

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: P838204

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-2HI-35-120-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: P838204
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-35-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

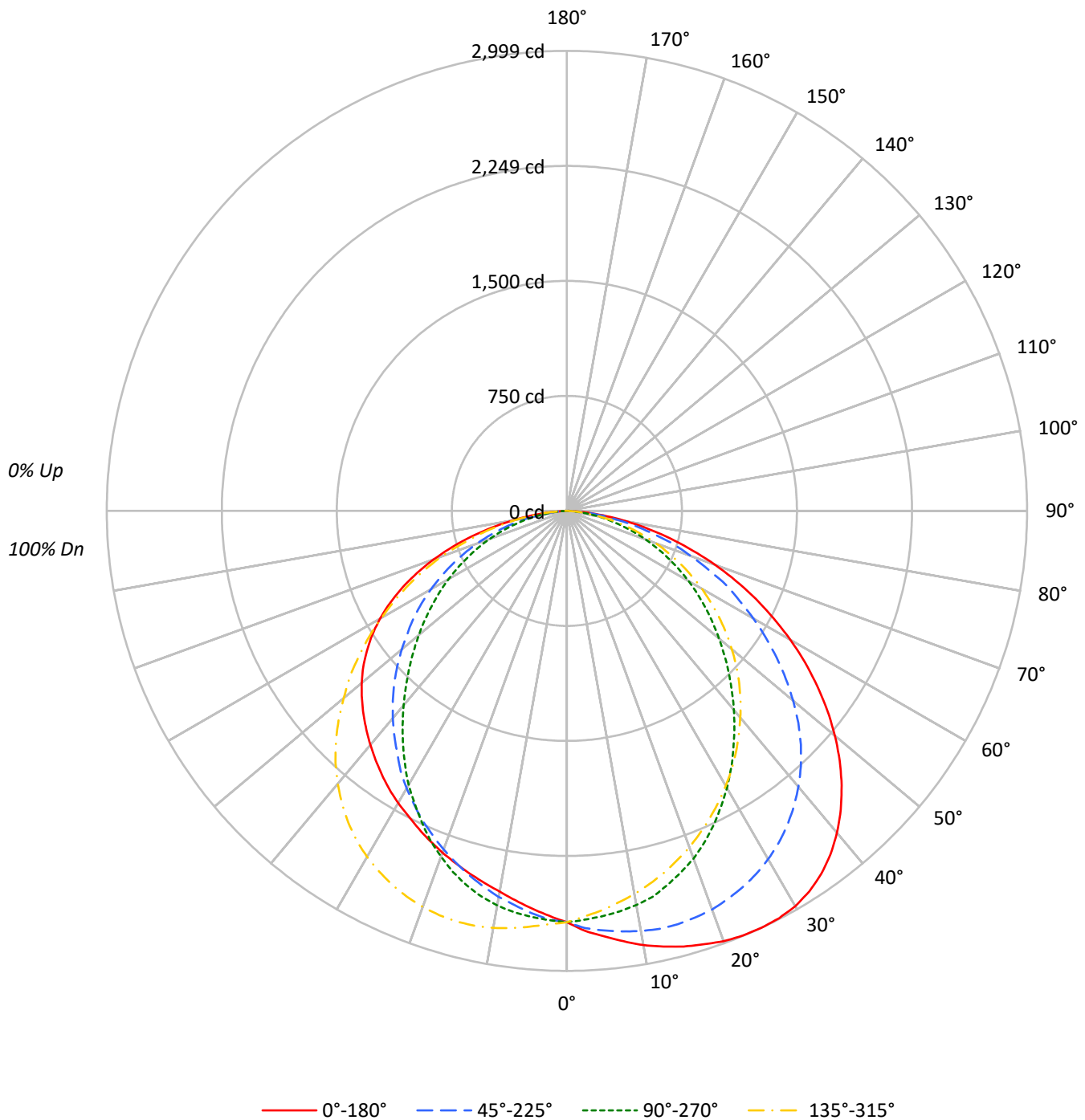
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7867.0 lumens
Efficiency: N/A
Efficacy: 89.4 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	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°	3608	3608	3608	3608
5°	3760	3582	3514	3588
10°	3928	3564	3443	3569
15°	4096	3518	3409	3519
20°	4275	3454	3394	3435
25°	4452	3358	3394	3323
30°	4624	3241	3417	3205
35°	4746	3108	3451	3059
40°	4810	2974	3499	2907
45°	4819	2839	3567	2767
50°	4774	2709	3654	2637
55°	4675	2588	3736	2516
60°	4528	2463	3785	2398
65°	4325	2318	3766	2264
70°	4040	2148	3632	2109
75°	3635	1915	3333	1905
80°	3082	1604	2801	1629
85°	2144	1062	1777	1091

Classified

Scaled Data Report

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Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.6	3.2
10°-20°	737.2	9.4
20°-30°	1129.8	14.4
30°-40°	1373.8	17.5
40°-50°	1428.1	18.2
50°-60°	1290.0	16.4
60°-70°	980.8	12.5
70°-80°	546.8	7.0
80°-90°	125.9	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°	2121.6	27.0
0°-40°	3495.4	44.4
0°-60°	6213.6	79.0
0°-90°	7867.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7867.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2682	2682	2682	2682	2682	
5°	2784	2652	2602	2656	2784	268
15°	2940	2526	2448	2526	2940	834
25°	2999	2262	2286	2239	2999	1385
35°	2890	1892	2101	1862	2890	1805
45°	2533	1492	1875	1454	2533	1950
55°	1993	1103	1592	1073	1993	1779
65°	1359	728	1183	711	1359	1343
75°	699	368	641	366	699	743
85°	139	69	115	71	139	175
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°	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5
2.5°	2740.9	2700.9	2701.5	2736.5	2709.6	2722.7	2685.2	2699.6	2695.2	2698.4	2667.7
5°	2784.0	2740.9	2740.3	2770.3	2740.3	2745.9	2698.4	2707.7	2694.0	2685.2	2652.1
7.5°	2829.7	2786.5	2782.2	2808.4	2769.0	2764.7	2712.1	2712.1	2687.1	2665.2	2633.9
10°	2874.7	2830.3	2824.7	2844.7	2795.9	2781.5	2717.7	2707.7	2674.6	2642.1	2608.3
12.5°	2908.5	2863.5	2859.1	2871.6	2816.6	2790.3	2717.7	2698.4	2649.6	2603.9	2577.6
15°	2940.4	2894.1	2882.2	2888.5	2825.3	2790.3	2709.0	2679.0	2616.4	2556.4	2525.7
17.5°	2962.9	2918.5	2906.6	2906.0	2829.7	2779.7	2690.2	2648.9	2573.9	2501.3	2470.7
20°	2985.4	2941.0	2926.0	2914.8	2828.5	2765.3	2662.7	2607.0	2519.5	2438.1	2412.5
22.5°	2996.7	2951.0	2934.8	2917.9	2820.3	2739.0	2628.9	2558.2	2458.2	2361.2	2339.9
25°	2998.6	2951.7	2934.2	2909.8	2804.1	2707.7	2585.1	2499.4	2387.5	2279.9	2261.8
27.5°	2993.6	2942.3	2924.8	2895.4	2779.7	2669.6	2533.2	2432.5	2312.4	2193.6	2174.2
30°	2976.1	2924.2	2907.3	2869.1	2745.3	2622.7	2476.3	2358.1	2229.2	2102.9	2086.0
32.5°	2941.0	2890.4	2876.6	2838.5	2707.7	2568.2	2410.0	2278.0	2137.3	2016.6	1991.6
35°	2889.7	2839.1	2830.3	2790.3	2655.2	2503.2	2337.4	2190.5	2039.7	1916.5	1892.1
37.5°	2822.8	2780.3	2767.2	2727.7	2593.3	2429.4	2254.3	2095.4	1940.3	1807.7	1792.6
40°	2738.4	2698.4	2688.3	2653.3	2521.3	2347.5	2164.2	1997.2	1837.7	1714.5	1693.2
42.5°	2642.1	2604.5	2598.9	2562.6	2432.5	2256.8	2066.6	1895.2	1730.7	1611.9	1590.6
45°	2532.6	2496.3	2495.1	2460.7	2335.6	2156.1	1964.0	1792.0	1626.3	1503.0	1491.8
47.5°	2411.9	2379.4	2379.4	2347.5	2227.4	2045.3	1858.3	1684.4	1521.2	1412.3	1392.3
50°	2280.5	2249.9	2240.5	2224.9	2107.9	1924.6	1747.0	1579.4	1417.4	1313.5	1294.1
52.5°	2140.4	2114.1	2120.4	2091.6	1978.4	1798.9	1634.4	1461.1	1312.9	1218.4	1199.1
55°	1992.8	1955.3	1960.9	1950.3	1843.3	1669.4	1508.0	1363.6	1210.3	1121.5	1103.4
57.5°	1839.6	1790.8	1810.8	1804.5	1699.4	1536.8	1392.3	1252.9	1108.4	1026.4	1008.9
60°	1682.6	1635.6	1656.3	1650.7	1551.8	1404.2	1272.9	1143.4	1007.0	932.6	915.1
62.5°	1521.2	1478.0	1496.8	1492.4	1401.7	1268.5	1154.0	1035.2	905.1	838.2	821.9
65°	1358.6	1317.3	1334.2	1331.0	1247.2	1145.9	1032.1	923.2	802.5	744.3	728.1
67.5°	1192.2	1154.0	1169.7	1169.7	1092.7	995.8	909.5	810.0	701.8	651.8	636.7
70°	1027.0	991.4	1005.2	1003.9	938.9	860.0	785.6	696.8	599.8	558.6	546.1
72.5°	860.7	829.4	841.9	840.7	786.2	735.6	661.8	584.8	500.4	467.2	456.0
75°	699.3	669.9	681.8	680.5	636.1	588.6	539.2	475.4	402.8	379.7	368.4
77.5°	545.4	515.4	525.4	525.4	492.9	458.5	419.1	369.7	318.4	293.4	285.2
80°	397.8	383.4	378.4	379.0	357.2	334.6	314.6	267.1	229.6	212.7	207.0
82.5°	261.5	249.6	244.6	245.8	233.3	219.5	207.0	173.9	148.9	138.9	135.7
85°	138.9	130.1	125.7	128.9	126.3	118.8	112.6	90.1	74.4	70.7	68.8
87.5°	43.8	38.2	35.0	46.3	39.4	35.0	33.8	26.9	20.6	20.6	20.0
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°	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5
2.5°	2677.7	2677.7	2653.3	2647.7	2645.2	2648.3	2623.9	2619.5	2654.6	2642.7	2615.8
5°	2656.4	2655.2	2620.8	2614.5	2614.5	2610.8	2583.3	2577.0	2612.0	2602.0	2572.6
7.5°	2630.2	2626.4	2585.8	2581.4	2575.1	2572.6	2542.0	2537.6	2567.6	2561.4	2533.8
10°	2598.3	2594.5	2546.4	2543.2	2536.3	2531.3	2502.6	2499.4	2530.1	2520.1	2498.2
12.5°	2556.4	2549.5	2500.1	2496.9	2491.3	2489.4	2461.3	2460.0	2493.8	2483.8	2460.7
15°	2501.3	2495.7	2440.7	2441.9	2442.5	2442.5	2420.0	2418.8	2451.9	2447.5	2422.5
17.5°	2440.7	2433.1	2380.6	2384.4	2388.7	2393.7	2376.2	2379.4	2414.4	2408.8	2386.2
20°	2371.8	2364.3	2313.1	2323.7	2333.1	2343.1	2331.8	2340.6	2373.1	2370.6	2353.7
22.5°	2294.9	2287.4	2239.9	2256.1	2271.8	2290.5	2285.5	2295.5	2329.9	2329.3	2314.3
25°	2201.1	2203.0	2161.1	2181.1	2207.3	2233.6	2235.5	2251.8	2289.9	2286.2	2272.4
27.5°	2113.5	2116.0	2071.6	2105.4	2140.4	2174.2	2182.3	2204.8	2243.6	2240.5	2228.6
30°	2021.6	2024.7	1981.5	2027.8	2070.4	2111.6	2129.2	2159.8	2199.2	2199.2	2186.7
32.5°	1925.9	1931.5	1886.5	1948.4	1997.8	2046.0	2076.6	2108.5	2153.6	2152.3	2141.7
35°	1827.7	1833.9	1792.6	1871.5	1920.9	1979.7	2017.8	2060.4	2100.4	2101.0	2092.9
37.5°	1727.6	1735.1	1697.6	1783.9	1840.2	1909.6	1958.4	2000.9	2045.3	2047.8	2040.3
40°	1628.1	1636.3	1603.7	1686.9	1758.2	1835.8	1892.1	1942.1	1990.9	1992.2	1987.2
42.5°	1528.7	1537.4	1513.1	1594.4	1675.1	1758.2	1824.5	1881.5	1931.5	1934.6	1929.0
45°	1431.7	1439.2	1421.7	1510.6	1588.1	1678.8	1755.1	1819.5	1870.2	1874.6	1872.7
47.5°	1335.4	1342.3	1326.7	1408.0	1497.4	1593.7	1681.9	1753.2	1807.0	1812.0	1810.8
50°	1241.0	1246.6	1229.7	1314.8	1403.6	1506.2	1598.1	1680.7	1740.7	1745.7	1745.1
52.5°	1147.1	1152.8	1138.4	1227.8	1308.5	1416.7	1516.8	1606.3	1665.7	1673.2	1674.4
55°	1056.4	1058.9	1047.7	1133.4	1211.6	1324.8	1439.9	1526.8	1586.2	1592.5	1596.2
57.5°	965.8	966.4	957.0	1038.9	1114.0	1229.7	1350.4	1441.7	1498.0	1504.3	1509.9
60°	875.7	875.1	864.4	943.9	1015.8	1130.3	1256.0	1346.7	1401.1	1406.7	1414.2
62.5°	786.2	784.4	775.0	848.2	915.7	1028.9	1155.3	1242.8	1294.8	1298.5	1308.5
65°	697.4	695.5	686.8	754.3	815.6	923.8	1047.7	1130.9	1177.8	1182.8	1180.9
67.5°	609.8	606.1	599.2	659.9	715.6	815.6	934.5	1013.9	1052.7	1057.1	1069.0
70°	522.3	517.9	502.3	566.7	615.5	704.9	815.6	886.3	918.8	923.2	921.3
72.5°	436.0	431.6	414.7	474.1	515.4	593.6	692.4	751.2	779.4	783.1	783.1
75°	352.1	349.6	339.0	384.0	418.5	482.3	566.1	614.9	636.7	641.1	639.9
77.5°	271.5	269.6	259.0	297.7	324.6	372.2	439.7	477.9	494.1	499.1	509.8
80°	194.5	193.9	177.0	215.2	227.1	267.1	316.5	345.9	354.7	361.5	369.0
82.5°	124.5	125.1	108.2	140.7	145.7	171.4	202.0	220.2	226.4	232.1	237.7
85°	60.7	63.2	53.8	74.4	75.1	88.2	101.3	108.2	110.7	115.1	120.1
87.5°	15.6	18.1	10.0	21.3	18.8	24.4	28.1	30.0	29.4	32.5	34.4
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5
2.5°	2624.5	2644.6	2634.6	2667.1	2679.6	2659.6	2694.6	2695.2	2670.2	2699.6	2715.9
5°	2583.9	2604.5	2598.3	2632.0	2647.7	2630.2	2672.7	2680.8	2656.4	2689.6	2715.9
7.5°	2542.6	2567.0	2558.9	2593.3	2612.0	2598.3	2643.9	2657.1	2638.3	2674.6	2709.6
10°	2507.0	2527.6	2518.8	2555.1	2571.4	2560.1	2605.2	2629.5	2612.0	2656.4	2698.4
12.5°	2471.9	2488.8	2478.8	2508.8	2524.5	2510.1	2565.1	2587.6	2575.1	2621.4	2675.2
15°	2426.9	2445.7	2431.9	2458.8	2470.7	2458.2	2503.2	2542.0	2526.3	2577.0	2636.4
17.5°	2392.5	2403.1	2384.4	2405.6	2412.5	2395.6	2441.3	2479.4	2468.2	2523.2	2592.0
20°	2354.3	2363.1	2336.8	2348.7	2348.1	2326.8	2368.7	2406.2	2398.7	2459.4	2537.6
22.5°	2311.8	2316.2	2285.5	2288.0	2286.8	2251.8	2289.3	2327.4	2324.3	2385.6	2473.2
25°	2266.8	2267.4	2228.0	2226.7	2213.0	2171.7	2204.8	2248.0	2238.6	2304.9	2396.9
27.5°	2222.4	2216.1	2168.6	2157.3	2135.4	2086.0	2115.4	2154.2	2148.5	2213.6	2315.6
30°	2174.8	2166.7	2108.5	2087.9	2056.0	1999.1	2023.5	2059.7	2062.9	2119.8	2226.7
32.5°	2129.8	2109.1	2044.7	2014.7	1974.7	1908.4	1921.5	1958.4	1963.4	2020.9	2131.0
35°	2071.6	2057.9	1978.4	1927.1	1887.7	1815.2	1828.9	1854.6	1862.1	1918.4	2030.3
37.5°	2016.6	1994.7	1910.2	1847.7	1797.0	1720.7	1724.5	1750.7	1758.2	1815.2	1925.9
40°	1959.7	1928.4	1837.7	1764.5	1706.3	1626.3	1621.9	1649.4	1655.0	1710.7	1810.8
42.5°	1899.0	1861.4	1759.5	1679.4	1612.5	1531.2	1522.4	1546.2	1552.5	1606.9	1705.1
45°	1837.7	1792.6	1679.4	1591.9	1518.7	1435.5	1426.7	1444.9	1454.3	1505.5	1600.0
47.5°	1772.6	1720.1	1596.9	1499.3	1423.6	1340.4	1329.8	1347.9	1355.4	1406.1	1495.5
50°	1704.5	1640.7	1511.8	1404.2	1329.2	1247.2	1231.6	1252.9	1259.7	1307.3	1394.8
52.5°	1629.4	1558.7	1421.1	1308.5	1233.5	1155.3	1136.5	1157.2	1165.3	1211.6	1292.3
55°	1550.0	1473.6	1329.8	1220.3	1139.0	1062.7	1047.1	1055.2	1072.7	1116.5	1191.6
57.5°	1460.5	1384.8	1233.5	1122.1	1043.9	970.8	957.6	965.1	981.4	1023.9	1091.5
60°	1365.4	1285.4	1135.3	1023.9	948.2	878.8	866.9	873.8	891.3	930.1	992.6
62.5°	1271.6	1181.5	1033.9	923.2	854.4	790.0	786.9	784.4	800.6	838.2	893.2
65°	1157.8	1071.5	928.2	823.1	760.6	702.4	689.9	695.5	711.2	745.6	803.1
67.5°	1035.8	957.6	820.0	723.1	667.4	615.5	604.8	607.3	623.6	653.6	703.7
70°	906.3	837.5	709.3	622.4	575.4	526.7	519.8	520.4	536.0	562.3	606.1
72.5°	770.6	708.7	597.3	522.9	484.1	449.1	442.8	435.3	449.7	472.2	509.8
75°	632.4	577.9	486.0	425.3	394.7	365.3	359.7	352.1	366.5	385.9	415.3
77.5°	492.9	449.1	377.8	330.9	307.1	285.2	280.2	272.1	286.5	300.9	324.0
80°	356.5	324.6	282.1	232.7	224.5	210.2	205.2	196.4	210.2	219.5	237.1
82.5°	230.2	208.9	184.5	150.1	148.9	138.2	135.7	125.7	138.2	143.9	157.0
85°	116.3	106.3	100.1	76.3	78.8	71.9	71.3	60.7	70.7	73.2	80.7
87.5°	33.2	35.0	31.3	18.8	23.8	22.5	22.5	16.3	22.5	22.5	25.6
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: P838204

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2HI-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5	2681.5
2.5°	2684.0	2694.6	2697.1	2696.5	2703.4	2740.9	2728.4	2740.9
5°	2690.2	2714.0	2720.2	2729.0	2740.3	2782.8	2769.0	2784.0
7.5°	2694.0	2729.6	2743.4	2760.3	2778.4	2825.9	2814.7	2829.7
10°	2694.0	2740.3	2760.3	2788.4	2812.8	2867.9	2857.2	2874.7
12.5°	2682.7	2742.1	2770.3	2809.7	2841.0	2900.4	2896.0	2908.5
15°	2659.6	2732.8	2771.5	2822.2	2861.0	2927.3	2925.4	2940.4
17.5°	2628.3	2716.5	2763.4	2827.2	2876.0	2950.4	2954.8	2962.9
20°	2588.9	2685.8	2747.1	2825.3	2886.6	2968.6	2974.2	2985.4
22.5°	2537.0	2648.9	2722.7	2817.2	2887.9	2976.1	2986.1	2996.7
25°	2475.7	2604.5	2690.8	2801.6	2881.6	2975.4	2989.2	2998.6
27.5°	2405.6	2547.0	2650.2	2776.5	2864.1	2965.4	2982.3	2993.6
30°	2324.3	2485.7	2603.9	2744.0	2840.3	2946.7	2964.8	2976.1
32.5°	2240.5	2418.1	2548.9	2702.1	2805.9	2916.6	2932.3	2941.0
35°	2149.2	2336.2	2482.6	2648.3	2761.5	2868.5	2880.4	2889.7
37.5°	2049.7	2247.4	2406.9	2587.6	2699.0	2801.6	2812.2	2822.8
40°	1947.1	2154.2	2321.8	2513.2	2624.5	2719.6	2730.9	2738.4
42.5°	1843.9	2051.0	2231.1	2425.6	2536.3	2627.7	2634.6	2642.1
45°	1739.5	1944.0	2129.2	2328.7	2438.1	2523.8	2526.3	2532.6
47.5°	1633.1	1833.3	2017.2	2218.0	2326.2	2404.4	2406.9	2411.9
50°	1526.2	1722.6	1897.7	2098.5	2204.2	2286.8	2275.5	2280.5
52.5°	1421.1	1606.3	1785.1	1969.7	2074.1	2147.3	2150.4	2140.4
55°	1317.9	1492.4	1656.9	1834.6	1934.0	1990.9	1989.0	1992.8
57.5°	1213.4	1377.3	1528.1	1690.7	1787.6	1841.4	1852.7	1839.6
60°	1107.1	1261.0	1396.1	1543.1	1636.9	1681.9	1695.1	1682.6
62.5°	1001.4	1142.8	1265.4	1393.6	1480.5	1536.2	1534.9	1521.2
65°	895.7	1023.9	1133.4	1242.2	1317.9	1373.6	1371.1	1358.6
67.5°	798.1	903.8	1002.0	1090.2	1155.9	1194.1	1207.2	1192.2
70°	690.5	781.9	868.2	938.9	993.3	1027.7	1040.2	1027.0
72.5°	583.0	660.5	721.2	789.4	831.3	860.0	873.2	860.7
75°	476.6	540.4	589.8	643.0	672.4	696.8	711.8	699.3
77.5°	373.4	422.8	462.2	501.0	534.8	540.4	553.6	545.4
80°	275.2	310.9	339.6	365.3	389.7	392.2	402.8	397.8
82.5°	183.3	207.0	214.5	241.4	257.1	254.6	265.2	261.5
85°	97.0	111.3	124.5	132.6	141.4	133.2	142.6	138.9
87.5°	32.5	34.4	30.0	42.5	46.9	40.0	45.7	43.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)