Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P861217

Luminaire Tested: **8APVTLD-SL3C3 MID POWER 5000K 120V**

Issue Date: 1/11/2023

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1121 Highway 74 South
Peachtree City, GA 30269

Test Information

Test Method:	LM-79-08
Report Number:	P861217
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (NTCLR22090026)
Test Lab:	INNOVATION CENTER
Issue Date:	1/11/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	FAIL-SAFE
Catalog Number:	8APVTLD-SL3C3 MID POWER 5000K 120V
Description:	MID POWER
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER
Luminaire Equipment:	Sample No. Condition Description

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	10066.3 lumens
Efficiency:	N/A
Efficacy:	129.1 lumens/watt
Spacing Criteria (0/90/45):	1.22 / 1.28 / 1.38
Luminous Opening:	Rectangular w/ Sides (W: 0.33' x L: 8' x H: 0.08')
CIE Type:	Direct

Input Watts (W):	78
Input Voltage (V):	120
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	25 FT

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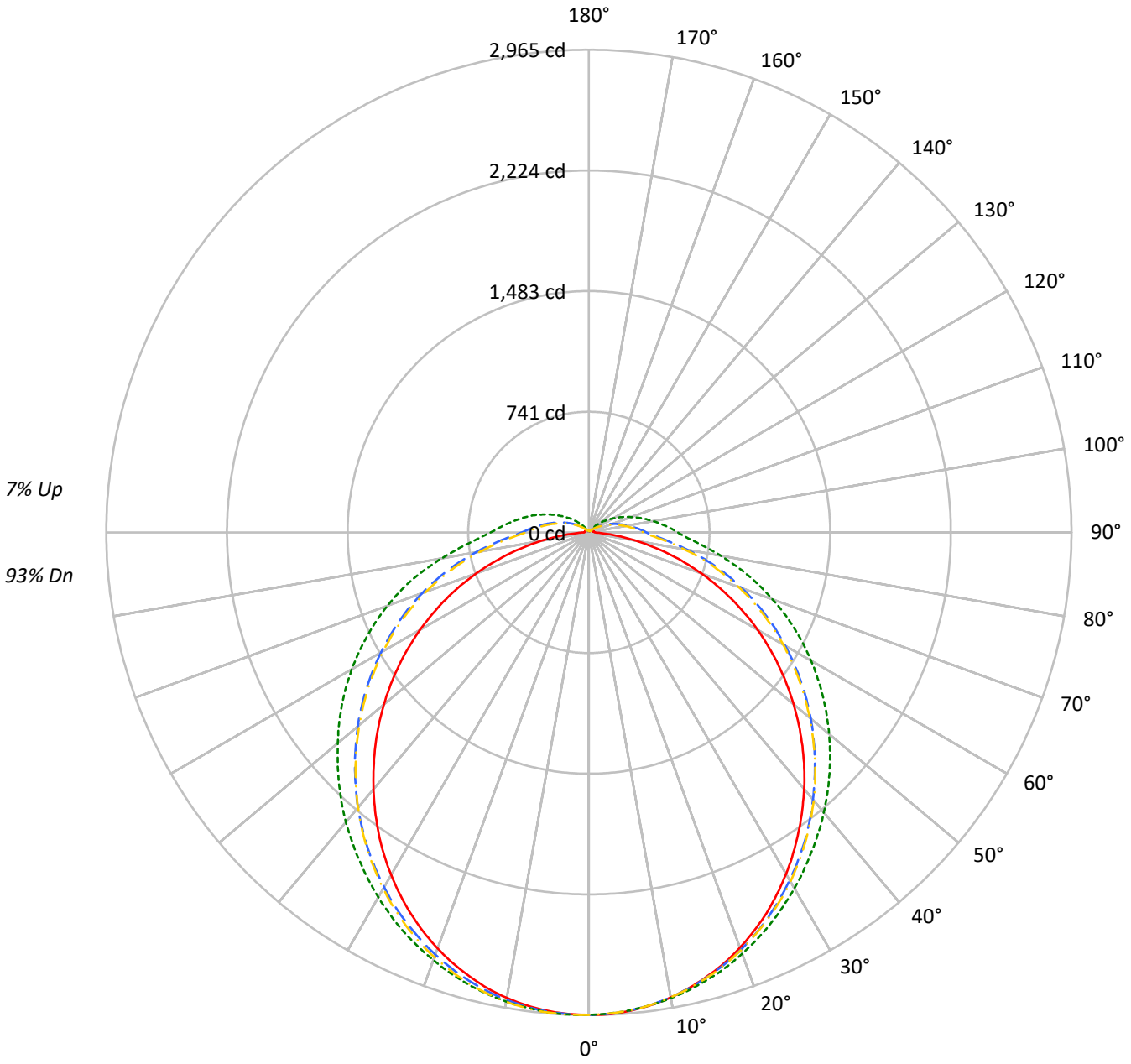
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			20
RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	93
1	105	100	95	91	102	97	92	88	91	88	84	86	83	80	81	79	77	74
2	95	86	79	73	92	84	77	71	79	73	68	74	70	66	70	66	63	60
3	86	75	67	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	65	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	58	49	42	55	47	41	52	45	40	49	43	39	37
6	67	53	44	37	64	52	43	37	49	42	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	45	37	32	43	36	31	41	35	30	28
8	58	44	35	29	56	43	35	29	41	33	28	39	32	28	37	31	27	25
9	54	40	32	26	52	39	31	26	38	30	25	36	29	25	34	29	24	22
10	50	37	29	24	49	36	29	23	35	28	23	33	27	22	32	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11965	11965	11965	11965
5°	11940	11681	11940	11732
10°	11867	11406	11880	11488
15°	11755	11128	11772	11253
20°	11617	10844	11637	11008
25°	11438	10560	11466	10776
30°	11224	10286	11256	10541
35°	10988	10018	11019	10309
40°	10749	9781	10753	10116
45°	10480	9548	10482	9921
50°	10182	9319	10192	9749
55°	9860	9101	9872	9610
60°	9495	8882	9507	9476
65°	9025	8650	9043	9340
70°	8422	8400	8444	9209
75°	7577	8140	7596	9067
80°	6398	7899	6402	8835
85°	4863	7865	4838	8836

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.3	2.8
10°-20°	801.4	8.0
20°-30°	1212.1	12.0
30°-40°	1464.6	14.5
40°-50°	1541.0	15.3
50°-60°	1447.3	14.4
60°-70°	1206.7	12.0
70°-80°	860.9	8.6
80°-90°	504.5	5.0
90°-100°	314.8	3.1
100°-110°	207.0	2.1
110°-120°	122.1	1.2
120°-130°	62.5	0.6
130°-140°	24.3	0.2
140°-150°	8.1	0.1
150°-160°	4.6	0.0
160°-170°	2.9	0.0
170°-180°	1.1	0.0
0°-30°	2293.9	22.8
0°-40°	3758.5	37.3
0°-60°	6746.9	67.0
0°-90°	9318.9	92.6
90°-120°	643.8	6.4
90°-150°	738.7	7.3
90°-180°	747.0	7.4
0°-180°	10066.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2964	2964	2964	2964	2964	
5°	2950	2946	2950	2959	2950	280
15°	2821	2841	2825	2873	2821	796
25°	2581	2648	2587	2702	2581	1188
35°	2246	2389	2252	2458	2246	1405
45°	1855	2091	1855	2172	1855	1431
55°	1422	1755	1424	1853	1422	1271
65°	966	1391	968	1502	966	956
75°	505	1009	506	1124	505	535
85°	118	655	117	736	118	132
90°	38	547	32	604	38	23
95°	32	471	26	520	32	26
105°	27	336	24	382	27	28
115°	22	221	20	259	22	22
125°	17	129	16	156	17	16
135°	13	57	11	74	13	10
145°	11	11	9	18	11	7
155°	9	8	9	12	9	4
165°	10	8	12	10	10	3
175°	12	8	15	9	12	1
180°	12	12	12	12	12	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2964.2	2964.2	2964.2	2964.2	2964.2	2964.2	2964.2	2964.2	2964.2	2964.2	2964.2
1°	2964.4	2964.4	2964.4	2963.0	2962.7	2961.5	2962.7	2962.8	2963.6	2963.8	2964.4
2°	2963.6	2962.7	2961.9	2959.9	2959.4	2958.2	2959.8	2960.7	2962.3	2962.3	2963.2
3°	*2960.5*	*2959.2*	*2958.0*	*2955.9*	*2955.9*	*2954.7*	*2956.7*	*2957.2*	*2959.6*	*2959.8*	*2960.9*
4°	2955.3	2954.4	2953.4	2950.9	2951.5	2949.9	2952.2	2952.6	2955.3	2955.9	2958.2
5°	2949.5	2948.4	2947.0	2945.1	2945.9	2943.7	2946.4	2946.2	2949.5	2950.9	2954.7
6°	2942.0	2940.7	2940.1	2938.3	2939.5	2936.8	2940.7	2939.1	2943.5	2945.1	2949.3
7°	2933.1	2932.0	2931.2	2931.0	2932.4	2929.6	2932.5	2931.0	2935.4	2937.6	2941.6
8°	2923.5	2921.9	2921.7	2922.5	2924.2	2921.7	2921.9	2921.7	2925.8	2929.1	2933.7
9°	2912.9	2910.5	2911.5	2912.3	2915.4	2912.1	2911.1	2910.9	2915.4	2919.4	2925.2
10°	2900.5	2898.4	2899.3	2901.7	2905.5	2900.7	2899.3	2898.8	2903.8	2908.4	2915.8
11°	2886.8	2885.6	2886.8	2889.9	2894.7	2888.3	2886.8	2885.1	2890.9	2896.5	2904.4
12°	2871.8	2871.2	2872.7	2877.3	2882.8	2875.8	2873.5	2870.8	2876.8	2883.1	2892.8
13°	2855.7	2855.9	2858.0	2864.4	2869.2	2862.1	2858.8	2854.8	2861.1	2868.1	2879.5
14°	2839.1	2838.7	2842.0	2850.5	2855.3	2847.2	2843.2	2836.8	2843.8	2852.3	2865.6
15°	2820.8	2821.0	2825.0	2835.3	2841.3	2832.8	2827.6	2817.9	2824.9	2835.1	2850.7
16°	2802.1	2802.3	2807.9	2819.8	2826.2	2817.3	2810.6	2798.6	2805.4	2815.8	2834.3
17°	2782.8	2783.7	2789.5	2802.7	2810.4	2800.0	2791.9	2778.1	2785.9	2797.1	2817.7
18°	2761.2	2763.1	2770.6	2784.3	2792.6	2780.9	2772.0	2756.7	2765.0	2776.6	2798.4
19°	2738.6	2740.5	2750.9	2765.8	2773.5	2761.6	2752.1	2734.1	2742.6	2755.2	2779.5
20°	2714.8	2717.4	2729.5	2746.1	2754.2	2742.4	2731.1	2711.6	2719.3	2733.0	2759.6
21°	2689.8	2692.7	2706.9	2727.0	2734.0	2721.8	2709.3	2688.0	2694.8	2709.3	2739.0
22°	2663.7	2667.4	2684.0	2706.5	2713.9	2700.8	2685.9	2663.9	2669.3	2685.3	2717.2
23°	2636.7	2640.4	2659.5	2683.2	2692.7	2678.8	2662.5	2638.0	2642.7	2659.8	2694.8
24°	2608.9	2613.9	2633.8	2660.4	2670.7	2655.6	2638.2	2611.8	2614.5	2633.8	2671.8
25°	2580.7	2586.7	2608.1	2636.3	2647.5	2632.4	2612.9	2585.5	2586.9	2606.4	2647.7
26°	2551.2	2557.8	2580.7	2613.5	2624.7	2609.1	2587.3	2557.6	2556.6	2579.8	2623.0
27°	2519.7	2528.4	2553.3	2588.4	2600.4	2584.0	2561.0	2528.6	2526.3	2551.4	2598.1
28°	2488.7	2497.9	2524.9	2563.3	2575.9	2558.5	2534.0	2497.9	2494.6	2521.7	2571.5
29°	2455.5	2466.8	2496.6	2536.7	2551.0	2532.7	2506.2	2467.2	2462.8	2491.6	2544.6
30°	2422.5	2435.2	2466.7	2510.3	2525.3	2506.4	2476.3	2435.4	2429.6	2460.7	2516.3
31°	2389.3	2403.2	2436.9	2482.5	2499.5	2479.2	2446.2	2402.4	2397.0	2429.2	2488.3
32°	2353.8	2369.2	2407.0	2454.7	2472.3	2451.6	2415.9	2369.4	2362.2	2397.8	2458.9
33°	2318.8	2335.0	2375.2	2427.1	2444.3	2423.6	2384.1	2334.8	2326.2	2364.6	2428.8
34°	2282.9	2300.9	2344.3	2397.8	2416.7	2394.5	2352.2	2299.5	2290.6	2331.2	2399.5
35°	2246.1	2264.6	2313.0	2368.0	2388.9	2364.9	2320.0	2264.6	2252.4	2297.2	2368.4
36°	2209.4	2228.9	2280.0	2338.1	2361.5	2334.8	2286.8	2228.1	2214.8	2262.7	2336.6
37°	2172.0	2193.4	2246.6	2309.4	2332.9	2305.3	2252.4	2190.1	2176.4	2227.0	2304.7
38°	2133.5	2156.3	2212.3	2277.9	2305.1	2274.8	2219.0	2152.3	2137.6	2191.3	2272.3
39°	2095.3	2118.3	2178.1	2248.2	2275.8	2244.1	2183.7	2114.1	2098.4	2154.6	2239.3
40°	2057.7	2080.9	2141.5	2217.1	2245.7	2213.4	2148.6	2075.7	2058.5	2117.1	2206.5
41°	2018.7	2043.2	2107.1	2186.4	2215.4	2182.6	2112.9	2036.7	2018.5	2079.3	2172.3
42°	1978.2	2004.8	2070.6	2154.2	2185.1	2150.3	2076.2	1998.1	1978.2	2041.5	2137.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1855.0	1885.9	1963.3	2056.5	2090.7	2051.5	1963.3	1876.6	1855.4	1925.5	2032.6
46°	1813.4	1845.9	1927.0	2023.9	2058.7	2019.7	1925.1	1835.6	1814.0	1885.3	1997.7
47°	1771.0	1805.1	1890.3	1990.5	2026.1	1984.8	1886.9	1794.8	1771.6	1845.7	1962.0
48°	1728.1	1763.8	1853.7	1956.4	1993.4	1951.4	1849.1	1753.5	1729.5	1805.4	1926.0
49°	1684.9	1721.7	1817.2	1922.0	1960.0	1916.4	1809.6	1711.2	1686.1	1764.8	1889.7
50°	1641.6	1680.4	1779.7	1887.0	1926.1	1881.1	1771.3	1669.1	1643.1	1723.2	1853.2
51°	1597.8	1638.0	1741.4	1852.8	1893.5	1846.6	1732.3	1626.5	1600.5	1682.6	1817.3
52°	1554.0	1595.6	1703.5	1818.1	1858.2	1811.8	1693.8	1584.2	1556.3	1639.9	1779.3
53°	1510.8	1553.1	1665.9	1784.2	1824.8	1775.9	1654.5	1541.4	1512.4	1599.5	1741.9
54°	1465.6	1510.4	1627.4	1748.5	1790.1	1739.3	1615.8	1498.3	1468.1	1557.0	1704.5
55°	1421.9	1467.5	1588.7	1711.3	1755.0	1703.2	1576.6	1455.1	1423.6	1514.5	1667.4
56°	1377.3	1425.1	1550.3	1675.4	1719.7	1666.1	1536.2	1411.9	1379.4	1471.9	1628.8
57°	1333.0	1382.0	1510.3	1638.5	1684.4	1629.5	1497.3	1367.8	1334.4	1429.4	1590.7
58°	1287.7	1338.5	1471.5	1601.3	1648.5	1592.8	1456.9	1324.0	1289.4	1387.4	1552.2
59°	1242.3	1294.9	1432.2	1563.3	1613.3	1554.7	1418.1	1280.3	1244.1	1345.0	1513.8
60°	1197.4	1252.1	1393.6	1525.6	1576.6	1517.2	1377.8	1236.6	1198.9	1303.0	1476.0
61°	1151.2	1209.8	1354.3	1487.9	1540.5	1479.9	1337.9	1192.3	1152.7	1259.4	1437.9
62°	1105.7	1167.2	1315.1	1450.2	1503.0	1441.2	1297.7	1148.4	1106.8	1217.2	1398.3
63°	1058.6	1124.0	1276.0	1413.0	1466.3	1403.2	1258.3	1104.6	1060.1	1175.5	1360.4
64°	1013.1	1080.4	1236.7	1375.8	1429.2	1364.7	1218.9	1061.2	1014.5	1132.2	1321.9
65°	966.0	1037.6	1197.5	1338.3	1391.2	1326.5	1178.7	1018.1	968.0	1089.3	1283.7
66°	919.2	993.9	1158.3	1301.1	1354.2	1287.6	1138.1	974.1	920.9	1046.7	1244.7
67°	872.6	950.8	1117.6	1263.3	1315.9	1248.9	1097.9	931.9	875.2	1005.2	1206.3
68°	826.4	908.3	1077.7	1224.4	1277.7	1211.0	1057.8	888.6	828.8	962.1	1167.3
69°	779.9	865.9	1038.3	1185.4	1239.0	1171.6	1017.4	845.5	781.6	919.3	1128.0
70°	734.0	823.9	998.8	1147.0	1200.7	1133.2	977.1	803.2	736.0	876.8	1089.1
71°	687.0	781.1	959.3	1107.0	1162.1	1094.3	937.2	760.7	689.0	835.4	1050.4
72°	642.2	739.8	921.4	1066.4	1124.0	1056.3	897.8	719.0	643.1	794.1	1011.8
73°	596.4	698.8	882.6	1027.0	1084.9	1017.8	857.8	677.2	596.9	752.4	972.6
74°	550.1	658.2	844.3	986.9	1047.5	980.0	819.8	635.9	551.1	711.7	933.8
75°	504.7	618.4	805.2	948.3	1008.9	941.3	780.8	595.0	506.0	671.1	894.8
76°	460.3	578.7	766.9	910.5	971.1	903.4	743.3	554.6	461.0	630.9	855.5
77°	416.9	539.5	728.5	872.3	933.1	866.2	706.0	516.0	417.4	592.4	817.8
78°	373.9	502.1	690.1	836.1	895.1	828.4	668.1	478.2	374.5	554.7	779.3
79°	332.1	462.8	652.0	798.3	857.1	791.8	632.1	441.4	332.3	516.2	742.2
80°	291.5	427.0	615.3	762.8	821.6	755.9	596.3	404.9	291.7	479.5	706.4
81°	253.0	392.7	580.2	727.5	784.7	720.3	560.7	369.4	254.3	443.1	669.7
82°	215.2	359.2	545.7	691.3	751.4	686.8	527.4	335.3	216.1	407.3	633.9
83°	178.5	327.4	513.0	658.3	717.1	653.0	494.5	302.5	180.4	373.7	600.2
84°	146.6	296.8	482.4	626.2	685.7	622.9	464.0	272.3	147.4	340.5	568.0
85°	117.5	268.2	455.6	596.8	655.1	592.9	435.5	243.9	116.9	309.7	536.7
86°	91.8	243.0	429.6	569.0	627.7	565.3	408.7	218.3	90.3	281.0	506.0
87°	70.7	220.9	405.9	544.9	601.5	539.4	385.3	196.3	68.8	255.6	477.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	37.6	174.1	354.4	488.7	546.8	486.4	335.3	149.6	31.8	199.3	413.4
91°	35.9	164.5	341.8	473.7	530.4	470.5	321.7	140.6	29.5	187.4	397.4
92°	34.7	155.9	330.1	459.6	515.2	457.0	310.3	132.2	28.4	177.1	383.0
93°	33.8	147.2	318.0	446.5	500.7	442.7	299.4	124.2	27.6	166.9	369.2
94°	32.8	139.3	306.5	432.7	484.7	428.6	288.1	116.7	26.9	157.6	355.8
95°	32.2	131.1	295.2	420.1	470.9	415.4	276.9	109.2	26.5	148.2	341.9
96°	31.5	123.4	283.8	407.1	456.0	401.1	266.0	102.3	25.4	139.7	328.9
97°	30.7	116.2	272.7	393.9	442.7	388.4	256.4	95.6	25.0	131.1	316.1
98°	29.9	109.8	261.8	381.6	427.7	375.6	246.2	89.7	24.8	123.0	304.0
99°	29.4	103.2	252.0	369.4	414.1	363.3	236.1	83.6	24.6	115.5	291.7
100°	29.0	97.1	241.6	356.8	400.3	350.8	225.4	78.0	24.4	108.3	280.1
101°	29.0	91.5	231.3	344.7	387.3	338.2	215.7	73.0	24.2	101.4	268.9
102°	28.4	85.9	221.8	332.4	373.3	325.3	206.5	68.0	24.0	95.1	257.9
103°	28.0	80.5	212.0	320.0	361.5	313.6	198.0	63.2	23.8	88.7	247.6
104°	27.3	75.7	202.6	308.4	347.5	301.3	189.2	58.9	23.6	83.0	236.5
105°	26.9	70.9	194.2	296.8	335.8	290.8	180.3	54.7	23.5	77.8	226.0
106°	26.3	66.2	185.2	285.1	322.8	279.6	171.4	50.7	23.1	72.2	216.0
107°	25.9	62.4	176.7	273.6	310.8	269.2	163.0	46.6	22.3	67.2	206.0
108°	25.2	58.1	168.2	262.4	298.8	258.8	154.3	42.8	22.1	62.2	196.1
109°	24.8	53.9	160.4	252.3	287.4	248.8	146.6	39.7	22.1	58.0	186.8
110°	24.2	49.9	152.6	241.8	275.5	237.7	138.5	35.9	21.7	53.8	177.7
111°	23.8	46.4	145.2	231.1	264.4	227.6	131.5	32.8	21.4	49.1	169.0
112°	23.5	42.6	137.4	221.3	253.7	216.8	124.4	29.6	21.1	45.2	160.3
113°	23.3	39.2	130.0	211.4	242.9	206.6	117.1	26.9	20.8	41.5	152.1
114°	22.9	36.1	123.2	201.4	232.6	196.5	110.2	24.3	20.6	37.2	143.9
115°	22.5	32.9	116.1	192.3	221.4	186.6	103.6	22.2	20.3	33.9	135.9
116°	21.8	30.1	109.3	182.6	212.1	176.7	97.1	20.9	20.0	30.4	128.2
117°	21.4	27.7	103.0	173.9	201.3	168.1	91.5	20.1	20.0	27.4	120.8
118°	21.2	25.6	96.8	164.9	192.0	160.0	84.7	18.8	19.1	24.6	113.0
119°	20.6	23.9	90.1	156.2	182.4	151.5	79.1	18.4	18.5	22.1	106.3
120°	20.2	23.3	84.1	148.1	173.1	143.4	73.0	18.0	18.7	19.6	99.4
121°	19.6	22.7	78.2	140.0	163.6	134.7	67.1	17.6	17.7	18.5	92.4
122°	19.3	22.1	72.6	131.9	155.8	126.9	61.9	17.2	17.7	18.3	86.1
123°	18.5	21.8	67.2	124.1	146.3	119.1	57.0	16.8	17.3	18.3	79.3
124°	17.7	21.4	62.4	116.5	138.2	111.4	51.6	16.3	16.6	18.5	73.2
125°	17.4	21.0	56.8	109.1	128.8	104.1	46.7	16.1	16.2	18.1	67.4
126°	16.6	20.4	51.7	101.9	121.4	96.4	42.0	15.8	15.6	16.8	61.6
127°	16.4	20.0	46.8	94.5	113.2	89.3	37.6	15.6	15.4	15.6	56.5
128°	16.0	19.5	42.2	87.6	105.7	82.5	33.0	15.2	14.9	15.5	50.9
129°	15.6	18.9	37.7	80.9	97.7	75.3	29.1	14.6	14.5	15.3	45.6
130°	15.3	18.3	33.2	74.1	90.9	69.3	25.1	14.6	14.3	14.9	40.4
131°	14.7	18.1	29.3	67.6	82.7	62.4	21.3	14.8	13.2	14.7	35.5
132°	14.3	17.8	25.5	61.9	76.6	57.1	18.2	14.0	12.6	14.5	30.8

Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P861217
CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 5000K 120V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	13.3	16.4	16.9	45.1	56.9	40.4	13.0	12.2	11.4	13.2	18.3
136°	13.2	15.8	16.5	39.6	50.5	35.2	12.3	11.8	11.1	12.6	14.9
137°	12.6	15.7	15.9	34.7	44.8	30.2	11.9	11.6	10.3	12.0	13.2
138°	12.4	15.1	15.5	30.0	38.9	25.9	11.5	11.6	10.1	11.6	12.6
139°	12.0	14.3	15.0	25.6	33.4	21.4	11.3	11.2	9.7	11.6	11.9
140°	12.0	14.1	14.6	21.3	28.3	17.5	10.9	11.2	9.7	11.8	11.7
141°	11.4	13.7	14.2	17.6	23.7	14.3	10.6	10.4	9.7	11.4	11.9
142°	11.3	13.6	13.8	15.1	18.6	11.9	10.0	9.7	9.6	10.7	10.9
143°	11.2	13.0	13.6	14.5	14.8	11.6	9.6	9.7	9.5	10.5	10.2
144°	10.7	12.8	13.2	14.1	11.6	11.6	9.0	9.3	9.4	10.2	9.8
145°	10.7	12.2	12.7	13.9	11.2	10.8	9.1	8.9	9.4	10.0	9.0
146°	10.5	12.0	12.5	13.3	10.4	10.4	9.1	8.9	9.3	9.8	8.6
147°	10.5	11.5	12.3	13.3	10.0	10.0	9.1	8.8	9.2	9.8	8.8
148°	10.1	11.3	11.9	13.1	9.8	9.8	9.2	8.7	9.2	9.8	8.4
149°	9.7	11.1	11.7	12.5	9.6	9.4	9.2	8.6	9.1	9.7	8.6
150°	9.7	10.7	11.1	12.5	9.4	9.4	8.6	8.5	9.0	9.7	8.6
151°	9.5	10.3	11.0	12.0	9.3	8.9	8.8	8.5	9.0	9.7	8.6
152°	9.3	10.3	10.9	11.7	9.1	9.1	8.8	8.5	8.9	9.7	8.6
153°	9.2	10.1	10.8	11.6	8.9	8.9	8.8	8.5	8.9	9.7	8.6
154°	9.0	9.9	10.7	11.2	8.7	8.9	8.8	8.5	8.9	9.6	8.5
155°	8.8	9.9	10.7	11.4	8.5	8.5	8.8	8.5	8.9	9.6	8.5
156°	8.8	9.9	10.7	10.8	8.3	8.3	8.8	8.5	8.9	9.6	8.5
157°	8.8	9.9	10.7	10.8	8.2	8.3	8.8	8.5	8.9	9.6	8.5
158°	8.8	9.9	10.7	10.7	8.0	8.3	8.8	8.5	9.0	9.6	8.8
159°	8.8	9.9	10.7	10.6	8.0	8.3	8.8	8.5	9.0	9.6	9.1
160°	8.8	9.9	10.7	10.5	8.1	8.3	8.8	8.5	9.0	9.5	9.4
161°	9.0	9.9	10.7	10.4	8.1	8.3	8.8	8.7	9.5	9.9	9.7
162°	9.1	9.9	10.7	10.3	8.1	8.3	8.8	9.7	10.7	10.5	10.0
163°	9.7	9.9	10.7	10.2	8.1	8.3	9.0	10.1	11.2	10.7	10.7
164°	10.1	9.9	10.7	10.0	8.1	8.3	9.0	10.4	11.6	11.3	11.1
165°	10.3	9.9	10.7	10.0	8.1	8.3	9.2	10.6	12.2	11.5	11.5
166°	11.3	10.1	10.7	9.9	8.1	8.3	9.3	10.8	12.4	12.0	11.5
167°	11.4	10.5	10.7	9.8	8.1	8.3	9.3	10.9	13.0	12.0	12.1
168°	11.6	11.3	10.7	9.7	8.1	8.3	9.4	11.1	13.5	12.0	12.7
169°	11.7	11.8	10.7	9.6	8.1	8.3	9.4	11.2	14.1	12.0	12.9
170°	11.8	11.6	10.7	9.5	8.1	8.3	9.5	11.4	14.7	12.0	12.9
171°	11.8	12.2	10.7	9.4	8.1	8.3	9.5	11.5	15.1	12.0	12.9
172°	11.9	12.2	10.7	9.4	8.1	8.3	9.6	11.5	15.4	12.0	12.9
173°	11.9	12.4	10.7	9.4	8.5	8.5	9.8	11.6	15.4	12.0	13.0
174°	11.9	12.5	10.7	9.3	8.3	8.7	10.2	11.6	15.3	12.0	13.0
175°	11.9	12.7	10.7	9.3	8.5	9.1	10.0	11.7	15.2	12.0	13.0
176°	12.0	12.8	10.9	9.3	9.1	9.1	10.0	11.7	15.1	12.0	13.0
177°	12.0	13.0	10.9	9.2	9.3	9.2	10.0	11.8	15.1	12.0	13.0

Cooper Lighting Solutions Photometric Lab
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TEST NUMBER: P861217
CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 5000K 120V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0

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TEST NUMBER: P861217
CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 5000K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2964.2	2964.2	*2964.2*	2964.2	2964.2	2964.2
1°	2964.0	2965.2	*2965.5*	2964.8	2964.0	2964.4
2°	2963.6	2965.0	*2965.9*	2965.0	2964.2	2963.6
3°	*2962.5*	*2965.2*	*2966.1*	*2965.0*	*2961.5*	*2960.5*
4°	2959.8	2962.7	*2963.6*	2962.5	2957.4	2955.3
5°	2956.3	2958.8	*2959.8*	2959.9	2952.0	2949.5
6°	2951.7	2953.6	*2954.9*	2955.9	2945.1	2942.0
7°	2946.4	2947.8	*2949.1*	2950.7	2937.2	2933.1
8°	2939.9	2941.4	*2942.4*	2943.9	2927.7	2923.5
9°	2932.2	2934.5	*2935.2*	2936.4	2917.3	2912.9
10°	2924.1	2926.4	*2927.1*	2927.3	2905.1	2900.5
11°	2915.2	2917.9	*2918.5*	2917.9	2892.0	2886.8
12°	2904.6	2908.2	*2908.2*	2906.9	2877.9	2871.8
13°	2893.8	2897.2	*2897.2*	2894.3	2862.7	2855.7
14°	2881.4	2885.5	*2885.6*	2880.2	2846.1	2839.1
15°	2868.5	2873.1	*2873.7*	2865.4	2829.1	2820.8
16°	2854.6	2859.2	*2860.2*	2849.0	2810.6	2802.1
17°	2839.7	2844.7	*2845.9*	2832.6	2791.9	2782.8
18°	2824.1	2829.3	*2829.5*	2814.4	2772.9	2761.2
19°	2807.9	2813.5	*2812.9*	2795.7	2751.3	2738.6
20°	2789.0	2795.9	*2794.7*	2776.6	2728.7	2714.8
21°	2769.9	2778.5	*2776.0*	2756.3	2705.0	2689.8
22°	2750.4	2760.4	*2756.9*	2735.1	2681.1	2663.7
23°	2730.7	2741.1	*2736.5*	2711.4	2655.2	2636.7
24°	2709.6	2722.2	*2715.4*	2688.0	2628.6	2608.9
25°	2687.1	2701.7	*2693.0*	2663.5	2601.6	2580.7
26°	2664.5	2680.3	*2670.3*	2636.9	2574.0	2551.2
27°	2641.1	2658.3	*2645.8*	2610.2	2544.8	2519.7
28°	2617.8	2634.8	*2623.2*	2583.6	2514.7	2488.7
29°	2593.5	2612.0	*2598.7*	2555.4	2484.4	2455.5
30°	2568.6	2587.9	*2574.3*	2526.9	2452.8	2422.5
31°	2543.3	2563.0	*2548.5*	2497.5	2420.0	2389.3
32°	2517.8	2537.5	*2523.4*	2467.2	2387.5	2353.8
33°	2491.0	2512.0	*2496.8*	2436.4	2353.8	2318.8
34°	2463.8	2485.8	*2469.4*	2405.9	2319.4	2282.9
35°	2436.0	2458.4	*2441.6*	2374.0	2284.5	2246.1
36°	2409.1	2433.3	*2412.4*	2341.8	2249.2	2209.4
37°	2380.0	2405.5	*2383.7*	2309.0	2213.3	2172.0
38°	2350.5	2378.5	*2353.0*	2274.8	2177.0	2133.5
39°	2322.1	2350.9	*2325.4*	2240.7	2139.7	2095.3
40°	2292.6	2322.5	*2294.7*	2206.7	2102.3	2057.7
41°	2263.0	2293.7	*2264.4*	2172.0	2064.3	2018.7
42°	2232.6	2263.8	*2233.5*	2135.7	2026.6	1978.2

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P861217
CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 5000K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	2139.5	2172.5	*2137.4*	2027.8	1909.8	1855.0
46°	2107.7	2140.9	*2105.4*	1990.2	1869.6	1813.4
47°	2075.3	2109.4	*2071.8*	1953.5	1828.7	1771.0
48°	2043.8	2077.2	*2038.4*	1916.4	1789.0	1728.1
49°	2011.4	2045.5	*2006.0*	1879.1	1747.8	1684.9
50°	1978.2	2015.1	*1970.9*	1841.5	1707.1	1641.6
51°	1944.0	1982.0	*1937.3*	1803.9	1665.0	1597.8
52°	1910.7	1951.0	*1901.5*	1766.0	1623.2	1554.0
53°	1876.2	1918.8	*1867.8*	1727.7	1581.7	1510.8
54°	1842.0	1885.6	*1832.7*	1689.4	1539.0	1465.6
55°	1807.7	1853.1	*1796.1*	1651.4	1497.8	1421.9
56°	1772.8	1819.9	*1761.8*	1612.9	1454.8	1377.3
57°	1737.3	1786.4	*1725.0*	1574.3	1412.8	1333.0
58°	1702.1	1750.9	*1688.3*	1536.1	1369.9	1287.7
59°	1665.4	1716.3	*1651.5*	1497.6	1326.9	1242.3
60°	1629.9	1682.0	*1615.0*	1458.2	1283.0	1197.4
61°	1593.3	1645.9	*1578.3*	1419.2	1240.1	1151.2
62°	1555.7	1610.9	*1541.1*	1381.0	1197.1	1105.7
63°	1519.4	1574.5	*1503.9*	1341.4	1153.5	1058.6
64°	1482.1	1538.5	*1466.6*	1301.7	1110.4	1013.1
65°	1444.9	1502.1	*1429.4*	1262.6	1067.5	966.0
66°	1407.8	1465.2	*1392.2*	1223.4	1024.9	919.2
67°	1369.8	1428.9	*1354.1*	1183.5	981.5	872.6
68°	1331.6	1391.2	*1316.0*	1143.5	938.0	826.4
69°	1293.2	1354.1	*1277.8*	1103.9	895.4	779.9
70°	1254.6	1316.2	*1240.5*	1064.0	853.1	734.0
71°	1216.0	1278.3	*1202.6*	1024.2	810.3	687.0
72°	1178.0	1241.6	*1164.3*	984.9	768.7	642.2
73°	1139.7	1203.1	*1125.7*	944.9	726.6	596.4
74°	1101.7	1164.8	*1087.2*	905.9	684.7	550.1
75°	1063.7	1123.8	*1049.5*	866.1	643.8	504.7
76°	1026.7	1081.7	*1011.6*	827.6	603.2	460.3
77°	989.4	1041.2	*973.7*	788.4	562.8	416.9
78°	951.2	998.9	*935.8*	750.2	523.9	373.9
79°	914.1	958.3	*897.6*	712.6	485.4	332.1
80°	876.1	919.0	*860.2*	676.4	447.6	291.5
81°	840.2	879.2	*823.2*	641.2	410.5	253.0
82°	804.6	841.0	*785.9*	606.7	375.7	215.2
83°	769.3	804.5	*751.1*	573.0	341.7	178.5
84°	736.2	769.5	*715.8*	540.6	309.9	146.6
85°	703.4	736.0	*683.0*	509.7	280.8	117.5
86°	672.7	705.3	*652.2*	480.6	254.2	91.8
87°	643.2	674.9	*623.1*	454.1	229.0	70.7

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Scaled Data Report

TEST NUMBER: P861217
CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 5000K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	573.2	603.6	*552.7*	389.0	173.1	37.6
91°	554.3	584.2	*533.3*	373.0	162.6	35.9
92°	538.1	566.7	*516.5*	358.9	153.5	34.7
93°	521.9	550.7	*501.2*	345.8	144.6	33.8
94°	506.5	535.4	*485.1*	332.0	135.8	32.8
95°	490.8	519.5	*469.5*	318.8	127.7	32.2
96°	474.4	504.6	*455.1*	307.4	119.8	31.5
97°	459.1	490.2	*440.6*	296.3	112.1	30.7
98°	444.0	475.1	*427.0*	284.9	105.3	29.9
99°	428.7	461.0	*413.5*	273.4	98.5	29.4
100°	414.2	447.6	*399.0*	261.4	92.1	29.0
101°	400.0	433.7	*384.7*	251.1	86.4	29.0
102°	385.4	420.6	*371.1*	240.9	80.9	28.4
103°	372.1	407.6	*357.5*	230.5	75.6	28.0
104°	357.6	394.8	*344.7*	219.9	71.0	27.3
105°	344.5	382.1	*333.2*	209.7	65.9	26.9
106°	330.9	370.2	*322.0*	200.1	61.8	26.3
107°	317.9	357.3	*310.4*	190.5	57.6	25.9
108°	305.3	344.2	*298.1*	181.7	53.6	25.2
109°	293.1	331.1	*285.6*	172.7	49.7	24.8
110°	281.0	318.1	*274.2*	163.9	45.8	24.2
111°	269.7	305.5	*262.3*	155.6	42.4	23.8
112°	258.4	293.2	*251.3*	147.8	39.1	23.5
113°	247.3	281.3	*240.5*	139.6	36.1	23.3
114°	236.5	269.3	*229.8*	132.1	33.1	22.9
115°	225.6	258.7	*219.5*	124.9	30.4	22.5
116°	215.0	247.2	*209.1*	117.6	27.9	21.8
117°	205.2	236.0	*199.1*	110.6	26.0	21.4
118°	194.9	224.9	*189.2*	103.9	25.1	21.2
119°	185.1	214.8	*180.3*	97.3	24.5	20.6
120°	175.4	204.2	*170.5*	91.1	23.9	20.2
121°	166.0	194.0	*161.5*	84.9	23.4	19.6
122°	157.6	184.3	*152.7*	78.9	23.0	19.3
123°	147.9	174.5	*143.9*	73.0	22.6	18.5
124°	139.6	164.8	*135.4*	67.3	22.6	17.7
125°	131.1	156.0	*127.2*	62.0	22.0	17.4
126°	122.7	147.0	*119.2*	56.6	21.5	16.6
127°	114.9	138.0	*111.1*	51.4	20.9	16.4
128°	106.7	129.4	*103.4*	46.5	20.5	16.0
129°	98.9	121.0	*95.8*	41.7	19.8	15.6
130°	91.3	112.6	*88.1*	37.2	19.6	15.3
131°	84.0	104.4	*81.3*	32.9	18.8	14.7
132°	76.9	96.6	*74.2*	28.8	18.4	14.3

TEST NUMBER: P861217
CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 5000K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	57.2	74.3	*55.4*	18.8	16.9	13.3
136°	50.8	67.2	*49.4*	18.3	16.7	13.2
137°	44.9	60.8	*44.0*	17.5	16.1	12.6
138°	39.1	54.8	*38.5*	17.1	15.8	12.4
139°	33.3	48.3	*33.3*	16.5	15.2	12.0
140°	28.0	42.3	*28.4*	16.1	14.6	12.0
141°	23.5	36.7	*23.9*	15.9	14.2	11.4
142°	18.2	31.4	*19.8*	15.4	13.9	11.3
143°	14.4	26.2	*16.6*	14.8	13.5	11.2
144°	11.9	21.5	*15.8*	14.4	12.9	10.7
145°	11.9	17.6	*15.4*	13.8	12.5	10.7
146°	11.8	15.5	*15.2*	13.4	12.2	10.5
147°	11.9	15.0	*14.7*	13.2	12.0	10.5
148°	11.0	14.8	*14.5*	12.7	11.8	10.1
149°	10.6	14.5	*14.3*	12.3	11.6	9.7
150°	10.0	13.9	*13.9*	11.9	11.2	9.7
151°	9.8	13.7	*13.5*	11.7	11.0	9.5
152°	9.0	13.5	*13.3*	11.7	10.8	9.3
153°	8.9	12.7	*12.7*	11.3	10.5	9.2
154°	8.9	12.5	*12.5*	11.3	10.6	9.0
155°	8.3	12.3	*12.3*	11.3	10.6	8.8
156°	8.3	12.1	*12.1*	11.3	10.6	8.8
157°	8.4	12.0	*11.9*	11.3	10.6	8.8
158°	8.4	11.8	*11.8*	11.3	10.6	8.8
159°	8.5	11.8	*11.6*	11.3	10.6	8.8
160°	8.6	11.4	*11.6*	11.3	10.6	8.8
161°	8.6	11.2	*11.6*	11.3	10.6	9.0
162°	8.7	11.0	*11.2*	11.3	10.6	9.1
163°	9.2	11.0	*10.8*	11.3	10.8	9.7
164°	9.4	10.6	*11.0*	11.3	11.2	10.1
165°	9.6	10.4	*11.0*	11.4	11.4	10.3
166°	9.8	10.6	*10.9*	11.4	11.4	11.3
167°	10.0	10.2	*10.9*	11.4	11.8	11.4
168°	10.4	10.2	*10.9*	11.5	12.0	11.6
169°	10.6	10.0	*10.9*	11.5	12.2	11.7
170°	10.4	10.0	*10.8*	11.5	12.5	11.8
171°	10.4	9.8	*10.8*	11.6	12.7	11.8
172°	10.6	9.8	*10.8*	11.6	13.1	11.9
173°	11.0	9.5	*10.2*	11.6	13.7	11.9
174°	11.4	9.3	*10.2*	11.7	13.9	11.9
175°	11.7	9.3	*10.0*	11.7	14.2	11.9
176°	11.6	9.3	*10.0*	11.7	14.8	12.0
177°	11.6	9.3	*10.0*	11.7	14.8	12.0

TEST NUMBER: P861217
CATALOG NUMBER: 8APVTLD-SL3C3 MID POWER 5000K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	12.0	12.0	*12.0*	12.0	12.0	12.0

Report Generated By 670246072 / DESKTOP-50001EG


0°-180°
45°-225°
90°-270°
135°-315°

43°	1938.0	1966.2	2035.1	2122.0	2153.4	2117.5	2039.0	1957.7	1937.1	2003.1	2103.1
44°	1896.6	1926.1	1999.0	2089.7	2122.5	2084.7	2001.5	1917.4	1896.8	1964.5	2067.7

88°	53.0	201.5	385.9	523.6	581.0	519.7	365.9	177.5	51.5	234.2	452.5
89°	42.5	185.1	367.7	504.0	562.0	500.9	348.7	161.3	38.8	215.5	431.4

133°	13.7	17.0	22.0	55.9	69.4	51.3	15.0	13.1	12.2	13.7	26.6
134°	13.5	16.6	18.7	50.4	62.9	45.4	13.4	12.5	11.6	13.5	22.4

178°	12.0	13.0	11.3	9.2	9.3	9.2	10.0	12.0	14.9	12.0	13.0
179°	12.0	13.0	11.7	9.2	9.3	9.2	10.0	11.6	14.9	12.0	13.0

43°	2202.1	2234.5	*2202.3*	2100.4	1989.0	1938.0
44°	2170.8	2203.2	*2170.4*	2063.9	1949.6	1896.6

88°	617.5	649.0	*597.1*	429.9	207.5	53.0
89°	592.6	625.3	*573.1*	408.3	188.5	42.5

133°	70.1	89.0	*67.6*	25.2	17.9	13.7
134°	63.5	81.5	*61.5*	21.6	17.5	13.5

178°	11.6	9.3	*10.0*	11.7	14.8	12.0
179°	11.6	9.3	*10.0*	11.7	14.8	12.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

METALUX

Report Number: SP1-2210-820-18

Test Date: 11/11/2022

Luminaire Tested: 4APVTLD-SL3C3
Data in this report applies to families of products including 4APVTLD-SL3C3.

Report Generated By FNC07603 / LDUCLS01DT446
Version: v6.10

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Test Information

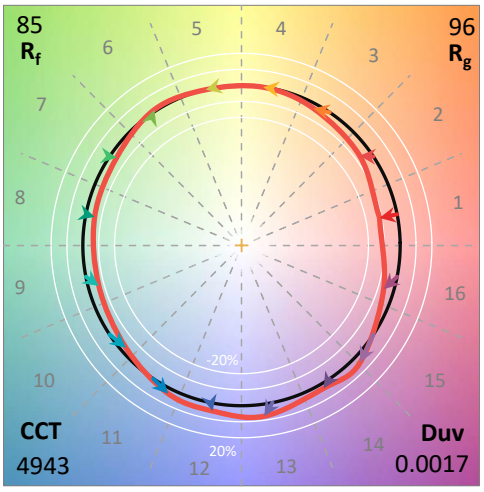
Test Method:	LM-79-2019
Report Number:	SP1-2210-820-18
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	11/11/2022
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	**4APVTLD-SL3C3**
Description:	METALUX

0.1699(@277V) [AT MAX POWER AND 5000K]

Spectral Parameters

CCT (K):	4943	CRI (Ra):	85.1		
CIE u':	0.2108	R1:	83.6	R9:	16.8
CIE v':	0.4873	R2:	91.2	R10:	78.4
Duv:	0.0017	R3:	95.3	R11:	82.6
CIE x:	0.3470	R4:	83.2	R12:	60.5
CIE y:	0.3564	R5:	83.4	R13:	86.0
CIE z:	0.2966	R6:	86.5	R14:	97.8
Peak Wavelength (nm):	452	R7:	88.0		
Dominant Wavelength (nm):	571	R8:	69.5		
Purity:	11.1				

Rf:	85.4
Rg:	95.7



Test Conditions

Stabilization Time:	70M
Operation Time:	12H
Room Temperature (°C) / RH%:	24.0/52%
Sphere Temperature (°C):	24.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

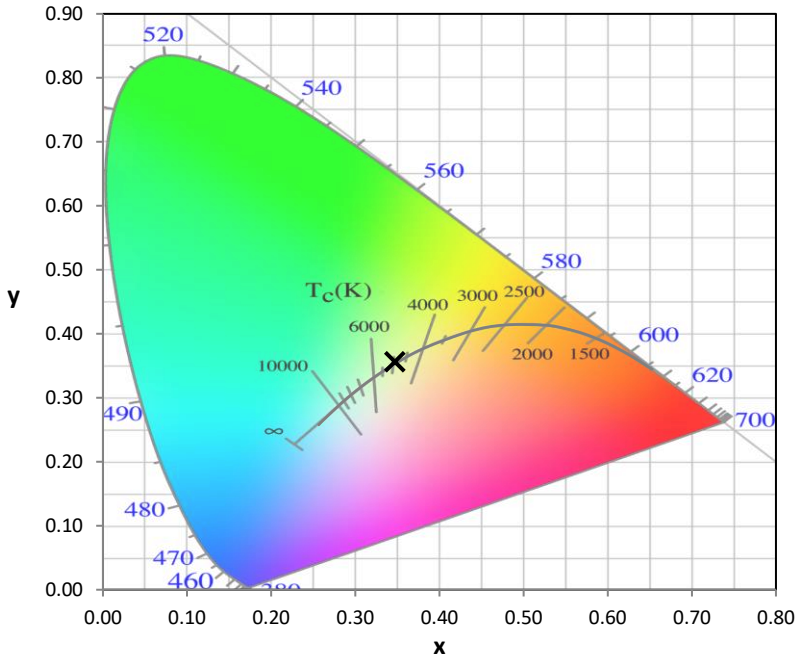
REPORT NUMBER: SP1-2210-820-18

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	76INCH SPHERE IN0058	8/8/2022	2/8/2023
Power Meter	XITRON 2801 IN0071	11/29/2021	11/29/2022
AC Power Source	CHROMA 61603 IN0063	11/29/2021	11/29/2022
DC Power Source	AGILENT E3634A IN0208	11/29/2021	11/29/2022
Sphere Thermometer	ONSET IN0085	11/29/2021	11/29/2022
Room Thermometer	ONSET IN0046	11/29/2021	11/29/2022

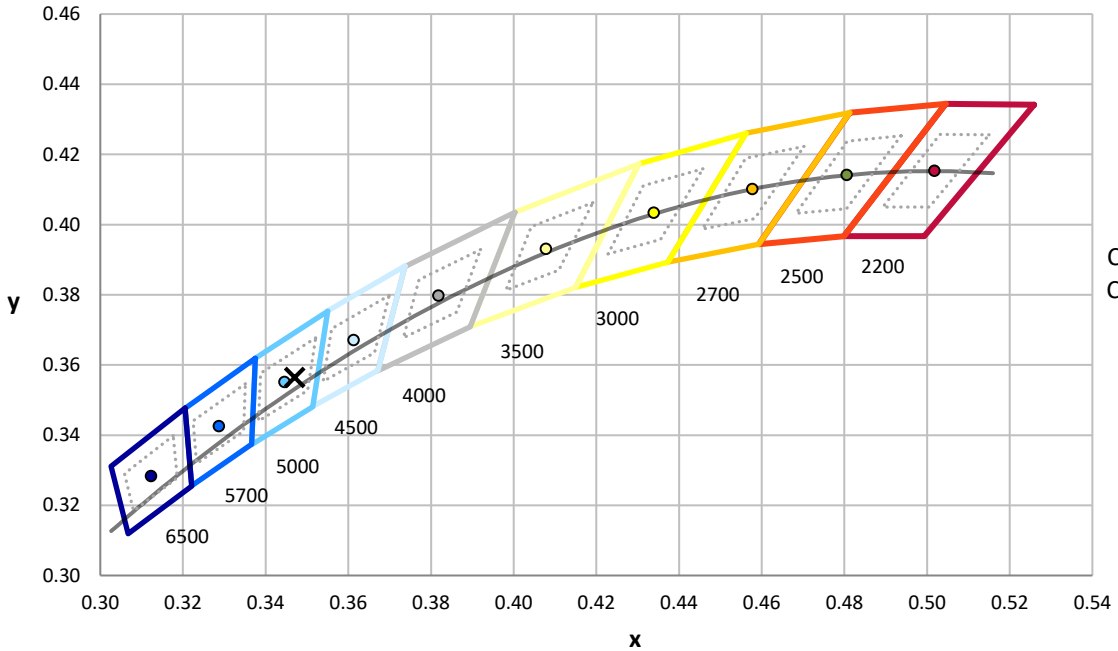
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2210-820-18

CIE 1931 Chromaticity Diagram



CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



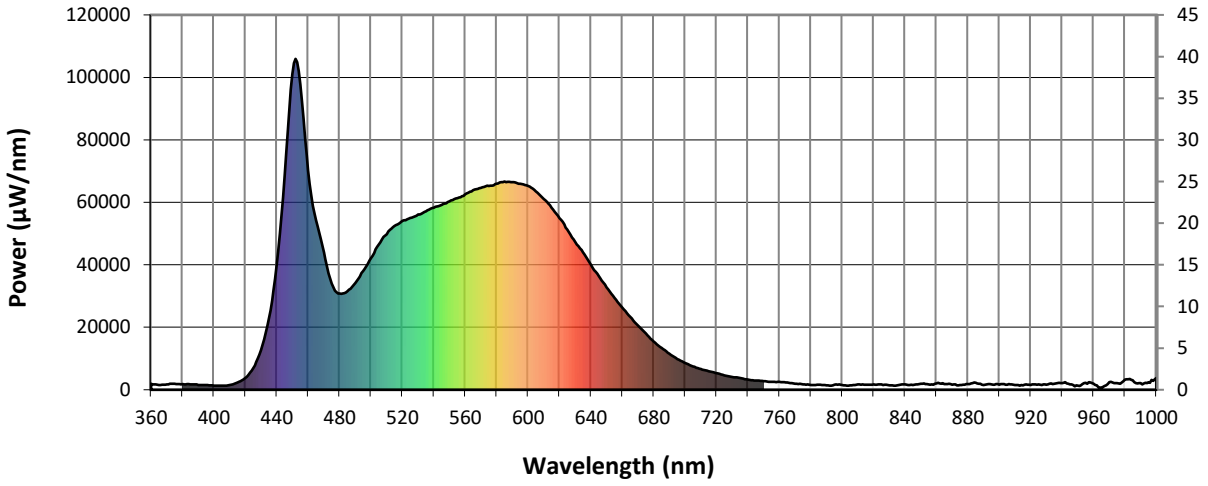
CCT = 4943K
CIE x = 0.3470
CIE y = 0.3564
Duv = 0.0017

Point lies inside the ANSI 5000K 4-step quadrangle

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2210-820-18

Photopic Flux vs. Wavelength



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λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)
360	1893	NR	490	34177	NR	620	54916	NR	750	2782	NR	880	1820	NR
365	1545	NR	495	38010	NR	625	51257	NR	755	2500	NR	885	2271	NR
370	1699	NR	500	42146	NR	630	47308	NR	760	2486	NR	890	1534	NR
375	1869	NR	505	46431	NR	635	44039	NR	765	2313	NR	895	1734	NR
380	1777	NR	510	49788	NR	640	39981	NR	770	1952	NR	900	1568	NR
385	1753	NR	515	52380	NR	645	36389	NR	775	1752	NR	905	1643	NR
390	1511	NR	520	54014	NR	650	32774	NR	780	1548	NR	910	1551	NR
395	1483	NR	525	54953	NR	655	29367	NR	785	1620	NR	915	1428	NR
400	1318	NR	530	56065	NR	660	26307	NR	790	1393	NR	920	1468	NR
405	1342	NR	535	57107	NR	665	23364	NR	795	1627	NR	925	1750	NR
410	1469	NR	540	58306	NR	670	20576	NR	800	1553	NR	930	1641	NR
415	2297	NR	545	59230	NR	675	17969	NR	805	1356	NR	935	1881	NR
420	3731	NR	550	60272	NR	680	15411	NR	810	1669	NR	940	2088	NR
425	6912	NR	555	61298	NR	685	13354	NR	815	1647	NR	945	1721	NR
430	12723	NR	560	62528	NR	690	11535	NR	820	1702	NR	950	1281	NR
435	22892	NR	565	63874	NR	695	9837	NR	825	1689	NR	955	2199	NR
440	39880	NR	570	64630	NR	700	8571	NR	830	1456	NR	960	1889	NR
445	68496	NR	575	65183	NR	705	7495	NR	835	1385	NR	965	707	NR
450	101099	NR	580	65979	NR	710	6588	NR	840	1748	NR	970	2458	NR
455	97717	NR	585	66701	NR	715	5938	NR	845	1548	NR	975	2097	NR
460	70276	NR	590	66508	NR	720	5289	NR	850	1920	NR	980	3285	NR
465	54311	NR	595	65934	NR	725	4630	NR	855	1663	NR	985	3054	NR
470	43940	NR	600	65218	NR	730	4073	NR	860	2052	NR	990	2145	NR
475	34008	NR	605	63482	NR	735	3717	NR	865	1849	NR	995	2463	NR
480	30758	NR	610	61041	NR	740	3235	NR	870	1628	NR	1000	3802	NR
485	31504	NR	615	58238	NR	745	2924	NR	875	1526	NR			

Cooper Lighting Solutions Photometric Lab
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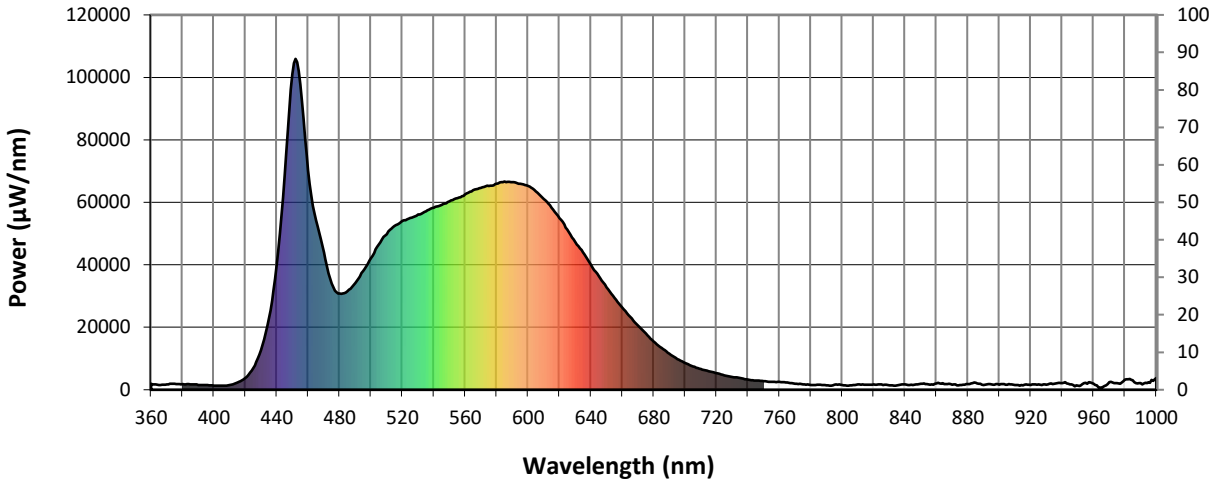
Peachtree City, GA 30269

REPORT NUMBER: SP1-2210-820-18

Scotopic Flux vs. Wavelength



Scotopic Lumens: 8348.9 **S/P: 1.99**

λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)
360	1893	NR	490	34177	NR	620	54916	NR	750	2782	NR	880	1820	NR
365	1545	NR	495	38010	NR	625	51257	NR	755	2500	NR	885	2271	NR
370	1699	NR	500	42146	NR	630	47308	NR	760	2486	NR	890	1534	NR
375	1869	NR	505	46431	NR	635	44039	NR	765	2313	NR	895	1734	NR
380	1777	NR	510	49788	NR	640	39981	NR	770	1952	NR	900	1568	NR
385	1753	NR	515	52380	NR	645	36389	NR	775	1752	NR	905	1643	NR
390	1511	NR	520	54014	NR	650	32774	NR	780	1548	NR	910	1551	NR
395	1483	NR	525	54953	NR	655	29367	NR	785	1620	NR	915	1428	NR
400	1318	NR	530	56065	NR	660	26307	NR	790	1393	NR	920	1468	NR
405	1342	NR	535	57107	NR	665	23364	NR	795	1627	NR	925	1750	NR
410	1469	NR	540	58306	NR	670	20576	NR	800	1553	NR	930	1641	NR
415	2297	NR	545	59230	NR	675	17969	NR	805	1356	NR	935	1881	NR
420	3731	NR	550	60272	NR	680	15411	NR	810	1669	NR	940	2088	NR
425	6912	NR	555	61298	NR	685	13354	NR	815	1647	NR	945	1721	NR
430	12723	NR	560	62528	NR	690	11535	NR	820	1702	NR	950	1281	NR
435	22892	NR	565	63874	NR	695	9837	NR	825	1689	NR	955	2199	NR
440	39880	NR	570	64630	NR	700	8571	NR	830	1456	NR	960	1889	NR
445	68496	NR	575	65183	NR	705	7495	NR	835	1385	NR	965	707	NR
450	101099	NR	580	65979	NR	710	6588	NR	840	1748	NR	970	2458	NR
455	97717	NR	585	66701	NR	715	5938	NR	845	1548	NR	975	2097	NR
460	70276	NR	590	66508	NR	720	5289	NR	850	1920	NR	980	3285	NR
465	54311	NR	595	65934	NR	725	4630	NR	855	1663	NR	985	3054	NR
470	43940	NR	600	65218	NR	730	4073	NR	860	2052	NR	990	2145	NR
475	34008	NR	605	63482	NR	735	3717	NR	865	1849	NR	995	2463	NR
480	30758	NR	610	61041	NR	740	3235	NR	870	1628	NR	1000	3802	NR
485	31504	NR	615	58238	NR	745	2924	NR	875	1526	NR			

Cooper Lighting Solutions Photometric Lab
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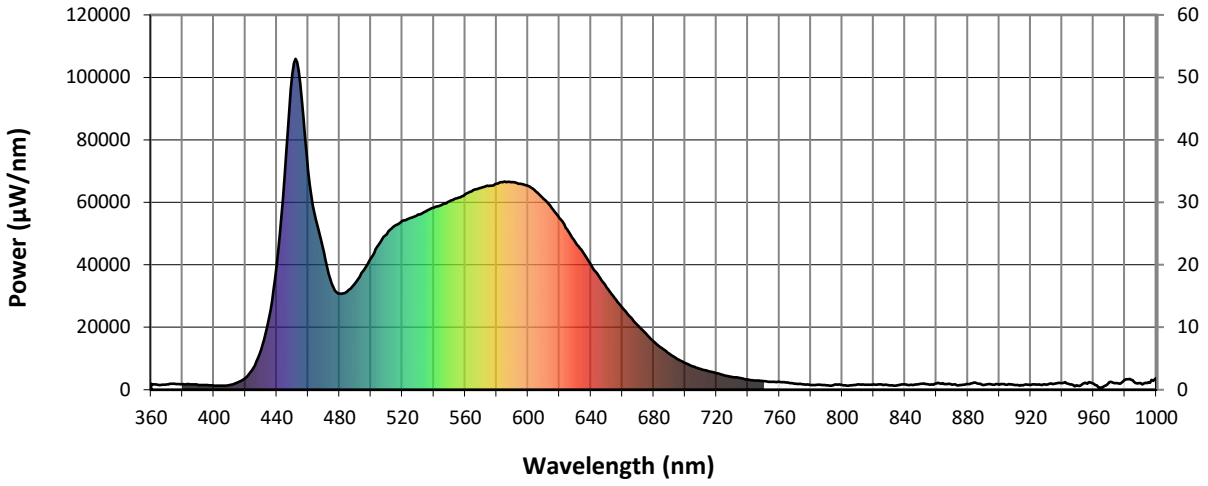
Peachtree City, GA 30269

REPORT NUMBER: SP1-2210-820-18

Melanopic Flux vs. Wavelength



Melanopic Lumens: 3536.5 **S/P: 0.84**

λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)
360	1893	NR	490	34177	NR	620	54916	NR	750	2782	NR	880	1820	NR
365	1545	NR	495	38010	NR	625	51257	NR	755	2500	NR	885	2271	NR
370	1699	NR	500	42146	NR	630	47308	NR	760	2486	NR	890	1534	NR
375	1869	NR	505	46431	NR	635	44039	NR	765	2313	NR	895	1734	NR
380	1777	NR	510	49788	NR	640	39981	NR	770	1952	NR	900	1568	NR
385	1753	NR	515	52380	NR	645	36389	NR	775	1752	NR	905	1643	NR
390	1511	NR	520	54014	NR	650	32774	NR	780	1548	NR	910	1551	NR
395	1483	NR	525	54953	NR	655	29367	NR	785	1620	NR	915	1428	NR
400	1318	NR	530	56065	NR	660	26307	NR	790	1393	NR	920	1468	NR
405	1342	NR	535	57107	NR	665	23364	NR	795	1627	NR	925	1750	NR
410	1469	NR	540	58306	NR	670	20576	NR	800	1553	NR	930	1641	NR
415	2297	NR	545	59230	NR	675	17969	NR	805	1356	NR	935	1881	NR
420	3731	NR	550	60272	NR	680	15411	NR	810	1669	NR	940	2088	NR
425	6912	NR	555	61298	NR	685	13354	NR	815	1647	NR	945	1721	NR
430	12723	NR	560	62528	NR	690	11535	NR	820	1702	NR	950	1281	NR
435	22892	NR	565	63874	NR	695	9837	NR	825	1689	NR	955	2199	NR
440	39880	NR	570	64630	NR	700	8571	NR	830	1456	NR	960	1889	NR
445	68496	NR	575	65183	NR	705	7495	NR	835	1385	NR	965	707	NR
450	101099	NR	580	65979	NR	710	6588	NR	840	1748	NR	970	2458	NR
455	97717	NR	585	66701	NR	715	5938	NR	845	1548	NR	975	2097	NR
460	70276	NR	590	66508	NR	720	5289	NR	850	1920	NR	980	3285	NR
465	54311	NR	595	65934	NR	725	4630	NR	855	1663	NR	985	3054	NR
470	43940	NR	600	65218	NR	730	4073	NR	860	2052	NR	990	2145	NR
475	34008	NR	605	63482	NR	735	3717	NR	865	1849	NR	995	2463	NR
480	30758	NR	610	61041	NR	740	3235	NR	870	1628	NR	1000	3802	NR
485	31504	NR	615	58238	NR	745	2924	NR	875	1526	NR			

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

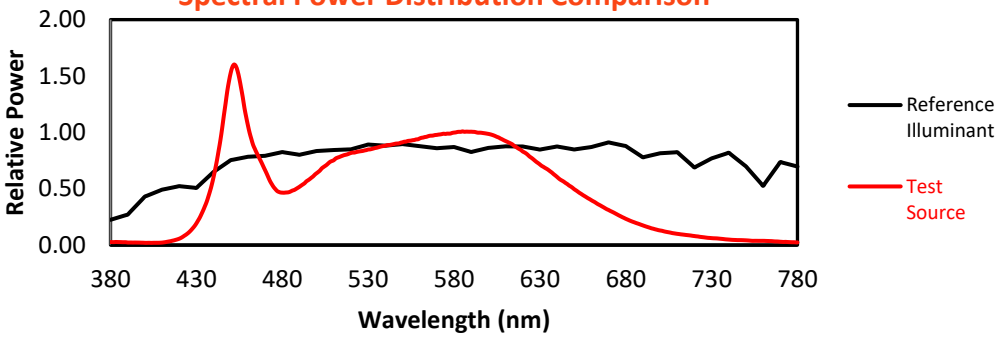
REPORT NUMBER: SP1-2210-820-18

TM-30-18

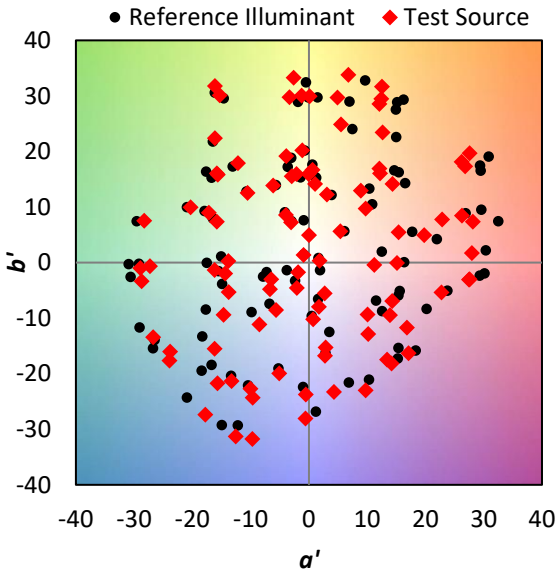
Summary

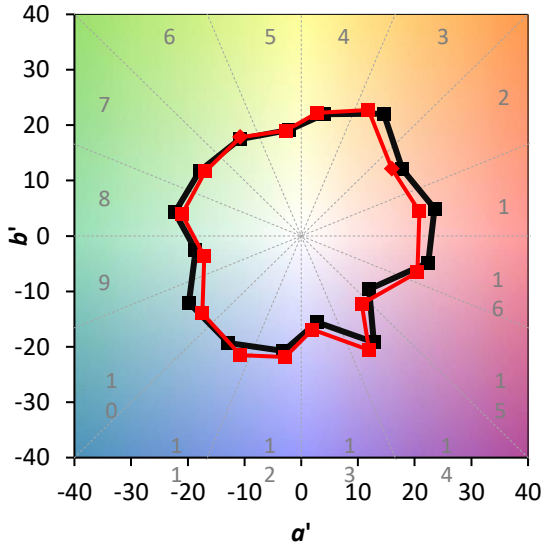
R_f = 85.4
R_g = 95.7
CIE R_a = 85.1
R_9 = 16.8

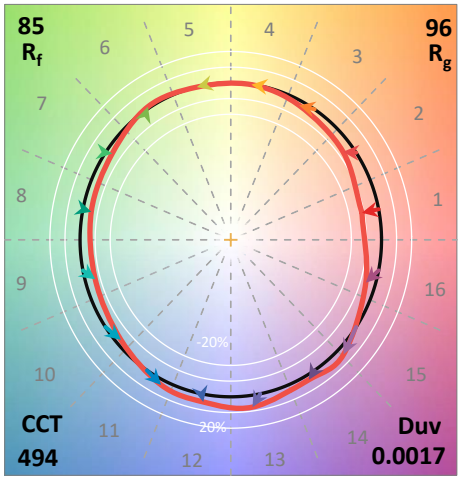
Spectral Power Distribution Comparison

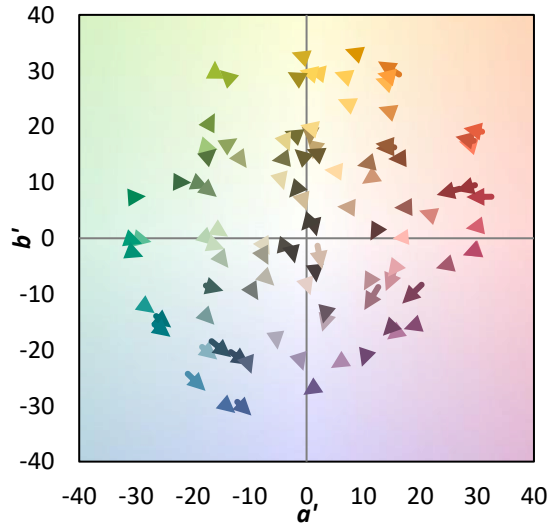


Color Vector Graphics









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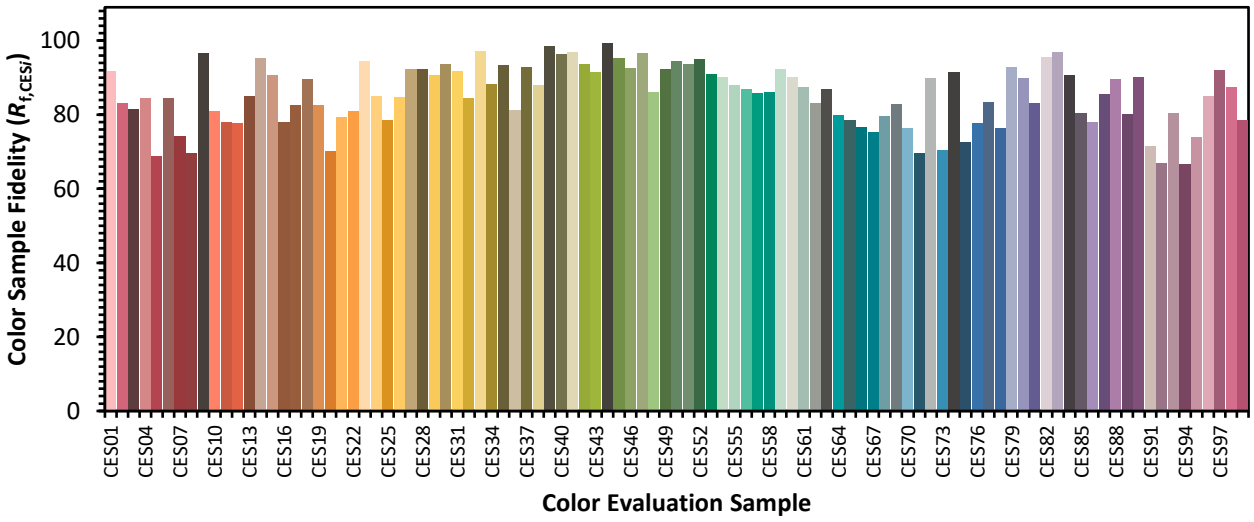
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 85	CES26 = 85	CES51 = 94	CES76 = 78
CES02 = 60	CES27 = 92	CES52 = 95	CES77 = 83
CES03 = 31	CES28 = 92	CES53 = 91	CES78 = 76
CES04 = 69	CES29 = 91	CES54 = 90	CES79 = 93
CES05 = 47	CES30 = 93	CES55 = 88	CES80 = 90
CES06 = 50	CES31 = 92	CES56 = 87	CES81 = 83
CES07 = 40	CES32 = 84	CES57 = 86	CES82 = 96
CES08 = 39	CES33 = 97	CES58 = 86	CES83 = 97
CES09 = 29	CES34 = 88	CES59 = 92	CES84 = 91
CES10 = 73	CES35 = 93	CES60 = 90	CES85 = 80
CES11 = 56	CES36 = 81	CES61 = 87	CES86 = 78
CES12 = 62	CES37 = 93	CES62 = 83	CES87 = 86
CES13 = 42	CES38 = 88	CES63 = 87	CES88 = 90
CES14 = 74	CES39 = 98	CES64 = 80	CES89 = 80
CES15 = 71	CES40 = 96	CES65 = 78	CES90 = 90
CES16 = 46	CES41 = 97	CES66 = 77	CES91 = 71
CES17 = 49	CES42 = 93	CES67 = 75	CES92 = 67
CES18 = 56	CES43 = 92	CES68 = 79	CES93 = 80
CES19 = 70	CES44 = 99	CES69 = 83	CES94 = 66
CES20 = 64	CES45 = 95	CES70 = 76	CES95 = 74
CES21 = 85	CES46 = 93	CES71 = 70	CES96 = 85
CES22 = 77	CES47 = 97	CES72 = 90	CES97 = 92
CES23 = 91	CES48 = 86	CES73 = 70	CES98 = 87
CES24 = 90	CES49 = 92	CES74 = 91	CES99 = 78
CES25 = 71	CES50 = 94	CES75 = 73	



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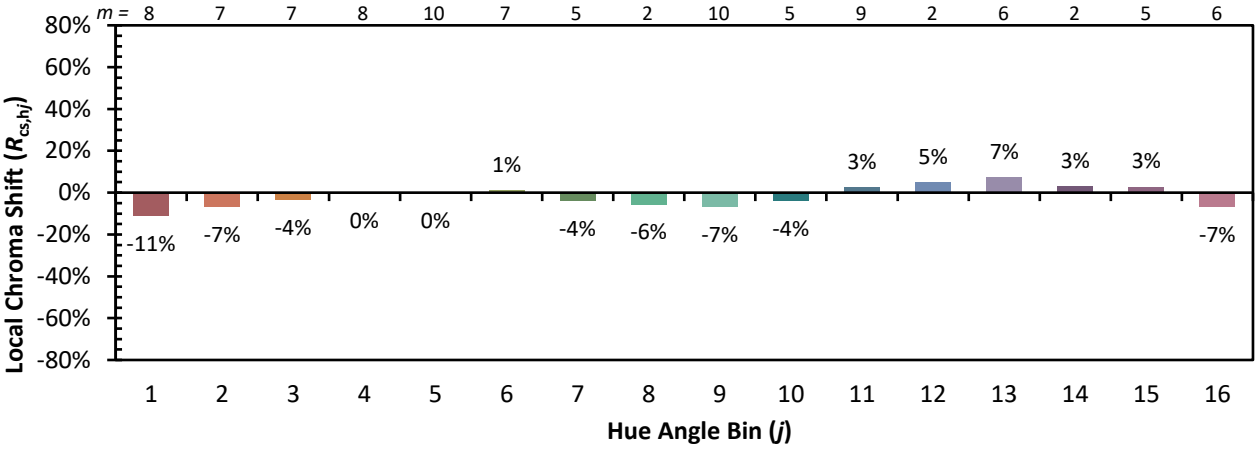
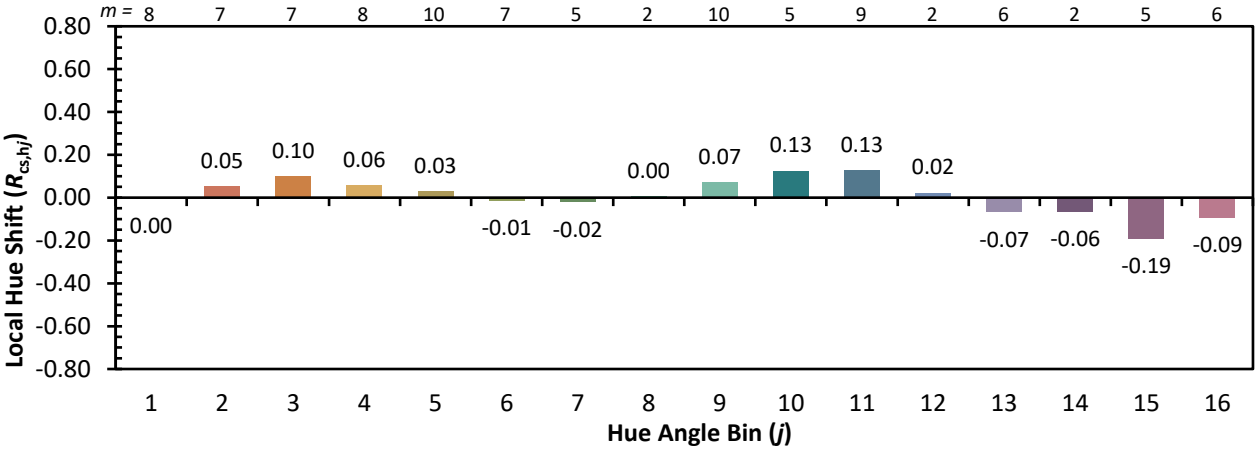
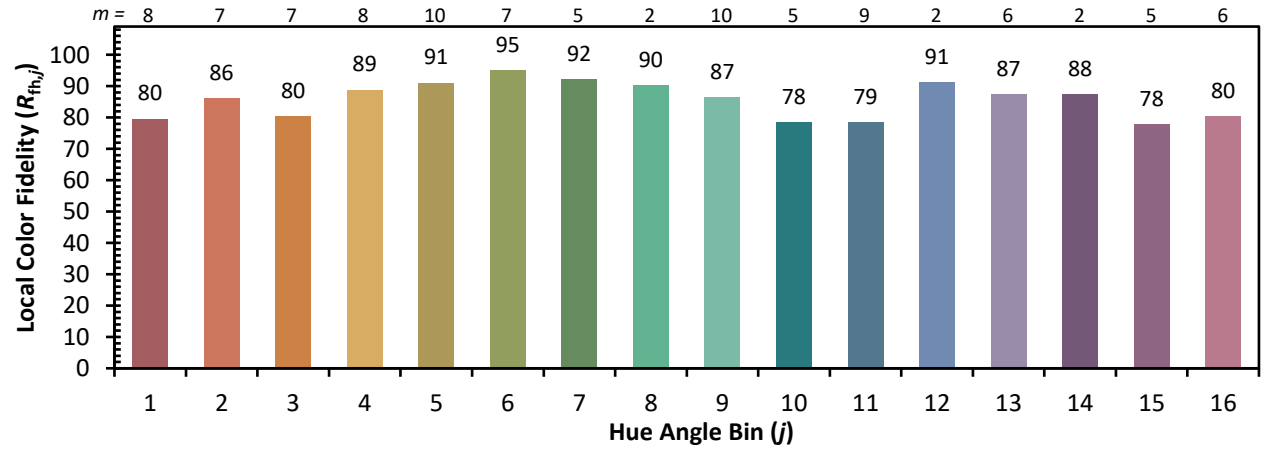
Color Rendition by Hue-Angle Bin







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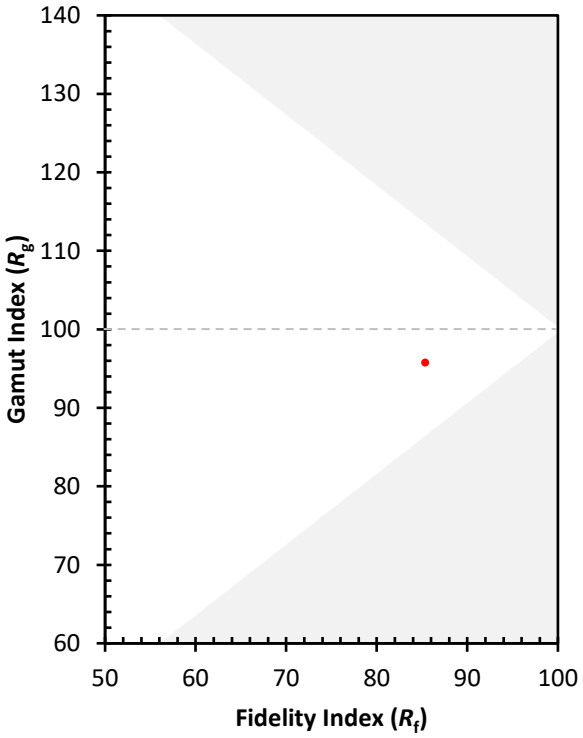
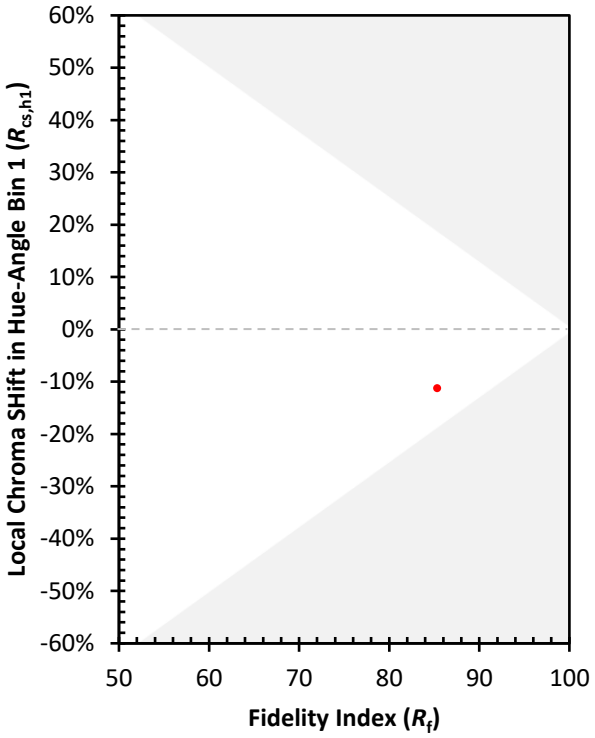
Measure Comparisons





(END OF REPORT)