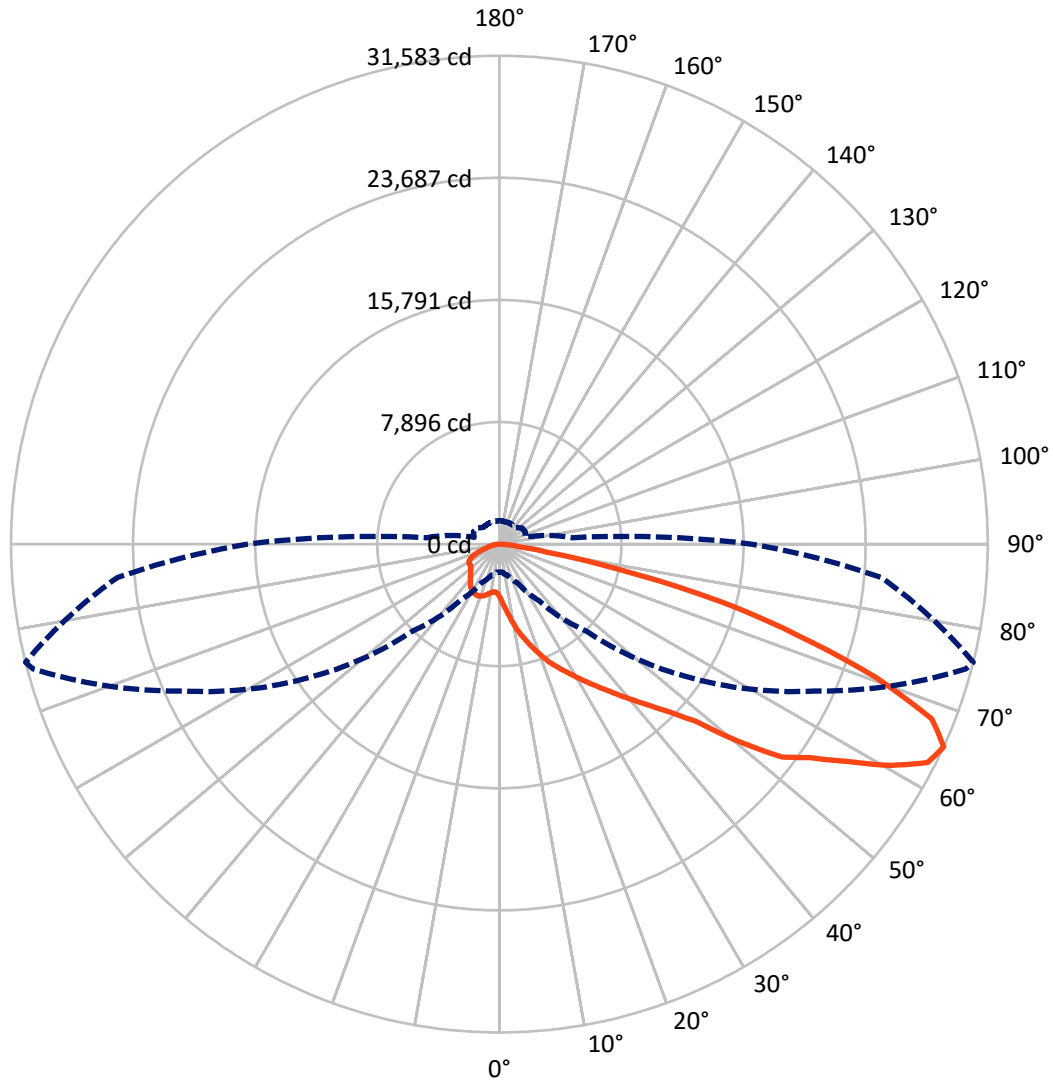
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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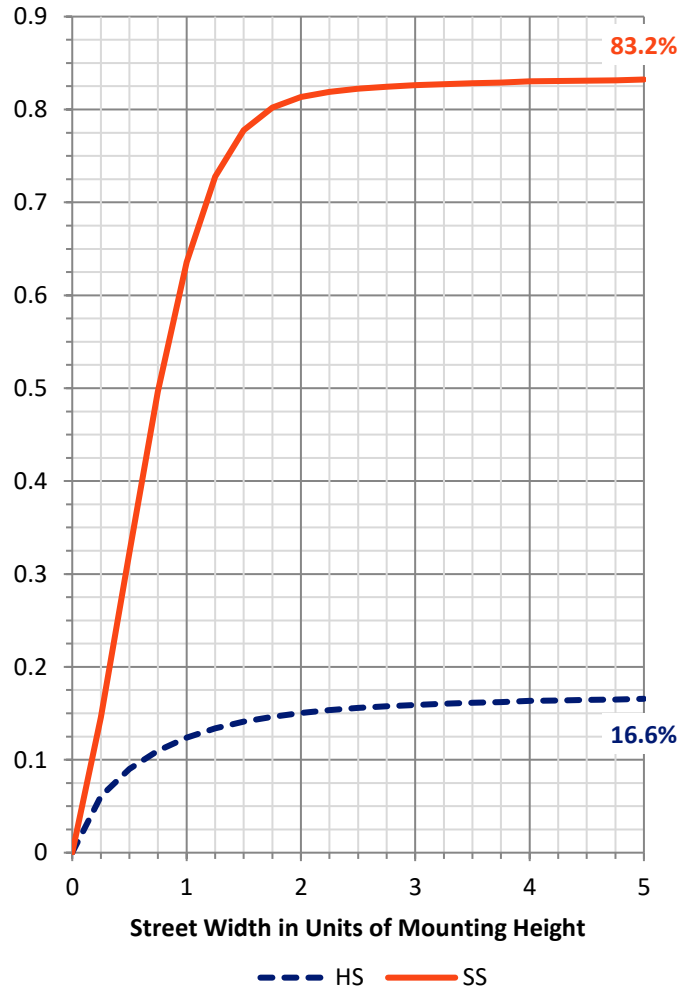
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6021.8	0.0	6021.8
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	30004.2	0.0	30004.2
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	36026.0	0.0	36026.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.3	1.1
10°-20°	1543.8	4.3
20°-30°	3008.6	8.4
30°-40°	5031.7	14.0
40°-50°	7204.4	20.0
50°-60°	8529.0	23.7
60°-70°	7092.0	19.7
70°-80°	2902.2	8.1
80°-90°	309.0	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°	36026.0	100.0
0°-180°	36026.0	100.0

**Coefficient of Utilization**







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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5
2.5°	4781.7	4799.4	4741.2	4720.9	4584.2	4399.3	4244.8	4011.8	3796.5	3763.6	3571.1
5°	6073.4	5997.4	5931.6	5888.5	5698.5	5488.3	5161.6	4723.5	4265.0	4209.3	3794.0
7.5°	6840.8	6828.1	6747.1	6721.8	6574.9	6364.6	6027.8	5483.3	4817.2	4726.0	4095.4
10°	7456.2	7448.6	7408.1	7430.9	7296.7	7091.5	6764.8	6202.5	5422.5	5331.3	4432.2
12.5°	7993.2	8005.8	7998.2	8081.8	8013.4	7853.9	7514.5	6896.5	6027.8	5929.0	4842.5
15°	8385.7	8395.9	8433.8	8616.2	8654.2	8621.3	8276.8	7577.8	6625.5	6483.7	5265.5
17.5°	8497.2	8517.4	8608.6	8902.4	9107.5	9244.3	8988.5	8271.8	7213.1	7058.6	5696.0
20°	8646.6	8669.4	8760.6	9067.0	9368.4	9679.9	9634.3	8975.8	7805.7	7679.1	6131.6
22.5°	9338.0	9320.3	9279.8	9426.7	9641.9	10029.4	10143.4	9652.1	8418.7	8297.1	6612.8
25°	10670.2	10637.3	10379.0	10244.7	10173.8	10409.3	10612.0	10267.5	9016.4	8834.0	7061.1
27.5°	12139.2	12121.4	11792.2	11473.1	11037.4	10936.1	11055.2	10804.4	9596.4	9411.5	7451.2
30°	13529.6	13476.4	13132.0	12731.8	12149.3	11713.7	11538.9	11331.2	10232.1	10039.6	7907.0
32.5°	14773.2	14704.8	14299.5	13856.3	13246.0	12731.8	12210.1	11891.0	10951.3	10728.5	8373.1
35°	15793.8	15725.5	15310.1	14839.0	14167.8	13787.9	13073.7	12498.8	11683.3	11457.9	8922.7
37.5°	16584.0	16520.7	16087.6	15624.1	15039.1	14737.7	14117.2	13182.6	12526.7	12291.1	9505.2
40°	17027.3	16981.7	16634.7	16267.4	15776.1	15515.2	15236.6	14046.3	13471.4	13235.8	10191.5
42.5°	17161.5	17131.1	16888.0	16698.0	16366.2	16168.7	16328.2	15061.9	14479.4	14274.2	10964.0
45°	16824.6	16824.6	16753.7	16850.0	16865.2	16862.6	17422.4	16209.2	15717.9	15492.4	12053.1
47.5°	15963.5	16019.2	16123.1	16596.7	17095.6	17513.5	18701.4	17738.9	17310.9	17126.0	13595.5
50°	14388.2	14540.2	14894.7	15819.2	16880.4	17944.1	19912.0	20000.6	20408.4	20081.7	15864.7
52.5°	12080.9	12058.1	12962.3	14279.3	15897.7	17961.8	20578.1	21996.4	23093.0	22867.6	17551.5
55°	9601.4	9563.4	10406.8	12222.7	14390.7	17283.1	20978.2	22910.7	24582.3	24379.6	19068.6
57.5°	7352.4	7304.3	8053.9	9692.6	12263.3	15842.0	20902.3	23999.7	26631.2	26527.4	21130.2
60°	5060.3	5002.1	5703.6	7137.1	9745.8	13638.5	20061.4	24559.5	29029.7	29065.1	23336.2
62.5°	3039.2	3006.3	3515.4	4627.2	7010.5	10908.3	18093.5	24220.1	30939.3	31098.9	24754.5
65°	1833.7	1810.9	2109.7	2760.6	4447.4	7960.2	15059.4	22485.2	31215.4	31582.6	24787.4
67.5°	1334.7	1337.3	1423.4	1681.7	2593.5	5141.4	11300.8	19375.1	29776.8	30156.7	23224.7
70°	1160.0	1165.0	1210.6	1268.9	1567.7	2943.0	7347.3	15294.9	25524.4	25818.2	19478.9
72.5°	1030.8	1030.8	1061.2	1091.6	1225.8	1793.1	3935.8	10690.5	20145.0	20223.5	14866.9
75°	906.7	899.1	914.3	929.5	1063.7	1253.7	1914.7	7448.6	14879.5	14697.2	9609.0
77.5°	721.8	714.2	716.8	731.9	853.5	896.6	970.0	4652.5	8385.7	7914.6	4244.8
80°	514.1	509.1	536.9	574.9	630.6	549.6	607.8	2251.6	3325.4	3094.9	1646.2
82.5°	306.5	316.6	359.6	390.0	435.6	344.4	392.6	752.2	1177.7	1147.3	668.6
85°	43.1	45.6	129.2	149.4	187.4	134.2	207.7	339.4	471.1	504.0	235.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	17.7	60.8	134.2	136.8	58.3
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°	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5	3411.5
2.5°	3472.3	3353.3	3183.6	3041.8	2922.7	2826.5	2745.4	2684.6	2666.9	2641.6	2641.6
5°	3598.9	3383.7	3079.7	2864.5	2740.4	2666.9	2616.3	2590.9	2578.3	2563.1	2555.5
7.5°	3773.7	3472.3	3062.0	2844.2	2748.0	2702.4	2669.5	2654.3	2644.1	2628.9	2628.9
10°	4014.3	3604.0	3117.7	2915.1	2839.1	2793.6	2755.6	2730.2	2707.4	2684.6	2679.6
12.5°	4275.2	3776.2	3219.0	3011.4	2930.3	2874.6	2821.4	2783.4	2755.6	2727.7	2720.1
15°	4563.9	3953.5	3328.0	3105.1	3003.8	2927.8	2864.5	2806.2	2768.2	2727.7	2722.6
17.5°	4847.6	4133.3	3419.1	3168.4	3039.2	2945.5	2854.3	2778.4	2730.2	2684.6	2672.0
20°	5186.9	4313.2	3482.4	3186.1	3031.6	2907.5	2798.6	2702.4	2649.2	2596.0	2588.4
22.5°	5498.5	4480.3	3512.8	3160.8	2973.4	2826.5	2699.8	2596.0	2537.8	2484.6	2474.4
25°	5799.9	4627.2	3500.2	3100.0	2884.7	2715.0	2583.3	2479.5	2423.8	2368.1	2352.9
27.5°	6091.1	4726.0	3449.5	3006.3	2773.3	2590.9	2464.3	2370.6	2322.5	2274.4	2254.1
30°	6377.3	4817.2	3371.0	2884.7	2631.5	2461.8	2357.9	2292.1	2244.0	2193.3	2178.1
32.5°	6666.0	4883.0	3252.0	2742.9	2487.1	2347.8	2284.5	2236.4	2185.7	2135.1	2119.9
35°	6957.3	4910.9	3107.6	2580.8	2365.5	2274.4	2251.6	2195.8	2127.5	2066.7	2046.4
37.5°	7304.3	4936.2	2927.8	2421.2	2259.2	2238.9	2233.8	2150.3	2069.2	1985.6	1962.8
40°	7722.2	4969.1	2742.9	2276.9	2173.0	2226.2	2206.0	2092.0	1929.9	1848.9	1823.5
42.5°	8233.8	5029.9	2550.4	2145.2	2109.7	2178.1	2155.3	1950.2	1841.3	1795.7	1783.0
45°	8986.0	5252.8	2357.9	2041.3	2061.6	2109.7	2074.3	1866.6	1823.5	1793.1	1777.9
47.5°	10325.8	5594.7	2190.8	1962.8	2023.6	2048.9	1912.2	1843.8	1810.9	1770.3	1752.6
50°	11718.7	5744.1	2056.5	1914.7	1980.6	1993.2	1823.5	1813.4	1790.6	1747.6	1729.8
52.5°	12660.9	5723.9	1975.5	1897.0	1945.1	1897.0	1783.0	1780.5	1765.3	1714.6	1694.4
55°	13724.6	5759.3	1940.0	1902.0	1929.9	1734.9	1732.4	1740.0	1732.4	1676.6	1666.5
57.5°	15160.7	5868.2	1922.3	1919.8	1919.8	1656.4	1684.2	1694.4	1679.2	1653.8	1646.2
60°	16541.0	5875.8	1889.4	1940.0	1912.2	1608.3	1628.5	1638.6	1620.9	1615.9	1613.3
62.5°	17060.2	5511.1	1815.9	1924.8	1881.8	1555.1	1570.3	1575.3	1557.6	1570.3	1567.7
65°	16287.7	4736.1	1694.4	1851.4	1788.1	1506.9	1496.8	1509.5	1479.1	1512.0	1514.5
67.5°	14461.6	3763.6	1509.5	1712.1	1656.4	1453.8	1433.5	1433.5	1382.8	1433.5	1431.0
70°	11660.5	2659.3	1238.5	1489.2	1512.0	1390.4	1380.3	1322.1	1241.0	1317.0	1309.4
72.5°	8839.1	1909.6	975.1	1177.7	1301.8	1301.8	1304.3	1205.6	1111.8	1147.3	1116.9
75°	5599.8	1344.9	780.1	901.6	1020.7	1142.2	1200.5	1018.1	934.6	919.4	904.2
77.5°	2522.6	883.9	607.8	691.4	724.3	901.6	1096.7	876.3	762.3	729.4	719.3
80°	1056.1	549.6	433.1	488.8	445.8	757.3	967.5	681.3	559.7	514.1	481.2
82.5°	463.5	326.7	276.1	263.4	278.6	562.3	721.8	453.4	349.5	473.6	478.7
85°	195.0	172.2	141.8	129.2	114.0	215.3	339.4	177.3	217.8	124.1	101.3
87.5°	45.6	50.7	38.0	25.3	15.2	2.5	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)