

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: P838035

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-6STD-50-120-EDD-90**

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: P838035
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-LD4-6STD-50-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

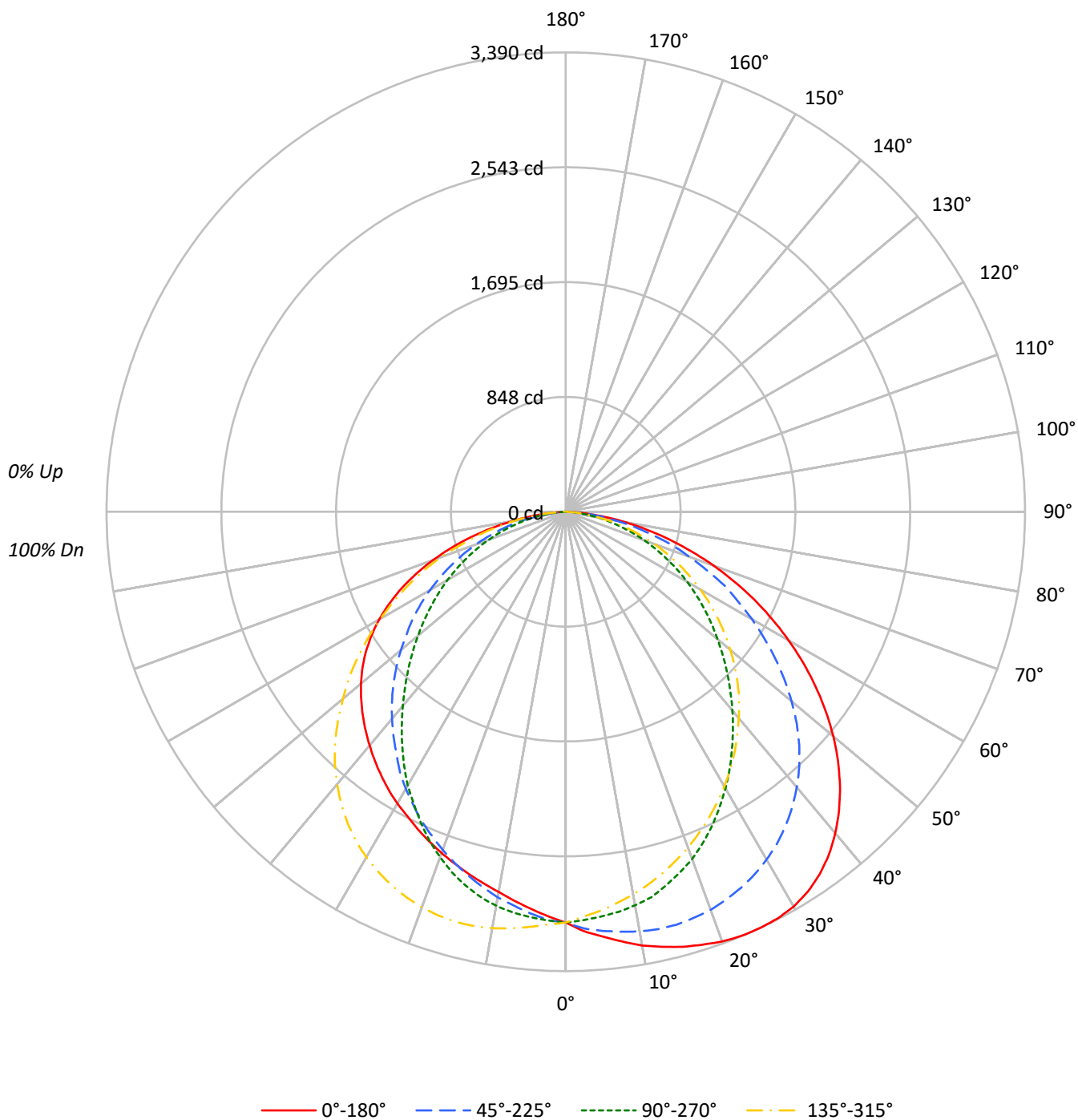
Lumens per Lamp: N/A
Luminaire Lumens: 8894.0 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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

TEST NUMBER: P838035

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6STD-50-120-EDD-90

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838035

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6STD-50-120-EDD-90

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°	8158	8158	8158	8158
5°	8502	8099	7946	8112
10°	8881	8058	7785	8069
15°	9261	7955	7709	7957
20°	9665	7810	7675	7766
25°	10065	7592	7674	7515
30°	10455	7328	7726	7247
35°	10732	7027	7803	6916
40°	10875	6724	7912	6573
45°	10896	6418	8065	6257
50°	10793	6125	8262	5962
55°	10570	5852	8447	5689
60°	10238	5568	8559	5423
65°	9780	5241	8514	5119
70°	9135	4857	8212	4768
75°	8220	4330	7536	4309
80°	6969	3628	6334	3682
85°	4847	2402	4017	2467

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



TEST NUMBER: P838035

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6STD-50-120-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.8	3.2
10°-20°	833.5	9.4
20°-30°	1277.3	14.4
30°-40°	1553.1	17.5
40°-50°	1614.6	18.2
50°-60°	1458.4	16.4
60°-70°	1108.8	12.5
70°-80°	618.1	7.0
80°-90°	142.3	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°	2398.6	27.0
0°-40°	3951.8	44.4
0°-60°	7024.8	79.0
0°-90°	8894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8894.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3032	3032	3032	3032	3032	
5°	3148	2998	2942	3003	3148	303
15°	3324	2855	2767	2856	3324	943
25°	3390	2557	2585	2531	3390	1566
35°	3267	2139	2375	2105	3267	2040
45°	2863	1686	2119	1644	2863	2204
55°	2253	1247	1800	1213	2253	2011
65°	1536	823	1337	804	1536	1518
75°	791	416	725	414	791	840
85°	157	78	130	80	157	198
90°	0	0	0	0	0	

TEST NUMBER: P838035

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6STD-50-120-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5
2.5°	3098.7	3053.4	3054.1	3093.7	3063.3	3078.2	3035.8	3052.0	3047.1	3050.6	3016.0
5°	3147.5	3098.7	3098.0	3131.9	3098.0	3104.4	3050.6	3061.2	3045.7	3035.8	2998.3
7.5°	3199.1	3150.3	3145.4	3175.1	3130.5	3125.6	3066.2	3066.2	3037.9	3013.1	2977.8
10°	3250.0	3199.8	3193.5	3216.1	3160.9	3144.7	3072.5	3061.2	3023.7	2987.0	2948.8
12.5°	3288.2	3237.3	3232.3	3246.5	3184.3	3154.6	3072.5	3050.6	2995.5	2943.8	2914.1
15°	3324.3	3271.9	3258.5	3265.6	3194.2	3154.6	3062.6	3028.7	2958.0	2890.1	2855.4
17.5°	3349.7	3299.5	3286.1	3285.4	3199.1	3142.5	3041.4	2994.7	2909.9	2827.9	2793.2
20°	3375.2	3325.0	3308.0	3295.3	3197.7	3126.3	3010.3	2947.4	2848.4	2756.4	2727.4
22.5°	3387.9	3336.3	3317.9	3298.8	3188.5	3096.6	2972.1	2892.2	2779.1	2669.5	2645.4
25°	3390.0	3337.0	3317.2	3289.6	3170.1	3061.2	2922.6	2825.7	2699.2	2577.5	2557.0
27.5°	3384.4	3326.4	3306.6	3273.4	3142.5	3018.1	2863.9	2750.1	2614.3	2479.9	2458.0
30°	3364.6	3305.9	3286.8	3243.7	3103.6	2965.0	2799.6	2665.9	2520.3	2377.4	2358.3
32.5°	3325.0	3267.7	3252.1	3209.0	3061.2	2903.5	2724.6	2575.4	2416.3	2279.8	2251.5
35°	3267.0	3209.7	3199.8	3154.6	3001.8	2830.0	2642.6	2476.4	2306.0	2166.7	2139.1
37.5°	3191.3	3143.2	3128.4	3083.8	2931.8	2746.5	2548.5	2368.9	2193.6	2043.6	2026.7
40°	3095.9	3050.6	3039.3	2999.7	2850.5	2653.9	2446.7	2257.9	2077.6	1938.3	1914.2
42.5°	2987.0	2944.5	2938.2	2897.2	2750.1	2551.4	2336.4	2142.6	1956.7	1822.3	1798.3
45°	2863.2	2822.2	2820.8	2781.9	2640.5	2437.5	2220.4	2026.0	1838.6	1699.3	1686.5
47.5°	2726.7	2690.0	2690.0	2653.9	2518.1	2312.4	2100.9	1904.3	1719.8	1596.7	1574.1
50°	2578.2	2543.6	2533.0	2515.3	2383.1	2175.9	1975.0	1785.5	1602.4	1485.0	1463.1
52.5°	2419.8	2390.1	2397.2	2364.7	2236.7	2033.7	1847.8	1651.9	1484.3	1377.5	1355.6
55°	2253.0	2210.5	2216.9	2204.9	2083.9	1887.4	1704.9	1541.6	1368.3	1267.9	1247.4
57.5°	2079.7	2024.5	2047.2	2040.1	1921.3	1737.4	1574.1	1416.4	1253.1	1160.4	1140.6
60°	1902.2	1849.2	1872.5	1866.1	1754.4	1587.5	1439.0	1292.7	1138.5	1054.3	1034.5
62.5°	1719.8	1671.0	1692.2	1687.2	1584.7	1434.1	1304.7	1170.3	1023.2	947.6	929.2
65°	1535.9	1489.2	1508.3	1504.8	1410.0	1295.5	1166.8	1043.7	907.3	841.5	823.1
67.5°	1347.8	1304.7	1322.4	1322.4	1235.4	1125.8	1028.2	915.7	793.4	736.8	719.9
70°	1161.1	1120.8	1136.4	1135.0	1061.4	972.3	888.2	787.8	678.1	631.5	617.3
72.5°	973.0	937.7	951.8	950.4	888.9	831.6	748.2	661.2	565.7	528.2	515.5
75°	790.6	757.3	770.8	769.4	719.2	665.4	609.6	537.4	455.4	429.2	416.5
77.5°	616.6	582.7	594.0	594.0	557.2	518.3	473.8	417.9	359.9	331.6	322.5
80°	449.7	433.5	427.8	428.5	403.8	378.3	355.7	301.9	259.5	240.4	234.1
82.5°	295.6	282.1	276.5	277.9	263.8	248.2	234.1	196.6	168.3	157.0	153.4
85°	157.0	147.1	142.1	145.7	142.8	134.4	127.3	101.8	84.1	79.9	77.8
87.5°	49.5	43.1	39.6	52.3	44.5	39.6	38.2	30.4	23.3	23.3	22.6
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: P838035

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6STD-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5
2.5°	3027.3	3027.3	2999.7	2993.3	2990.5	2994.0	2966.5	2961.5	3001.1	2987.7	2957.3
5°	3003.2	3001.8	2962.9	2955.9	2955.9	2951.6	2920.5	2913.4	2953.0	2941.7	2908.5
7.5°	2973.5	2969.3	2923.3	2918.4	2911.3	2908.5	2873.8	2868.9	2902.8	2895.7	2864.6
10°	2937.5	2933.2	2878.8	2875.2	2867.5	2861.8	2829.3	2825.7	2860.4	2849.1	2824.3
12.5°	2890.1	2882.3	2826.4	2822.9	2816.5	2814.4	2782.6	2781.2	2819.4	2808.1	2781.9
15°	2827.9	2821.5	2759.3	2760.7	2761.4	2761.4	2735.9	2734.5	2772.0	2767.0	2738.8
17.5°	2759.3	2750.8	2691.4	2695.6	2700.6	2706.2	2686.4	2690.0	2729.6	2723.2	2697.7
20°	2681.5	2673.0	2615.0	2627.0	2637.6	2649.0	2636.2	2646.1	2682.9	2680.1	2661.0
22.5°	2594.5	2586.0	2532.3	2550.7	2568.3	2589.6	2583.9	2595.2	2634.1	2633.4	2616.4
25°	2488.4	2490.6	2443.2	2465.8	2495.5	2525.2	2527.3	2545.7	2588.8	2584.6	2569.0
27.5°	2389.4	2392.3	2342.1	2380.2	2419.8	2458.0	2467.2	2492.7	2536.5	2533.0	2519.5
30°	2285.5	2289.0	2240.2	2292.6	2340.6	2387.3	2407.1	2441.8	2486.3	2486.3	2472.2
32.5°	2177.3	2183.7	2132.7	2202.7	2258.6	2313.1	2347.7	2383.8	2434.7	2433.3	2421.3
35°	2066.3	2073.3	2026.7	2115.8	2171.6	2238.1	2281.2	2329.3	2374.6	2375.3	2366.1
37.5°	1953.1	1961.6	1919.2	2016.8	2080.4	2158.9	2214.1	2262.1	2312.4	2315.2	2306.7
40°	1840.7	1849.9	1813.1	1907.2	1987.8	2075.5	2139.1	2195.7	2250.8	2252.2	2246.6
42.5°	1728.3	1738.2	1710.6	1802.5	1893.7	1987.8	2062.7	2127.1	2183.7	2187.2	2180.8
45°	1618.6	1627.1	1607.3	1707.7	1795.4	1898.0	1984.2	2057.1	2114.4	2119.3	2117.2
47.5°	1509.7	1517.5	1499.8	1591.8	1692.9	1801.8	1901.5	1982.1	2042.9	2048.6	2047.2
50°	1403.0	1409.3	1390.2	1486.4	1586.8	1702.8	1806.7	1900.1	1968.0	1973.6	1972.9
52.5°	1296.9	1303.3	1287.0	1388.1	1479.3	1601.7	1714.8	1815.9	1883.1	1891.6	1893.0
55°	1194.4	1197.2	1184.5	1281.3	1369.7	1497.7	1627.8	1726.1	1793.3	1800.4	1804.6
57.5°	1091.8	1092.5	1081.9	1174.6	1259.4	1390.2	1526.7	1630.0	1693.6	1700.7	1707.0
60°	990.0	989.3	977.3	1067.1	1148.4	1277.8	1419.9	1522.5	1584.0	1590.4	1598.8
62.5°	888.9	886.8	876.1	958.9	1035.3	1163.2	1306.1	1405.1	1463.8	1468.0	1479.3
65°	788.5	786.3	776.4	852.8	922.1	1044.4	1184.5	1278.5	1331.5	1337.2	1335.1
67.5°	689.5	685.2	677.4	746.0	809.0	922.1	1056.5	1146.3	1190.1	1195.1	1208.5
70°	590.5	585.5	567.8	640.7	695.8	796.9	922.1	1002.0	1038.8	1043.7	1041.6
72.5°	492.9	487.9	468.8	536.0	582.7	671.1	782.8	849.3	881.1	885.3	885.3
75°	398.1	395.3	383.3	434.2	473.1	545.2	640.0	695.1	719.9	724.8	723.4
77.5°	306.9	304.8	292.8	336.6	367.0	420.7	497.1	540.3	558.6	564.3	576.3
80°	219.9	219.2	200.1	243.3	256.7	301.9	357.8	391.0	400.9	408.7	417.2
82.5°	140.7	141.4	122.3	159.1	164.8	193.8	228.4	248.9	256.0	262.3	268.7
85°	68.6	71.4	60.8	84.1	84.9	99.7	114.6	122.3	125.2	130.1	135.8
87.5°	17.7	20.5	11.3	24.0	21.2	27.6	31.8	33.9	33.2	36.8	38.9
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: P838035

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6STD-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5
2.5°	2967.2	2989.8	2978.5	3015.3	3029.4	3006.8	3046.4	3047.1	3018.8	3052.0	3070.4
5°	2921.2	2944.5	2937.5	2975.7	2993.3	2973.5	3021.6	3030.8	3003.2	3040.7	3070.4
7.5°	2874.5	2902.1	2892.9	2931.8	2953.0	2937.5	2989.1	3003.9	2982.7	3023.7	3063.3
10°	2834.2	2857.6	2847.7	2888.7	2907.1	2894.3	2945.2	2972.8	2953.0	3003.2	3050.6
12.5°	2794.6	2813.7	2802.4	2836.3	2854.0	2837.8	2900.0	2925.4	2911.3	2963.6	3024.4
15°	2743.7	2764.9	2749.4	2779.8	2793.2	2779.1	2830.0	2873.8	2856.1	2913.4	2980.6
17.5°	2704.8	2716.8	2695.6	2719.7	2727.4	2708.4	2760.0	2803.1	2790.4	2852.6	2930.4
20°	2661.7	2671.6	2641.9	2655.3	2654.6	2630.6	2677.9	2720.4	2711.9	2780.5	2868.9
22.5°	2613.6	2618.5	2583.9	2586.7	2585.3	2545.7	2588.1	2631.3	2627.7	2697.0	2796.0
25°	2562.7	2563.4	2518.8	2517.4	2501.9	2455.2	2492.7	2541.5	2530.9	2605.8	2709.8
27.5°	2512.5	2505.4	2451.7	2438.9	2414.2	2358.3	2391.6	2435.4	2429.0	2502.6	2617.8
30°	2458.7	2449.5	2383.8	2360.4	2324.4	2260.0	2287.6	2328.6	2332.2	2396.5	2517.4
32.5°	2407.8	2384.5	2311.6	2277.7	2232.4	2157.5	2172.3	2214.1	2219.7	2284.8	2409.2
35°	2342.1	2326.5	2236.7	2178.7	2134.2	2052.1	2067.7	2096.7	2105.2	2168.8	2295.4
37.5°	2279.8	2255.1	2159.6	2088.9	2031.6	1945.3	1949.6	1979.3	1987.8	2052.1	2177.3
40°	2215.5	2180.1	2077.6	1994.8	1929.1	1838.6	1833.6	1864.7	1871.1	1934.0	2047.2
42.5°	2146.9	2104.5	1989.2	1898.7	1823.0	1731.1	1721.2	1748.1	1755.1	1816.6	1927.7
45°	2077.6	2026.7	1898.7	1799.7	1716.9	1622.9	1613.0	1633.5	1644.1	1702.1	1808.9
47.5°	2004.0	1944.6	1805.3	1695.0	1609.5	1515.4	1503.4	1523.9	1532.4	1589.7	1690.8
50°	1927.0	1854.8	1709.2	1587.5	1502.7	1410.0	1392.4	1416.4	1424.2	1477.9	1576.9
52.5°	1842.1	1762.2	1606.6	1479.3	1394.5	1306.1	1284.9	1308.2	1317.4	1369.7	1461.0
55°	1752.3	1666.0	1503.4	1379.6	1287.7	1201.4	1183.8	1192.9	1212.7	1262.2	1347.1
57.5°	1651.2	1565.6	1394.5	1268.6	1180.2	1097.5	1082.6	1091.1	1109.5	1157.6	1234.0
60°	1543.7	1453.2	1283.5	1157.6	1072.0	993.5	980.1	987.9	1007.7	1051.5	1122.2
62.5°	1437.6	1335.8	1168.9	1043.7	966.0	893.1	889.6	886.8	905.1	947.6	1009.8
65°	1308.9	1211.3	1049.4	930.6	859.9	794.1	780.0	786.3	804.0	842.9	908.0
67.5°	1171.0	1082.6	927.1	817.5	754.5	695.8	683.8	686.6	705.0	739.0	795.5
70°	1024.6	946.9	801.9	703.6	650.6	595.4	587.6	588.3	606.0	635.7	685.2
72.5°	871.2	801.2	675.3	591.2	547.3	507.7	500.7	492.2	508.4	533.9	576.3
75°	714.9	653.4	549.4	480.9	446.2	413.0	406.6	398.1	414.4	436.3	469.5
77.5°	557.2	507.7	427.1	374.1	347.2	322.5	316.8	307.6	323.9	340.1	366.3
80°	403.1	367.0	318.9	263.1	253.9	237.6	231.9	222.0	237.6	248.2	268.0
82.5°	260.2	236.2	208.6	169.7	168.3	156.3	153.4	142.1	156.3	162.6	177.5
85°	131.5	120.2	113.1	86.3	89.1	81.3	80.6	68.6	79.9	82.7	91.2
87.5°	37.5	39.6	35.4	21.2	26.9	25.5	25.5	18.4	25.5	25.5	29.0
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: P838035

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6STD-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5	3031.5
2.5°	3034.3	3046.4	3049.2	3048.5	3056.3	3098.7	3084.6	3098.7
5°	3041.4	3068.3	3075.4	3085.3	3098.0	3146.1	3130.5	3147.5
7.5°	3045.7	3086.0	3101.5	3120.6	3141.1	3194.9	3182.1	3199.1
10°	3045.7	3098.0	3120.6	3152.4	3180.0	3242.2	3230.2	3250.0
12.5°	3032.9	3100.1	3131.9	3176.5	3211.8	3279.0	3274.1	3288.2
15°	3006.8	3089.5	3133.3	3190.6	3234.5	3309.4	3307.3	3324.3
17.5°	2971.4	3071.1	3124.2	3196.3	3251.4	3335.6	3340.5	3349.7
20°	2926.9	3036.5	3105.8	3194.2	3263.5	3356.1	3362.5	3375.2
22.5°	2868.2	2994.7	3078.2	3185.0	3264.9	3364.6	3375.9	3387.9
25°	2798.9	2944.5	3042.1	3167.3	3257.8	3363.9	3379.4	3390.0
27.5°	2719.7	2879.5	2996.2	3139.0	3238.0	3352.6	3371.7	3384.4
30°	2627.7	2810.2	2943.8	3102.2	3211.1	3331.3	3351.9	3364.6
32.5°	2533.0	2733.8	2881.6	3054.9	3172.2	3297.4	3315.1	3325.0
35°	2429.7	2641.2	2806.6	2994.0	3122.0	3243.0	3256.4	3267.0
37.5°	2317.3	2540.8	2721.1	2925.4	3051.3	3167.3	3179.3	3191.3
40°	2201.3	2435.4	2624.9	2841.3	2967.2	3074.7	3087.4	3095.9
42.5°	2084.7	2318.7	2522.4	2742.3	2867.5	2970.7	2978.5	2987.0
45°	1966.6	2197.8	2407.1	2632.7	2756.4	2853.3	2856.1	2863.2
47.5°	1846.3	2072.6	2280.5	2507.5	2629.9	2718.3	2721.1	2726.7
50°	1725.4	1947.5	2145.5	2372.5	2492.0	2585.3	2572.6	2578.2
52.5°	1606.6	1815.9	2018.2	2226.8	2344.9	2427.6	2431.2	2419.8
55°	1489.9	1687.2	1873.2	2074.0	2186.5	2250.8	2248.7	2253.0
57.5°	1371.9	1557.1	1727.5	1911.4	2021.0	2081.8	2094.6	2079.7
60°	1251.6	1425.6	1578.3	1744.5	1850.6	1901.5	1916.4	1902.2
62.5°	1132.1	1291.9	1430.5	1575.5	1673.8	1736.7	1735.3	1719.8
65°	1012.6	1157.6	1281.3	1404.4	1489.9	1552.9	1550.1	1535.9
67.5°	902.3	1021.8	1132.8	1232.5	1306.8	1349.9	1364.8	1347.8
70°	780.7	883.9	981.5	1061.4	1122.9	1161.8	1176.0	1161.1
72.5°	659.1	746.7	815.3	892.4	939.8	972.3	987.2	973.0
75°	538.8	611.0	666.8	726.9	760.2	787.8	804.7	790.6
77.5°	422.2	478.0	522.6	566.4	604.6	611.0	625.8	616.6
80°	311.1	351.4	384.0	413.0	440.5	443.4	455.4	449.7
82.5°	207.2	234.1	242.5	273.0	290.6	287.8	299.8	295.6
85°	109.6	125.9	140.7	149.9	159.8	150.6	161.2	157.0
87.5°	36.8	38.9	33.9	48.1	53.0	45.3	51.6	49.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)