

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: P837817

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-2HI-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: P837817
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-LD4-2HI-50-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

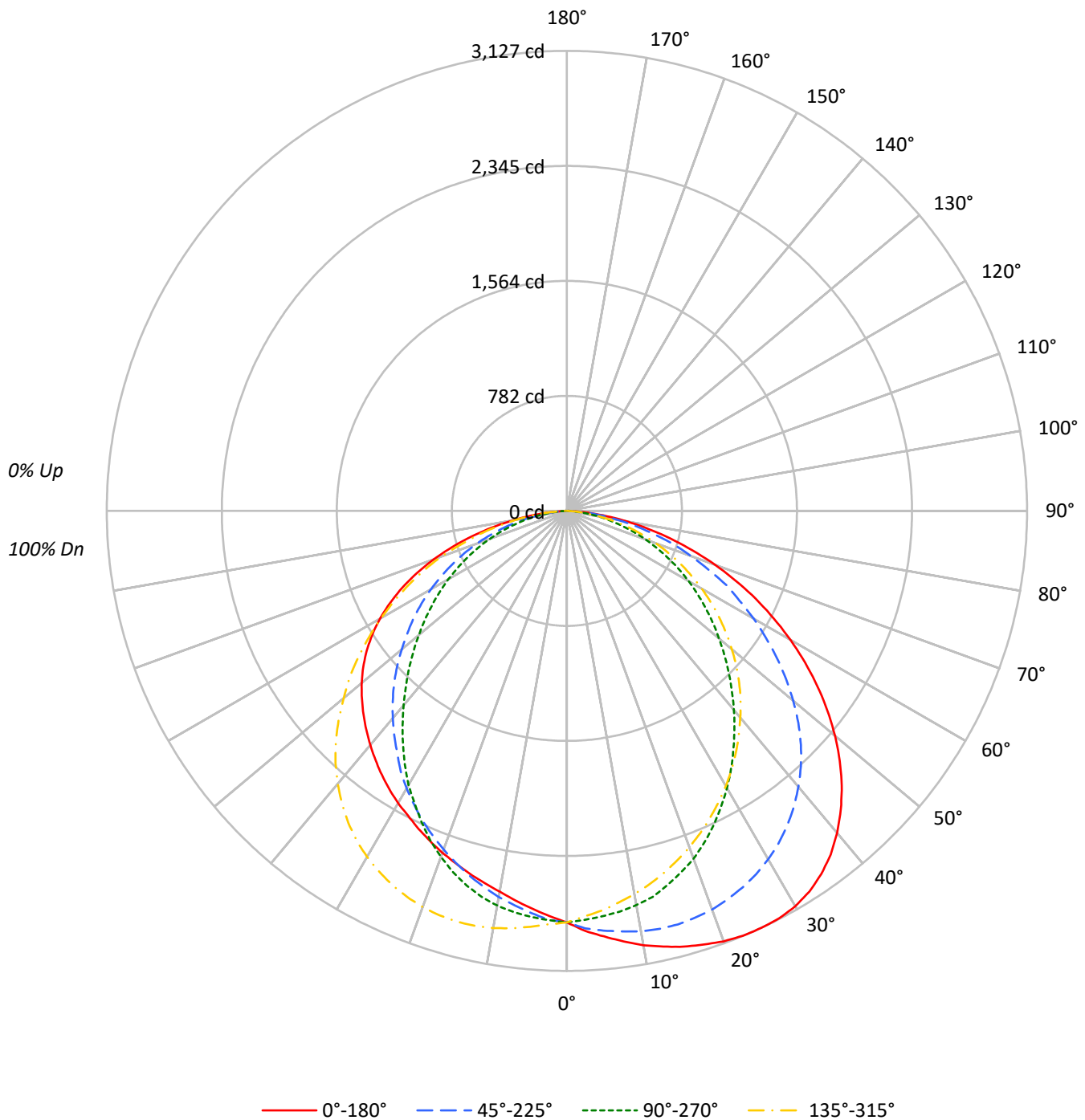
Lumens per Lamp: N/A
Luminaire Lumens: 8205.0 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	7526	7526	7526	7526
5°	7843	7472	7331	7484
10°	8193	7433	7182	7444
15°	8544	7339	7112	7341
20°	8917	7205	7080	7164
25°	9286	7004	7080	6932
30°	9645	6760	7127	6685
35°	9901	6483	7199	6380
40°	10033	6203	7299	6063
45°	10052	5921	7440	5772
50°	9957	5650	7622	5500
55°	9751	5399	7792	5249
60°	9444	5137	7896	5003
65°	9022	4835	7855	4723
70°	8428	4481	7576	4399
75°	7583	3995	6953	3975
80°	6430	3346	5844	3397
85°	4471	2217	3705	2276

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.5	3.2
10°-20°	768.9	9.4
20°-30°	1178.4	14.4
30°-40°	1432.8	17.5
40°-50°	1489.5	18.2
50°-60°	1345.5	16.4
60°-70°	1022.9	12.5
70°-80°	570.3	7.0
80°-90°	131.3	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°	2212.8	27.0
0°-40°	3645.6	44.4
0°-60°	6480.5	79.0
0°-90°	8205.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8205.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2797	2797	2797	2797	2797	
5°	2904	2766	2714	2770	2904	280
15°	3067	2634	2553	2635	3067	870
25°	3127	2359	2384	2335	3127	1444
35°	3014	1973	2191	1942	3014	1882
45°	2641	1556	1955	1517	2641	2034
55°	2078	1151	1661	1119	2078	1855
65°	1417	759	1234	742	1417	1400
75°	729	384	669	382	729	775
85°	145	72	120	74	145	182
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°	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6
2.5°	2858.6	2816.9	2817.5	2854.0	2826.0	2839.7	2800.6	2815.6	2811.0	2814.3	2782.3
5°	2903.6	2858.6	2858.0	2889.3	2858.0	2863.8	2814.3	2824.0	2809.7	2800.6	2766.0
7.5°	2951.2	2906.2	2901.7	2929.1	2888.0	2883.4	2828.6	2828.6	2802.5	2779.7	2747.1
10°	2998.2	2951.9	2946.0	2966.9	2916.0	2901.0	2834.5	2824.0	2789.5	2755.5	2720.3
12.5°	3033.4	2986.5	2981.9	2995.0	2937.5	2910.1	2834.5	2814.3	2763.4	2715.7	2688.3
15°	3066.7	3018.4	3006.0	3012.6	2946.7	2910.1	2825.3	2794.0	2728.8	2666.2	2634.2
17.5°	3090.2	3043.9	3031.5	3030.8	2951.2	2899.1	2805.8	2762.7	2684.4	2608.8	2576.8
20°	3113.7	3067.4	3051.7	3040.0	2949.9	2884.1	2777.1	2719.0	2627.7	2542.9	2516.1
22.5°	3125.4	3077.8	3060.8	3043.2	2941.5	2856.7	2741.8	2668.1	2563.7	2462.6	2440.5
25°	3127.4	3078.5	3060.2	3034.7	2924.5	2824.0	2696.2	2606.8	2490.0	2377.8	2358.9
27.5°	3122.2	3068.7	3050.4	3019.7	2899.1	2784.2	2642.0	2537.0	2411.8	2287.8	2267.6
30°	3103.9	3049.8	3032.1	2992.3	2863.2	2735.3	2582.7	2459.4	2325.0	2193.2	2175.6
32.5°	3067.4	3014.5	3000.2	2960.4	2824.0	2678.6	2513.5	2375.9	2229.1	2103.2	2077.1
35°	3013.9	2961.0	2951.9	2910.1	2769.2	2610.7	2437.8	2284.5	2127.3	1998.8	1973.4
37.5°	2944.1	2899.7	2886.0	2844.9	2704.7	2533.7	2351.1	2185.4	2023.6	1885.3	1869.6
40°	2856.0	2814.3	2803.8	2767.3	2629.6	2448.3	2257.1	2083.0	1916.6	1788.1	1765.9
42.5°	2755.5	2716.4	2710.5	2672.7	2537.0	2353.7	2155.4	1976.6	1805.1	1681.1	1658.9
45°	2641.4	2603.5	2602.2	2566.4	2435.9	2248.7	2048.4	1869.0	1696.1	1567.6	1555.9
47.5°	2515.5	2481.6	2481.6	2448.3	2323.0	2133.2	1938.1	1756.8	1586.5	1473.0	1452.1
50°	2378.5	2346.5	2336.7	2320.4	2198.4	2007.3	1822.0	1647.2	1478.2	1369.9	1349.7
52.5°	2232.4	2205.0	2211.5	2181.5	2063.4	1876.2	1704.6	1523.9	1369.3	1270.8	1250.6
55°	2078.4	2039.3	2045.1	2034.0	1922.5	1741.1	1572.8	1422.1	1262.3	1169.7	1150.8
57.5°	1918.6	1867.7	1888.6	1882.0	1772.4	1602.8	1452.1	1306.7	1156.0	1070.5	1052.2
60°	1754.8	1705.9	1727.4	1721.6	1618.5	1464.5	1327.5	1192.5	1050.3	972.7	954.4
62.5°	1586.5	1541.5	1561.1	1556.5	1461.9	1323.0	1203.6	1079.6	944.0	874.2	857.2
65°	1416.9	1373.9	1391.5	1388.2	1300.8	1195.1	1076.4	962.9	837.0	776.3	759.3
67.5°	1243.4	1203.6	1219.9	1219.9	1139.7	1038.5	948.5	844.8	731.9	679.8	664.1
70°	1071.2	1034.0	1048.3	1047.0	979.2	897.0	819.4	726.7	625.6	582.6	569.5
72.5°	897.6	865.0	878.1	876.8	820.0	767.2	690.2	610.0	521.9	487.3	475.6
75°	729.3	698.7	711.1	709.8	663.4	613.9	562.3	495.8	420.1	396.0	384.2
77.5°	568.9	537.5	548.0	548.0	514.1	478.2	437.1	385.5	332.0	306.0	297.5
80°	414.9	399.9	394.7	395.3	372.5	349.0	328.1	278.6	239.4	221.8	215.9
82.5°	272.7	260.3	255.1	256.4	243.3	229.0	215.9	181.4	155.3	144.8	141.6
85°	144.8	135.7	131.1	134.4	131.8	123.9	117.4	93.9	77.6	73.7	71.8
87.5°	45.7	39.8	36.5	48.3	41.1	36.5	35.2	28.1	21.5	21.5	20.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6
2.5°	2792.7	2792.7	2767.3	2761.4	2758.8	2762.1	2736.6	2732.1	2768.6	2756.2	2728.1
5°	2770.5	2769.2	2733.4	2726.8	2726.8	2722.9	2694.2	2687.7	2724.2	2713.8	2683.1
7.5°	2743.1	2739.2	2696.8	2692.3	2685.7	2683.1	2651.2	2646.6	2677.9	2671.4	2642.7
10°	2709.9	2706.0	2655.7	2652.5	2645.3	2640.1	2610.1	2606.8	2638.8	2628.3	2605.5
12.5°	2666.2	2659.0	2607.5	2604.2	2598.3	2596.4	2567.0	2565.7	2600.9	2590.5	2566.4
15°	2608.8	2602.9	2545.5	2546.8	2547.4	2547.4	2524.0	2522.7	2557.2	2552.7	2526.6
17.5°	2545.5	2537.7	2482.9	2486.8	2491.3	2496.6	2478.3	2481.6	2518.1	2512.2	2488.7
20°	2473.7	2465.9	2412.4	2423.5	2433.3	2443.7	2432.0	2441.1	2475.0	2472.4	2454.8
22.5°	2393.5	2385.7	2336.1	2353.0	2369.3	2388.9	2383.7	2394.1	2430.0	2429.4	2413.7
25°	2295.6	2297.6	2253.9	2274.8	2302.2	2329.6	2331.5	2348.5	2388.3	2384.4	2370.0
27.5°	2204.3	2206.9	2160.6	2195.8	2232.4	2267.6	2276.1	2299.5	2340.0	2336.7	2324.3
30°	2108.4	2111.7	2066.7	2114.9	2159.3	2202.3	2220.6	2252.6	2293.7	2293.7	2280.6
32.5°	2008.6	2014.5	1967.5	2032.1	2083.6	2133.8	2165.8	2199.1	2246.1	2244.7	2233.7
35°	1906.2	1912.7	1869.6	1951.8	2003.4	2064.7	2104.5	2148.9	2190.6	2191.3	2182.8
37.5°	1801.8	1809.6	1770.5	1860.5	1919.2	1991.6	2042.5	2086.9	2133.2	2135.8	2128.0
40°	1698.1	1706.6	1672.6	1759.4	1833.8	1914.7	1973.4	2025.6	2076.4	2077.7	2072.5
42.5°	1594.4	1603.5	1578.0	1662.8	1747.0	1833.8	1902.9	1962.3	2014.5	2017.7	2011.9
45°	1493.2	1501.1	1482.8	1575.4	1656.3	1750.9	1830.5	1897.7	1950.5	1955.1	1953.1
47.5°	1392.8	1400.0	1383.6	1468.4	1561.7	1662.2	1754.2	1828.5	1884.6	1889.9	1888.6
50°	1294.3	1300.1	1282.5	1371.2	1463.9	1570.9	1666.8	1752.9	1815.5	1820.7	1820.1
52.5°	1196.4	1202.3	1187.3	1280.6	1364.7	1477.6	1582.0	1675.2	1737.2	1745.0	1746.4
55°	1101.8	1104.4	1092.7	1182.1	1263.6	1381.7	1501.7	1592.4	1654.4	1660.9	1664.8
57.5°	1007.2	1007.9	998.1	1083.6	1161.8	1282.5	1408.4	1503.7	1562.4	1568.9	1574.8
60°	913.3	912.6	901.6	984.4	1059.4	1178.8	1309.9	1404.5	1461.3	1467.1	1475.0
62.5°	820.0	818.1	808.3	884.6	955.0	1073.1	1204.9	1296.2	1350.4	1354.3	1364.7
65°	727.4	725.4	716.3	786.7	850.7	963.5	1092.7	1179.5	1228.4	1233.6	1231.6
67.5°	636.0	632.1	625.0	688.2	746.3	850.7	974.6	1057.5	1097.9	1102.5	1114.9
70°	544.7	540.1	523.8	591.0	641.9	735.2	850.7	924.4	958.3	962.9	960.9
72.5°	454.7	450.1	432.5	494.5	537.5	619.1	722.2	783.5	812.8	816.7	816.7
75°	367.3	364.7	353.6	400.5	436.4	503.0	590.4	641.3	664.1	668.7	667.4
77.5°	283.1	281.2	270.1	310.5	338.6	388.2	458.6	498.4	515.4	520.6	531.7
80°	202.9	202.2	184.6	224.4	236.8	278.6	330.1	360.8	369.9	377.1	384.9
82.5°	129.8	130.5	112.9	146.8	152.0	178.7	210.7	229.6	236.2	242.0	247.9
85°	63.3	65.9	56.1	77.6	78.3	92.0	105.7	112.9	115.5	120.0	125.3
87.5°	16.3	18.9	10.4	22.2	19.6	25.4	29.4	31.3	30.7	33.9	35.9
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°	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6
2.5°	2737.3	2758.2	2747.7	2781.6	2794.7	2773.8	2810.3	2811.0	2784.9	2815.6	2832.5
5°	2694.9	2716.4	2709.9	2745.1	2761.4	2743.1	2787.5	2796.0	2770.5	2805.1	2832.5
7.5°	2651.8	2677.3	2668.8	2704.7	2724.2	2709.9	2757.5	2771.2	2751.6	2789.5	2826.0
10°	2614.6	2636.2	2627.0	2664.9	2681.8	2670.1	2717.1	2742.5	2724.2	2770.5	2814.3
12.5°	2578.1	2595.7	2585.3	2616.6	2632.9	2617.9	2675.3	2698.8	2685.7	2734.0	2790.1
15°	2531.1	2550.7	2536.4	2564.4	2576.8	2563.7	2610.7	2651.2	2634.9	2687.7	2749.7
17.5°	2495.3	2506.3	2486.8	2509.0	2516.1	2498.5	2546.1	2585.9	2574.2	2631.6	2703.4
20°	2455.5	2464.6	2437.2	2449.6	2448.9	2426.8	2470.5	2509.6	2501.8	2565.1	2646.6
22.5°	2411.1	2415.7	2383.7	2386.3	2385.0	2348.5	2387.6	2427.4	2424.1	2488.1	2579.4
25°	2364.1	2364.8	2323.7	2322.4	2308.0	2265.0	2299.5	2344.6	2334.8	2403.9	2499.8
27.5°	2317.8	2311.3	2261.7	2250.0	2227.1	2175.6	2206.3	2246.7	2240.8	2308.7	2415.0
30°	2268.2	2259.8	2199.1	2177.6	2144.3	2084.9	2110.4	2148.2	2151.5	2210.8	2322.4
32.5°	2221.3	2199.7	2132.5	2101.2	2059.5	1990.3	2004.0	2042.5	2047.7	2107.8	2222.6
35°	2160.6	2146.2	2063.4	2009.9	1968.8	1893.1	1907.5	1934.2	1942.1	2000.8	2117.5
37.5°	2103.2	2080.4	1992.3	1927.1	1874.2	1794.6	1798.5	1825.9	1833.8	1893.1	2008.6
40°	2043.8	2011.2	1916.6	1840.3	1779.6	1696.1	1691.6	1720.3	1726.1	1784.2	1888.6
42.5°	1980.5	1941.4	1835.1	1751.6	1681.8	1597.0	1587.8	1612.6	1619.1	1675.9	1778.3
45°	1916.6	1869.6	1751.6	1660.2	1583.9	1497.2	1488.0	1506.9	1516.7	1570.2	1668.7
47.5°	1848.8	1794.0	1665.5	1563.7	1484.8	1398.0	1386.9	1405.8	1413.7	1466.5	1559.8
50°	1777.7	1711.1	1576.7	1464.5	1386.3	1300.8	1284.5	1306.7	1313.8	1363.4	1454.7
52.5°	1699.4	1625.7	1482.1	1364.7	1286.4	1204.9	1185.3	1206.9	1215.3	1263.6	1347.8
55°	1616.5	1536.9	1386.9	1272.7	1187.9	1108.3	1092.0	1100.5	1118.8	1164.5	1242.7
57.5°	1523.2	1444.3	1286.4	1170.3	1088.8	1012.5	998.8	1006.6	1023.5	1067.9	1138.4
60°	1424.1	1340.6	1184.0	1067.9	989.0	916.6	904.2	911.3	929.6	970.0	1035.3
62.5°	1326.2	1232.3	1078.3	962.9	891.1	823.9	820.7	818.1	835.0	874.2	931.6
65°	1207.5	1117.5	968.1	858.5	793.3	732.6	719.5	725.4	741.7	777.6	837.6
67.5°	1080.3	998.8	855.2	754.1	696.1	641.9	630.8	633.4	650.4	681.7	733.9
70°	945.3	873.5	739.8	649.1	600.2	549.3	542.1	542.8	559.1	586.5	632.1
72.5°	803.7	739.1	623.0	545.4	504.9	468.4	461.9	454.0	469.0	492.5	531.7
75°	659.5	602.8	506.9	443.6	411.6	381.0	375.1	367.3	382.3	402.5	433.2
77.5°	514.1	468.4	394.0	345.1	320.3	297.5	292.3	283.8	298.8	313.8	337.9
80°	371.8	338.6	294.2	242.7	234.2	219.2	214.0	204.8	219.2	229.0	247.2
82.5°	240.1	217.9	192.4	156.6	155.3	144.2	141.6	131.1	144.2	150.0	163.7
85°	121.3	110.9	104.4	79.6	82.2	75.0	74.4	63.3	73.7	76.3	84.2
87.5°	34.6	36.5	32.6	19.6	24.8	23.5	23.5	17.0	23.5	23.5	26.7
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: P837817

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2HI-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6	2796.6
2.5°	2799.2	2810.3	2812.9	2812.3	2819.5	2858.6	2845.6	2858.6
5°	2805.8	2830.6	2837.1	2846.2	2858.0	2902.3	2888.0	2903.6
7.5°	2809.7	2846.9	2861.2	2878.8	2897.8	2947.3	2935.6	2951.2
10°	2809.7	2858.0	2878.8	2908.2	2933.6	2991.0	2980.0	2998.2
12.5°	2797.9	2859.9	2889.3	2930.4	2963.0	3025.0	3020.4	3033.4
15°	2773.8	2850.1	2890.6	2943.4	2983.9	3053.0	3051.1	3066.7
17.5°	2741.2	2833.2	2882.1	2948.6	2999.5	3077.2	3081.7	3090.2
20°	2700.1	2801.2	2865.1	2946.7	3010.6	3096.1	3101.9	3113.7
22.5°	2645.9	2762.7	2839.7	2938.2	3011.9	3103.9	3114.3	3125.4
25°	2582.0	2716.4	2806.4	2921.9	3005.4	3103.2	3117.6	3127.4
27.5°	2509.0	2656.4	2764.0	2895.8	2987.1	3092.8	3110.4	3122.2
30°	2424.1	2592.5	2715.7	2861.9	2962.3	3073.2	3092.2	3103.9
32.5°	2336.7	2522.0	2658.3	2818.2	2926.5	3041.9	3058.2	3067.4
35°	2241.5	2436.5	2589.2	2762.1	2880.1	2991.7	3004.1	3013.9
37.5°	2137.8	2343.9	2510.3	2698.8	2814.9	2921.9	2933.0	2944.1
40°	2030.8	2246.7	2421.5	2621.2	2737.3	2836.4	2848.2	2856.0
42.5°	1923.1	2139.1	2326.9	2529.8	2645.3	2740.5	2747.7	2755.5
45°	1814.2	2027.5	2220.6	2428.7	2542.9	2632.2	2634.9	2641.4
47.5°	1703.3	1912.0	2103.8	2313.2	2426.1	2507.6	2510.3	2515.5
50°	1591.7	1796.6	1979.2	2188.6	2298.9	2385.0	2373.3	2378.5
52.5°	1482.1	1675.2	1861.8	2054.3	2163.2	2239.5	2242.8	2232.4
55°	1374.5	1556.5	1728.1	1913.4	2017.1	2076.4	2074.5	2078.4
57.5°	1265.6	1436.5	1593.7	1763.3	1864.4	1920.5	1932.3	1918.6
60°	1154.7	1315.1	1456.1	1609.4	1707.2	1754.2	1767.9	1754.8
62.5°	1044.4	1191.9	1319.7	1453.4	1544.1	1602.2	1600.9	1586.5
65°	934.2	1067.9	1182.1	1295.6	1374.5	1432.6	1430.0	1416.9
67.5°	832.4	942.7	1045.1	1137.1	1205.5	1245.3	1259.0	1243.4
70°	720.2	815.4	905.5	979.2	1035.9	1071.8	1084.9	1071.2
72.5°	608.0	688.9	752.2	823.3	867.0	897.0	910.7	897.6
75°	497.1	563.6	615.2	670.6	701.3	726.7	742.4	729.3
77.5°	389.5	441.0	482.1	522.5	557.8	563.6	577.3	568.9
80°	287.0	324.2	354.2	381.0	406.4	409.0	420.1	414.9
82.5°	191.1	215.9	223.8	251.8	268.1	265.5	276.6	272.7
85°	101.1	116.1	129.8	138.3	147.4	139.0	148.7	144.8
87.5°	33.9	35.9	31.3	44.4	48.9	41.8	47.6	45.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)