

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: P837746

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-3LO-35-120-EDD**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P837746
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-ASY2R-LD4-3LO-35-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

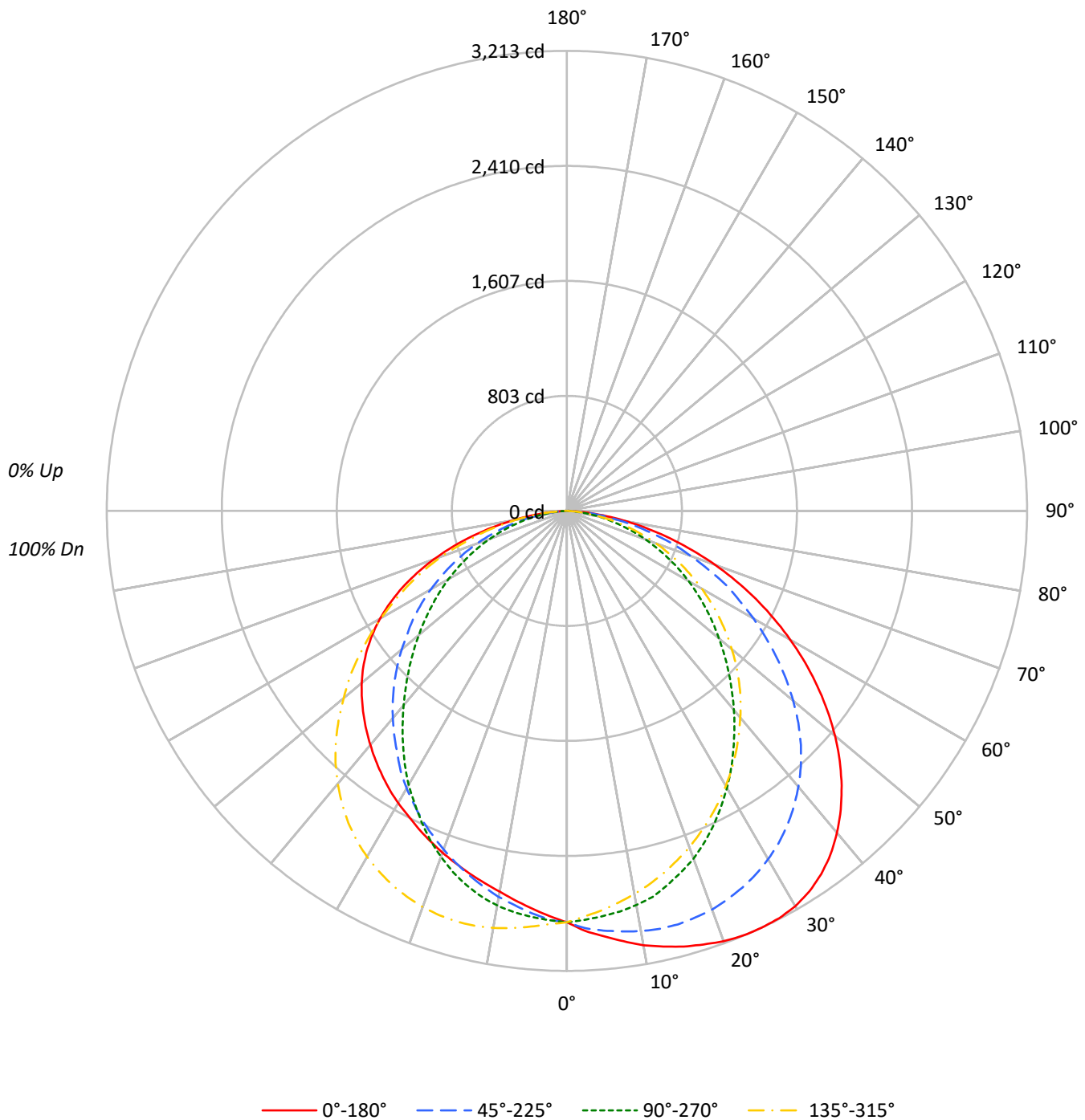
Lumens per Lamp: N/A
Luminaire Lumens: 8429.6 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7732	7732	7732	7732
5°	8058	7676	7531	7689
10°	8417	7637	7379	7648
15°	8778	7539	7306	7541
20°	9161	7403	7274	7361
25°	9540	7196	7273	7122
30°	9909	6945	7322	6868
35°	10172	6660	7396	6554
40°	10307	6373	7498	6230
45°	10327	6083	7644	5930
50°	10230	5805	7831	5651
55°	10018	5547	8006	5393
60°	9703	5277	8112	5140
65°	9269	4967	8070	4852
70°	8659	4604	7783	4519
75°	7791	4105	7143	4083
80°	6606	3437	6003	3490
85°	4594	2276	3807	2337

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.8	3.2
10°-20°	789.9	9.4
20°-30°	1210.6	14.4
30°-40°	1472.0	17.5
40°-50°	1530.3	18.2
50°-60°	1382.3	16.4
60°-70°	1050.9	12.5
70°-80°	585.9	7.0
80°-90°	134.9	1.6
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°-30°	2273.4	27.0
0°-40°	3745.4	44.4
0°-60°	6658.0	79.0
0°-90°	8429.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8429.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2873	2873	2873	2873	2873	
5°	2983	2842	2788	2846	2983	288
15°	3151	2706	2623	2707	3151	893
25°	3213	2424	2450	2399	3213	1484
35°	3096	2027	2251	1995	3096	1934
45°	2714	1598	2009	1558	2714	2089
55°	2135	1182	1706	1149	2135	1906
65°	1456	780	1267	762	1456	1439
75°	749	395	687	393	749	796
85°	149	74	123	76	149	187
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2
2.5°	2936.9	2894.0	2894.7	2932.2	2903.4	2917.5	2877.2	2892.7	2888.0	2891.3	2858.5
5°	2983.1	2936.9	2936.2	2968.4	2936.2	2942.3	2891.3	2901.4	2886.6	2877.2	2841.7
7.5°	3032.1	2985.8	2981.1	3009.3	2967.0	2962.4	2906.1	2906.1	2879.3	2855.8	2822.3
10°	3080.3	3032.7	3026.7	3048.1	2995.9	2980.5	2912.1	2901.4	2865.8	2831.0	2794.8
12.5°	3116.5	3068.3	3063.6	3077.0	3018.0	2989.8	2912.1	2891.3	2839.0	2790.1	2762.0
15°	3150.7	3101.1	3088.4	3095.1	3027.4	2989.8	2902.7	2870.5	2803.5	2739.2	2706.3
17.5°	3174.8	3127.2	3114.5	3113.8	3032.1	2978.4	2882.6	2838.4	2757.9	2680.2	2647.4
20°	3198.9	3151.4	3135.3	3123.2	3030.7	2963.0	2853.1	2793.5	2699.6	2612.5	2585.0
22.5°	3211.0	3162.1	3144.7	3126.6	3022.0	2934.9	2816.9	2741.2	2634.0	2530.1	2507.3
25°	3213.0	3162.8	3144.0	3117.8	3004.6	2901.4	2770.0	2678.2	2558.2	2442.9	2423.5
27.5°	3207.7	3152.7	3133.9	3102.4	2978.4	2860.5	2714.4	2606.5	2477.8	2350.5	2329.7
30°	3188.9	3133.3	3115.2	3074.3	2941.6	2810.2	2653.4	2526.7	2388.7	2253.3	2235.2
32.5°	3151.4	3097.1	3082.3	3041.4	2901.4	2751.9	2582.3	2440.9	2290.1	2160.8	2134.0
35°	3096.4	3042.1	3032.7	2989.8	2845.1	2682.2	2504.6	2347.1	2185.6	2053.5	2027.4
37.5°	3024.7	2979.1	2965.0	2922.8	2778.7	2603.1	2415.5	2245.2	2079.0	1936.9	1920.8
40°	2934.2	2891.3	2880.6	2843.1	2701.6	2515.3	2318.9	2140.0	1969.1	1837.1	1814.3
42.5°	2831.0	2790.8	2784.8	2745.9	2606.5	2418.1	2214.4	2030.8	1854.5	1727.1	1704.4
45°	2713.7	2674.8	2673.5	2636.6	2502.6	2310.2	2104.5	1920.2	1742.6	1610.5	1598.5
47.5°	2584.4	2549.5	2549.5	2515.3	2386.6	2191.6	1991.2	1804.9	1630.0	1513.3	1491.9
50°	2443.6	2410.8	2400.7	2384.0	2258.6	2062.3	1871.9	1692.3	1518.7	1407.5	1386.7
52.5°	2293.5	2265.3	2272.0	2241.2	2119.9	1927.5	1751.3	1565.6	1406.8	1305.6	1284.8
55°	2135.3	2095.1	2101.1	2089.7	1975.1	1788.8	1615.9	1461.1	1296.9	1201.7	1182.3
57.5°	1971.1	1918.8	1940.3	1933.6	1821.0	1646.7	1491.9	1342.4	1187.6	1099.8	1081.1
60°	1802.9	1752.6	1774.7	1768.7	1662.8	1504.6	1363.9	1225.2	1079.0	999.3	980.5
62.5°	1630.0	1583.7	1603.8	1599.1	1502.0	1359.2	1236.5	1109.2	969.8	898.1	880.7
65°	1455.7	1411.5	1429.6	1426.2	1336.4	1227.8	1105.9	989.2	859.9	797.6	780.1
67.5°	1277.4	1236.5	1253.3	1253.3	1170.9	1067.0	974.5	867.9	752.0	698.4	682.3
70°	1100.5	1062.3	1077.0	1075.7	1006.0	921.5	841.8	746.6	642.7	598.5	585.1
72.5°	922.2	888.7	902.1	900.8	842.5	788.2	709.1	626.7	536.2	500.7	488.6
75°	749.3	717.8	730.5	729.2	681.6	630.7	577.7	509.4	431.6	406.8	394.8
77.5°	584.4	552.3	563.0	563.0	528.1	491.3	449.0	396.1	341.1	314.3	305.6
80°	426.3	410.8	405.5	406.2	382.7	358.6	337.1	286.2	246.0	227.9	221.8
82.5°	280.2	267.4	262.1	263.4	250.0	235.2	221.8	186.3	159.5	148.8	145.4
85°	148.8	139.4	134.7	138.1	135.4	127.3	120.6	96.5	79.8	75.7	73.7
87.5°	46.9	40.9	37.5	49.6	42.2	37.5	36.2	28.8	22.1	22.1	21.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2
2.5°	2869.2	2869.2	2843.1	2837.0	2834.3	2837.7	2811.6	2806.9	2844.4	2831.7	2802.8
5°	2846.4	2845.1	2808.2	2801.5	2801.5	2797.5	2768.0	2761.3	2798.8	2788.1	2756.6
7.5°	2818.3	2814.2	2770.7	2766.0	2759.3	2756.6	2723.8	2719.1	2751.2	2744.5	2715.0
10°	2784.1	2780.1	2728.5	2725.1	2717.7	2712.4	2681.5	2678.2	2711.0	2700.3	2676.8
12.5°	2739.2	2731.8	2678.9	2675.5	2669.5	2667.5	2637.3	2636.0	2672.2	2661.4	2636.6
15°	2680.2	2674.2	2615.2	2616.5	2617.2	2617.2	2593.1	2591.7	2627.2	2622.6	2595.7
17.5°	2615.2	2607.1	2550.8	2554.9	2559.6	2564.9	2546.2	2549.5	2587.0	2581.0	2556.9
20°	2541.5	2533.4	2478.5	2489.9	2499.9	2510.6	2498.6	2508.0	2542.8	2540.1	2522.0
22.5°	2459.0	2451.0	2400.0	2417.5	2434.2	2454.3	2449.0	2459.7	2496.6	2495.9	2479.8
25°	2358.5	2360.5	2315.6	2337.0	2365.2	2393.3	2395.4	2412.8	2453.7	2449.6	2434.9
27.5°	2264.7	2267.3	2219.8	2255.9	2293.5	2329.7	2338.4	2362.5	2404.1	2400.7	2388.0
30°	2166.1	2169.5	2123.2	2172.8	2218.4	2262.7	2281.4	2314.3	2356.5	2356.5	2343.1
32.5°	2063.6	2069.6	2021.4	2087.7	2140.7	2192.3	2225.1	2259.3	2307.6	2306.2	2294.8
35°	1958.4	1965.1	1920.8	2005.3	2058.2	2121.2	2162.1	2207.7	2250.6	2251.3	2242.5
37.5°	1851.1	1859.2	1819.0	1911.5	1971.8	2046.2	2098.4	2144.0	2191.6	2194.3	2186.2
40°	1744.6	1753.3	1718.4	1807.6	1884.0	1967.1	2027.4	2081.0	2133.3	2134.6	2129.3
42.5°	1638.0	1647.4	1621.3	1708.4	1794.8	1884.0	1955.0	2016.0	2069.6	2073.0	2066.9
45°	1534.1	1542.2	1523.4	1618.6	1701.7	1798.9	1880.6	1949.7	2003.9	2008.6	2006.6
47.5°	1430.9	1438.3	1421.5	1508.7	1604.5	1707.7	1802.2	1878.6	1936.3	1941.6	1940.3
50°	1329.7	1335.7	1317.6	1408.8	1504.0	1613.9	1712.4	1800.9	1865.2	1870.6	1869.9
52.5°	1229.2	1235.2	1219.8	1315.6	1402.1	1518.0	1625.3	1721.1	1784.8	1792.8	1794.2
55°	1132.0	1134.7	1122.6	1214.4	1298.2	1419.5	1542.8	1636.0	1699.7	1706.4	1710.4
57.5°	1034.8	1035.5	1025.4	1113.2	1193.7	1317.6	1447.0	1544.8	1605.2	1611.9	1617.9
60°	938.3	937.6	926.2	1011.4	1088.4	1211.1	1345.8	1443.0	1501.3	1507.3	1515.4
62.5°	842.5	840.5	830.4	908.8	981.2	1102.5	1237.9	1331.7	1387.3	1391.4	1402.1
65°	747.3	745.3	735.9	808.3	874.0	989.9	1122.6	1211.8	1262.0	1267.4	1265.4
67.5°	653.5	649.4	642.1	707.1	766.7	874.0	1001.3	1086.4	1128.0	1132.7	1145.4
70°	559.6	554.9	538.2	607.2	659.5	755.3	874.0	949.7	984.5	989.2	987.2
72.5°	467.1	462.4	444.4	508.0	552.3	636.0	741.9	804.9	835.1	839.1	839.1
75°	377.3	374.7	363.3	411.5	448.4	516.7	606.5	658.8	682.3	687.0	685.6
77.5°	290.9	288.9	277.5	319.0	347.8	398.8	471.2	512.0	529.5	534.8	546.2
80°	208.4	207.8	189.7	230.6	243.3	286.2	339.1	370.6	380.0	387.4	395.4
82.5°	133.4	134.0	115.9	150.8	156.2	183.6	216.5	235.9	242.6	248.7	254.7
85°	65.0	67.7	57.6	79.8	80.4	94.5	108.6	115.9	118.6	123.3	128.7
87.5°	16.8	19.4	10.7	22.8	20.1	26.1	30.2	32.2	31.5	34.9	36.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2
2.5°	2812.2	2833.7	2823.0	2857.8	2871.2	2849.8	2887.3	2888.0	2861.2	2892.7	2910.1
5°	2768.7	2790.8	2784.1	2820.3	2837.0	2818.3	2863.8	2872.5	2846.4	2881.9	2910.1
7.5°	2724.4	2750.6	2741.9	2778.7	2798.8	2784.1	2833.0	2847.1	2827.0	2865.8	2903.4
10°	2686.2	2708.3	2699.0	2737.8	2755.3	2743.2	2791.5	2817.6	2798.8	2846.4	2891.3
12.5°	2648.7	2666.8	2656.1	2688.2	2705.0	2689.6	2748.6	2772.7	2759.3	2808.9	2866.5
15°	2600.4	2620.5	2605.8	2634.6	2647.4	2634.0	2682.2	2723.8	2707.0	2761.3	2825.0
17.5°	2563.6	2575.0	2554.9	2577.7	2585.0	2566.9	2615.9	2656.7	2644.7	2703.7	2777.4
20°	2522.7	2532.1	2503.9	2516.7	2516.0	2493.2	2538.1	2578.3	2570.3	2635.3	2719.1
22.5°	2477.1	2481.8	2449.0	2451.7	2450.3	2412.8	2453.0	2493.9	2490.5	2556.2	2650.0
25°	2428.9	2429.5	2387.3	2386.0	2371.2	2327.0	2362.5	2408.8	2398.7	2469.7	2568.3
27.5°	2381.3	2374.6	2323.6	2311.6	2288.1	2235.2	2266.7	2308.2	2302.2	2371.9	2481.1
30°	2330.3	2321.6	2259.3	2237.2	2203.0	2142.0	2168.2	2207.0	2210.4	2271.4	2386.0
32.5°	2282.1	2260.0	2190.9	2158.8	2115.9	2044.8	2058.9	2098.4	2103.8	2165.5	2283.4
35°	2219.8	2205.0	2119.9	2064.9	2022.7	1945.0	1959.7	1987.2	1995.2	2055.6	2175.5
37.5°	2160.8	2137.3	2046.8	1979.8	1925.5	1843.8	1847.8	1875.9	1884.0	1945.0	2063.6
40°	2099.8	2066.3	1969.1	1890.7	1828.4	1742.6	1737.9	1767.4	1773.4	1833.0	1940.3
42.5°	2034.8	1994.6	1885.3	1799.5	1727.8	1640.7	1631.3	1656.8	1663.5	1721.8	1827.0
45°	1969.1	1920.8	1799.5	1705.7	1627.3	1538.1	1528.8	1548.2	1558.3	1613.2	1714.4
47.5°	1899.4	1843.1	1711.1	1606.5	1525.4	1436.3	1424.9	1444.3	1452.4	1506.6	1602.5
50°	1826.3	1758.0	1619.9	1504.6	1424.2	1336.4	1319.7	1342.4	1349.8	1400.8	1494.6
52.5°	1745.9	1670.2	1522.7	1402.1	1321.7	1237.9	1217.8	1239.9	1248.6	1298.2	1384.7
55°	1660.8	1579.0	1424.9	1307.6	1220.5	1138.7	1121.9	1130.7	1149.4	1196.3	1276.8
57.5°	1565.0	1483.9	1321.7	1202.4	1118.6	1040.2	1026.1	1034.1	1051.6	1097.1	1169.5
60°	1463.1	1377.3	1216.4	1097.1	1016.0	941.7	928.9	936.3	955.1	996.6	1063.6
62.5°	1362.6	1266.0	1107.9	989.2	915.5	846.5	843.1	840.5	857.9	898.1	957.1
65°	1240.6	1148.1	994.6	882.0	815.0	752.7	739.2	745.3	762.0	798.9	860.6
67.5°	1109.9	1026.1	878.7	774.8	715.1	659.5	648.1	650.8	668.2	700.4	754.0
70°	971.1	897.4	760.0	666.9	616.6	564.3	557.0	557.6	574.4	602.5	649.4
72.5°	825.7	759.4	640.1	560.3	518.7	481.2	474.5	466.5	481.9	506.0	546.2
75°	677.6	619.3	520.8	455.7	422.9	391.4	385.4	377.3	392.7	413.5	445.0
77.5°	528.1	481.2	404.8	354.5	329.1	305.6	300.3	291.5	307.0	322.4	347.2
80°	382.0	347.8	302.3	249.3	240.6	225.2	219.8	210.4	225.2	235.2	254.0
82.5°	246.6	223.9	197.7	160.9	159.5	148.1	145.4	134.7	148.1	154.1	168.2
85°	124.7	113.9	107.2	81.8	84.4	77.1	76.4	65.0	75.7	78.4	86.5
87.5°	35.5	37.5	33.5	20.1	25.5	24.1	24.1	17.4	24.1	24.1	27.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P837746

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-3LO-35-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2	2873.2
2.5°	2875.9	2887.3	2890.0	2889.3	2896.7	2936.9	2923.5	2936.9
5°	2882.6	2908.1	2914.8	2924.2	2936.2	2981.8	2967.0	2983.1
7.5°	2886.6	2924.8	2939.6	2957.7	2977.1	3028.0	3016.0	3032.1
10°	2886.6	2936.2	2957.7	2987.8	3014.0	3072.9	3061.6	3080.3
12.5°	2874.6	2938.2	2968.4	3010.6	3044.1	3107.8	3103.1	3116.5
15°	2849.8	2928.2	2969.7	3024.0	3065.6	3136.6	3134.6	3150.7
17.5°	2816.3	2910.8	2961.0	3029.4	3081.7	3161.4	3166.1	3174.8
20°	2774.0	2877.9	2943.6	3027.4	3093.1	3180.8	3186.9	3198.9
22.5°	2718.4	2838.4	2917.5	3018.7	3094.4	3188.9	3199.6	3211.0
25°	2652.7	2790.8	2883.3	3001.9	3087.7	3188.2	3203.0	3213.0
27.5°	2577.7	2729.1	2839.7	2975.1	3068.9	3177.5	3195.6	3207.7
30°	2490.5	2663.4	2790.1	2940.2	3043.5	3157.4	3176.8	3188.9
32.5°	2400.7	2591.1	2731.1	2895.3	3006.6	3125.2	3142.0	3151.4
35°	2302.9	2503.3	2660.1	2837.7	2959.0	3073.6	3086.3	3096.4
37.5°	2196.3	2408.1	2579.0	2772.7	2892.0	3001.9	3013.3	3024.7
40°	2086.4	2308.2	2487.8	2692.9	2812.2	2914.1	2926.2	2934.2
42.5°	1975.8	2197.6	2390.7	2599.1	2717.7	2815.6	2823.0	2831.0
45°	1863.9	2083.0	2281.4	2495.2	2612.5	2704.3	2707.0	2713.7
47.5°	1749.9	1964.4	2161.4	2376.6	2492.5	2576.3	2579.0	2584.4
50°	1635.3	1845.8	2033.4	2248.6	2361.8	2450.3	2438.2	2443.6
52.5°	1522.7	1721.1	1912.8	2110.5	2222.4	2300.9	2304.2	2293.5
55°	1412.1	1599.1	1775.4	1965.7	2072.3	2133.3	2131.3	2135.3
57.5°	1300.2	1475.8	1637.3	1811.6	1915.5	1973.1	1985.2	1971.1
60°	1186.3	1351.2	1495.9	1653.4	1754.0	1802.2	1816.3	1802.9
62.5°	1073.0	1224.5	1355.8	1493.2	1586.4	1646.1	1644.7	1630.0
65°	959.8	1097.1	1214.4	1331.1	1412.1	1471.8	1469.1	1455.7
67.5°	855.2	968.5	1073.7	1168.2	1238.6	1279.4	1293.5	1277.4
70°	739.9	837.8	930.3	1006.0	1064.3	1101.2	1114.6	1100.5
72.5°	624.6	707.7	772.8	845.8	890.7	921.5	935.6	922.2
75°	510.7	579.1	632.0	689.0	720.5	746.6	762.7	749.3
77.5°	400.1	453.1	495.3	536.8	573.0	579.1	593.1	584.4
80°	294.9	333.1	363.9	391.4	417.5	420.2	431.6	426.3
82.5°	196.4	221.8	229.9	258.7	275.5	272.8	284.2	280.2
85°	103.9	119.3	133.4	142.1	151.5	142.8	152.8	148.8
87.5°	34.9	36.9	32.2	45.6	50.3	42.9	48.9	46.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)