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: P861201

Luminaire Tested: **8APVTLD-SL3C3 HI POWER 3500K 120V**

Issue Date: 1/11/2023

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1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-08
Report Number:	P861201
	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 HI POWER 3500K 120V
Description:	HI POWER
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER
Luminaire Equipment:	Sample No. Condition Description

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	11664.1 lumens
Efficiency:	N/A
Efficacy:	123.8 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):	94.2
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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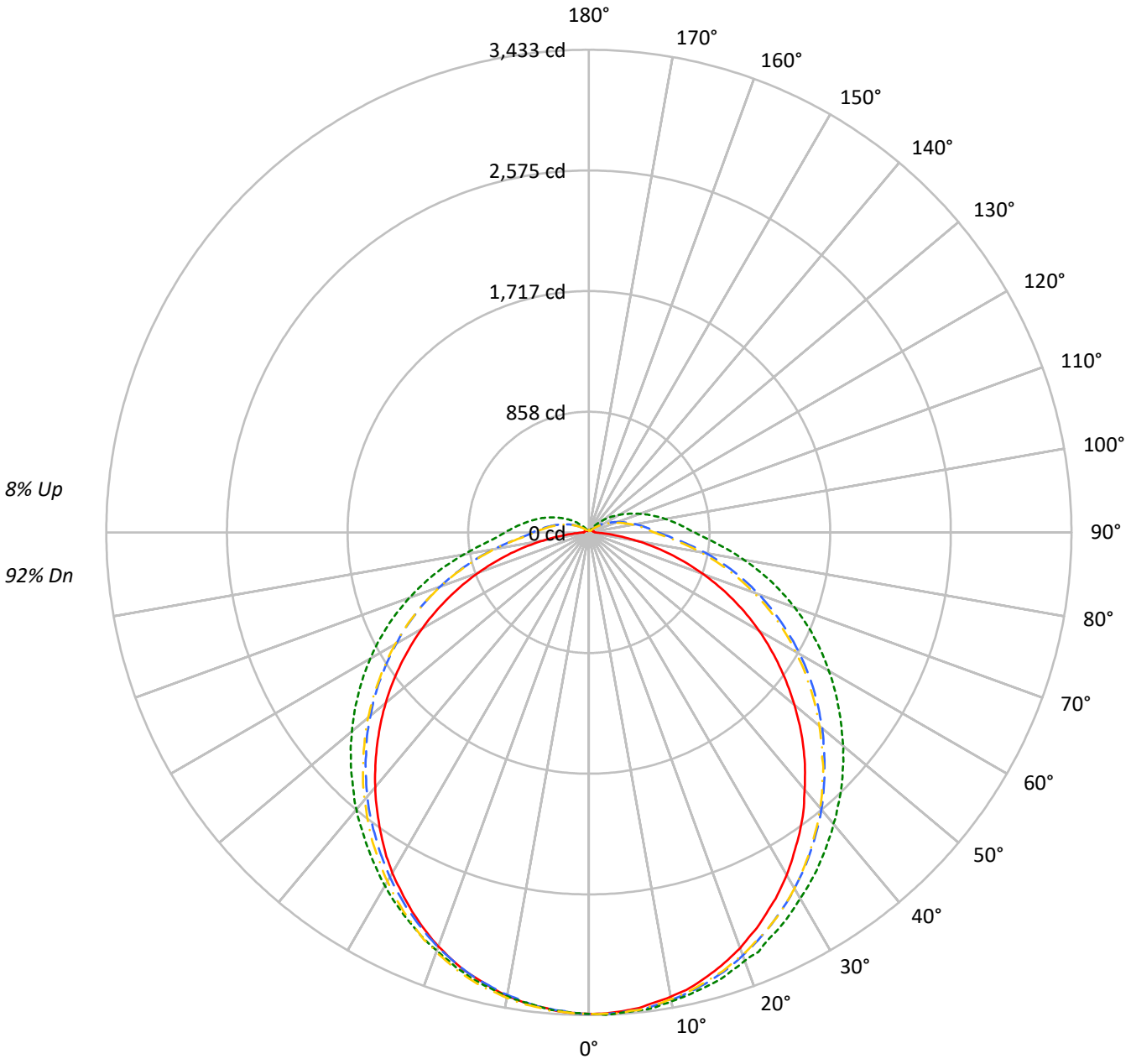
Luminous Intensity Polar Plot



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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	92
1	105	100	95	91	102	97	92	88	91	87	84	86	83	80	81	79	76	74
2	95	86	79	72	92	84	77	71	79	73	68	74	70	65	70	66	63	60
3	86	75	66	60	83	73	65	59	69	62	57	65	59	55	62	57	53	50
4	79	66	57	50	76	64	56	49	61	54	48	58	51	46	55	49	45	42
5	72	59	50	43	70	57	49	42	54	47	41	52	45	40	49	43	39	36
6	67	53	44	37	64	52	43	37	49	41	36	47	40	35	44	39	34	32
7	62	48	39	33	60	47	38	32	45	37	32	42	36	31	40	35	30	28
8	58	44	35	29	56	43	34	29	41	33	28	39	32	28	37	31	27	25
9	54	40	32	26	52	39	31	26	37	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°	13823	13823	13823	13823
5°	13792	13566	13759	13492
10°	13722	13299	13697	13148
15°	13617	13041	13563	12827
20°	13466	12765	13407	12463
25°	13247	12521	13188	12142
30°	13037	12247	12958	11820
35°	12776	12016	12658	11494
40°	12478	11791	12353	11206
45°	12195	11613	12026	10920
50°	11841	11431	11696	10644
55°	11459	11239	11323	10382
60°	11084	11100	10874	10116
65°	10577	10985	10309	9834
70°	9907	10886	9601	9501
75°	9000	10806	8606	9129
80°	7678	10769	7179	8680
85°	6034	10962	5417	8534

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.9	2.8
10°-20°	926.0	7.9
20°-30°	1401.0	12.0
30°-40°	1693.0	14.5
40°-50°	1782.1	15.3
50°-60°	1673.8	14.4
60°-70°	1396.5	12.0
70°-80°	997.2	8.5
80°-90°	587.7	5.0
90°-100°	367.8	3.2
100°-110°	242.6	2.1
110°-120°	144.1	1.2
120°-130°	74.7	0.6
130°-140°	30.3	0.3
140°-150°	11.1	0.1
150°-160°	6.5	0.1
160°-170°	4.1	0.0
170°-180°	1.5	0.0
0°-30°	2651.0	22.7
0°-40°	4344.0	37.2
0°-60°	7800.0	66.9
0°-90°	10781.4	92.4
90°-120°	754.4	6.5
90°-150°	870.6	7.5
90°-180°	883.0	7.6
0°-180°	11664.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3425	3425	3425	3425	3425	
5°	3407	3421	3399	3403	3407	323
15°	3268	3330	3255	3275	3268	921
25°	2989	3139	2976	3044	2989	1378
35°	2612	2865	2588	2741	2612	1633
45°	2158	2543	2129	2391	2158	1663
55°	1652	2167	1633	2002	1652	1479
65°	1132	1767	1104	1582	1132	1120
75°	600	1339	573	1132	600	634
85°	146	913	131	711	146	162
90°	43	752	40	596	43	27
95°	38	644	34	512	38	30
105°	32	467	30	374	32	34
115°	27	313	26	248	27	27
125°	22	191	21	146	22	20
135°	17	95	15	64	17	14
145°	14	24	12	18	14	9
155°	13	14	11	15	13	6
165°	15	13	16	13	15	4
175°	16	13	19	13	16	2
180°	16	16	16	16	16	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	3424.6	3424.6	3424.6	3424.6	*3424.6*	3424.6	3424.6	3424.6	3424.6	3424.6	3424.6
1°	3424.4	3430.0	3424.6	3425.8	*3427.8*	3427.2	3427.4	3424.4	3422.8	3423.8	3424.0
2°	*3422.8*	*3427.8*	*3427.6*	*3427.8*	*3433.2*	*3426.2*	*3425.4*	*3423.4*	*3419.8*	*3419.6*	*3417.4*
3°	3418.2	3426.6	3425.0	3421.6	*3430.0*	3425.0	3426.8	3419.4	3416.2	3414.0	3409.2
4°	3413.4	3426.0	3420.0	3420.6	*3423.4*	3419.6	3424.2	3411.0	3410.6	3409.0	3406.2
5°	3407.0	3421.8	3416.4	3413.8	*3421.2*	3416.6	3416.0	3408.0	3398.8	3405.6	3394.6
6°	3401.2	3412.8	3413.0	3412.6	*3418.8*	3411.8	3416.0	3402.2	3391.8	3395.0	3393.0
7°	3387.6	3404.0	3408.6	3405.0	*3418.0*	3404.6	3403.8	3391.4	3384.2	3385.2	3382.4
8°	3376.0	3395.2	3397.0	3402.8	*3410.2*	3400.0	3396.0	3381.4	3373.0	3374.0	3366.4
9°	3366.2	3376.8	3387.4	3393.4	*3397.2*	3393.2	3382.6	3373.8	3359.8	3361.6	3352.4
10°	3354.0	3361.2	3375.0	3384.6	*3387.6*	3382.2	3370.8	3355.6	3347.8	3345.0	3340.6
11°	3338.8	3355.0	3365.2	3373.0	*3377.0*	3372.0	3359.0	3345.2	3331.8	3327.4	3325.2
12°	3327.6	3336.8	3351.4	3362.4	*3367.6*	3358.6	3345.0	3326.8	3312.2	3308.4	3307.6
13°	3310.2	3321.0	3338.2	3350.0	*3354.8*	3345.2	3329.8	3306.6	3291.8	3286.0	3291.0
14°	3288.0	3300.0	3322.0	3335.4	*3342.0*	3334.0	3312.4	3289.0	3273.9	3263.1	3274.9
15°	3267.7	3283.2	3306.4	3322.4	*3329.8*	3314.6	3296.8	3269.5	3254.7	3246.3	3254.5
16°	3244.3	3263.3	3287.4	3304.6	*3318.8*	3297.2	3277.4	3249.3	3236.7	3223.3	3234.1
17°	3221.7	3242.3	3269.3	3288.4	*3302.2*	3284.2	3261.1	3221.1	3212.3	3199.5	3211.3
18°	3197.3	3224.7	3249.5	3269.3	*3280.0*	3266.1	3239.3	3200.3	3185.5	3175.9	3187.9
19°	3171.3	3194.9	3225.9	3250.9	*3262.7*	3248.9	3215.9	3173.1	3158.3	3151.5	3163.1
20°	3146.7	3168.1	3201.7	3232.3	*3242.1*	3226.5	3197.3	3151.7	3133.1	3127.3	3139.7
21°	3113.9	3140.9	3178.5	3214.9	*3227.5*	3206.3	3174.3	3127.9	3104.1	3096.1	3110.5
22°	3084.3	3118.9	3153.3	3190.1	*3218.5*	3189.1	3146.5	3102.5	3071.1	3065.5	3084.1
23°	3056.7	3086.5	3128.1	3163.9	*3185.5*	3164.3	3124.5	3064.3	3040.5	3034.7	3053.1
24°	3024.3	3056.3	3101.5	3145.3	*3160.5*	3138.3	3100.5	3040.1	3007.7	3005.7	3024.5
25°	2988.9	3028.3	3076.1	3120.1	*3139.1*	3115.5	3073.7	3011.1	2975.5	2973.5	2993.3
26°	2955.3	2997.1	3045.1	3098.3	*3115.7*	3089.9	3047.5	2977.9	2940.1	2937.9	2964.7
27°	2924.5	2966.7	3016.3	3067.9	*3091.3*	3064.3	3018.9	2943.1	2905.7	2903.7	2930.9
28°	2887.5	2928.1	2987.7	3043.7	*3063.1*	3039.5	2986.5	2905.9	2866.7	2866.3	2898.9
29°	2850.7	2895.3	2958.5	3016.3	*3034.9*	3012.9	2955.5	2870.5	2833.9	2831.7	2865.5
30°	2813.9	2861.7	2924.9	2988.3	*3006.9*	2979.5	2925.1	2837.3	2796.9	2793.3	2830.3
31°	2773.7	2824.9	2892.9	2959.1	*2981.3*	2955.3	2890.3	2796.1	2755.5	2756.7	2794.7
32°	2733.1	2789.5	2860.3	2928.5	*2954.9*	2923.7	2855.3	2759.9	2717.9	2720.7	2757.5
33°	2691.3	2745.3	2828.7	2897.5	*2925.3*	2896.1	2820.5	2722.3	2675.3	2683.5	2722.5
34°	2652.3	2709.1	2791.9	2866.3	*2898.3*	2867.7	2785.7	2684.7	2631.1	2639.5	2683.5
35°	2611.7	2670.1	2755.5	2835.1	*2865.3*	2832.5	2750.9	2642.5	2587.5	2596.3	2643.9
36°	2570.1	2631.1	2721.3	2803.7	*2834.9*	2798.1	2710.5	2599.9	2543.9	2555.5	2609.3
37°	2528.5	2591.5	2683.3	2771.3	*2805.5*	2767.7	2675.1	2561.5	2500.3	2515.1	2572.1
38°	2482.7	2547.5	2648.9	2737.3	*2771.7*	2730.3	2639.5	2516.7	2456.3	2474.5	2534.1
39°	2433.9	2503.9	2610.5	2703.5	*2743.3*	2693.7	2596.7	2475.1	2411.1	2432.9	2494.3
40°	2388.7	2460.5	2573.1	2670.7	*2707.1*	2663.3	2559.5	2433.3	2364.9	2386.9	2451.3
41°	2342.1	2422.1	2534.7	2639.1	*2679.3*	2628.7	2521.1	2386.7	2319.3	2346.3	2410.9
42°	2298.1	2376.9	2492.3	2604.1	*2641.3*	2592.1	2480.5	2344.1	2271.7	2299.3	2368.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	2158.5	2248.5	2370.3	2495.3	2542.9	2487.9	2359.1	2206.9	2128.7	2161.5	2240.5
46°	2109.3	2202.1	2329.3	2457.7	2507.9	2452.9	2306.7	2162.9	2080.7	2114.5	2202.1
47°	2059.1	2152.3	2289.5	2418.5	2468.3	2413.1	2271.9	2114.7	2032.3	2066.5	2161.7
48°	2009.3	2108.9	2245.7	2384.5	2436.3	2374.5	2223.7	2069.7	1984.2	2019.9	2117.9
49°	1959.1	2059.5	2208.1	2348.5	2395.5	2336.9	2183.1	2021.5	1936.2	1969.7	2074.1
50°	1909.1	2012.7	2167.3	2305.9	2362.7	2296.1	2140.3	1975.1	1885.7	1921.2	2028.1
51°	1858.3	1963.1	2122.5	2269.5	2320.7	2255.3	2094.5	1927.0	1837.2	1874.0	1983.7
52°	1807.3	1918.9	2080.3	2235.1	2282.7	2214.3	2050.7	1878.0	1786.5	1822.6	1944.0
53°	1756.1	1869.8	2039.7	2195.7	2245.9	2175.9	2009.5	1828.9	1734.5	1775.8	1898.0
54°	1704.5	1819.7	1995.2	2154.5	2207.7	2136.7	1966.3	1782.3	1683.1	1727.3	1853.4
55°	1652.5	1772.3	1953.4	2115.3	2167.3	2097.9	1921.5	1733.4	1632.9	1678.3	1806.8
56°	1602.0	1721.2	1909.8	2077.1	2129.5	2056.5	1873.9	1681.2	1580.2	1627.0	1761.6
57°	1551.1	1672.9	1865.5	2034.7	2091.7	2018.1	1835.1	1630.9	1527.6	1578.1	1717.8
58°	1501.4	1623.6	1821.4	1994.5	2051.5	1974.4	1789.7	1581.0	1475.5	1528.3	1672.3
59°	1450.6	1575.1	1777.2	1952.3	2013.3	1934.4	1741.5	1533.6	1423.8	1478.1	1627.7
60°	1397.7	1524.3	1733.1	1911.8	1970.3	1890.4	1696.9	1482.2	1371.3	1430.3	1579.6
61°	1343.9	1476.9	1686.6	1869.7	1932.5	1848.6	1656.1	1433.9	1317.8	1379.6	1538.4
62°	1292.5	1426.5	1645.3	1826.8	1892.1	1808.5	1611.7	1384.8	1264.8	1328.9	1492.7
63°	1239.7	1377.7	1596.0	1786.0	1851.0	1765.5	1563.5	1336.1	1210.1	1279.2	1445.9
64°	1185.5	1329.8	1552.5	1742.6	1812.0	1722.9	1520.9	1284.6	1157.9	1229.0	1400.0
65°	1132.2	1279.8	1508.1	1702.5	1766.7	1677.3	1474.9	1235.1	1103.5	1178.9	1351.8
66°	1079.2	1229.9	1462.8	1659.6	1729.4	1635.4	1429.8	1187.0	1050.8	1128.5	1308.8
67°	1025.1	1181.8	1418.4	1613.9	1684.5	1592.7	1383.7	1137.4	997.5	1079.8	1263.0
68°	971.4	1131.2	1373.7	1571.0	1643.6	1549.1	1338.3	1088.3	943.2	1031.0	1216.4
69°	917.6	1084.5	1329.2	1526.4	1598.5	1506.0	1292.9	1038.0	889.9	982.0	1171.0
70°	863.5	1035.3	1285.6	1484.3	1555.9	1461.5	1247.0	989.5	836.8	932.9	1125.1
71°	809.4	985.6	1239.1	1438.1	1511.6	1418.4	1201.6	942.7	780.8	883.9	1077.9
72°	757.1	937.1	1199.1	1395.5	1468.4	1373.6	1155.6	895.0	729.6	835.8	1034.9
73°	705.5	889.8	1151.9	1349.7	1426.2	1331.3	1111.1	846.2	678.1	787.7	990.2
74°	651.3	841.6	1109.3	1301.8	1380.9	1285.7	1065.0	798.5	625.3	741.1	944.0
75°	599.5	795.4	1063.0	1258.5	1339.4	1243.3	1021.6	751.2	573.3	694.1	899.1
76°	546.4	747.6	1018.5	1214.3	1293.9	1198.2	977.8	704.4	521.9	648.7	853.2
77°	495.8	703.3	974.2	1171.2	1249.7	1155.6	934.2	658.3	471.1	603.7	809.6
78°	445.2	658.2	929.6	1127.2	1205.3	1111.1	888.8	612.6	420.9	560.8	767.2
79°	397.3	614.5	887.1	1084.6	1163.4	1069.3	848.6	571.0	373.5	516.7	726.9
80°	349.8	570.9	842.2	1040.3	1120.1	1025.8	803.5	527.1	327.1	475.7	684.0
81°	304.4	528.0	799.9	999.6	1076.7	985.3	763.3	486.0	283.3	435.6	644.5
82°	260.2	489.4	759.1	957.7	1034.5	945.2	721.3	444.0	239.7	397.5	606.5
83°	219.8	449.4	716.9	917.2	993.8	903.6	682.6	407.2	200.2	361.9	571.2
84°	181.3	412.8	677.0	876.3	952.7	865.5	643.2	369.3	164.2	328.1	536.9
85°	145.8	377.1	639.9	836.4	913.0	827.9	608.5	335.4	130.9	295.9	505.0
86°	113.8	341.7	604.4	799.0	878.2	793.2	576.0	303.5	101.3	267.2	476.3
87°	87.7	309.8	572.1	762.2	840.3	757.9	542.7	274.4	76.0	240.9	450.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	43.4	241.3	492.4	672.3	*752.1*	670.0	464.2	209.8	40.1	193.9	400.2
91°	41.3	225.7	471.8	649.6	*724.0*	645.6	445.9	196.1	38.5	183.0	384.8
92°	40.3	213.6	453.9	630.6	*704.2*	626.6	429.7	185.5	37.5	172.3	370.8
93°	39.0	200.9	438.0	612.8	*683.9*	607.5	414.7	174.8	36.4	162.3	357.0
94°	38.4	190.0	422.9	593.2	*663.7*	589.0	399.8	164.4	35.5	153.3	343.3
95°	37.6	179.5	408.6	576.0	*644.5*	571.0	386.0	154.0	34.3	144.7	329.5
96°	36.9	169.3	392.5	558.9	*624.0*	553.4	370.9	144.9	33.6	135.8	316.7
97°	36.1	159.7	377.4	541.6	*605.9*	536.0	357.3	135.8	33.1	127.6	304.2
98°	35.6	150.1	362.9	524.8	*587.5*	518.5	343.8	127.5	32.2	119.7	292.1
99°	35.0	142.0	349.6	508.4	*569.3*	501.0	330.1	119.6	31.5	112.0	281.1
100°	34.5	134.1	334.2	491.8	*551.5*	484.6	317.1	112.7	31.4	105.0	269.2
101°	34.0	126.5	320.8	476.1	*533.9*	468.2	303.9	105.1	31.1	98.5	258.4
102°	33.5	118.9	307.7	459.6	*516.6*	452.4	290.5	98.2	30.9	92.0	246.2
103°	33.1	111.7	295.4	442.2	*499.2*	437.5	278.9	91.9	30.6	86.3	236.0
104°	32.6	105.3	283.2	425.8	*481.1*	421.5	265.1	85.8	30.4	80.8	225.1
105°	31.7	98.9	271.5	411.6	*466.6*	406.6	254.6	80.0	30.1	75.3	215.2
106°	31.5	92.5	259.4	396.0	*449.2*	390.8	242.3	74.5	30.1	69.9	205.8
107°	31.4	87.1	247.8	380.0	*433.9*	376.0	232.1	69.5	29.1	64.7	196.0
108°	30.7	81.1	237.3	366.5	*416.5*	360.9	220.3	64.2	28.7	59.7	186.1
109°	30.0	75.8	226.1	351.8	*402.9*	347.2	211.0	59.5	28.4	55.6	177.1
110°	29.5	70.6	215.8	337.8	*385.7*	332.2	199.9	55.3	28.2	51.2	167.9
111°	29.1	65.4	205.5	324.4	*372.0*	319.6	190.1	50.7	28.2	47.1	159.5
112°	28.8	60.8	195.5	310.2	*356.5*	306.3	180.1	46.4	27.4	43.0	151.0
113°	28.4	56.8	185.8	297.3	*341.4*	293.3	171.1	42.7	27.4	39.5	142.7
114°	27.7	52.3	176.1	284.4	*328.5*	280.2	161.9	38.9	27.2	36.1	134.7
115°	27.0	48.2	167.1	271.8	*313.3*	267.0	153.4	35.6	26.1	32.7	126.8
116°	26.7	44.5	158.1	258.8	*300.9*	254.8	144.6	32.2	25.8	29.8	118.7
117°	26.3	40.5	149.3	247.1	*286.4*	243.5	136.5	29.7	25.4	27.3	111.9
118°	25.8	37.3	140.9	236.2	*274.0*	231.8	128.1	26.9	25.1	24.8	104.3
119°	25.3	34.0	133.1	224.5	*261.1*	220.2	120.2	25.2	24.6	24.8	97.5
120°	24.9	31.2	124.8	213.1	*249.6*	209.4	112.5	25.0	24.4	24.4	90.4
121°	24.2	29.3	117.3	202.4	*236.9*	197.6	104.7	24.3	24.0	23.2	83.2
122°	23.7	28.6	109.7	191.5	*226.2*	187.3	97.7	24.1	23.0	22.9	77.2
123°	22.8	28.1	102.4	181.9	*212.5*	176.8	90.2	23.8	22.1	22.3	70.6
124°	22.0	27.8	95.0	171.3	*202.7*	166.3	83.5	22.8	21.6	21.8	64.3
125°	21.6	27.1	87.8	161.1	*190.8*	156.3	76.5	22.6	21.1	21.6	58.6
126°	21.1	26.5	81.3	151.9	*180.6*	146.8	70.1	21.9	20.4	21.6	53.1
127°	20.7	26.0	74.5	142.1	*169.8*	137.6	63.8	21.7	19.9	21.1	48.1
128°	20.4	25.3	68.2	133.2	*160.2*	128.9	58.1	21.9	19.0	20.6	42.6
129°	20.1	24.6	61.8	124.4	*149.5*	119.0	52.5	20.8	18.5	19.7	37.5
130°	19.5	24.3	56.4	115.2	*141.0*	111.1	47.3	20.3	17.6	19.4	33.0
131°	19.0	23.7	50.8	106.8	*130.2*	102.4	41.7	19.6	17.1	19.0	28.1
132°	18.5	23.2	45.3	98.1	*122.2*	94.7	37.0	19.3	16.4	18.5	24.1

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P861201
CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 120V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	17.4	21.8	31.0	75.1	*94.7*	71.6	23.9	17.9	14.6	16.9	16.8
136°	17.1	21.5	26.7	67.9	*86.2*	64.1	20.2	17.5	14.3	16.4	16.1
137°	16.7	20.8	23.5	60.9	*78.0*	57.5	19.0	17.0	13.9	16.2	15.8
138°	16.6	20.4	22.2	54.8	*70.0*	51.6	17.9	16.8	13.8	16.2	15.1
139°	16.2	19.9	21.7	48.1	*62.6*	45.3	17.2	16.1	13.6	15.9	14.5
140°	15.9	19.5	21.0	42.4	*55.8*	39.4	16.9	15.8	13.8	15.2	13.8
141°	15.4	18.9	20.7	36.6	*48.7*	33.9	16.3	15.8	13.2	14.5	13.7
142°	15.3	18.7	20.1	31.3	*42.1*	28.7	16.0	14.9	12.9	14.1	13.3
143°	15.3	18.2	19.6	26.3	*36.1*	23.9	15.5	14.4	12.4	14.0	12.6
144°	15.0	18.0	19.3	22.1	*29.8*	19.9	14.8	14.1	11.7	13.8	12.4
145°	14.5	17.5	18.7	20.7	*24.2*	17.5	14.4	13.9	11.5	13.8	12.1
146°	14.3	16.9	18.4	20.0	*19.5*	17.0	14.2	13.5	11.5	13.7	11.9
147°	14.3	16.6	18.0	19.7	*17.1*	16.6	14.2	13.7	11.5	13.7	11.9
148°	13.8	16.2	17.7	19.3	*16.6*	16.6	13.9	13.5	11.5	13.6	11.8
149°	13.6	15.7	17.2	19.0	*16.2*	16.4	13.9	13.2	11.4	13.6	11.8
150°	13.4	15.5	16.8	18.3	*16.2*	16.4	13.7	13.2	11.4	13.5	11.8
151°	13.1	15.2	16.6	18.1	*15.7*	16.1	13.5	13.3	11.4	13.4	11.8
152°	13.1	15.2	16.5	17.9	*15.2*	15.2	13.5	13.4	11.4	13.4	11.8
153°	12.9	14.7	16.4	17.6	*14.5*	14.8	13.5	13.5	11.4	13.4	11.8
154°	13.0	14.7	16.3	17.2	*14.3*	14.5	13.5	13.6	11.4	13.4	11.8
155°	13.0	14.7	16.2	17.0	*13.6*	14.3	13.5	13.8	11.3	13.4	11.8
156°	13.1	14.7	16.1	16.9	*13.6*	13.8	13.5	13.9	11.3	13.4	11.8
157°	13.2	14.7	16.1	16.5	*13.4*	13.9	13.5	14.0	11.3	13.4	11.8
158°	13.3	14.7	16.1	16.7	*13.4*	13.6	13.5	14.1	11.7	13.4	11.7
159°	13.3	14.8	16.0	16.0	*13.4*	13.2	13.5	14.2	11.7	13.6	11.7
160°	13.4	14.8	16.0	16.0	*13.4*	13.2	13.5	14.3	12.0	13.8	11.8
161°	13.4	14.9	16.0	16.2	*13.3*	13.2	13.6	14.4	12.7	14.1	12.6
162°	13.6	14.9	16.0	15.8	*13.3*	13.2	13.7	14.6	13.6	14.8	13.5
163°	13.8	15.0	16.0	15.6	*13.3*	13.2	13.8	15.1	14.5	15.2	14.2
164°	13.9	15.1	15.9	15.3	*13.3*	13.2	13.8	15.4	15.0	15.4	14.5
165°	14.6	15.1	15.9	15.5	*13.3*	13.2	13.9	15.8	15.5	15.5	15.1
166°	15.0	15.2	15.9	15.1	*13.2*	13.2	14.0	16.0	16.0	15.7	15.8
167°	15.5	15.9	15.9	15.1	*13.2*	13.2	14.1	16.3	16.7	16.1	16.3
168°	16.0	15.9	15.8	14.9	*13.2*	13.1	14.2	16.3	17.1	16.6	17.2
169°	16.1	16.2	15.8	14.9	*13.2*	13.1	14.1	16.3	17.6	16.6	17.7
170°	16.1	16.1	15.8	14.8	*13.2*	13.1	14.1	16.3	17.9	16.5	18.4
171°	16.1	16.4	15.8	14.6	*13.2*	13.1	14.1	16.3	18.0	16.5	19.1
172°	16.2	16.2	15.8	14.4	*13.1*	13.1	14.0	16.3	18.5	16.5	19.3
173°	16.2	16.8	15.7	13.9	*13.1*	13.1	14.0	16.7	18.7	16.5	19.3
174°	16.3	16.6	15.6	13.5	*13.1*	13.1	14.0	16.8	18.8	16.5	19.4
175°	16.3	16.9	15.6	13.5	*13.1*	13.1	13.9	16.8	19.0	16.4	19.3
176°	16.3	17.3	15.5	13.4	*13.1*	13.1	13.9	16.8	19.2	16.4	19.1
177°	16.4	17.5	15.4	13.4	*13.1*	13.1	13.9	16.8	19.3	16.4	18.7

Cooper Lighting Solutions Photometric Lab
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Scaled Data Report

TEST NUMBER: P861201
CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 120V

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	16.4	16.4	16.4	16.4	*16.4*	16.4	16.4	16.4	16.4	16.4	16.4

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Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P861201
CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	3424.6	3424.6	3424.6	3424.6	3424.6	3424.6
1°	3420.6	3420.2	3425.8	3424.4	3425.6	3424.4
2°	*3414.2*	*3419.8*	*3423.8*	*3421.8*	*3422.8*	*3422.8*
3°	3411.6	3411.2	3416.6	3416.2	3418.4	3418.2
4°	3404.8	3409.4	3413.0	3414.0	3411.0	3413.4
5°	3399.6	3402.6	3408.2	3412.4	3402.8	3407.0
6°	3390.2	3392.6	3397.6	3398.0	3394.6	3401.2
7°	3384.2	3380.2	3389.8	3391.0	3386.0	3387.6
8°	3372.4	3372.0	3380.4	3385.6	3375.8	3376.0
9°	3361.2	3363.0	3366.4	3374.2	3363.6	3366.2
10°	3344.0	3349.2	3353.4	3361.4	3347.2	3354.0
11°	3330.6	3338.2	3341.4	3347.6	3332.2	3338.8
12°	3320.2	3319.4	3332.6	3333.0	3314.2	3327.6
13°	3306.6	3306.8	3317.4	3322.4	3297.4	3310.2
14°	3287.4	3289.8	3301.2	3304.8	3278.0	3288.0
15°	3268.5	3275.1	3283.8	3286.6	3257.9	3267.7
16°	3246.3	3252.3	3265.5	3266.3	3236.3	3244.3
17°	3228.7	3233.3	3247.9	3246.7	3210.7	3221.7
18°	3204.1	3208.7	3224.5	3222.3	3192.7	3197.3
19°	3181.7	3187.5	3204.7	3198.1	3161.1	3171.3
20°	3159.5	3165.3	3177.7	3177.1	3138.5	3146.7
21°	3136.5	3144.5	3154.9	3146.3	3108.7	3113.9
22°	3109.3	3121.5	3130.5	3127.1	3080.3	3084.3
23°	3085.9	3096.9	3109.1	3094.9	3049.7	3056.7
24°	3056.3	3070.1	3083.3	3064.5	3021.7	3024.3
25°	3032.9	3044.1	3052.5	3030.7	2987.3	2988.9
26°	2998.9	3018.9	3020.1	3002.7	2951.7	2955.3
27°	2971.1	2989.7	2989.5	2969.7	2917.7	2924.5
28°	2942.7	2961.9	2965.5	2936.7	2879.3	2887.5
29°	2913.7	2933.5	2930.3	2903.1	2841.9	2850.7
30°	2880.7	2901.9	2901.1	2866.1	2806.9	2813.9
31°	2853.9	2871.7	2868.7	2832.1	2770.7	2773.7
32°	2816.1	2837.5	2834.1	2791.7	2733.9	2733.1
33°	2784.9	2806.5	2802.9	2755.1	2693.1	2691.3
34°	2752.3	2773.7	2767.9	2719.7	2652.5	2652.3
35°	2719.5	2740.9	2730.3	2684.5	2612.3	2611.7
36°	2680.7	2707.9	2696.3	2643.7	2570.3	2570.1
37°	2642.9	2673.1	2661.9	2604.5	2528.1	2528.5
38°	2609.3	2640.7	2628.5	2563.9	2485.1	2482.7
39°	2578.3	2609.7	2593.5	2519.9	2441.7	2433.9
40°	2546.3	2572.9	2555.1	2482.7	2395.5	2388.7
41°	2503.1	2540.1	2519.5	2441.7	2350.7	2342.1
42°	2467.9	2498.5	2484.3	2400.9	2305.9	2298.1

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Scaled Data Report

TEST NUMBER: P861201
CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	2351.7	2391.3	2368.5	2269.7	2167.5	2158.5
46°	2316.3	2353.9	2327.9	2224.9	2115.3	2109.3
47°	2278.5	2316.1	2290.1	2182.3	2071.3	2059.1
48°	2239.3	2280.1	2248.1	2138.7	2022.9	2009.3
49°	2197.7	2239.1	2207.3	2095.1	1974.7	1959.1
50°	2158.5	2200.1	2163.7	2050.1	1927.3	1909.1
51°	2121.3	2161.5	2124.5	2002.9	1877.4	1858.3
52°	2074.9	2122.3	2081.9	1957.7	1826.2	1807.3
53°	2034.1	2084.3	2042.7	1913.6	1777.5	1756.1
54°	1993.6	2041.9	1997.2	1865.5	1727.8	1704.5
55°	1952.9	2001.9	1957.4	1820.7	1677.8	1652.5
56°	1910.0	1962.3	1914.2	1774.2	1630.1	1602.0
57°	1868.4	1921.8	1871.9	1728.2	1579.0	1551.1
58°	1824.0	1879.4	1827.5	1683.2	1528.4	1501.4
59°	1781.7	1838.7	1782.8	1638.6	1478.7	1450.6
60°	1735.3	1795.7	1740.9	1590.2	1428.4	1397.7
61°	1690.9	1753.8	1695.6	1545.4	1377.0	1343.9
62°	1646.4	1711.9	1650.7	1495.7	1329.4	1292.5
63°	1602.7	1668.7	1605.6	1451.8	1280.1	1239.7
64°	1559.5	1625.2	1561.4	1403.9	1229.1	1185.5
65°	1512.8	1581.6	1517.7	1355.8	1179.2	1132.2
66°	1471.6	1537.3	1471.0	1308.4	1129.5	1079.2
67°	1425.9	1494.6	1425.0	1263.5	1080.2	1025.1
68°	1383.0	1445.3	1382.7	1215.5	1027.9	971.4
69°	1339.3	1402.7	1336.5	1169.0	978.4	917.6
70°	1293.9	1358.0	1292.4	1123.6	931.4	863.5
71°	1248.6	1311.8	1246.9	1075.8	879.9	809.4
72°	1206.3	1268.9	1203.3	1030.9	831.9	757.1
73°	1161.0	1220.8	1156.2	983.1	783.1	705.5
74°	1114.4	1177.8	1112.1	936.7	736.9	651.3
75°	1070.2	1131.5	1068.0	891.7	688.6	599.5
76°	1022.7	1084.8	1024.3	846.5	641.1	546.4
77°	978.4	1037.6	980.5	802.6	596.4	495.8
78°	936.4	990.6	935.0	761.3	551.0	445.2
79°	894.5	946.9	893.0	718.2	508.5	397.3
80°	854.5	902.8	850.7	677.9	466.2	349.8
81°	814.5	859.7	808.7	638.8	425.8	304.4
82°	776.3	819.3	770.1	600.2	387.6	260.2
83°	740.6	781.4	730.2	564.5	351.0	219.8
84°	706.1	745.2	693.8	528.5	315.9	181.3
85°	673.8	710.8	659.9	496.1	282.2	145.8
86°	644.8	682.2	630.1	468.0	253.9	113.8
87°	617.1	655.7	603.8	441.2	228.3	87.7

TEST NUMBER: P861201
CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	560.8	596.5	545.2	385.3	176.7	43.4
91°	543.7	578.8	527.9	371.5	166.3	41.3
92°	528.0	561.2	510.7	357.9	155.6	40.3
93°	511.3	544.3	495.0	343.8	146.8	39.0
94°	495.3	527.8	479.1	329.3	138.7	38.4
95°	478.2	511.8	463.6	316.2	130.4	37.6
96°	462.9	497.4	449.3	304.0	121.8	36.9
97°	446.7	481.8	434.6	292.8	114.5	36.1
98°	432.3	467.4	420.2	281.6	107.5	35.6
99°	417.0	453.3	405.9	270.6	100.6	35.0
100°	402.6	439.4	391.6	259.3	94.5	34.5
101°	389.2	424.8	377.6	247.5	88.8	34.0
102°	373.8	412.7	364.3	237.3	83.2	33.5
103°	360.7	399.0	352.1	227.3	77.6	33.1
104°	346.1	386.3	340.2	216.7	72.5	32.6
105°	332.9	373.5	328.5	206.8	67.7	31.7
106°	320.3	361.1	316.0	196.5	62.8	31.5
107°	307.4	348.4	302.8	187.2	58.6	31.4
108°	294.8	335.2	289.8	177.5	55.1	30.7
109°	282.8	321.9	278.2	168.8	51.2	30.0
110°	269.6	309.5	266.5	160.4	47.3	29.5
111°	258.6	297.2	254.8	152.0	44.2	29.1
112°	247.1	284.3	243.7	144.0	40.5	28.8
113°	236.3	272.7	233.0	136.0	37.6	28.4
114°	225.4	260.1	222.3	128.4	35.0	27.7
115°	214.9	248.3	211.9	120.7	32.4	27.0
116°	204.1	237.3	201.6	113.7	30.7	26.7
117°	194.8	226.3	190.8	106.3	30.2	26.3
118°	184.0	215.8	180.8	99.5	29.7	25.8
119°	174.1	204.9	171.2	92.8	29.3	25.3
120°	164.8	194.4	161.8	86.2	28.8	24.9
121°	154.7	184.2	152.8	80.0	28.3	24.2
122°	146.3	174.3	143.9	73.8	28.1	23.7
123°	137.0	164.6	134.8	67.9	27.4	22.8
124°	128.7	154.9	126.3	61.9	27.1	22.0
125°	120.6	145.8	118.2	56.9	26.7	21.6
126°	111.7	136.7	109.9	51.5	26.0	21.1
127°	103.6	127.8	101.8	46.3	25.7	20.7
128°	95.9	118.9	94.2	41.5	25.0	20.4
129°	87.5	110.2	86.6	36.9	24.5	20.1
130°	80.9	101.7	78.9	32.6	23.8	19.5
131°	73.1	93.8	71.9	28.6	23.2	19.0
132°	65.8	85.9	64.8	25.2	22.5	18.5

TEST NUMBER: P861201
CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	47.0	63.8	46.7	22.0	21.1	17.4
136°	40.9	57.4	40.9	21.6	20.5	17.1
137°	35.4	50.9	35.6	21.1	20.1	16.7
138°	29.9	44.8	30.6	20.6	19.6	16.6
139°	24.7	38.8	25.7	19.9	18.9	16.2
140°	19.9	33.3	21.7	19.5	18.4	15.9
141°	16.4	27.9	19.6	19.0	18.0	15.4
142°	15.5	23.2	19.2	18.6	17.7	15.3
143°	15.1	19.8	18.7	18.3	17.2	15.3
144°	14.4	18.7	18.3	17.8	16.8	15.0
145°	14.2	18.2	18.2	17.0	16.3	14.5
146°	13.7	17.8	17.6	16.9	16.1	14.3
147°	13.7	17.5	17.3	16.0	15.8	14.3
148°	13.5	17.0	16.9	15.8	15.4	13.8
149°	13.2	16.8	16.8	15.5	15.3	13.6
150°	13.0	16.2	16.6	15.3	14.7	13.4
151°	12.1	15.9	16.2	15.1	14.7	13.1
152°	11.8	15.5	15.9	14.8	14.2	13.1
153°	11.2	15.2	15.5	14.6	13.9	12.9
154°	10.7	15.0	15.5	14.6	13.9	13.0
155°	10.9	14.6	15.2	14.6	13.9	13.0
156°	11.0	14.5	14.8	14.6	14.0	13.1
157°	11.1	14.4	14.7	14.6	14.0	13.2
158°	11.3	14.2	14.7	14.6	14.0	13.3
159°	11.4	14.1	14.6	14.6	14.0	13.3
160°	11.5	13.9	14.5	14.6	14.1	13.4
161°	11.6	13.8	14.5	14.6	14.2	13.4
162°	11.8	13.6	14.3	14.6	14.6	13.6
163°	12.1	13.4	14.1	14.6	15.1	13.8
164°	12.3	13.4	14.1	14.6	15.8	13.9
165°	12.7	13.2	14.1	14.6	16.0	14.6
166°	13.0	13.1	14.1	14.6	16.5	15.0
167°	13.2	13.1	14.1	14.7	17.2	15.5
168°	13.3	12.9	14.0	14.7	17.5	16.0
169°	13.5	13.1	14.0	14.7	18.4	16.1
170°	13.7	12.9	14.0	14.8	18.7	16.1
171°	13.9	12.9	14.0	14.9	18.9	16.1
172°	14.6	12.8	14.0	15.8	19.1	16.2
173°	15.3	12.8	14.0	16.3	19.1	16.2
174°	15.6	12.8	14.0	16.5	19.3	16.3
175°	15.5	12.8	14.0	16.9	19.1	16.3
176°	15.5	12.7	13.9	17.0	19.1	16.3
177°	15.5	12.7	13.9	17.2	19.1	16.4

TEST NUMBER: P861201
CATALOG NUMBER: 8APVTLD-SL3C3 HI POWER 3500K 120V

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	16.4	16.4	16.4	16.4	16.4	16.4

Report Generated By 670246072 / DESKTOP-50001EG


0°-180°
45°-225°
90°-270°
135°-315°

43°	2252.7	2333.9	2452.9	2567.5	*2610.9*	2557.7	2432.9	2297.7	2225.3	2254.3	2326.9
44°	2204.7	2291.9	2413.9	2529.3	*2577.7*	2524.1	2398.9	2254.7	2177.3	2209.5	2288.1

88°	67.3	282.9	542.4	728.9	*809.8*	726.3	513.5	248.3	58.8	222.2	430.5
89°	51.6	260.7	515.5	699.5	*776.9*	693.7	486.1	226.5	46.2	205.5	414.1

133°	18.1	22.9	40.5	90.7	*111.9*	86.5	32.4	18.7	15.7	18.0	20.2
134°	17.8	22.2	35.4	82.6	*103.3*	78.5	27.8	18.6	15.2	17.5	17.5

178°	16.4	17.5	15.4	13.4	*13.2*	13.2	13.9	16.8	19.3	16.4	18.2
179°	16.4	17.5	15.4	13.4	*13.2*	13.6	13.9	16.8	19.3	16.4	17.7

43°	2426.5	2461.5	2446.1	2356.3	2257.1	2252.7
44°	2390.7	2426.5	2406.1	2310.9	2214.7	2204.7

88°	595.4	632.6	581.4	419.6	207.9	67.3
89°	577.3	614.0	562.7	401.4	190.0	51.6

133°	59.2	78.4	58.8	23.4	22.2	18.1
134°	53.2	70.6	52.7	22.5	21.5	17.8

178°	15.5	12.5	13.9	17.0	19.1	16.4
179°	15.5	13.4	13.9	17.0	19.4	16.4

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: SP1-2210-820-6

Test Date: 11/10/2022

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

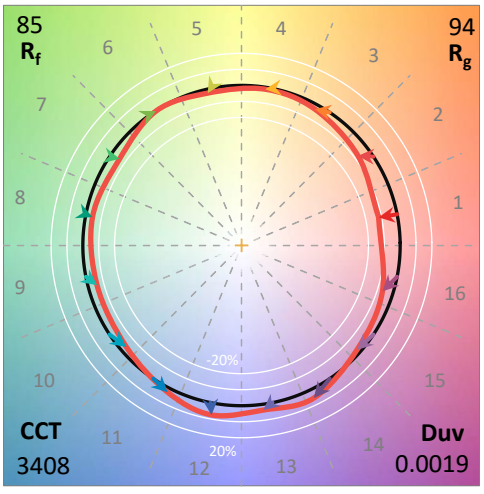
Test Method:	LM-79-2019
Report Number:	SP1-2210-820-6
Test Lab:	COOPER LIGHTING SOLUTIONS
Photometer:	SP1 - 76IN SPHERE
Measurement Geometry:	4π
Issue Date:	11/10/2022
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	METALUX
Catalog Number:	**4APVTLD-SL3C3**
Description:	METALUX

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

Spectral Parameters

CCT (K):	3408	CRI (Ra):	83.5		
CIE u':	0.2372	R1:	81.8	R9:	8.7
CIE v':	0.5156	R2:	91.2	R10:	79.8
Duv:	0.0019	R3:	96.7	R11:	80.9
CIE x:	0.4126	R4:	81.5	R12:	67.5
CIE y:	0.3987	R5:	81.9	R13:	84.2
CIE z:	0.1887	R6:	88.8	R14:	98.7
Peak Wavelength (nm):	601	R7:	84.5		
Dominant Wavelength (nm):	580	R8:	61.7		
Purity:	43.7				

Rf:	85.3
Rg:	94.4



Test Conditions

Stabilization Time:	49M
Operation Time:	12H
Room Temperature (°C) / RH%:	24.0/40%
Sphere Temperature (°C):	24.6

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

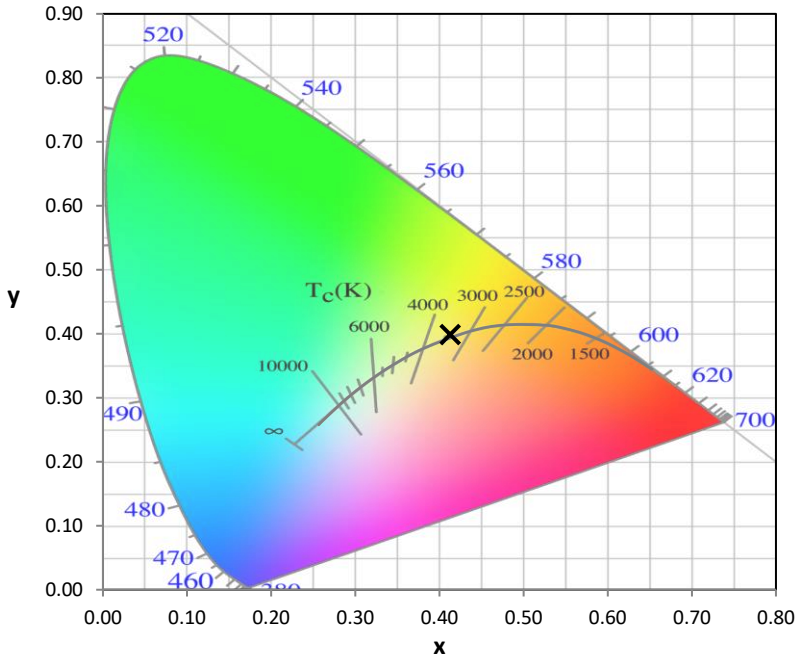
REPORT NUMBER: SP1-2210-820-6

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

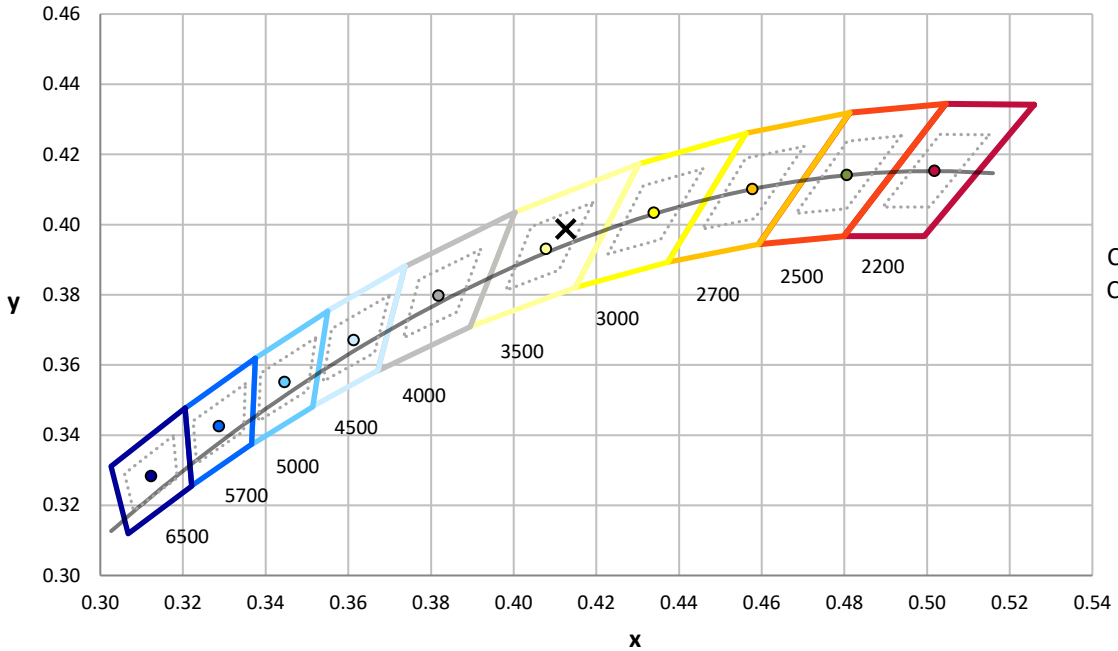
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

REPORT NUMBER: SP1-2210-820-6

CIE 1931 Chromaticity Diagram



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



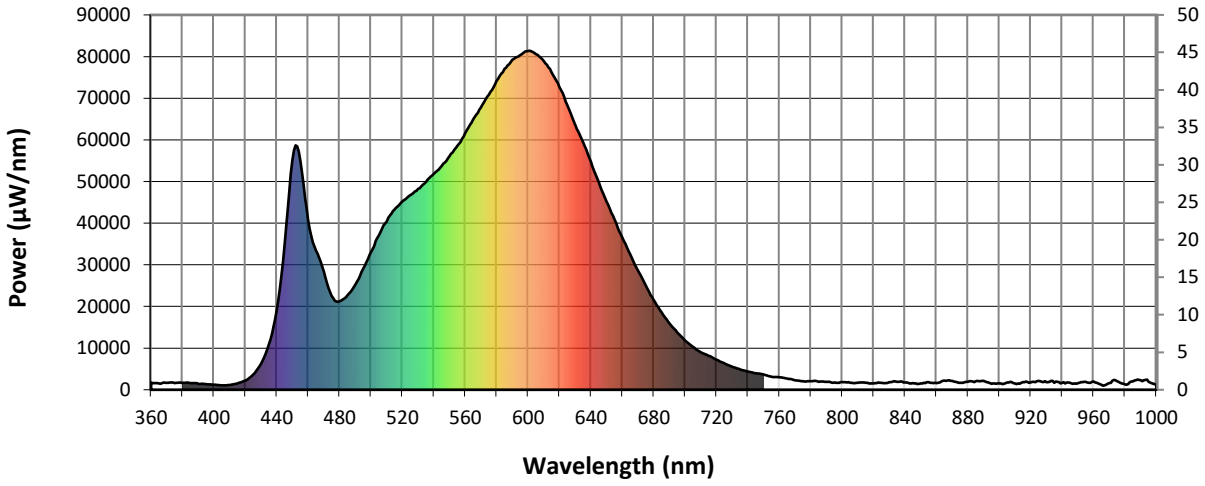
CCT = 3408K
CIE x = 0.4126
CIE y = 0.3987
Duv = 0.0019

Point lies inside the ANSI 3500K 4-step quadrangle

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

REPORT NUMBER: SP1-2210-820-6

Photopic Flux vs. Wavelength



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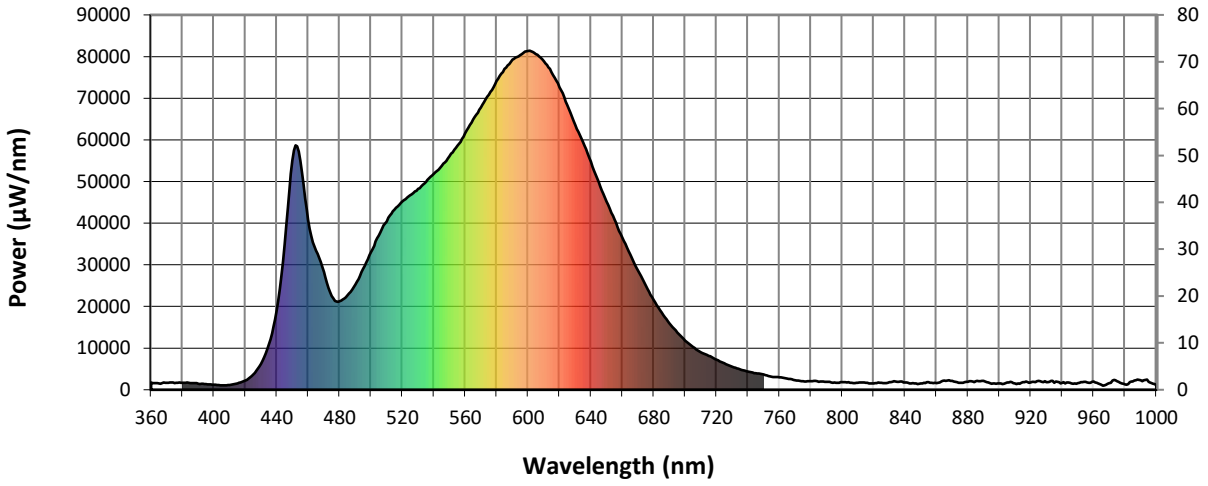
λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)	λ (nm)	Power (µW/nm)	Lumens (ϕ/nm)
360	1712	NR	490	25279	NR	620	72559	NR	750	3648	NR	880	1885	NR
365	1481	NR	495	28999	NR	625	68344	NR	755	3136	NR	885	2021	NR
370	1644	NR	500	33056	NR	630	63583	NR	760	2998	NR	890	2108	NR
375	1623	NR	505	37033	NR	635	59493	NR	765	2676	NR	895	1427	NR
380	1645	NR	510	40418	NR	640	54727	NR	770	2297	NR	900	1507	NR
385	1621	NR	515	43259	NR	645	49751	NR	775	2015	NR	905	1745	NR
390	1416	NR	520	45270	NR	650	45175	NR	780	2057	NR	910	1518	NR
395	1335	NR	525	46700	NR	655	40856	NR	785	1931	NR	915	1797	NR
400	1171	NR	530	48195	NR	660	36522	NR	790	1888	NR	920	1751	NR
405	1087	NR	535	49899	NR	665	32492	NR	795	1719	NR	925	2148	NR
410	1128	NR	540	51817	NR	670	28639	NR	800	1850	NR	930	1788	NR
415	1537	NR	545	53742	NR	675	24935	NR	805	1695	NR	935	1669	NR
420	2184	NR	550	56068	NR	680	21545	NR	810	1670	NR	940	1689	NR
425	3633	NR	555	58585	NR	685	18549	NR	815	1706	NR	945	1665	NR
430	6234	NR	560	61564	NR	690	15988	NR	820	1546	NR	950	1581	NR
435	10932	NR	565	64869	NR	695	13736	NR	825	1698	NR	955	1871	NR
440	19071	NR	570	67781	NR	700	11828	NR	830	1806	NR	960	1959	NR
445	34944	NR	575	70790	NR	705	10309	NR	835	1898	NR	965	1234	NR
450	55079	NR	580	74093	NR	710	8996	NR	840	1728	NR	970	1554	NR
455	55014	NR	585	77038	NR	715	8158	NR	845	1560	NR	975	2051	NR
460	40875	NR	590	79245	NR	720	7196	NR	850	1537	NR	980	1293	NR
465	33423	NR	595	80333	NR	725	6341	NR	855	1800	NR	985	1966	NR
470	28260	NR	600	81356	NR	730	5528	NR	860	1572	NR	990	2266	NR
475	22526	NR	605	80555	NR	735	4932	NR	865	2177	NR	995	1885	NR
480	21265	NR	610	78876	NR	740	4365	NR	870	2099	NR	1000	1088	NR
485	22618	NR	615	76232	NR	745	3964	NR	875	1631	NR			

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

REPORT NUMBER: SP1-2210-820-6

Scotopic Flux vs. Wavelength



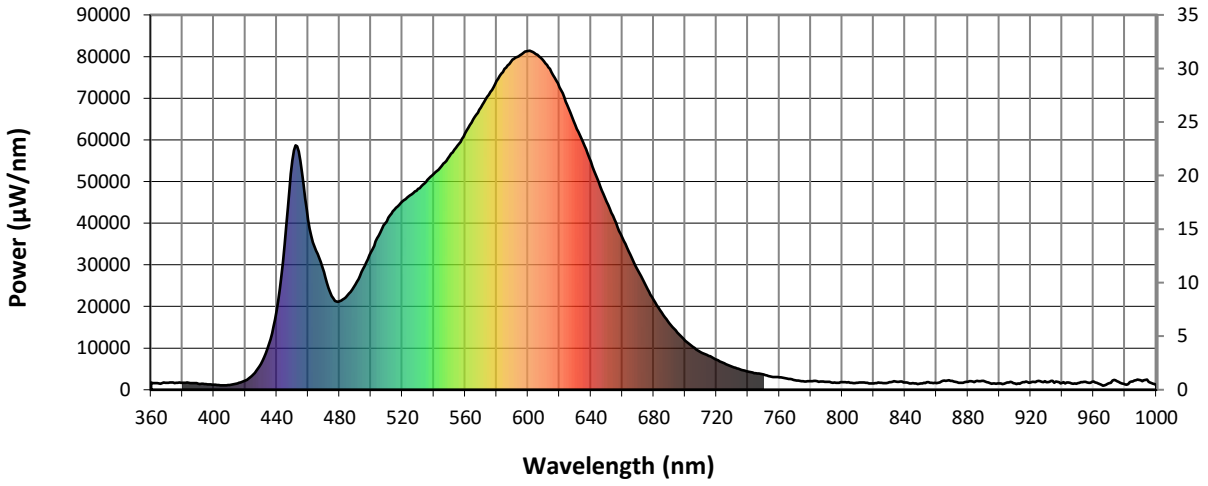
Scotopic Lumens: 6512.6 **S/P: 1.52**

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	1712	NR	490	25279	NR	620	72559	NR	750	3648	NR	880	1885	NR
365	1481	NR	495	28999	NR	625	68344	NR	755	3136	NR	885	2021	NR
370	1644	NR	500	33056	NR	630	63583	NR	760	2998	NR	890	2108	NR
375	1623	NR	505	37033	NR	635	59493	NR	765	2676	NR	895	1427	NR
380	1645	NR	510	40418	NR	640	54727	NR	770	2297	NR	900	1507	NR
385	1621	NR	515	43259	NR	645	49751	NR	775	2015	NR	905	1745	NR
390	1416	NR	520	45270	NR	650	45175	NR	780	2057	NR	910	1518	NR
395	1335	NR	525	46700	NR	655	40856	NR	785	1931	NR	915	1797	NR
400	1171	NR	530	48195	NR	660	36522	NR	790	1888	NR	920	1751	NR
405	1087	NR	535	49899	NR	665	32492	NR	795	1719	NR	925	2148	NR
410	1128	NR	540	51817	NR	670	28639	NR	800	1850	NR	930	1788	NR
415	1537	NR	545	53742	NR	675	24935	NR	805	1695	NR	935	1669	NR
420	2184	NR	550	56068	NR	680	21545	NR	810	1670	NR	940	1689	NR
425	3633	NR	555	58585	NR	685	18549	NR	815	1706	NR	945	1665	NR
430	6234	NR	560	61564	NR	690	15988	NR	820	1546	NR	950	1581	NR
435	10932	NR	565	64869	NR	695	13736	NR	825	1698	NR	955	1871	NR
440	19071	NR	570	67781	NR	700	11828	NR	830	1806	NR	960	1959	NR
445	34944	NR	575	70790	NR	705	10309	NR	835	1898	NR	965	1234	NR
450	55079	NR	580	74093	NR	710	8996	NR	840	1728	NR	970	1554	NR
455	55014	NR	585	77038	NR	715	8158	NR	845	1560	NR	975	2051	NR
460	40875	NR	590	79245	NR	720	7196	NR	850	1537	NR	980	1293	NR
465	33423	NR	595	80333	NR	725	6341	NR	855	1800	NR	985	1966	NR
470	28260	NR	600	81356	NR	730	5528	NR	860	1572	NR	990	2266	NR
475	22526	NR	605	80555	NR	735	4932	NR	865	2177	NR	995	1885	NR
480	21265	NR	610	78876	NR	740	4365	NR	870	2099	NR	1000	1088	NR
485	22618	NR	615	76232	NR	745	3964	NR	875	1631	NR			

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

REPORT NUMBER: SP1-2210-820-6

Melanopic Flux vs. Wavelength



Melanopic Lumens: 2558.7 **S/P: 0.6**

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	1712	NR	490	25279	NR	620	72559	NR	750	3648	NR	880	1885	NR
365	1481	NR	495	28999	NR	625	68344	NR	755	3136	NR	885	2021	NR
370	1644	NR	500	33056	NR	630	63583	NR	760	2998	NR	890	2108	NR
375	1623	NR	505	37033	NR	635	59493	NR	765	2676	NR	895	1427	NR
380	1645	NR	510	40418	NR	640	54727	NR	770	2297	NR	900	1507	NR
385	1621	NR	515	43259	NR	645	49751	NR	775	2015	NR	905	1745	NR
390	1416	NR	520	45270	NR	650	45175	NR	780	2057	NR	910	1518	NR
395	1335	NR	525	46700	NR	655	40856	NR	785	1931	NR	915	1797	NR
400	1171	NR	530	48195	NR	660	36522	NR	790	1888	NR	920	1751	NR
405	1087	NR	535	49899	NR	665	32492	NR	795	1719	NR	925	2148	NR
410	1128	NR	540	51817	NR	670	28639	NR	800	1850	NR	930	1788	NR
415	1537	NR	545	53742	NR	675	24935	NR	805	1695	NR	935	1669	NR
420	2184	NR	550	56068	NR	680	21545	NR	810	1670	NR	940	1689	NR
425	3633	NR	555	58585	NR	685	18549	NR	815	1706	NR	945	1665	NR
430	6234	NR	560	61564	NR	690	15988	NR	820	1546	NR	950	1581	NR
435	10932	NR	565	64869	NR	695	13736	NR	825	1698	NR	955	1871	NR
440	19071	NR	570	67781	NR	700	11828	NR	830	1806	NR	960	1959	NR
445	34944	NR	575	70790	NR	705	10309	NR	835	1898	NR	965	1234	NR
450	55079	NR	580	74093	NR	710	8996	NR	840	1728	NR	970	1554	NR
455	55014	NR	585	77038	NR	715	8158	NR	845	1560	NR	975	2051	NR
460	40875	NR	590	79245	NR	720	7196	NR	850	1537	NR	980	1293	NR
465	33423	NR	595	80333	NR	725	6341	NR	855	1800	NR	985	1966	NR
470	28260	NR	600	81356	NR	730	5528	NR	860	1572	NR	990	2266	NR
475	22526	NR	605	80555	NR	735	4932	NR	865	2177	NR	995	1885	NR
480	21265	NR	610	78876	NR	740	4365	NR	870	2099	NR	1000	1088	NR
485	22618	NR	615	76232	NR	745	3964	NR	875	1631	NR			

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

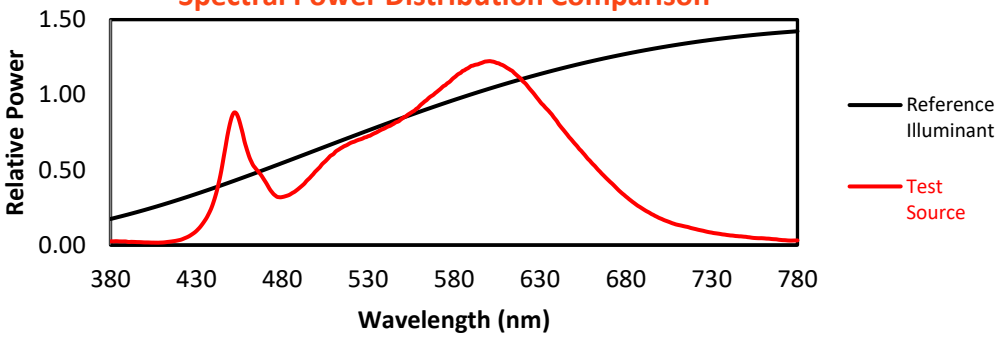
REPORT NUMBER: SP1-2210-820-6

TM-30-18

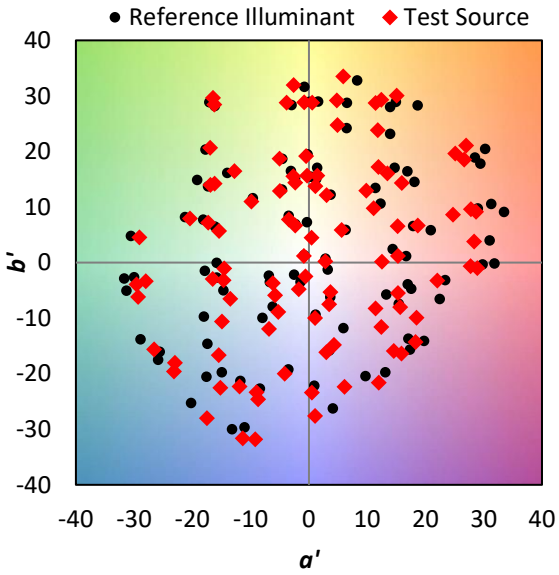
Summary

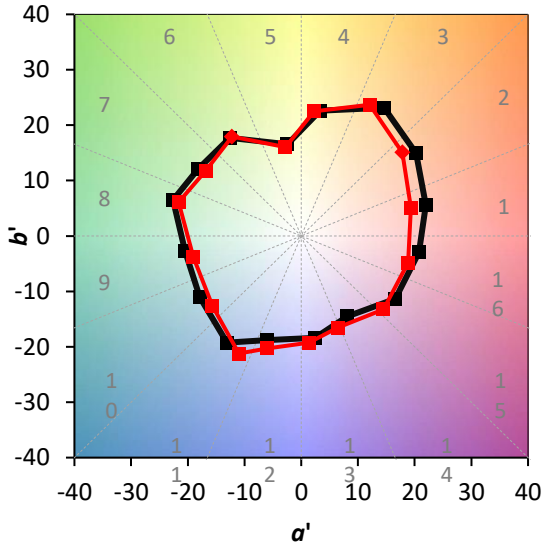
R_f = 85.3
R_g = 94.4
CIE R_a = 83.5
R_9 = 8.7

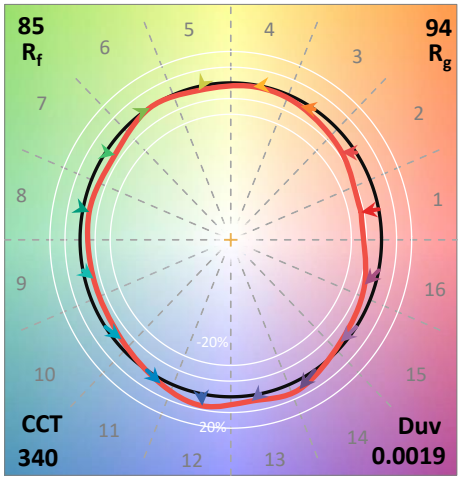
Spectral Power Distribution Comparison

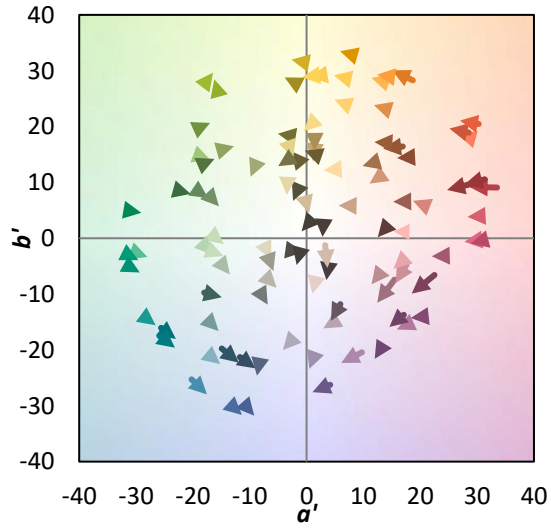


Color Vector Graphics









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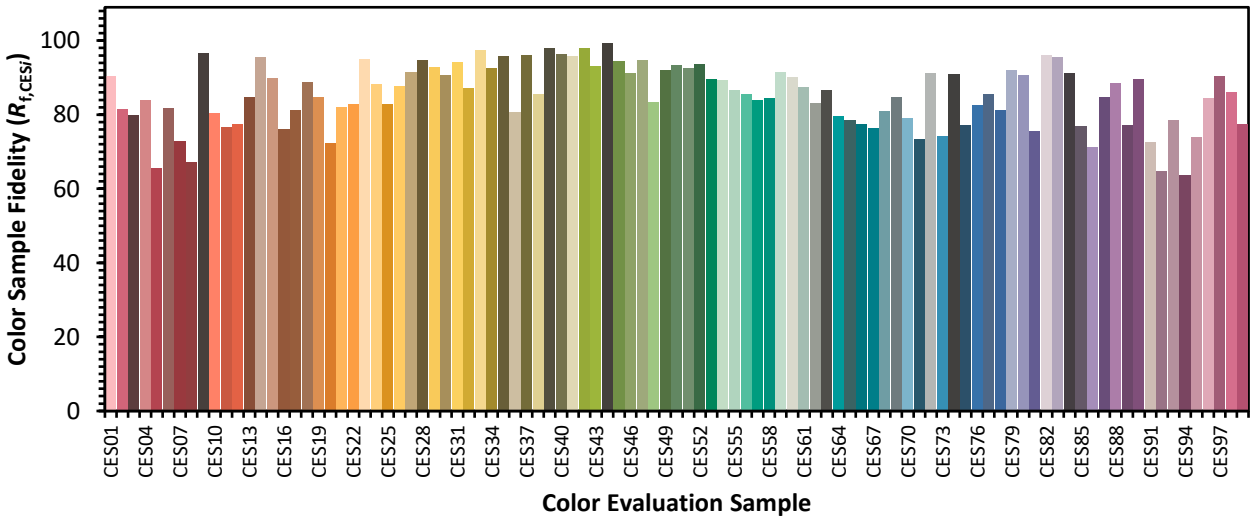
Individual Sample Fidelity Index ($R_{f,i}$)

CES01 = 86	CES26 = 88	CES51 = 93	CES76 = 82
CES02 = 62	CES27 = 91	CES52 = 94	CES77 = 85
CES03 = 31	CES28 = 95	CES53 = 90	CES78 = 81
CES04 = 70	CES29 = 93	CES54 = 89	CES79 = 92
CES05 = 49	CES30 = 91	CES55 = 87	CES80 = 90
CES06 = 51	CES31 = 94	CES56 = 86	CES81 = 76
CES07 = 41	CES32 = 87	CES57 = 84	CES82 = 96
CES08 = 40	CES33 = 97	CES58 = 85	CES83 = 95
CES09 = 29	CES34 = 93	CES59 = 91	CES84 = 91
CES10 = 75	CES35 = 96	CES60 = 90	CES85 = 77
CES11 = 58	CES36 = 81	CES61 = 87	CES86 = 71
CES12 = 64	CES37 = 96	CES62 = 83	CES87 = 85
CES13 = 43	CES38 = 85	CES63 = 87	CES88 = 88
CES14 = 74	CES39 = 98	CES64 = 80	CES89 = 77
CES15 = 71	CES40 = 96	CES65 = 78	CES90 = 90
CES16 = 47	CES41 = 96	CES66 = 77	CES91 = 73
CES17 = 50	CES42 = 98	CES67 = 76	CES92 = 65
CES18 = 56	CES43 = 93	CES68 = 81	CES93 = 79
CES19 = 72	CES44 = 99	CES69 = 85	CES94 = 64
CES20 = 66	CES45 = 94	CES70 = 79	CES95 = 74
CES21 = 86	CES46 = 91	CES71 = 73	CES96 = 84
CES22 = 78	CES47 = 95	CES72 = 91	CES97 = 90
CES23 = 92	CES48 = 83	CES73 = 74	CES98 = 86
CES24 = 90	CES49 = 92	CES74 = 91	CES99 = 77
CES25 = 72	CES50 = 93	CES75 = 77	



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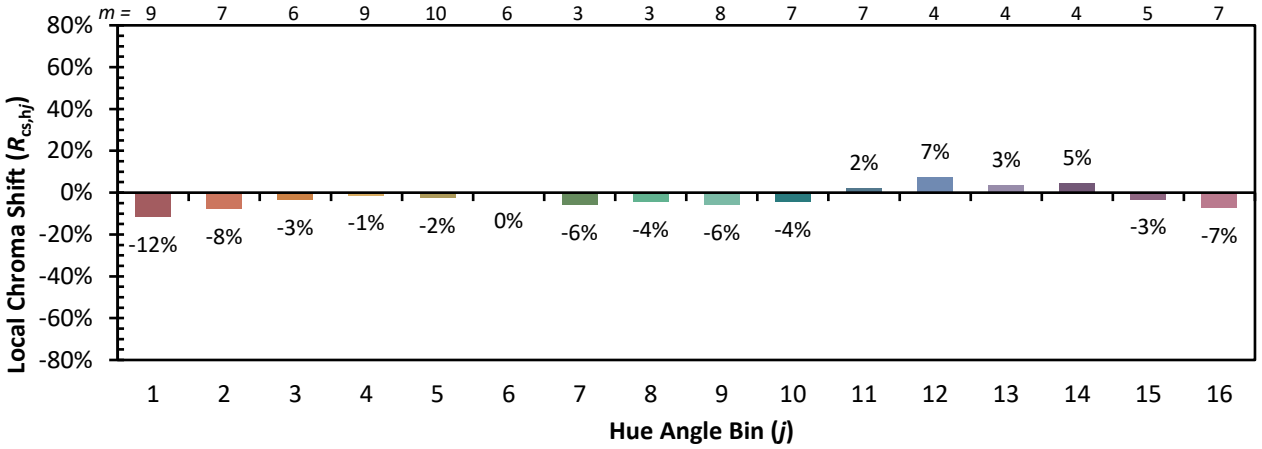
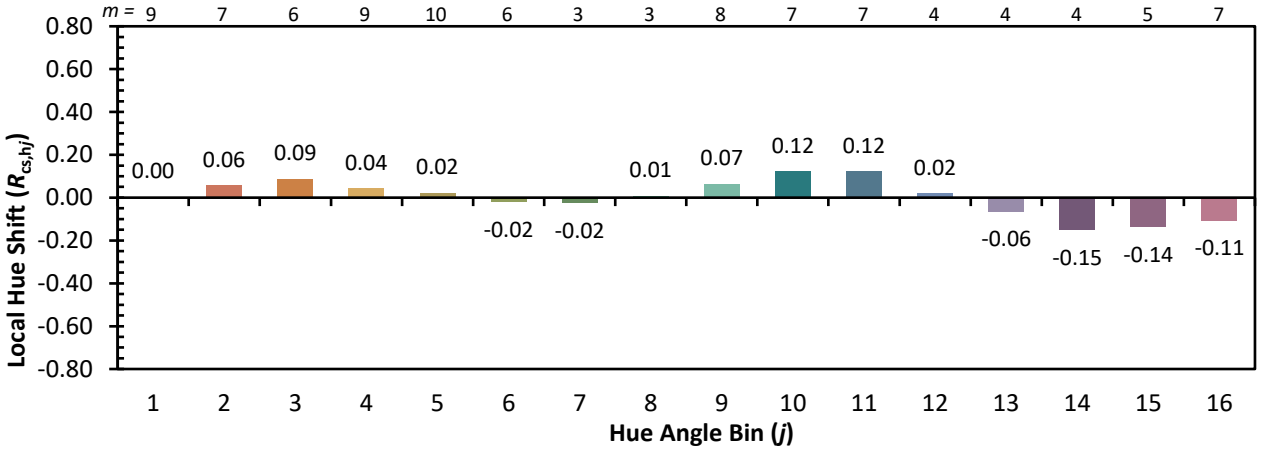
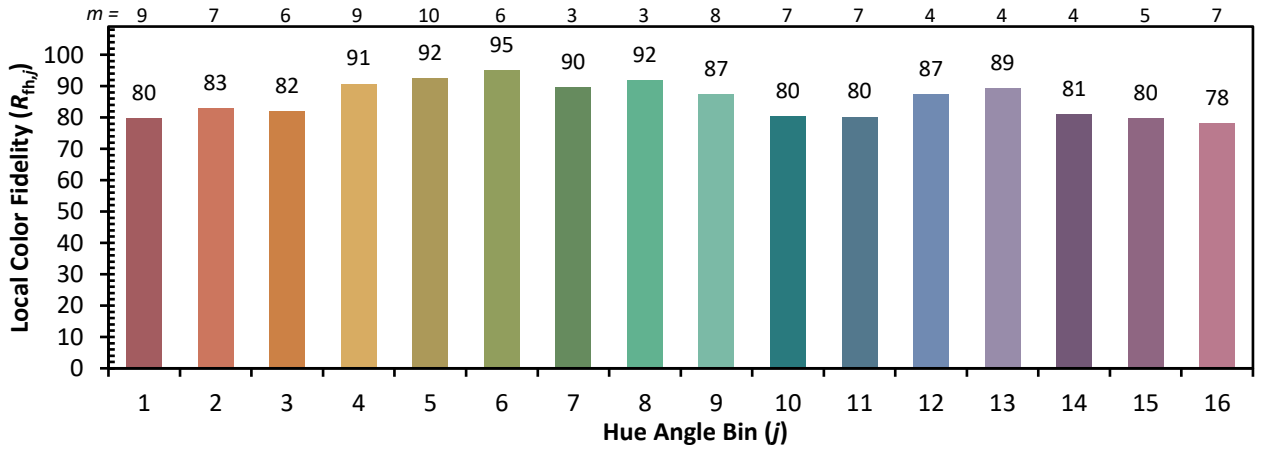
Color Rendition by Hue-Angle Bin







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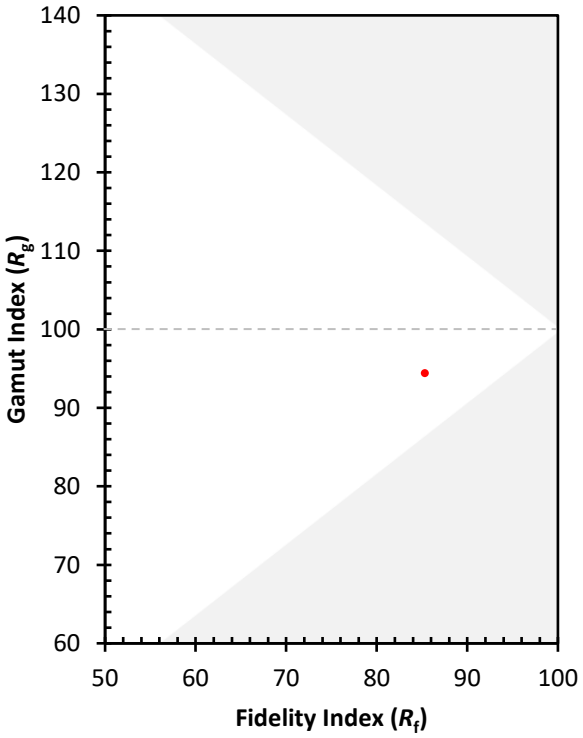
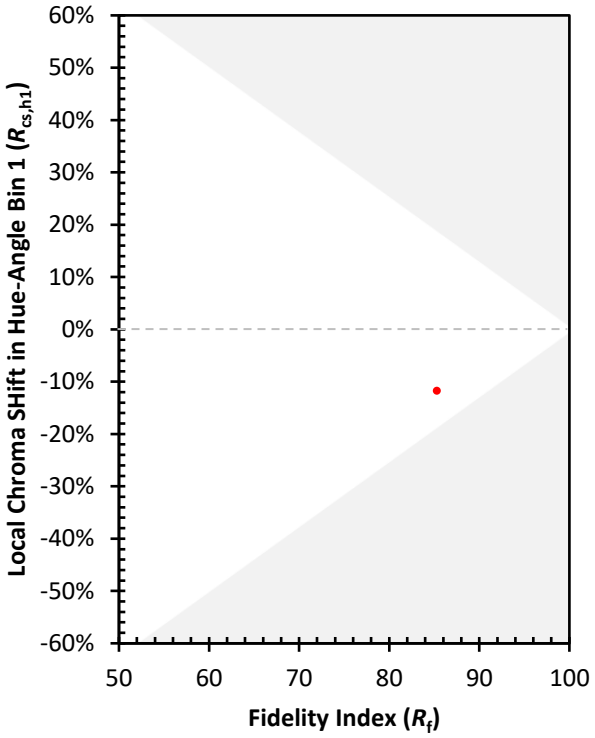
Measure Comparisons





(END OF REPORT)