

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: P640170

Luminaire Tested: GWS-SA5D-735-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640170
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-SA5D-735-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30171.9 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

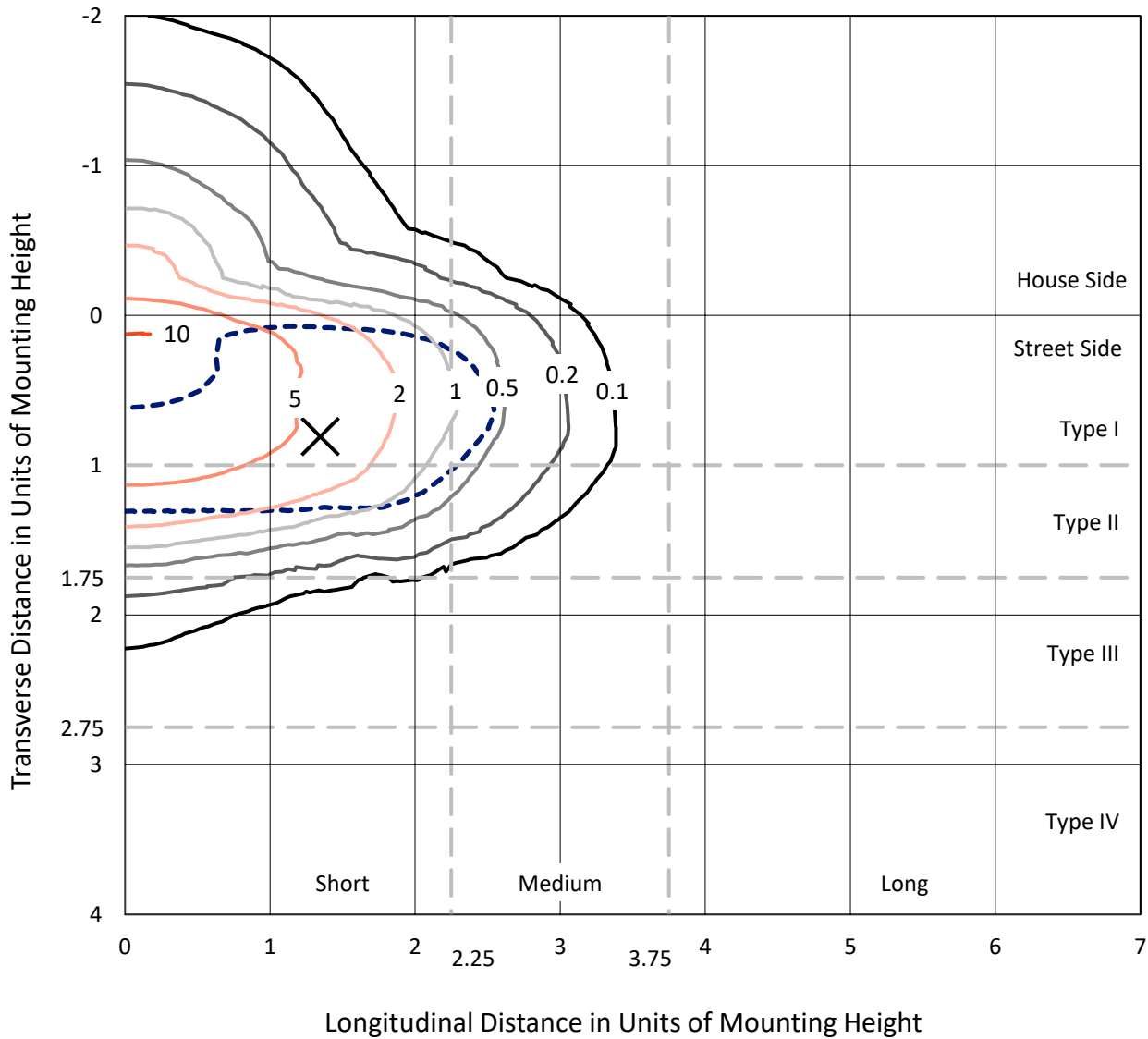
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

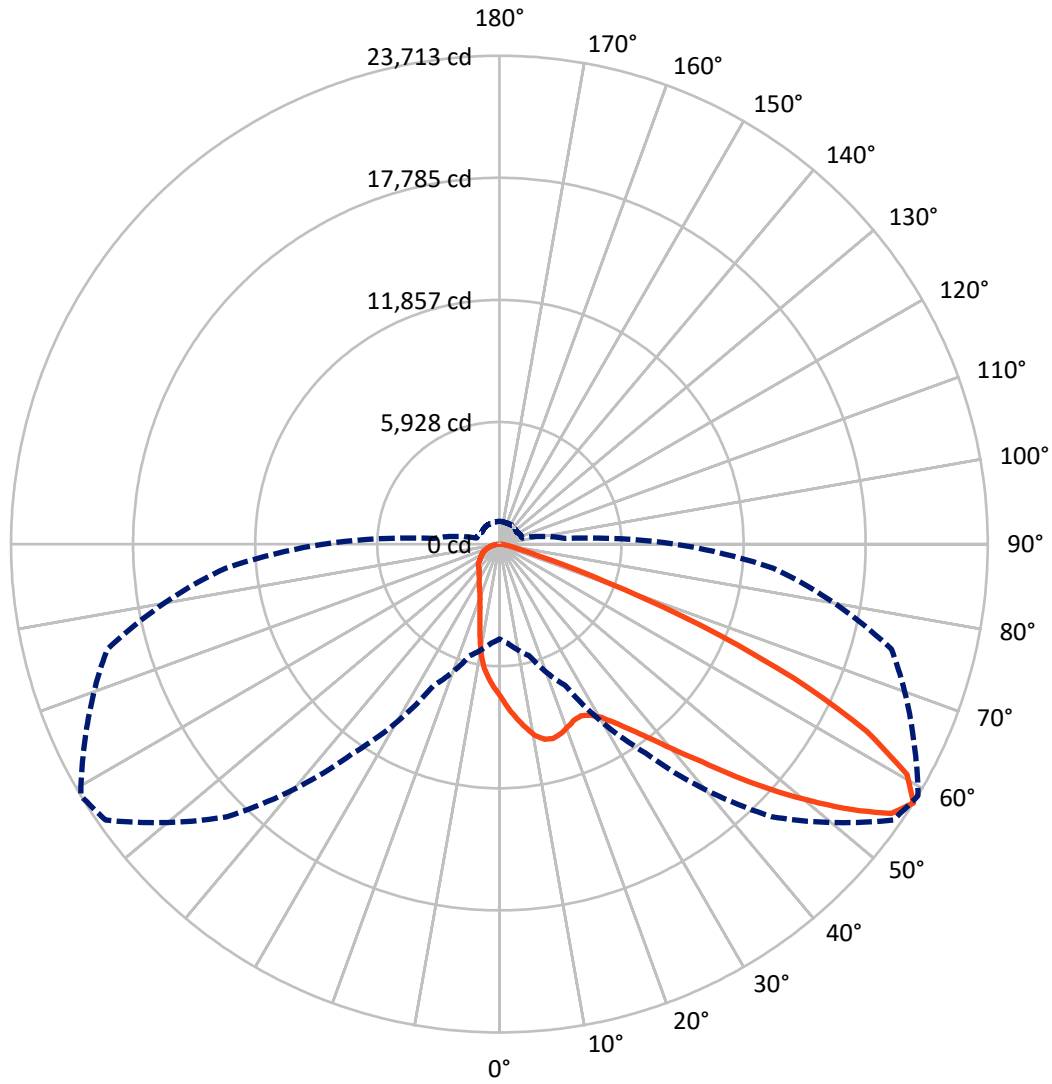
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.1 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	4682.5	0.0	4682.5
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	25489.4	0.0	25489.4
	% Fixture	84.5	0.0	84.5
Total	Lumens	30171.9	0.0	30171.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.7	2.3
10°-20°	1742.7	5.8
20°-30°	2824.9	9.4
30°-40°	4544.2	15.1
40°-50°	7056.7	23.4
50°-60°	7601.0	25.2
60°-70°	4411.3	14.6
70°-80°	1151.6	3.8
80°-90°	151.7	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°	30171.9	100.0
0°-180°	30171.9	100.0

Coefficient of Utilization





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7406.6	7406.6	7406.6	7406.6	7406.6	7406.6	7406.6	7406.6	7406.6	7406.6	7406.6
2.5°	8400.7	8330.6	8379.4	8292.3	8256.2	8160.6	8037.4	7954.6	7827.2	7661.5	7517.0
5°	9235.4	9186.6	9197.2	9103.7	9020.9	8861.6	8608.8	8468.6	8252.0	7918.5	7608.4
7.5°	9209.9	9267.3	9299.1	9379.9	9403.2	9388.3	9161.1	8965.7	8727.8	8226.5	7759.2
10°	8256.2	8364.5	8462.3	8738.4	9074.0	9498.8	9551.9	9435.1	9195.1	8619.4	7939.7
12.5°	7217.6	7300.4	7387.5	7718.8	8232.9	9082.5	9658.1	9730.3	9634.7	9008.1	8143.6
15°	6707.8	6746.0	6828.9	7047.6	7457.6	8400.7	9473.3	9789.8	9961.8	9420.2	8373.0
17.5°	6686.5	6703.5	6743.9	6860.7	7145.3	7873.9	9139.8	9670.8	10218.9	9855.6	8640.7
20°	7126.2	7081.6	7056.1	7054.0	7194.2	7697.6	8817.0	9479.7	10339.9	10301.7	8927.4
22.5°	7735.8	7750.7	7695.5	7559.5	7542.5	7822.9	8655.5	9286.4	10376.0	10696.8	9192.9
25°	8600.3	8674.7	8511.1	8252.0	8124.5	8186.1	8755.4	9226.9	10371.8	11026.0	9358.6
27.5°	9609.2	9666.6	9500.9	9161.1	8897.7	8749.0	9052.7	9403.2	10407.9	11310.6	9458.4
30°	10758.4	10777.5	10550.2	10193.4	9808.9	9490.3	9547.7	9766.4	10592.7	11684.5	9575.3
32.5°	12162.4	12243.1	11899.0	11334.0	10796.6	10388.8	10212.5	10352.7	10992.0	12126.3	9755.8
35°	13944.5	13972.1	13534.5	12725.2	11964.8	11399.8	11030.2	11104.6	11599.5	12744.4	10027.7
37.5°	15624.6	15652.2	15187.0	14435.1	13347.6	12574.4	12039.2	12005.2	12376.9	13617.4	10471.6
40°	16690.9	16769.5	16561.3	16089.8	15051.1	14008.2	13281.7	13164.9	13396.4	14685.8	11089.7
42.5°	17264.4	17298.3	17294.1	17355.7	16737.6	15701.1	14683.6	14450.0	14605.0	15839.1	11714.2
45°	17268.6	17353.6	17580.8	18173.5	18201.1	17555.4	16455.1	16089.8	15947.4	17001.0	12366.3
47.5°	16495.5	16586.8	17211.3	18377.4	19237.6	19384.2	18577.0	17844.2	17245.2	18001.4	12901.5
50°	14154.7	14384.1	15573.6	17636.1	19441.5	20849.8	20601.3	19607.2	18398.6	18774.6	13237.1
52.5°	12122.0	12113.5	12846.3	15541.7	18589.8	21495.5	22559.6	21421.1	19539.2	19265.2	13322.1
55°	8876.4	8925.3	9675.1	11886.2	16317.0	20871.0	23636.5	23090.7	20847.7	19526.5	13288.1
57.5°	4602.8	4845.0	5613.9	7585.0	12398.1	18721.5	23349.8	23713.0	22177.3	19711.3	13332.7
60°	2325.8	2279.1	2555.2	3621.5	7183.6	14622.0	21582.6	22740.2	22417.3	19855.7	13360.3
62.5°	1552.7	1539.9	1463.5	1678.0	2935.5	8659.8	18398.6	20021.4	20749.9	19515.9	13007.7
65°	1344.5	1319.0	1178.9	1170.4	1425.2	3591.8	13485.7	15739.3	17149.7	18005.7	12164.5
67.5°	1210.7	1172.5	1030.2	960.1	1023.8	1578.2	7599.9	10556.6	12663.6	15227.4	10316.6
70°	1081.1	1062.0	919.7	817.8	811.4	962.2	2799.5	5448.2	7748.6	10388.8	7542.5
72.5°	968.6	934.6	813.5	715.8	667.0	681.8	1215.0	2098.6	4010.2	6480.5	4511.5
75°	839.0	813.5	707.3	609.6	550.1	499.2	741.3	970.7	1828.8	3079.9	2130.4
77.5°	647.8	630.8	558.6	484.3	450.3	371.7	450.3	611.7	845.4	1297.8	1108.8
80°	376.0	386.6	416.3	378.1	331.4	265.5	293.1	352.6	507.7	703.1	628.7
82.5°	189.0	201.8	269.8	218.8	197.5	155.1	174.2	208.2	265.5	388.7	246.4
85°	14.9	14.9	48.9	55.2	68.0	55.2	70.1	85.0	121.1	155.1	82.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	6.4	10.6	19.1	36.1	23.4
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°	7406.6	7406.6	7406.6	7406.6	7406.6	7406.6	7406.6	7406.6	7406.6	7406.6	7406.6
2.5°	7419.3	7311.0	7181.4	7075.2	6911.7	6824.6	6714.2	6578.2	6523.0	6497.5	6482.6
5°	7434.2	7243.0	6966.9	6712.0	6429.5	6206.5	5958.0	5698.9	5550.2	5514.1	5488.6
7.5°	7489.4	7221.8	6782.1	6361.6	5836.9	5350.5	4876.8	4407.4	4167.4	4076.1	4067.6
10°	7565.9	7213.3	6595.2	5896.4	5010.7	4241.7	3687.4	3319.9	3164.8	3113.9	3096.9
12.5°	7661.5	7206.9	6348.8	5250.7	4057.0	3330.5	3014.0	2954.6	2975.8	2971.6	2971.6
15°	7782.6	7215.4	6051.4	4520.0	3281.7	2890.8	2897.2	2967.3	3033.2	3043.8	3043.8
17.5°	7914.2	7206.9	5620.3	3787.2	2816.5	2786.8	2884.5	2982.2	3041.7	3050.2	3050.2
20°	8056.6	7166.6	5076.5	3096.9	2612.6	2720.9	2827.1	2903.6	2939.7	2948.2	2948.2
22.5°	8141.5	7051.9	4486.0	2621.1	2483.0	2616.8	2686.9	2765.5	2769.8	2701.8	2699.7
25°	8128.8	6837.3	3812.7	2315.2	2345.0	2461.8	2551.0	2495.8	2427.8	2389.6	2383.2
27.5°	8048.1	6514.5	3126.6	2083.7	2181.4	2313.1	2285.5	2238.8	2221.8	2179.3	2175.0
30°	7946.1	6117.3	2510.6	1903.2	2011.5	2132.6	2090.1	2085.8	2068.8	2022.1	2022.1
32.5°	7848.4	5707.3	2045.5	1769.3	1903.2	1911.7	1971.1	1975.4	1966.9	1886.2	1877.7
35°	7820.8	5297.4	1731.1	1663.1	1797.0	1792.7	1877.7	1875.5	1729.0	1616.4	1614.3
37.5°	7903.6	4881.1	1544.2	1576.1	1650.4	1705.6	1773.6	1650.4	1601.5	1533.6	1529.3
40°	8079.9	4496.6	1448.6	1525.1	1556.9	1637.7	1531.4	1539.9	1527.2	1476.2	1469.8
42.5°	8313.6	4169.5	1395.5	1508.1	1503.8	1525.1	1408.3	1442.2	1461.4	1423.1	1416.7
45°	8538.7	3884.9	1367.9	1444.4	1465.6	1342.4	1319.0	1350.9	1380.6	1365.8	1359.4
47.5°	8704.4	3638.5	1353.0	1357.3	1416.7	1280.8	1242.6	1257.4	1293.6	1299.9	1297.8
50°	8755.4	3428.2	1336.0	1285.1	1272.3	1219.2	1189.5	1185.2	1227.7	1257.4	1261.7
52.5°	8657.7	3241.3	1291.4	1221.3	1159.7	1168.2	1157.6	1136.4	1178.9	1219.2	1223.5
55°	8513.2	3135.1	1221.3	1159.7	1087.5	1121.5	1125.8	1106.6	1134.2	1161.9	1161.9
57.5°	8523.9	3196.7	1153.4	1102.4	1023.8	1068.4	1091.8	1083.3	1083.3	1104.5	1106.6
60°	8593.9	3285.9	1108.8	1030.2	960.1	1006.8	1059.9	1051.4	1032.3	1059.9	1059.9
62.5°	8392.2	3167.0	1079.0	960.1	892.1	947.3	1011.1	1006.8	985.6	1030.2	1034.4
65°	7797.4	2848.4	1045.0	873.0	824.1	887.9	943.1	958.0	938.8	998.3	1008.9
67.5°	6535.7	2395.9	979.2	790.2	756.2	815.6	868.7	890.0	875.1	945.2	953.7
70°	4872.6	1939.3	875.1	698.8	673.3	726.4	775.3	783.8	785.9	868.7	877.2
72.5°	3107.5	1508.1	737.0	596.9	577.7	618.1	654.2	688.2	703.1	781.7	779.5
75°	1733.2	1121.5	592.6	505.5	471.5	503.4	545.9	586.2	628.7	743.4	756.2
77.5°	998.3	788.0	469.4	405.7	365.3	399.3	435.4	492.8	620.2	720.1	707.3
80°	562.9	511.9	354.7	297.4	271.9	297.4	325.0	433.3	488.5	531.0	537.4
82.5°	263.4	286.7	242.1	182.7	182.7	199.7	225.2	335.6	369.6	301.6	263.4
85°	95.6	129.6	118.9	93.5	82.8	80.7	140.2	191.2	118.9	106.2	91.3
87.5°	25.5	36.1	34.0	23.4	12.7	10.6	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)