

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: P837926

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-6LO-50-120-EDD**

Issue Date: 5/21/2024

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

**Test Information**

Test Method: LM-79-08
Report Number: P837926
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-ASY2R-LD4-6LO-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

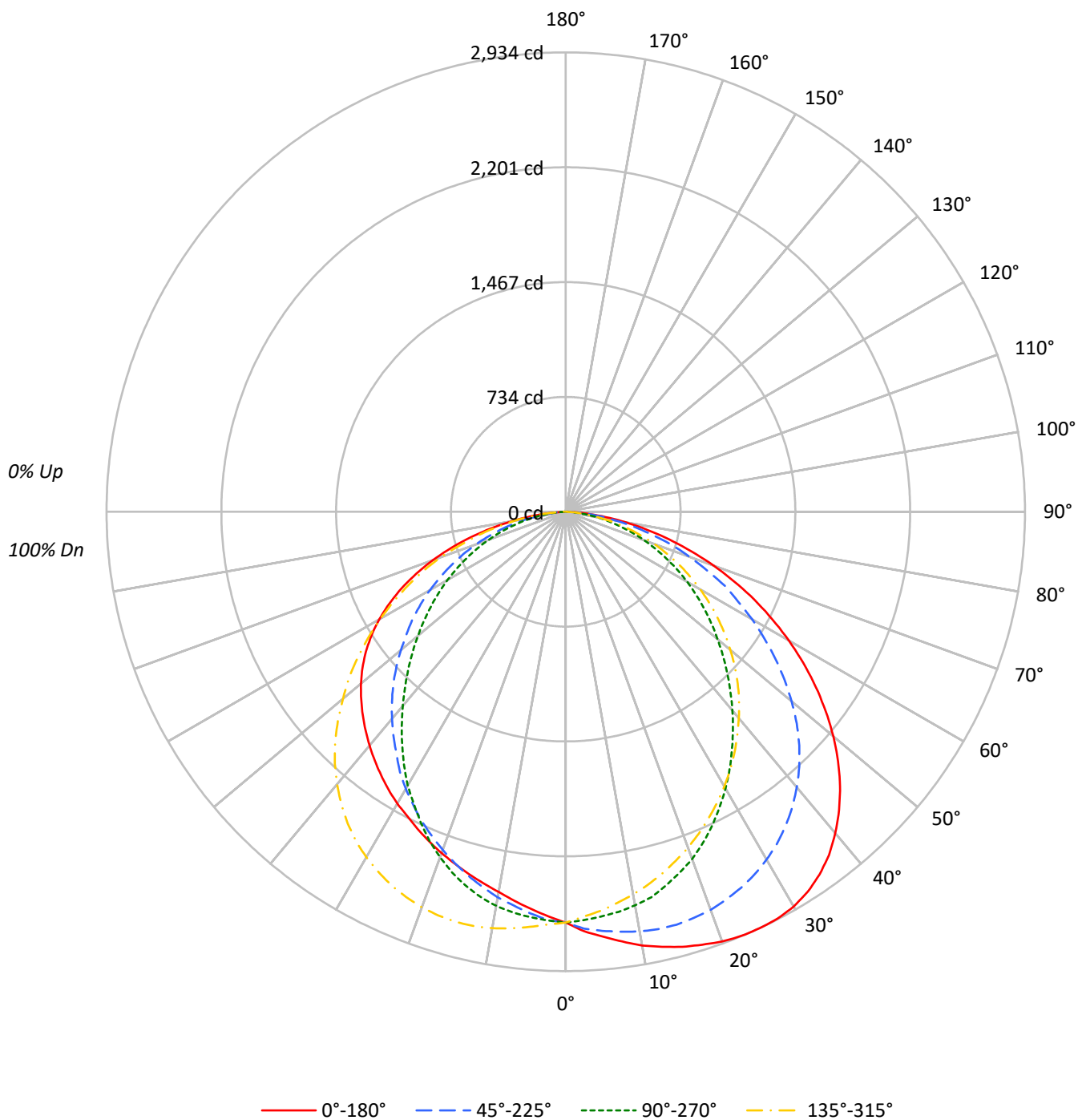
Lumens per Lamp: N/A
Luminaire Lumens: 7698.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7061	7061	7061	7061
5°	7359	7010	6878	7022
10°	7686	6974	6738	6984
15°	8016	6885	6672	6887
20°	8366	6760	6643	6722
25°	8712	6571	6642	6504
30°	9049	6343	6687	6272
35°	9289	6082	6754	5986
40°	9413	5820	6848	5689
45°	9431	5555	6981	5415
50°	9342	5301	7151	5161
55°	9149	5065	7311	4925
60°	8861	4819	7408	4694
65°	8465	4536	7370	4431
70°	7907	4204	7108	4127
75°	7115	3748	6522	3729
80°	6033	3140	5483	3186
85°	4196	2078	3477	2137

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.1	3.2
10°-20°	721.4	9.4
20°-30°	1105.5	14.4
30°-40°	1344.3	17.5
40°-50°	1397.5	18.2
50°-60°	1262.3	16.4
60°-70°	959.7	12.5
70°-80°	535.0	7.0
80°-90°	123.2	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°	2076.0	27.0
0°-40°	3420.3	44.4
0°-60°	6080.1	79.0
0°-90°	7698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7698.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2624	2624	2624	2624	2624	
5°	2724	2595	2546	2599	2724	263
15°	2877	2471	2395	2472	2877	816
25°	2934	2213	2237	2190	2934	1355
35°	2828	1851	2056	1822	2828	1766
45°	2478	1460	1834	1423	2478	1908
55°	1950	1080	1558	1050	1950	1741
65°	1329	712	1157	696	1329	1314
75°	684	360	627	359	684	727
85°	136	67	113	69	136	171
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°	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8
2.5°	2682.0	2642.8	2643.4	2677.7	2651.4	2664.2	2627.5	2641.6	2637.3	2640.4	2610.4
5°	2724.2	2682.0	2681.4	2710.8	2681.4	2686.9	2640.4	2649.5	2636.1	2627.5	2595.1
7.5°	2768.9	2726.7	2722.4	2748.1	2709.5	2705.2	2653.8	2653.8	2629.3	2607.9	2577.3
10°	2813.0	2769.5	2764.0	2783.6	2735.8	2721.8	2659.3	2649.5	2617.1	2585.3	2552.2
12.5°	2846.0	2801.9	2797.7	2809.9	2756.0	2730.3	2659.3	2640.4	2592.6	2547.9	2522.2
15°	2877.2	2831.9	2820.3	2826.4	2764.6	2730.3	2650.8	2621.4	2560.2	2501.4	2471.4
17.5°	2899.3	2855.8	2844.2	2843.6	2768.9	2719.9	2632.4	2592.0	2518.6	2447.6	2417.6
20°	2921.3	2877.8	2863.2	2852.1	2767.7	2705.9	2605.5	2551.0	2465.3	2385.8	2360.7
22.5°	2932.3	2887.6	2871.7	2855.2	2759.7	2680.1	2572.4	2503.3	2405.3	2310.5	2289.7
25°	2934.1	2888.2	2871.1	2847.2	2743.8	2649.5	2529.6	2445.7	2336.2	2230.9	2213.2
27.5°	2929.3	2879.1	2861.9	2833.2	2719.9	2612.2	2478.8	2380.2	2262.7	2146.4	2127.5
30°	2912.1	2861.3	2844.8	2807.5	2686.3	2566.3	2423.1	2307.4	2181.3	2057.7	2041.2
32.5°	2877.8	2828.3	2814.8	2777.5	2649.5	2513.1	2358.2	2229.1	2091.4	1973.2	1948.8
35°	2827.7	2778.1	2769.5	2730.3	2598.1	2449.4	2287.2	2143.4	1995.9	1875.3	1851.4
37.5°	2762.2	2720.5	2707.7	2669.1	2537.5	2377.2	2205.8	2050.4	1898.6	1768.8	1754.1
40°	2679.5	2640.4	2630.6	2596.3	2467.2	2297.0	2117.7	1954.3	1798.2	1677.6	1656.8
42.5°	2585.3	2548.6	2543.1	2507.6	2380.2	2208.3	2022.2	1854.5	1693.5	1577.2	1556.4
45°	2478.2	2442.7	2441.5	2407.8	2285.4	2109.7	1921.8	1753.5	1591.3	1470.7	1459.7
47.5°	2360.0	2328.2	2328.2	2297.0	2179.5	2001.4	1818.4	1648.2	1488.5	1382.0	1362.4
50°	2231.5	2201.5	2192.3	2177.0	2062.6	1883.3	1709.4	1545.4	1386.9	1285.3	1266.3
52.5°	2094.4	2068.7	2074.8	2046.7	1935.9	1760.2	1599.3	1429.7	1284.7	1192.3	1173.3
55°	1950.0	1913.3	1918.8	1908.4	1803.7	1633.6	1475.6	1334.3	1184.3	1097.4	1079.6
57.5°	1800.0	1752.3	1771.9	1765.8	1662.9	1503.8	1362.4	1225.9	1084.5	1004.4	987.2
60°	1646.4	1600.5	1620.7	1615.2	1518.5	1374.0	1245.5	1118.8	985.4	912.6	895.4
62.5°	1488.5	1446.3	1464.6	1460.3	1371.6	1241.2	1129.2	1012.9	885.6	820.1	804.2
65°	1329.4	1289.0	1305.5	1302.4	1220.4	1121.3	1009.9	903.4	785.3	728.3	712.4
67.5°	1166.6	1129.2	1144.5	1144.5	1069.2	974.4	889.9	792.6	686.7	637.8	623.1
70°	1005.0	970.1	983.6	982.3	918.7	841.6	768.7	681.8	587.0	546.6	534.3
72.5°	842.2	811.6	823.8	822.6	769.3	719.8	647.5	572.3	489.6	457.2	446.2
75°	684.3	655.5	667.1	665.9	622.5	575.9	527.6	465.2	394.2	371.5	360.5
77.5°	533.7	504.3	514.1	514.1	482.3	448.6	410.1	361.7	311.5	287.0	279.1
80°	389.3	375.2	370.3	370.9	349.5	327.4	307.9	261.3	224.6	208.1	202.6
82.5°	255.8	244.2	239.3	240.5	228.3	214.8	202.6	170.1	145.7	135.9	132.8
85°	135.9	127.3	123.0	126.1	123.6	116.3	110.2	88.1	72.8	69.2	67.3
87.5°	42.8	37.3	34.3	45.3	38.6	34.3	33.1	26.3	20.2	20.2	19.6
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°	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8
2.5°	2620.2	2620.2	2596.3	2590.8	2588.3	2591.4	2567.5	2563.2	2597.5	2585.9	2559.6
5°	2599.4	2598.1	2564.5	2558.4	2558.4	2554.7	2527.7	2521.6	2555.9	2546.1	2517.3
7.5°	2573.7	2570.0	2530.2	2525.9	2519.8	2517.3	2487.4	2483.1	2512.4	2506.3	2479.4
10°	2542.4	2538.8	2491.6	2488.6	2481.8	2476.9	2448.8	2445.7	2475.7	2465.9	2444.5
12.5°	2501.4	2494.7	2446.3	2443.3	2437.8	2435.9	2408.4	2407.2	2440.2	2430.4	2407.8
15°	2447.6	2442.1	2388.2	2389.4	2390.0	2390.0	2368.0	2366.8	2399.2	2394.9	2370.5
17.5°	2388.2	2380.9	2329.4	2333.1	2337.4	2342.3	2325.2	2328.2	2362.5	2357.0	2335.0
20°	2320.9	2313.5	2263.3	2273.8	2282.9	2292.7	2281.7	2290.3	2322.1	2319.7	2303.1
22.5°	2245.6	2238.3	2191.7	2207.6	2223.0	2241.3	2236.4	2246.2	2279.9	2279.3	2264.6
25°	2153.8	2155.6	2114.6	2134.2	2159.9	2185.6	2187.5	2203.4	2240.7	2237.0	2223.6
27.5°	2068.1	2070.6	2027.1	2060.1	2094.4	2127.5	2135.4	2157.5	2195.4	2192.3	2180.7
30°	1978.1	1981.2	1939.0	1984.3	2025.9	2066.3	2083.4	2113.4	2152.0	2152.0	2139.7
32.5°	1884.5	1890.0	1845.9	1906.5	1954.9	2002.0	2032.0	2063.2	2107.3	2106.0	2095.6
35°	1788.4	1794.5	1754.1	1831.2	1879.6	1937.1	1974.5	2016.1	2055.3	2055.9	2047.9
37.5°	1690.5	1697.8	1661.1	1745.6	1800.6	1868.6	1916.3	1957.9	2001.4	2003.8	1996.5
40°	1593.2	1601.1	1569.3	1650.7	1720.5	1796.4	1851.4	1900.4	1948.1	1949.4	1944.5
42.5°	1495.8	1504.4	1480.5	1560.1	1639.1	1720.5	1785.3	1841.0	1890.0	1893.1	1887.5
45°	1401.0	1408.3	1391.2	1478.1	1554.0	1642.7	1717.4	1780.4	1830.0	1834.3	1832.5
47.5°	1306.7	1313.5	1298.1	1377.7	1465.2	1559.5	1645.8	1715.6	1768.2	1773.1	1771.9
50°	1214.3	1219.8	1203.3	1286.5	1373.4	1473.8	1563.8	1644.6	1703.3	1708.2	1707.6
52.5°	1122.5	1128.0	1113.9	1201.4	1280.4	1386.3	1484.2	1571.7	1629.9	1637.2	1638.4
55°	1033.7	1036.2	1025.2	1109.0	1185.5	1296.3	1408.9	1494.0	1552.1	1558.3	1561.9
57.5°	945.0	945.6	936.4	1016.6	1090.1	1203.3	1321.4	1410.8	1465.8	1472.0	1477.5
60°	856.9	856.3	845.8	923.6	994.0	1106.0	1229.0	1317.7	1371.0	1376.5	1383.8
62.5°	769.3	767.5	758.3	829.9	896.0	1006.8	1130.4	1216.1	1266.9	1270.6	1280.4
65°	682.4	680.6	672.0	738.1	798.1	904.0	1025.2	1106.6	1152.5	1157.4	1155.5
67.5°	596.7	593.1	586.3	645.7	700.2	798.1	914.4	992.1	1030.1	1034.4	1046.0
70°	511.1	506.8	491.5	554.5	602.3	689.8	798.1	867.3	899.1	903.4	901.5
72.5°	426.6	422.3	405.8	463.9	504.3	580.8	677.5	735.1	762.6	766.3	766.3
75°	344.6	342.1	331.7	375.8	409.5	471.9	553.9	601.6	623.1	627.3	626.1
77.5°	265.6	263.8	253.4	291.3	317.7	364.2	430.3	467.6	483.5	488.4	498.8
80°	190.3	189.7	173.2	210.5	222.2	261.3	309.7	338.5	347.0	353.8	361.1
82.5°	121.8	122.4	105.9	137.7	142.6	167.7	197.7	215.4	221.6	227.1	232.6
85°	59.4	61.8	52.6	72.8	73.4	86.3	99.2	105.9	108.3	112.6	117.5
87.5°	15.3	17.7	9.8	20.8	18.4	23.9	27.5	29.4	28.8	31.8	33.7
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°	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8
2.5°	2568.1	2587.7	2577.9	2609.8	2622.0	2602.4	2636.7	2637.3	2612.8	2641.6	2657.5
5°	2528.4	2548.6	2542.4	2575.5	2590.8	2573.7	2615.3	2623.2	2599.4	2631.8	2657.5
7.5°	2488.0	2511.8	2503.9	2537.5	2555.9	2542.4	2587.1	2600.0	2581.6	2617.1	2651.4
10°	2453.1	2473.3	2464.7	2500.2	2516.1	2505.1	2549.2	2573.0	2555.9	2599.4	2640.4
12.5°	2418.8	2435.3	2425.5	2454.9	2470.2	2456.1	2510.0	2532.0	2519.8	2565.1	2617.7
15°	2374.7	2393.1	2379.6	2406.0	2417.6	2405.3	2449.4	2487.4	2472.1	2521.6	2579.8
17.5°	2341.1	2351.5	2333.1	2353.9	2360.7	2344.1	2388.8	2426.1	2415.1	2469.0	2536.3
20°	2303.7	2312.3	2286.6	2298.2	2297.6	2276.8	2317.8	2354.5	2347.2	2406.6	2483.1
22.5°	2262.1	2266.4	2236.4	2238.9	2237.6	2203.4	2240.1	2277.4	2274.4	2334.3	2420.0
25°	2218.1	2218.7	2180.1	2178.9	2165.4	2125.0	2157.5	2199.7	2190.5	2255.4	2345.4
27.5°	2174.6	2168.5	2122.0	2110.9	2089.5	2041.2	2069.9	2107.9	2102.4	2166.0	2265.8
30°	2128.1	2120.1	2063.2	2043.0	2011.8	1956.1	1980.0	2015.5	2018.5	2074.2	2178.9
32.5°	2084.0	2063.8	2000.8	1971.4	1932.2	1867.4	1880.2	1916.3	1921.2	1977.5	2085.2
35°	2027.1	2013.6	1935.9	1885.7	1847.2	1776.2	1789.6	1814.7	1822.1	1877.1	1986.7
37.5°	1973.2	1951.8	1869.2	1808.0	1758.4	1683.7	1687.4	1713.1	1720.5	1776.2	1884.5
40°	1917.5	1886.9	1798.2	1726.6	1669.7	1591.3	1587.0	1614.0	1619.5	1673.9	1771.9
42.5°	1858.2	1821.4	1721.7	1643.3	1577.9	1498.3	1489.7	1513.0	1519.1	1572.3	1668.4
45°	1798.2	1754.1	1643.3	1557.7	1486.0	1404.6	1396.1	1413.8	1423.0	1473.2	1565.6
47.5°	1734.5	1683.1	1562.6	1467.1	1393.0	1311.6	1301.2	1319.0	1326.3	1375.9	1463.4
50°	1667.8	1605.4	1479.3	1374.0	1300.6	1220.4	1205.1	1225.9	1232.7	1279.2	1364.9
52.5°	1594.4	1525.2	1390.6	1280.4	1207.0	1130.4	1112.1	1132.3	1140.2	1185.5	1264.5
55°	1516.6	1442.0	1301.2	1194.1	1114.5	1039.9	1024.6	1032.5	1049.7	1092.5	1165.9
57.5°	1429.1	1355.1	1207.0	1098.0	1021.5	949.9	937.0	944.4	960.3	1001.9	1068.0
60°	1336.1	1257.8	1110.9	1001.9	927.9	859.9	848.3	855.0	872.2	910.1	971.3
62.5°	1244.3	1156.2	1011.7	903.4	836.1	773.0	770.0	767.5	783.4	820.1	874.0
65°	1132.9	1048.4	908.3	805.5	744.2	687.3	675.1	680.6	695.9	729.6	785.9
67.5°	1013.5	937.0	802.4	707.5	653.1	602.3	591.8	594.3	610.2	639.6	688.6
70°	886.9	819.5	694.1	609.0	563.1	515.3	508.6	509.2	524.5	550.2	593.1
72.5°	754.0	693.4	584.5	511.7	473.7	439.4	433.3	426.0	440.1	462.1	498.8
75°	618.8	565.5	475.6	416.2	386.2	357.4	351.9	344.6	358.7	377.6	406.4
77.5°	482.3	439.4	369.7	323.8	300.5	279.1	274.2	266.2	280.3	294.4	317.0
80°	348.9	317.7	276.0	227.7	219.7	205.6	200.8	192.2	205.6	214.8	232.0
82.5°	225.2	204.4	180.6	146.9	145.7	135.3	132.8	123.0	135.3	140.8	153.6
85°	113.8	104.0	97.9	74.7	77.1	70.4	69.8	59.4	69.2	71.6	79.0
87.5°	32.4	34.3	30.6	18.4	23.3	22.0	22.0	15.9	22.0	22.0	25.1
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: P837926

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6LO-50-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8	2623.8
2.5°	2626.3	2636.7	2639.1	2638.5	2645.3	2682.0	2669.7	2682.0
5°	2632.4	2655.7	2661.8	2670.4	2681.4	2723.0	2709.5	2724.2
7.5°	2636.1	2671.0	2684.4	2701.0	2718.7	2765.2	2754.2	2768.9
10°	2636.1	2681.4	2701.0	2728.5	2752.4	2806.2	2795.8	2813.0
12.5°	2625.1	2683.2	2710.8	2749.3	2779.9	2838.1	2833.8	2846.0
15°	2602.4	2674.0	2712.0	2761.6	2799.5	2864.4	2862.5	2877.2
17.5°	2571.8	2658.1	2704.0	2766.4	2814.2	2887.0	2891.3	2899.3
20°	2533.3	2628.1	2688.1	2764.6	2824.6	2904.8	2910.3	2921.3
22.5°	2482.5	2592.0	2664.2	2756.7	2825.8	2912.1	2921.9	2932.3
25°	2422.5	2548.6	2633.0	2741.4	2819.7	2911.5	2925.0	2934.1
27.5°	2353.9	2492.3	2593.2	2716.9	2802.6	2901.7	2918.2	2929.3
30°	2274.4	2432.3	2547.9	2685.0	2779.3	2883.3	2901.1	2912.1
32.5°	2192.3	2366.2	2494.1	2644.0	2745.6	2854.0	2869.3	2877.8
35°	2103.0	2286.0	2429.2	2591.4	2702.2	2806.8	2818.5	2827.7
37.5°	2005.7	2199.1	2355.2	2532.0	2641.0	2741.4	2751.8	2762.2
40°	1905.3	2107.9	2271.9	2459.2	2568.1	2661.2	2672.2	2679.5
42.5°	1804.3	2006.9	2183.2	2373.5	2481.8	2571.2	2577.9	2585.3
45°	1702.1	1902.2	2083.4	2278.6	2385.8	2469.6	2472.1	2478.2
47.5°	1598.1	1793.9	1973.8	2170.3	2276.2	2352.7	2355.2	2360.0
50°	1493.4	1685.6	1856.9	2053.4	2156.8	2237.6	2226.6	2231.5
52.5°	1390.6	1571.7	1746.8	1927.3	2029.5	2101.2	2104.2	2094.4
55°	1289.6	1460.3	1621.3	1795.1	1892.4	1948.1	1946.3	1950.0
57.5°	1187.4	1347.7	1495.2	1654.4	1749.2	1801.9	1812.9	1800.0
60°	1083.3	1233.9	1366.1	1509.9	1601.7	1645.8	1658.6	1646.4
62.5°	979.9	1118.2	1238.2	1363.6	1448.7	1503.2	1502.0	1488.5
65°	876.4	1001.9	1109.0	1215.5	1289.6	1344.1	1341.6	1329.4
67.5°	781.0	884.4	980.5	1066.8	1131.1	1168.4	1181.2	1166.6
70°	675.7	765.1	849.5	918.7	971.9	1005.6	1017.8	1005.0
72.5°	570.4	646.3	705.7	772.4	813.4	841.6	854.4	842.2
75°	466.4	528.8	577.2	629.2	657.9	681.8	696.5	684.3
77.5°	365.4	413.7	452.3	490.2	523.3	528.8	541.7	533.7
80°	269.3	304.2	332.3	357.4	381.3	383.8	394.2	389.3
82.5°	179.3	202.6	209.9	236.2	251.6	249.1	259.5	255.8
85°	94.9	108.9	121.8	129.8	138.3	130.4	139.5	135.9
87.5°	31.8	33.7	29.4	41.6	45.9	39.2	44.7	42.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)