

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: P639705

Luminaire Tested: GWS-SA5C-735-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639705
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-SA5C-735-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23948.3 lumens
Efficiency: N/A
Efficacy: 152.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 157.5
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

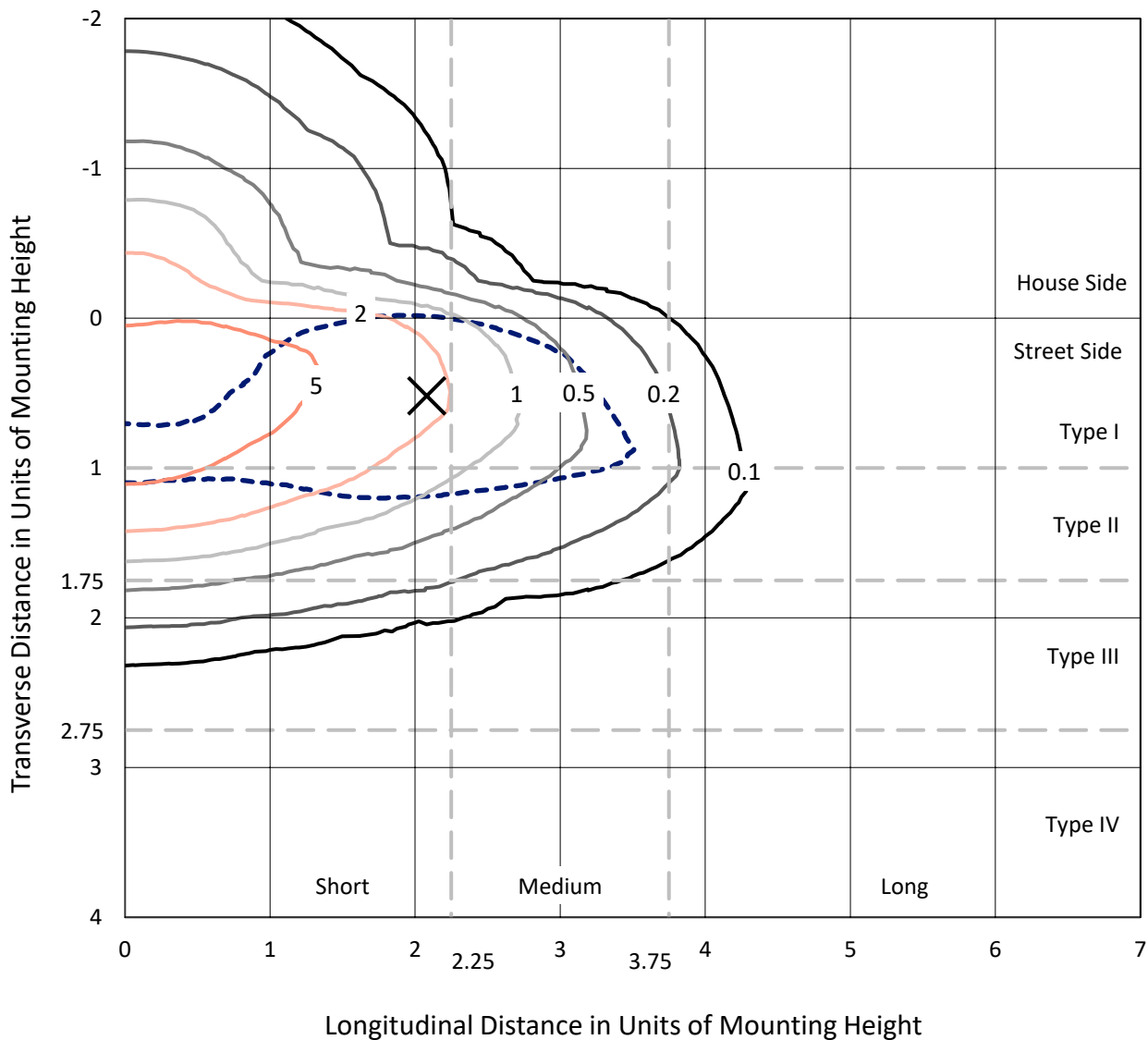


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Iso-Footcandle Lines of Horizontal Illumination

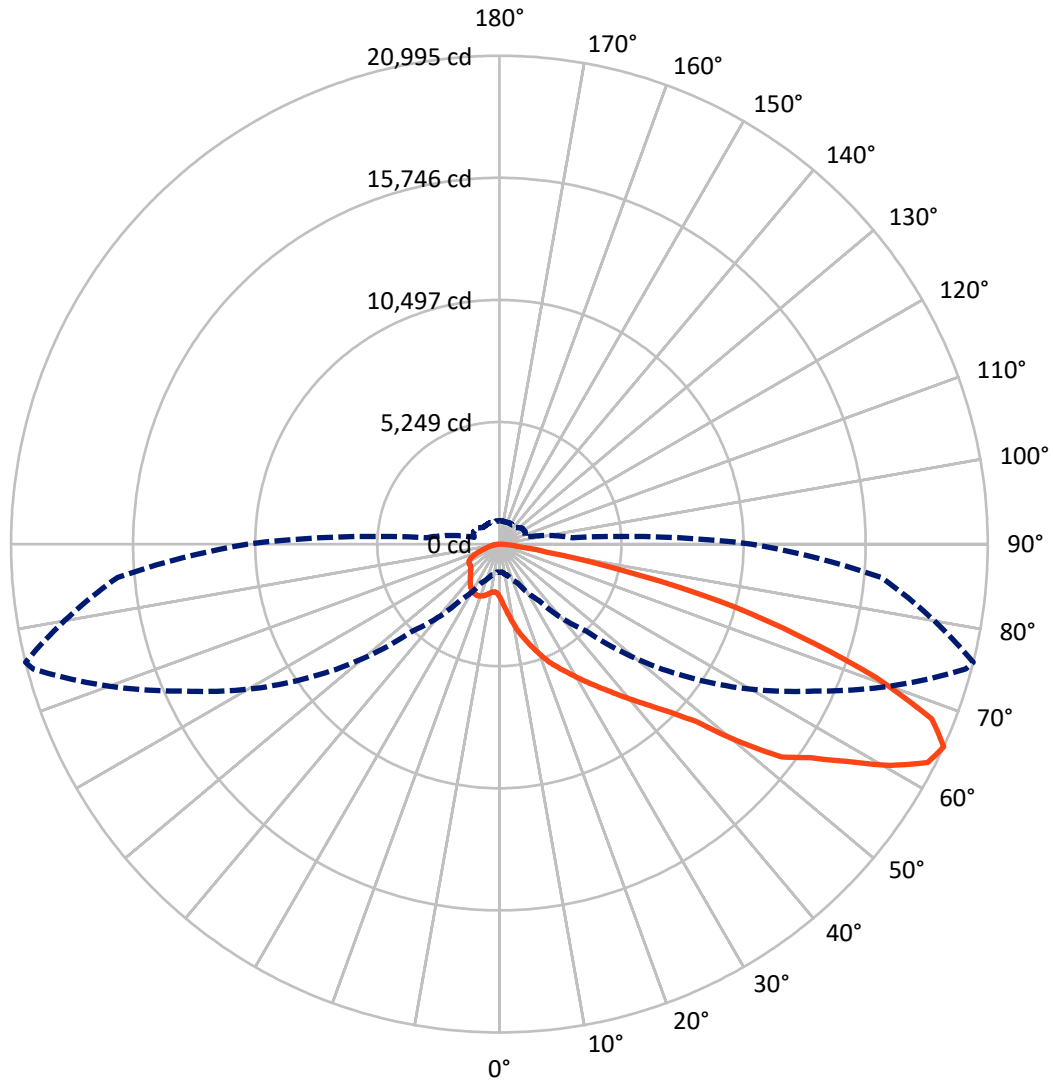
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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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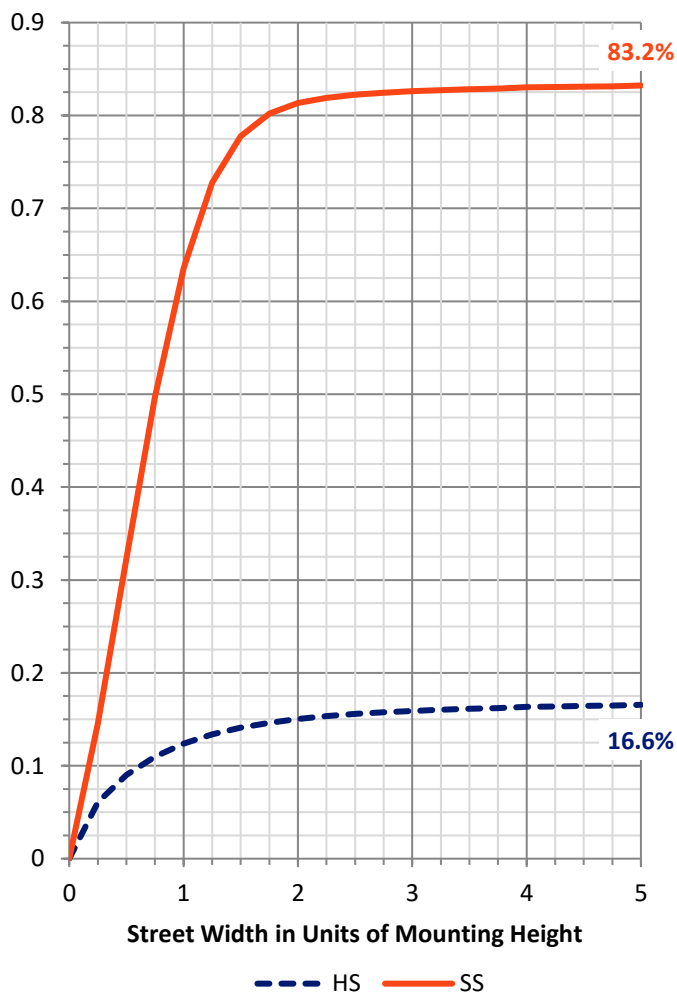
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4003.0	0.0	4003.0
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	19945.3	0.0	19945.3
	% Fixture	83.3	0.0	83.3
Total	Lumens	23948.3	0.0	23948.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.4	1.1
10°-20°	1026.2	4.3
20°-30°	2000.0	8.4
30°-40°	3344.8	14.0
40°-50°	4789.1	20.0
50°-60°	5669.7	23.7
60°-70°	4714.4	19.7
70°-80°	1929.3	8.1
80°-90°	205.4	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°	23948.3	100.0
0°-180°	23948.3	100.0

Coefficient of Utilization





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8
2.5°	3178.6	3190.4	3151.7	3138.2	3047.3	2924.4	2821.7	2666.8	2523.7	2501.8	2373.9
5°	4037.3	3986.8	3943.0	3914.4	3788.1	3648.4	3431.2	3139.9	2835.2	2798.2	2522.0
7.5°	4547.4	4539.0	4485.1	4468.3	4370.6	4230.9	4007.0	3645.0	3202.2	3141.6	2722.4
10°	4956.5	4951.5	4924.5	4939.7	4850.5	4714.1	4496.9	4123.1	3604.6	3544.0	2946.3
12.5°	5313.5	5321.9	5316.8	5372.4	5326.9	5220.9	4995.3	4584.5	4007.0	3941.3	3219.1
15°	5574.4	5581.1	5606.4	5727.6	5752.9	5731.0	5502.0	5037.3	4404.3	4310.0	3500.2
17.5°	5648.5	5662.0	5722.6	5917.9	6054.2	6145.2	5975.1	5498.7	4794.9	4692.2	3786.4
20°	5747.8	5763.0	5823.6	6027.3	6227.7	6434.7	6404.4	5966.7	5188.9	5104.7	4076.0
22.5°	6207.5	6195.7	6168.7	6266.4	6409.5	6667.1	6742.8	6416.2	5596.3	5515.5	4395.9
25°	7093.0	7071.1	6899.4	6810.2	6763.0	6919.6	7054.3	6825.3	5993.6	5872.4	4693.9
27.5°	8069.5	8057.7	7838.9	7626.7	7337.1	7269.8	7348.9	7182.3	6379.2	6256.3	4953.2
30°	8993.8	8958.5	8729.5	8463.5	8076.3	7786.7	7670.5	7532.4	6801.8	6673.8	5256.2
32.5°	9820.5	9775.0	9505.6	9211.0	8805.3	8463.5	8116.7	7904.5	7279.9	7131.7	5566.0
35°	10499.0	10453.5	10177.4	9864.2	9418.1	9165.5	8690.8	8308.6	7766.5	7616.6	5931.3
37.5°	11024.2	10982.2	10694.3	10386.2	9997.2	9796.9	9384.4	8763.2	8327.1	8170.5	6318.6
40°	11318.9	11288.6	11057.9	10813.8	10487.2	10313.8	10128.6	9337.3	8955.1	8798.5	6774.8
42.5°	11408.1	11387.9	11226.3	11100.0	10879.5	10748.1	10854.2	10012.4	9625.2	9488.8	7288.3
45°	11184.2	11184.2	11137.0	11201.0	11211.1	11209.4	11581.5	10775.1	10448.5	10298.6	8012.3
47.5°	10611.8	10648.8	10717.8	11032.7	11364.3	11642.1	12431.7	11792.0	11507.4	11384.5	9037.6
50°	9564.6	9665.6	9901.3	10515.8	11221.2	11928.3	13236.5	13295.4	13566.5	13349.3	10546.1
52.5°	8030.8	8015.6	8616.7	9492.2	10568.0	11940.1	13679.3	14622.1	15351.1	15201.3	11667.4
55°	6382.5	6357.3	6917.9	8125.1	9566.2	11488.9	13945.3	15229.9	16341.1	16206.4	12675.9
57.5°	4887.5	4855.5	5353.9	6443.2	8152.0	10530.9	13894.8	15953.8	17703.1	17634.1	14046.3
60°	3363.8	3325.1	3791.5	4744.4	6478.5	9066.2	13335.8	16325.9	19297.5	19321.0	15512.7
62.5°	2020.3	1998.4	2336.8	3075.9	4660.2	7251.3	12027.7	16100.3	20566.9	20673.0	16455.6
65°	1218.9	1203.8	1402.4	1835.1	2956.4	5291.6	10010.7	14947.0	20750.4	20994.6	16477.4
67.5°	887.3	888.9	946.2	1117.9	1724.0	3417.7	7512.2	12879.6	19794.1	20046.7	15438.7
70°	771.1	774.5	804.8	843.5	1042.2	1956.3	4884.1	10167.3	16967.4	17162.7	12948.6
72.5°	685.2	685.2	705.4	725.6	814.9	1192.0	2616.3	7106.5	13391.4	13443.6	9882.8
75°	602.7	597.7	607.8	617.9	707.1	833.4	1272.8	4951.5	9891.2	9770.0	6387.6
77.5°	479.8	474.8	476.5	486.6	567.4	596.0	644.8	3092.8	5574.4	5261.3	2821.7
80°	341.8	338.4	356.9	382.2	419.2	365.3	404.1	1496.7	2210.6	2057.4	1094.3
82.5°	203.7	210.5	239.1	259.3	289.6	229.0	261.0	500.0	782.9	762.7	444.5
85°	28.6	30.3	85.9	99.3	124.6	89.2	138.1	225.6	313.2	335.0	156.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	11.8	40.4	89.2	90.9	38.7
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°	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8	2267.8
2.5°	2308.2	2229.1	2116.3	2022.0	1942.9	1878.9	1825.0	1784.6	1772.8	1756.0	1756.0
5°	2392.4	2249.3	2047.3	1904.2	1821.7	1772.8	1739.2	1722.3	1713.9	1703.8	1698.8
7.5°	2508.6	2308.2	2035.5	1890.7	1826.7	1796.4	1774.5	1764.4	1757.7	1747.6	1747.6
10°	2668.5	2395.8	2072.5	1937.8	1887.3	1857.0	1831.8	1814.9	1799.8	1784.6	1781.3
12.5°	2841.9	2510.3	2139.9	2001.8	1947.9	1910.9	1875.5	1850.3	1831.8	1813.2	1808.2
15°	3033.9	2628.1	2212.3	2064.1	1996.8	1946.2	1904.2	1865.4	1840.2	1813.2	1809.9
17.5°	3222.4	2747.6	2272.9	2106.2	2020.3	1958.0	1897.4	1846.9	1814.9	1784.6	1776.2
20°	3448.0	2867.2	2315.0	2118.0	2015.3	1932.8	1860.4	1796.4	1761.1	1725.7	1720.6
22.5°	3655.1	2978.3	2335.2	2101.1	1976.6	1878.9	1794.7	1725.7	1687.0	1651.6	1644.9
25°	3855.5	3075.9	2326.7	2060.7	1917.6	1804.8	1717.3	1648.2	1611.2	1574.2	1564.1
27.5°	4049.1	3141.6	2293.1	1998.4	1843.5	1722.3	1638.1	1575.9	1543.9	1511.9	1498.4
30°	4239.3	3202.2	2240.9	1917.6	1749.3	1636.5	1567.4	1523.7	1491.7	1458.0	1447.9
32.5°	4431.2	3246.0	2161.7	1823.3	1653.3	1560.7	1518.6	1486.6	1453.0	1419.3	1409.2
35°	4624.9	3264.5	2065.8	1715.6	1572.5	1511.9	1496.7	1459.7	1414.2	1373.8	1360.4
37.5°	4855.5	3281.3	1946.2	1609.5	1501.8	1488.3	1484.9	1429.4	1375.5	1319.9	1304.8
40°	5133.3	3303.2	1823.3	1513.6	1444.5	1479.9	1466.4	1390.7	1282.9	1229.0	1212.2
42.5°	5473.4	3343.6	1695.4	1426.0	1402.4	1447.9	1432.7	1296.4	1224.0	1193.7	1185.3
45°	5973.4	3491.8	1567.4	1357.0	1370.5	1402.4	1378.9	1240.8	1212.2	1192.0	1181.9
47.5°	6864.1	3719.1	1456.3	1304.8	1345.2	1362.0	1271.1	1225.7	1203.8	1176.8	1165.1
50°	7790.0	3818.4	1367.1	1272.8	1316.6	1325.0	1212.2	1205.5	1190.3	1161.7	1149.9
52.5°	8416.3	3804.9	1313.2	1261.0	1293.0	1261.0	1185.3	1183.6	1173.5	1139.8	1126.3
55°	9123.5	3828.5	1289.6	1264.4	1282.9	1153.3	1151.6	1156.6	1151.6	1114.5	1107.8
57.5°	10078.1	3900.9	1277.9	1276.2	1276.2	1101.1	1119.6	1126.3	1116.2	1099.4	1094.3
60°	10995.6	3906.0	1256.0	1289.6	1271.1	1069.1	1082.6	1089.3	1077.5	1074.1	1072.5
62.5°	11340.8	3663.5	1207.1	1279.5	1250.9	1033.7	1043.8	1047.2	1035.4	1043.8	1042.2
65°	10827.3	3148.3	1126.3	1230.7	1188.6	1001.7	995.0	1003.4	983.2	1005.1	1006.8
67.5°	9613.4	2501.8	1003.4	1138.1	1101.1	966.4	952.9	952.9	919.2	952.9	951.2
70°	7751.3	1767.8	823.3	990.0	1005.1	924.3	917.6	878.8	825.0	875.5	870.4
72.5°	5875.8	1269.4	648.2	782.9	865.4	865.4	867.1	801.4	739.1	762.7	742.5
75°	3722.4	894.0	518.6	599.4	678.5	759.3	798.0	676.8	621.3	611.1	601.0
77.5°	1676.9	587.6	404.1	459.6	481.5	599.4	729.0	582.5	506.8	484.9	478.1
80°	702.1	365.3	287.9	324.9	296.3	503.4	643.1	452.9	372.1	341.8	319.9
82.5°	308.1	217.2	183.5	175.1	185.2	373.8	479.8	301.4	232.3	314.8	318.2
85°	129.6	114.5	94.3	85.9	75.8	143.1	225.6	117.9	144.8	82.5	67.3
87.5°	30.3	33.7	25.3	16.8	10.1	1.7	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)