

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: P838222

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-2HI-40-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838222
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-ASY2R-LD4-2HI-40-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

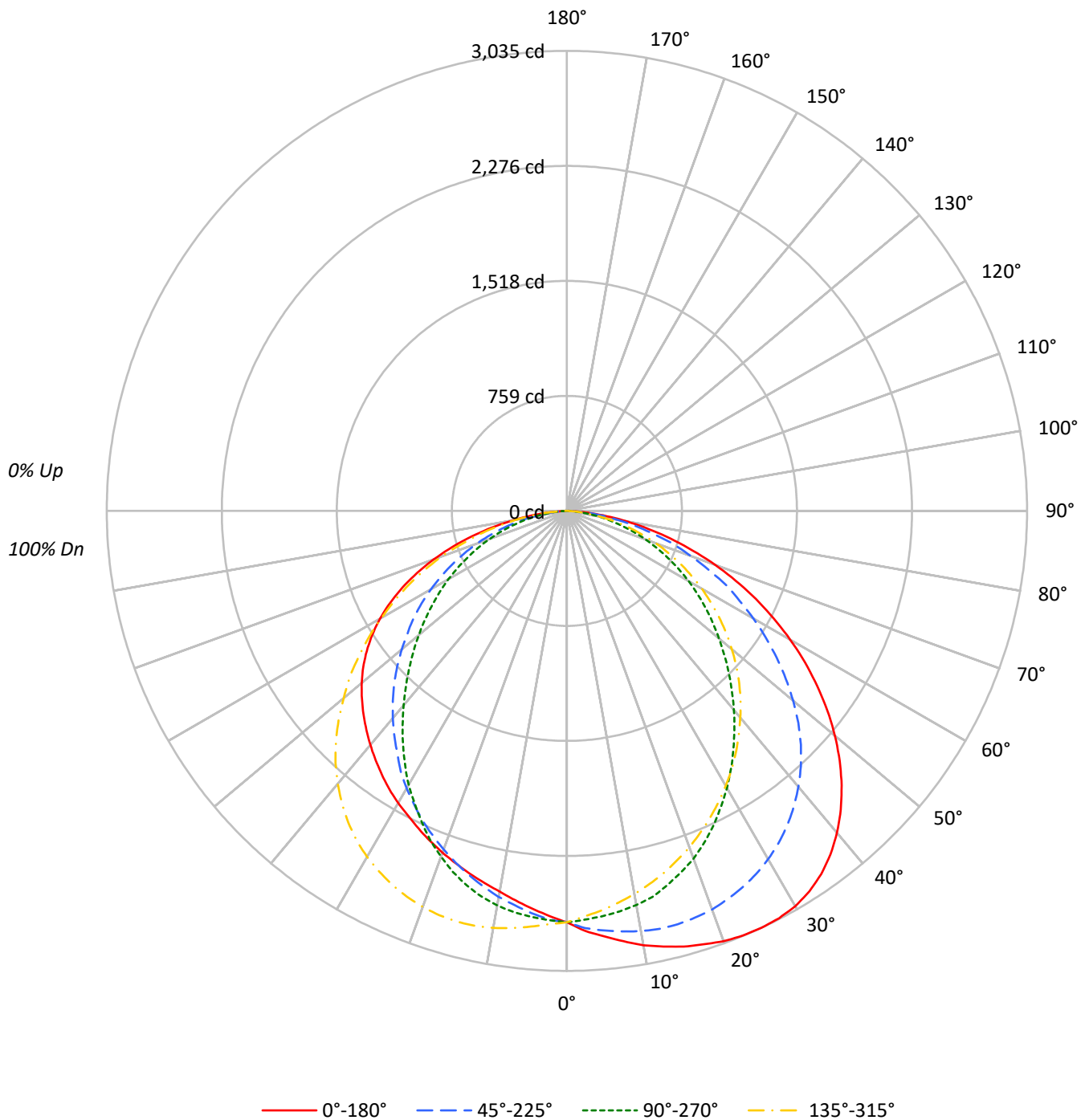
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7961.8 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	3651	3651	3651	3651
5°	3806	3625	3557	3631
10°	3975	3606	3484	3612
15°	4145	3561	3450	3562
20°	4326	3496	3435	3476
25°	4505	3398	3435	3363
30°	4679	3280	3458	3244
35°	4804	3145	3493	3095
40°	4868	3010	3541	2942
45°	4877	2873	3610	2801
50°	4831	2741	3698	2669
55°	4731	2620	3781	2547
60°	4582	2492	3831	2428
65°	4377	2346	3811	2291
70°	4089	2174	3675	2134
75°	3679	1939	3373	1929
80°	3119	1623	2835	1648
85°	2169	1074	1798	1104

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.7	3.2
10°-20°	746.1	9.4
20°-30°	1143.4	14.4
30°-40°	1390.4	17.5
40°-50°	1445.3	18.2
50°-60°	1305.6	16.4
60°-70°	992.6	12.5
70°-80°	553.4	7.0
80°-90°	127.4	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°	2147.2	27.0
0°-40°	3537.6	44.4
0°-60°	6288.5	79.0
0°-90°	7961.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7961.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2714	2714	2714	2714	2714	
5°	2818	2684	2633	2688	2818	272
15°	2976	2556	2477	2557	2976	844
25°	3035	2289	2314	2266	3035	1402
35°	2925	1915	2126	1884	2925	1827
45°	2563	1510	1897	1472	2563	1973
55°	2017	1117	1612	1086	2017	1800
65°	1375	737	1197	720	1375	1359
75°	708	373	649	371	708	752
85°	140	70	116	72	140	177
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°	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8
2.5°	2773.9	2733.4	2734.0	2769.5	2742.3	2755.5	2717.6	2732.1	2727.7	2730.9	2699.8
5°	2817.6	2773.9	2773.3	2803.7	2773.3	2779.0	2730.9	2740.4	2726.4	2717.6	2684.0
7.5°	2863.8	2820.1	2815.7	2842.3	2802.4	2798.0	2744.8	2744.8	2719.5	2697.3	2665.7
10°	2909.4	2864.4	2858.7	2879.0	2829.6	2815.1	2750.5	2740.4	2706.8	2673.9	2639.7
12.5°	2943.6	2898.0	2893.5	2906.2	2850.5	2823.9	2750.5	2730.9	2681.5	2635.3	2608.7
15°	2975.8	2929.0	2917.0	2923.3	2859.4	2823.9	2741.6	2711.2	2647.9	2587.2	2556.1
17.5°	2998.6	2953.7	2941.7	2941.0	2863.8	2813.2	2722.6	2680.9	2604.9	2531.5	2500.4
20°	3021.4	2976.5	2961.3	2949.9	2862.5	2798.6	2694.8	2638.4	2549.8	2467.5	2441.6
22.5°	3032.8	2986.6	2970.1	2953.1	2854.3	2772.0	2660.6	2589.1	2487.8	2389.7	2368.1
25°	3034.7	2987.2	2969.5	2944.8	2837.8	2740.4	2616.3	2529.6	2416.2	2307.4	2289.0
27.5°	3029.6	2977.7	2960.0	2930.3	2813.2	2701.7	2563.7	2461.8	2340.3	2220.0	2200.4
30°	3011.9	2959.4	2942.3	2903.7	2778.3	2654.3	2506.1	2386.5	2256.1	2128.2	2111.1
32.5°	2976.5	2925.2	2911.3	2872.7	2740.4	2599.2	2439.0	2305.5	2163.0	2040.9	2015.5
35°	2924.6	2873.3	2864.4	2823.9	2687.2	2533.4	2365.6	2216.8	2064.3	1939.6	1914.9
37.5°	2856.8	2813.8	2800.5	2760.6	2624.5	2458.7	2281.4	2120.6	1963.6	1829.4	1814.2
40°	2771.4	2730.9	2720.7	2685.3	2551.7	2375.7	2190.3	2021.2	1859.8	1735.1	1713.6
42.5°	2673.9	2635.9	2630.2	2593.5	2461.8	2283.9	2091.5	1918.1	1751.6	1631.3	1609.8
45°	2563.1	2526.4	2525.1	2490.3	2363.7	2182.0	1987.7	1813.6	1645.9	1521.2	1509.8
47.5°	2440.9	2408.0	2408.0	2375.7	2254.2	2070.0	1880.7	1704.7	1539.5	1429.4	1409.1
50°	2308.0	2277.0	2267.5	2251.7	2133.3	1947.8	1768.0	1598.4	1434.4	1329.3	1309.7
52.5°	2166.2	2139.6	2145.9	2116.8	2002.3	1820.6	1654.1	1478.7	1328.7	1233.1	1213.5
55°	2016.8	1978.8	1984.5	1973.8	1865.5	1689.5	1526.2	1380.0	1224.9	1135.0	1116.7
57.5°	1861.7	1812.3	1832.6	1826.3	1719.9	1555.3	1409.1	1267.9	1121.7	1038.8	1021.1
60°	1702.8	1655.4	1676.2	1670.5	1570.5	1421.1	1288.2	1157.2	1019.2	943.8	926.1
62.5°	1539.5	1495.8	1514.8	1510.4	1418.6	1283.8	1167.9	1047.7	916.0	848.3	831.8
65°	1374.9	1333.1	1350.2	1347.1	1262.2	1159.7	1044.5	934.3	812.2	753.3	736.8
67.5°	1206.5	1167.9	1183.8	1183.8	1105.9	1007.8	920.4	819.8	710.3	659.6	644.4
70°	1039.4	1003.3	1017.3	1016.0	950.2	870.4	795.1	705.2	607.1	565.3	552.6
72.5°	871.0	839.4	852.0	850.8	795.7	744.4	669.7	591.9	506.4	472.9	461.5
75°	707.7	678.0	690.0	688.7	643.8	595.7	545.7	481.1	407.7	384.2	372.9
77.5°	552.0	521.6	531.7	531.7	498.8	464.0	424.1	374.1	322.2	296.9	288.7
80°	402.6	388.0	383.0	383.6	361.5	338.7	318.4	270.3	232.3	215.2	209.5
82.5°	264.6	252.6	247.5	248.8	236.1	222.2	209.5	176.0	150.7	140.5	137.4
85°	140.5	131.7	127.2	130.4	127.9	120.3	113.9	91.2	75.3	71.5	69.6
87.5°	44.3	38.6	35.4	46.8	39.9	35.4	34.2	27.2	20.9	20.9	20.3
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°	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8
2.5°	2710.0	2710.0	2685.3	2679.6	2677.1	2680.2	2655.5	2651.1	2686.5	2674.5	2647.3
5°	2688.4	2687.2	2652.4	2646.0	2646.0	2642.2	2614.4	2608.1	2643.5	2633.4	2603.6
7.5°	2661.9	2658.1	2616.9	2612.5	2606.2	2603.6	2572.6	2568.2	2598.6	2592.2	2564.4
10°	2629.6	2625.8	2577.0	2573.9	2566.9	2561.8	2532.7	2529.6	2560.6	2550.4	2528.3
12.5°	2587.2	2580.2	2530.2	2527.0	2521.3	2519.4	2490.9	2489.7	2523.9	2513.7	2490.3
15°	2531.5	2525.8	2470.1	2471.3	2472.0	2472.0	2449.2	2447.9	2481.4	2477.0	2451.7
17.5°	2470.1	2462.5	2409.3	2413.1	2417.5	2422.6	2404.9	2408.0	2443.5	2437.8	2415.0
20°	2400.4	2392.8	2340.9	2351.7	2361.2	2371.3	2359.9	2368.8	2401.7	2399.2	2382.1
22.5°	2322.6	2315.0	2266.9	2283.3	2299.1	2318.1	2313.1	2323.2	2358.0	2357.4	2342.2
25°	2227.6	2229.5	2187.1	2207.4	2233.9	2260.5	2262.4	2278.9	2317.5	2313.7	2299.8
27.5°	2139.0	2141.5	2096.6	2130.8	2166.2	2200.4	2208.6	2231.4	2270.7	2267.5	2255.5
30°	2045.9	2049.1	2005.4	2052.3	2095.3	2137.1	2154.8	2185.8	2225.7	2225.7	2213.0
32.5°	1949.1	1954.8	1909.2	1971.9	2021.9	2070.6	2101.6	2133.9	2179.5	2178.2	2167.5
35°	1849.7	1856.0	1814.2	1894.0	1944.0	2003.5	2042.1	2085.2	2125.7	2126.3	2118.1
37.5°	1748.4	1756.0	1718.0	1805.4	1862.4	1932.6	1982.0	2025.0	2070.0	2072.5	2064.9
40°	1647.8	1656.0	1623.1	1707.3	1779.4	1857.9	1914.9	1965.5	2014.9	2016.2	2011.1
42.5°	1547.1	1556.0	1531.3	1613.6	1695.2	1779.4	1846.5	1904.1	1954.8	1957.9	1952.2
45°	1449.0	1456.6	1438.9	1528.8	1607.2	1699.0	1776.3	1841.5	1892.7	1897.2	1895.3
47.5°	1351.5	1358.5	1342.6	1424.9	1515.5	1612.9	1702.2	1774.4	1828.8	1833.9	1832.6
50°	1255.9	1261.6	1244.5	1330.6	1420.5	1524.3	1617.4	1700.9	1761.7	1766.8	1766.1
52.5°	1161.0	1166.7	1152.1	1242.6	1324.3	1433.8	1535.1	1625.6	1685.7	1693.3	1694.6
55°	1069.2	1071.7	1060.3	1147.0	1226.2	1340.7	1457.2	1545.2	1605.3	1611.7	1615.5
57.5°	977.4	978.0	968.5	1051.5	1127.4	1244.5	1366.7	1459.1	1516.1	1522.4	1528.1
60°	886.2	885.6	874.8	955.2	1028.0	1143.9	1271.1	1362.9	1418.0	1423.7	1431.3
62.5°	795.7	793.8	784.3	858.4	926.7	1041.3	1169.2	1257.8	1310.4	1314.2	1324.3
65°	705.8	703.9	695.1	763.4	825.5	935.0	1060.3	1144.5	1192.0	1197.0	1195.1
67.5°	617.2	613.4	606.4	667.8	724.2	825.5	945.7	1026.1	1065.4	1069.8	1081.8
70°	528.6	524.1	508.3	573.5	622.9	713.4	825.5	897.0	929.9	934.3	932.4
72.5°	441.2	436.8	419.7	479.8	521.6	600.7	700.8	760.3	788.7	792.5	792.5
75°	356.4	353.9	343.1	388.7	423.5	488.1	572.9	622.3	644.4	648.8	647.6
77.5°	274.7	272.8	262.1	301.3	328.5	376.6	445.0	483.6	500.1	505.2	515.9
80°	196.9	196.2	179.1	217.8	229.8	270.3	320.3	350.1	358.9	365.9	373.5
82.5°	126.0	126.6	109.5	142.4	147.5	173.4	204.5	222.8	229.2	234.9	240.5
85°	61.4	63.9	54.4	75.3	76.0	89.3	102.5	109.5	112.0	116.5	121.5
87.5°	15.8	18.4	10.1	21.5	19.0	24.7	28.5	30.4	29.8	32.9	34.8
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°	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8
2.5°	2656.2	2676.4	2666.3	2699.2	2711.9	2691.6	2727.1	2727.7	2702.4	2732.1	2748.6
5°	2615.0	2635.9	2629.6	2663.8	2679.6	2661.9	2704.9	2713.1	2688.4	2722.0	2748.6
7.5°	2573.2	2597.9	2589.7	2624.5	2643.5	2629.6	2675.8	2689.1	2670.1	2706.8	2742.3
10°	2537.2	2558.0	2549.2	2585.9	2602.4	2591.0	2636.5	2661.2	2643.5	2688.4	2730.9
12.5°	2501.7	2518.8	2508.7	2539.1	2554.9	2540.3	2596.0	2618.8	2606.2	2653.0	2707.4
15°	2456.1	2475.1	2461.2	2488.4	2500.4	2487.8	2533.4	2572.6	2556.8	2608.1	2668.2
17.5°	2421.3	2432.1	2413.1	2434.6	2441.6	2424.5	2470.7	2509.3	2497.9	2553.6	2623.2
20°	2382.7	2391.6	2365.0	2377.0	2376.4	2354.8	2397.3	2435.2	2427.6	2489.0	2568.2
22.5°	2339.7	2344.1	2313.1	2315.6	2314.3	2278.9	2316.9	2355.5	2352.3	2414.3	2503.0
25°	2294.1	2294.7	2254.8	2253.6	2239.6	2197.9	2231.4	2275.1	2265.6	2332.7	2425.7
27.5°	2249.1	2242.8	2194.7	2183.3	2161.1	2111.1	2140.9	2180.1	2174.4	2240.3	2343.5
30°	2201.0	2192.8	2133.9	2113.0	2080.7	2023.1	2047.8	2084.5	2087.7	2145.3	2253.6
32.5°	2155.4	2134.6	2069.4	2039.0	1998.5	1931.4	1944.6	1982.0	1987.1	2045.3	2156.7
35°	2096.6	2082.6	2002.3	1950.3	1910.5	1837.0	1851.0	1876.9	1884.5	1941.5	2054.8
37.5°	2040.9	2018.7	1933.3	1869.9	1818.7	1741.4	1745.2	1771.8	1779.4	1837.0	1949.1
40°	1983.3	1951.6	1859.8	1785.8	1726.9	1645.9	1641.4	1669.3	1675.0	1731.3	1832.6
42.5°	1921.9	1883.9	1780.7	1699.7	1631.9	1549.6	1540.8	1564.8	1571.2	1626.2	1725.6
45°	1859.8	1814.2	1699.7	1611.0	1537.0	1452.8	1443.9	1462.3	1471.8	1523.7	1619.3
47.5°	1794.0	1740.8	1616.1	1517.4	1440.8	1356.6	1345.8	1364.2	1371.8	1423.0	1513.6
50°	1725.0	1660.4	1530.0	1421.1	1345.2	1262.2	1246.4	1267.9	1274.9	1323.0	1411.6
52.5°	1649.0	1577.5	1438.2	1324.3	1248.3	1169.2	1150.2	1171.1	1179.3	1226.2	1307.8
55°	1568.6	1491.4	1345.8	1235.0	1152.7	1075.5	1059.7	1067.9	1085.6	1129.9	1205.9
57.5°	1478.1	1401.5	1248.3	1135.6	1056.5	982.5	969.2	976.8	993.2	1036.3	1104.6
60°	1381.9	1300.9	1148.9	1036.3	959.7	889.4	877.4	884.3	902.1	941.3	1004.6
62.5°	1286.9	1195.8	1046.4	934.3	864.7	799.5	796.3	793.8	810.3	848.3	904.0
65°	1171.7	1084.4	939.4	833.1	769.8	710.9	698.2	703.9	719.7	754.6	812.8
67.5°	1048.3	969.2	829.9	731.8	675.4	622.9	612.1	614.7	631.1	661.5	712.2
70°	917.3	847.6	717.8	629.9	582.4	533.0	526.0	526.7	542.5	569.1	613.4
72.5°	779.9	717.2	604.5	529.2	490.0	454.5	448.2	440.6	455.1	477.9	515.9
75°	640.0	584.9	491.9	430.5	399.4	369.7	364.0	356.4	371.0	390.6	420.3
77.5°	498.8	454.5	382.3	334.9	310.8	288.7	283.6	275.4	289.9	304.5	327.9
80°	360.8	328.5	285.5	235.5	227.3	212.7	207.6	198.8	212.7	222.2	239.9
82.5°	233.0	211.4	186.7	151.9	150.7	139.9	137.4	127.2	139.9	145.6	158.9
85°	117.7	107.6	101.3	77.2	79.8	72.8	72.2	61.4	71.5	74.1	81.7
87.5°	33.6	35.4	31.7	19.0	24.1	22.8	22.8	16.5	22.8	22.8	26.0
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: P838222

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2HI-40-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8	2713.8
2.5°	2716.3	2727.1	2729.6	2729.0	2735.9	2773.9	2761.2	2773.9
5°	2722.6	2746.7	2753.0	2761.9	2773.3	2816.3	2802.4	2817.6
7.5°	2726.4	2762.5	2776.4	2793.5	2811.9	2860.0	2848.6	2863.8
10°	2726.4	2773.3	2793.5	2822.0	2846.7	2902.4	2891.6	2909.4
12.5°	2715.0	2775.2	2803.7	2843.5	2875.2	2935.3	2930.9	2943.6
15°	2691.6	2765.7	2804.9	2856.2	2895.4	2962.5	2960.6	2975.8
17.5°	2660.0	2749.2	2796.7	2861.3	2910.6	2986.0	2990.4	2998.6
20°	2620.1	2718.2	2780.2	2859.4	2921.4	3004.3	3010.0	3021.4
22.5°	2567.5	2680.9	2755.5	2851.1	2922.7	3011.9	3022.1	3032.8
25°	2505.5	2635.9	2723.3	2835.3	2916.3	3011.3	3025.2	3034.7
27.5°	2434.6	2577.7	2682.1	2810.0	2898.6	3001.2	3018.3	3029.6
30°	2352.3	2515.6	2635.3	2777.1	2874.6	2982.2	3000.5	3011.9
32.5°	2267.5	2447.3	2579.6	2734.7	2839.7	2951.8	2967.6	2976.5
35°	2175.1	2364.3	2512.5	2680.2	2794.8	2903.0	2915.1	2924.6
37.5°	2074.4	2274.5	2435.9	2618.8	2731.5	2835.3	2846.1	2856.8
40°	1970.6	2180.1	2349.8	2543.5	2656.2	2752.4	2763.8	2771.4
42.5°	1866.2	2075.7	2258.0	2454.9	2566.9	2659.3	2666.3	2673.9
45°	1760.4	1967.4	2154.8	2356.7	2467.5	2554.2	2556.8	2563.1
47.5°	1652.8	1855.4	2041.5	2244.7	2354.2	2433.3	2435.9	2440.9
50°	1544.6	1743.3	1920.6	2123.8	2230.8	2314.3	2302.9	2308.0
52.5°	1438.2	1625.6	1806.6	1993.4	2099.1	2173.2	2176.3	2166.2
55°	1333.8	1510.4	1676.9	1856.7	1957.3	2014.9	2013.0	2016.8
57.5°	1228.1	1393.9	1546.5	1711.1	1809.2	1863.6	1875.0	1861.7
60°	1120.5	1276.2	1412.9	1561.7	1656.6	1702.2	1715.5	1702.8
62.5°	1013.5	1156.5	1280.6	1410.4	1498.4	1554.7	1553.4	1539.5
65°	906.5	1036.3	1147.0	1257.2	1333.8	1390.1	1387.6	1374.9
67.5°	807.7	914.7	1014.1	1103.4	1169.8	1208.4	1221.7	1206.5
70°	698.9	791.3	878.6	950.2	1005.2	1040.1	1052.7	1039.4
72.5°	590.0	668.5	729.9	798.9	841.3	870.4	883.7	871.0
75°	482.4	546.9	596.9	650.7	680.5	705.2	720.4	707.7
77.5°	377.9	427.9	467.8	507.1	541.2	546.9	560.2	552.0
80°	278.5	314.6	343.7	369.7	394.4	396.9	407.7	402.6
82.5°	185.5	209.5	217.1	244.3	260.2	257.6	268.4	264.6
85°	98.1	112.7	126.0	134.2	143.1	134.8	144.3	140.5
87.5°	32.9	34.8	30.4	43.0	47.5	40.5	46.2	44.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)