

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: P637200

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

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637200
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19496.3 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

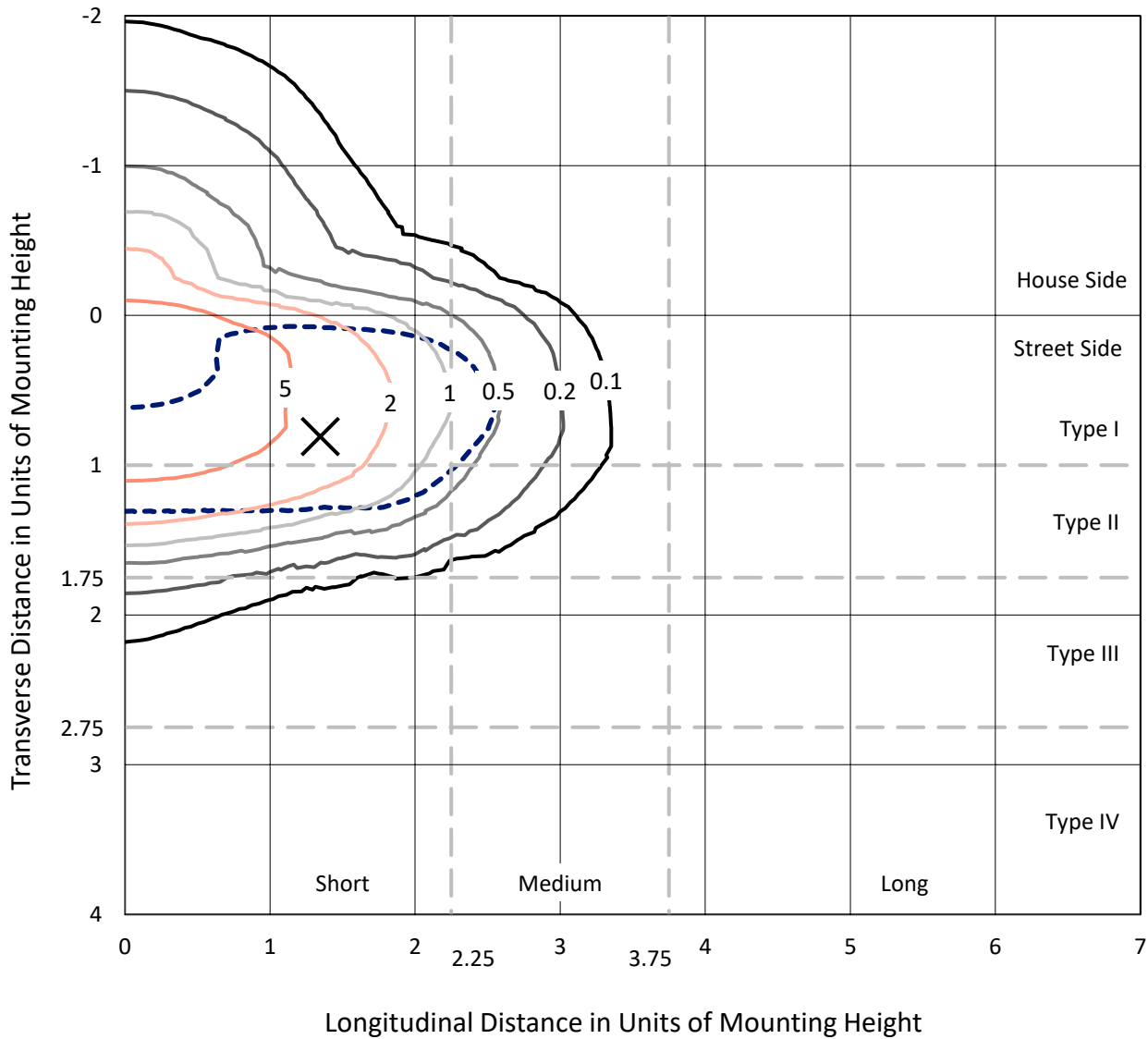
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

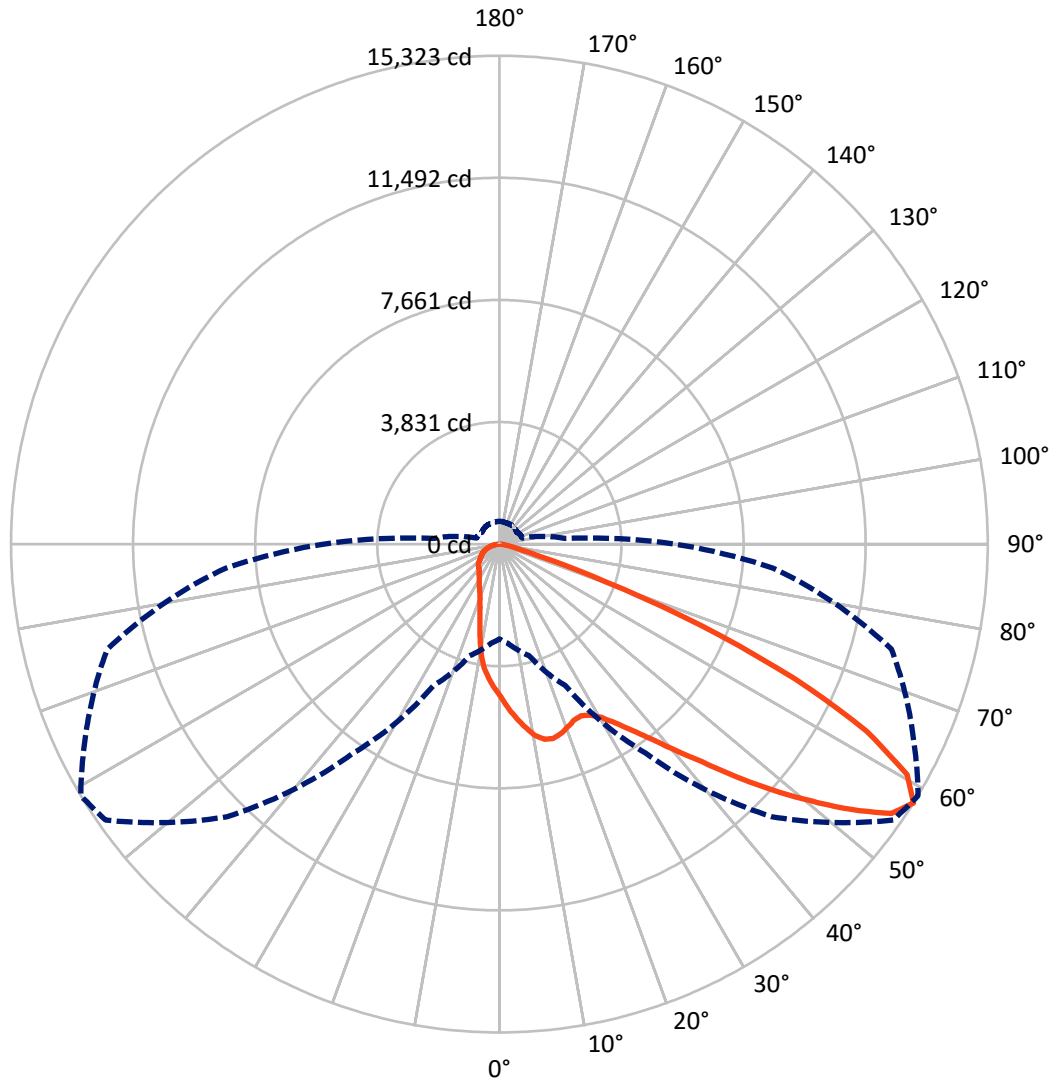
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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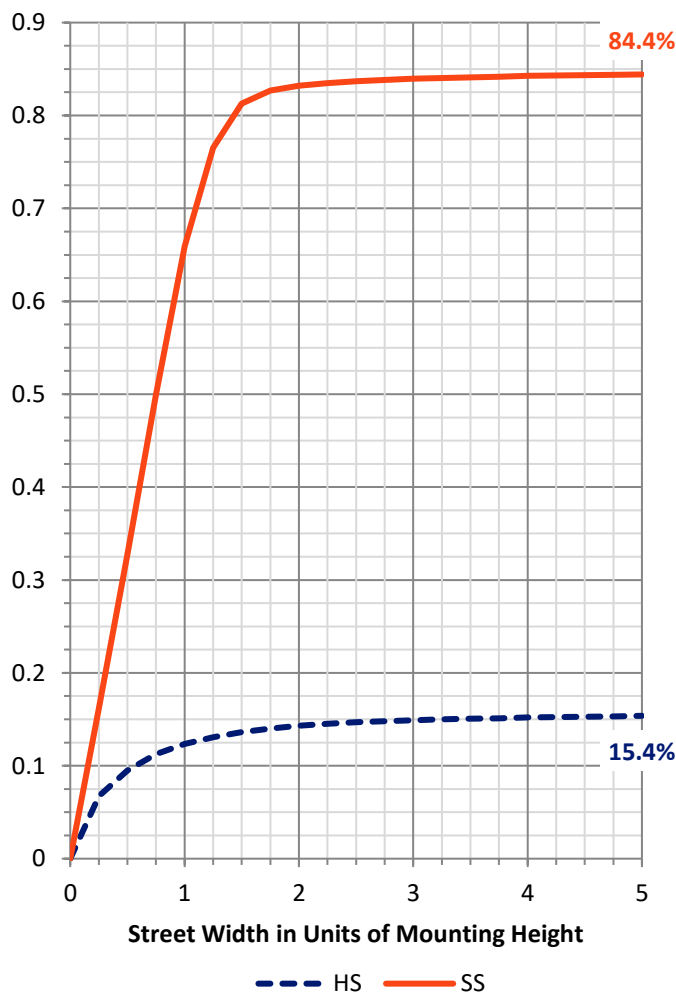
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3025.7	0.0	3025.7
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	16470.6	0.0	16470.6
	% Fixture	84.5	0.0	84.5
Total	Lumens	19496.3	0.0	19496.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.4	2.3
10°-20°	1126.1	5.8
20°-30°	1825.4	9.4
30°-40°	2936.4	15.1
40°-50°	4559.9	23.4
50°-60°	4911.6	25.2
60°-70°	2850.5	14.6
70°-80°	744.1	3.8
80°-90°	98.0	0.5
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°	19496.3	100.0
0°-180°	19496.3	100.0

Coefficient of Utilization





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4786.0	4786.0	4786.0	4786.0	4786.0	4786.0	4786.0	4786.0	4786.0	4786.0	4786.0
2.5°	5428.3	5383.0	5414.6	5358.3	5335.0	5273.2	5193.6	5140.1	5057.7	4950.7	4857.3
5°	5967.7	5936.1	5943.0	5882.6	5829.1	5726.1	5562.8	5472.2	5332.2	5116.7	4916.3
7.5°	5951.2	5988.3	6008.9	6061.0	6076.1	6066.5	5919.6	5793.4	5639.7	5315.7	5013.8
10°	5335.0	5405.0	5468.1	5646.5	5863.4	6137.9	6172.2	6096.7	5941.6	5569.7	5130.5
12.5°	4663.8	4717.3	4773.6	4987.7	5319.9	5868.9	6240.8	6287.5	6225.7	5820.8	5262.2
15°	4334.4	4359.1	4412.6	4554.0	4818.9	5428.3	6121.4	6325.9	6437.1	6087.1	5410.4
17.5°	4320.7	4331.7	4357.7	4433.2	4617.1	5087.9	5905.9	6249.1	6603.2	6368.5	5583.4
20°	4604.8	4576.0	4559.5	4558.1	4648.7	4974.0	5697.3	6125.5	6681.4	6656.7	5768.7
22.5°	4998.7	5008.3	4972.6	4884.8	4873.8	5055.0	5593.0	6000.6	6704.7	6912.0	5940.2
25°	5557.3	5605.3	5499.7	5332.2	5249.9	5289.7	5657.5	5962.2	6702.0	7124.7	6047.3
27.5°	6209.2	6246.3	6139.2	5919.6	5749.5	5653.4	5849.6	6076.1	6725.3	7308.6	6111.8
30°	6951.8	6964.1	6817.3	6586.7	6338.3	6132.4	6169.4	6310.8	6844.7	7550.2	6187.3
32.5°	7859.0	7911.2	7688.8	7323.7	6976.5	6713.0	6599.0	6689.6	7102.8	7835.7	6304.0
35°	9010.5	9028.4	8745.7	8222.7	7731.4	7366.3	7127.5	7175.5	7495.3	8235.1	6479.6
37.5°	10096.2	10114.0	9813.5	9327.6	8624.9	8125.3	7779.4	7757.4	7997.6	8799.2	6766.5
40°	10785.2	10836.0	10701.5	10396.8	9725.6	9051.7	8582.3	8506.8	8656.4	9489.6	7165.9
42.5°	11155.8	11177.7	11175.0	11214.8	10815.4	10145.6	9488.2	9337.2	9437.4	10234.8	7569.4
45°	11158.5	11213.4	11360.3	11743.2	11761.1	11343.8	10632.9	10396.8	10304.8	10985.6	7990.8
47.5°	10658.9	10718.0	11121.5	11875.0	12430.8	12525.6	12004.0	11530.5	11143.4	11632.0	8336.6
50°	9146.4	9294.7	10063.3	11396.0	12562.6	13472.6	13312.0	12669.7	11888.7	12131.6	8553.5
52.5°	7832.9	7827.4	8301.0	10042.7	12012.2	13889.8	14577.5	13841.8	12625.7	12448.7	8608.4
55°	5735.7	5767.3	6251.8	7680.6	10543.6	13486.3	15273.3	14920.6	13471.2	12617.5	8586.4
57.5°	2974.2	3130.7	3627.6	4901.2	8011.4	12097.3	15088.0	15322.7	14330.4	12736.9	8615.3
60°	1502.9	1472.7	1651.1	2340.1	4641.8	9448.4	13946.1	14694.1	14485.5	12830.2	8633.1
62.5°	1003.3	995.1	945.7	1084.3	1896.8	5595.7	11888.7	12937.3	13408.1	12610.6	8405.3
65°	868.8	852.3	761.7	756.3	921.0	2320.9	8714.1	10170.3	11081.7	11634.8	7860.4
67.5°	782.3	757.6	665.7	620.4	661.6	1019.8	4910.9	6821.4	8182.9	9839.5	6666.3
70°	698.6	686.3	594.3	528.4	524.3	621.7	1809.0	3520.5	5006.9	6713.0	4873.8
72.5°	625.9	603.9	525.7	462.5	431.0	440.6	785.1	1356.0	2591.3	4187.5	2915.2
75°	542.1	525.7	457.0	393.9	355.5	322.5	479.0	627.2	1181.7	1990.1	1376.6
77.5°	418.6	407.6	361.0	312.9	291.0	240.2	291.0	395.3	546.3	838.6	716.5
80°	242.9	249.8	269.0	244.3	214.1	171.6	189.4	227.8	328.0	454.3	406.3
82.5°	122.2	130.4	174.3	141.4	127.6	100.2	112.5	134.5	171.6	251.2	159.2
85°	9.6	9.6	31.6	35.7	43.9	35.7	45.3	54.9	78.2	100.2	53.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	4.1	6.9	12.4	23.3	15.1
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°	4786.0	4786.0	4786.0	4786.0	4786.0	4786.0	4786.0	4786.0	4786.0	4786.0	4786.0
2.5°	4794.2	4724.2	4640.5	4571.8	4466.2	4409.9	4338.5	4250.7	4215.0	4198.5	4188.9
5°	4803.8	4680.3	4501.8	4337.1	4154.6	4010.5	3849.9	3682.5	3586.4	3563.0	3546.6
7.5°	4839.5	4666.5	4382.4	4110.7	3771.7	3457.4	3151.3	2848.0	2692.9	2633.9	2628.4
10°	4888.9	4661.1	4261.7	3810.1	3237.8	2740.9	2382.7	2145.2	2045.0	2012.1	2001.1
12.5°	4950.7	4656.9	4102.4	3392.9	2621.5	2152.1	1947.6	1909.2	1922.9	1920.1	1920.1
15°	5028.9	4662.4	3910.3	2920.7	2120.5	1868.0	1872.1	1917.4	1959.9	1966.8	1966.8
17.5°	5114.0	4656.9	3631.7	2447.2	1820.0	1800.7	1863.9	1927.0	1965.4	1970.9	1970.9
20°	5205.9	4630.9	3280.3	2001.1	1688.2	1758.2	1826.8	1876.2	1899.6	1905.0	1905.0
22.5°	5260.8	4556.7	2898.7	1693.7	1604.5	1690.9	1736.2	1787.0	1789.8	1745.8	1744.5
25°	5252.6	4418.1	2463.7	1496.0	1515.3	1590.7	1648.4	1612.7	1568.8	1544.1	1540.0
27.5°	5200.5	4209.5	2020.3	1346.4	1409.6	1494.7	1476.8	1446.6	1435.6	1408.2	1405.5
30°	5134.6	3952.8	1622.3	1229.8	1299.8	1378.0	1350.6	1347.8	1336.8	1306.6	1306.6
32.5°	5071.4	3687.9	1321.7	1143.3	1229.8	1235.3	1273.7	1276.4	1270.9	1218.8	1213.3
35°	5053.6	3423.0	1118.6	1074.7	1161.1	1158.4	1213.3	1211.9	1117.2	1044.5	1043.1
37.5°	5107.1	3154.0	997.8	1018.4	1066.4	1102.1	1146.0	1066.4	1034.9	991.0	988.2
40°	5221.0	2905.6	936.1	985.5	1006.1	1058.2	989.6	995.1	986.8	953.9	949.8
42.5°	5372.0	2694.2	901.7	974.5	971.7	985.5	910.0	931.9	944.3	919.6	915.5
45°	5517.5	2510.3	883.9	933.3	947.0	867.4	852.3	872.9	892.1	882.5	878.4
47.5°	5624.6	2351.1	874.3	877.0	915.5	827.6	802.9	812.5	835.9	840.0	838.6
50°	5657.5	2215.2	863.3	830.4	822.1	787.8	768.6	765.9	793.3	812.5	815.3
52.5°	5594.4	2094.5	834.5	789.2	749.4	754.9	748.0	734.3	761.7	787.8	790.6
55°	5501.0	2025.8	789.2	749.4	702.7	724.7	727.4	715.1	732.9	750.8	750.8
57.5°	5507.9	2065.6	745.3	712.3	661.6	690.4	705.5	700.0	700.0	713.7	715.1
60°	5553.2	2123.3	716.5	665.7	620.4	650.6	684.9	679.4	667.0	684.9	684.9
62.5°	5422.8	2046.4	697.2	620.4	576.5	612.1	653.3	650.6	636.8	665.7	668.4
65°	5038.5	1840.5	675.3	564.1	532.5	573.7	609.4	619.0	606.7	645.1	651.9
67.5°	4223.2	1548.2	632.7	510.6	488.6	527.0	561.4	575.1	565.5	610.8	616.3
70°	3148.5	1253.1	565.5	451.6	435.1	469.4	501.0	506.5	507.8	561.4	566.8
72.5°	2008.0	974.5	476.3	385.7	373.3	399.4	422.7	444.7	454.3	505.1	503.7
75°	1120.0	724.7	382.9	326.7	304.7	325.3	352.7	378.8	406.3	480.4	488.6
77.5°	645.1	509.2	303.3	262.1	236.1	258.0	281.4	318.4	400.8	465.3	457.0
80°	363.7	330.8	229.2	192.2	175.7	192.2	210.0	280.0	315.7	343.1	347.2
82.5°	170.2	185.3	156.5	118.0	118.0	129.0	145.5	216.9	238.8	194.9	170.2
85°	61.8	83.7	76.9	60.4	53.5	52.2	90.6	123.5	76.9	68.6	59.0
87.5°	16.5	23.3	22.0	15.1	8.2	6.9	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)