

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: P838170

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-3STD-27-120-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: P838170
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-LD4-3STD-27-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

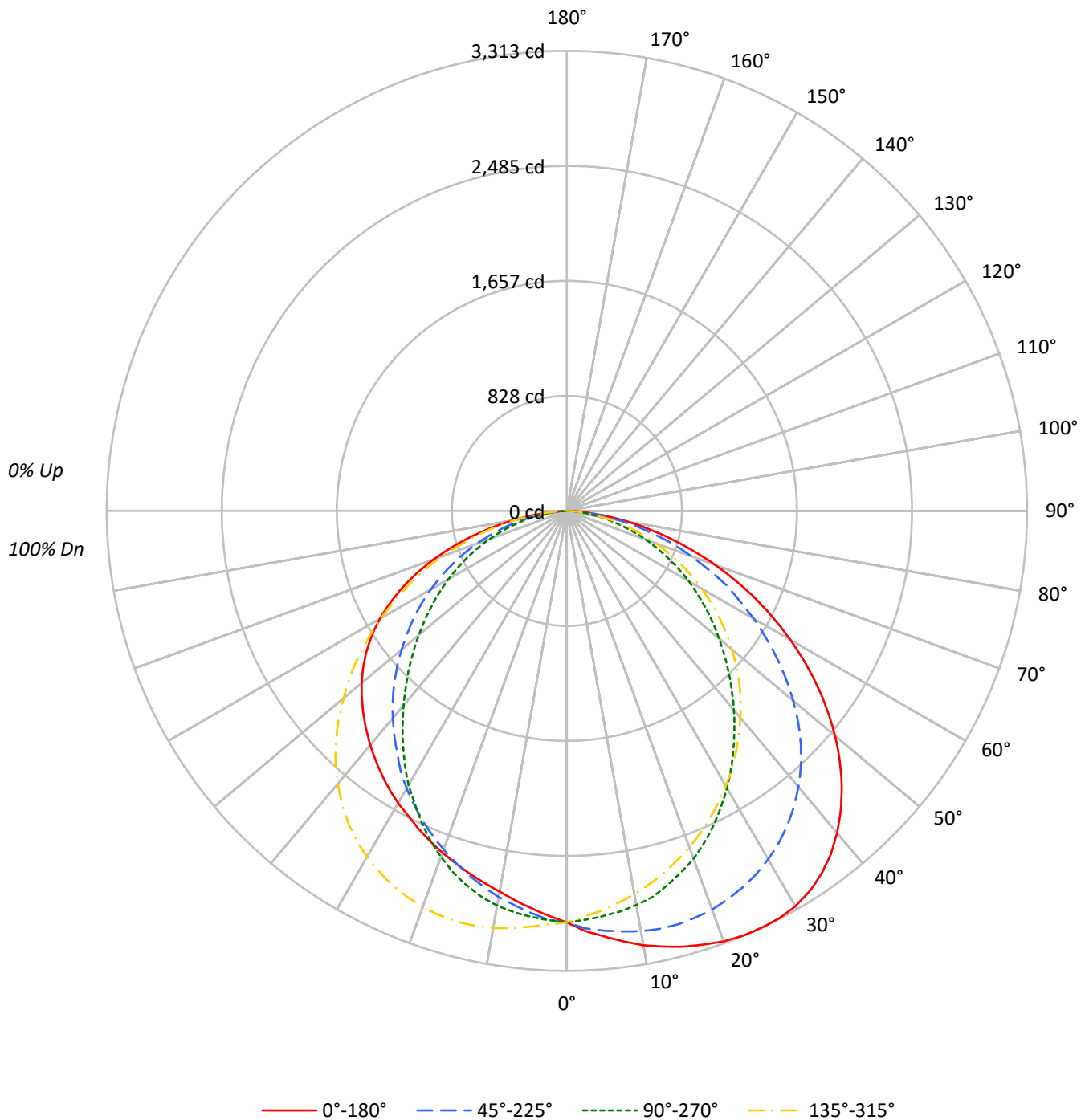
Lumens per Lamp: N/A
Luminaire Lumens: 8692.7 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	3987	3987	3987	3987
5°	4155	3958	3883	3964
10°	4340	3938	3804	3943
15°	4526	3887	3767	3888
20°	4723	3817	3751	3795
25°	4919	3710	3750	3672
30°	5109	3581	3775	3541
35°	5245	3434	3813	3380
40°	5315	3286	3866	3212
45°	5325	3137	3941	3058
50°	5275	2993	4038	2914
55°	5165	2860	4128	2780
60°	5003	2721	4183	2650
65°	4779	2561	4161	2502
70°	4464	2374	4013	2330
75°	4017	2116	3683	2105
80°	3406	1773	3095	1799
85°	2368	1173	1964	1206

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.3	3.2
10°-20°	814.6	9.4
20°-30°	1248.4	14.4
30°-40°	1518.0	17.5
40°-50°	1578.0	18.2
50°-60°	1425.4	16.4
60°-70°	1083.7	12.5
70°-80°	604.2	7.0
80°-90°	139.1	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°	2344.3	27.0
0°-40°	3862.3	44.4
0°-60°	6865.8	79.0
0°-90°	8692.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8692.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2963	2963	2963	2963	2963	
5°	3076	2930	2875	2935	3076	297
15°	3249	2791	2704	2792	3249	921
25°	3313	2499	2526	2474	3313	1530
35°	3193	2091	2322	2058	3193	1994
45°	2798	1648	2071	1607	2798	2155
55°	2202	1219	1760	1185	2202	1966
65°	1501	804	1307	786	1501	1483
75°	773	407	708	405	773	821
85°	153	76	127	78	153	193
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°	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9
2.5°	3028.6	2984.3	2985.0	3023.7	2994.0	3008.5	2967.0	2982.9	2978.1	2981.6	2947.7
5°	3076.2	3028.6	3027.9	3061.0	3027.9	3034.1	2981.6	2991.9	2976.7	2967.0	2930.4
7.5°	3126.7	3079.0	3074.2	3103.2	3059.7	3054.8	2996.8	2996.8	2969.1	2944.9	2910.4
10°	3176.5	3127.4	3121.2	3143.3	3089.4	3073.5	3003.0	2991.9	2955.3	2919.4	2882.0
12.5°	3213.8	3164.0	3159.2	3173.0	3112.2	3083.2	3003.0	2981.6	2927.6	2877.2	2848.2
15°	3249.0	3197.9	3184.7	3191.7	3121.9	3083.2	2993.3	2960.1	2891.0	2824.7	2790.8
17.5°	3273.9	3224.8	3211.7	3211.0	3126.7	3071.4	2972.6	2927.0	2844.0	2763.8	2730.0
20°	3298.8	3249.7	3233.1	3220.7	3125.3	3055.5	2942.2	2880.6	2783.9	2694.0	2665.7
22.5°	3311.2	3260.8	3242.8	3224.1	3116.3	3026.5	2904.8	2826.7	2716.2	2609.0	2585.5
25°	3313.3	3261.5	3242.1	3215.2	3098.4	2991.9	2856.5	2761.8	2638.1	2519.2	2499.1
27.5°	3307.8	3251.1	3231.7	3199.3	3071.4	2949.8	2799.1	2687.8	2555.1	2423.8	2402.4
30°	3288.4	3231.1	3212.4	3170.2	3033.4	2897.9	2736.2	2605.6	2463.2	2323.6	2304.9
32.5°	3249.7	3193.7	3178.5	3136.4	2991.9	2837.8	2662.9	2517.1	2361.6	2228.2	2200.6
35°	3193.0	3137.1	3127.4	3083.2	2933.9	2765.9	2582.8	2420.4	2253.8	2117.6	2090.7
37.5°	3119.1	3072.1	3057.6	3014.0	2865.4	2684.4	2490.8	2315.3	2143.9	1997.4	1980.8
40°	3025.8	2981.6	2970.5	2931.8	2786.0	2593.8	2391.3	2206.8	2030.6	1894.4	1870.9
42.5°	2919.4	2877.9	2871.7	2831.6	2687.8	2493.6	2283.5	2094.1	1912.4	1781.1	1757.6
45°	2798.4	2758.3	2756.9	2718.9	2580.7	2382.3	2170.2	1980.1	1796.9	1660.8	1648.4
47.5°	2665.0	2629.1	2629.1	2593.8	2461.1	2260.0	2053.4	1861.2	1680.8	1560.6	1538.5
50°	2519.9	2486.0	2475.6	2458.4	2329.1	2126.6	1930.3	1745.1	1566.1	1451.4	1430.0
52.5°	2365.1	2336.0	2342.9	2311.2	2186.1	1987.7	1805.9	1614.5	1450.7	1346.3	1324.9
55°	2202.0	2160.5	2166.7	2155.0	2036.8	1844.6	1666.3	1506.7	1337.3	1239.2	1219.2
57.5°	2032.6	1978.7	2000.8	1993.9	1877.8	1698.1	1538.5	1384.3	1224.7	1134.2	1114.8
60°	1859.2	1807.3	1830.1	1823.9	1714.7	1551.6	1406.5	1263.4	1112.7	1030.5	1011.1
62.5°	1680.8	1633.2	1653.9	1649.0	1548.8	1401.6	1275.1	1143.8	1000.1	926.1	908.2
65°	1501.1	1455.5	1474.2	1470.7	1378.1	1266.2	1140.4	1020.1	886.7	822.4	804.5
67.5°	1317.3	1275.1	1292.4	1292.4	1207.4	1100.3	1004.9	895.0	775.5	720.2	703.6
70°	1134.8	1095.4	1110.7	1109.3	1037.4	950.3	868.1	769.9	662.8	617.2	603.4
72.5°	951.0	916.4	930.3	928.9	868.8	812.8	731.2	646.2	552.9	516.3	503.8
75°	772.7	740.2	753.3	752.0	702.9	650.4	595.8	525.3	445.1	419.5	407.1
77.5°	602.7	569.5	580.6	580.6	544.6	506.6	463.1	408.5	351.8	324.1	315.2
80°	439.6	423.7	418.1	418.8	394.6	369.8	347.6	295.1	253.6	235.0	228.8
82.5°	288.9	275.8	270.2	271.6	257.8	242.6	228.8	192.1	164.5	153.4	150.0
85°	153.4	143.8	138.9	142.4	139.6	131.3	124.4	99.5	82.2	78.1	76.0
87.5°	48.4	42.2	38.7	51.1	43.5	38.7	37.3	29.7	22.8	22.8	22.1
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°	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9
2.5°	2958.7	2958.7	2931.8	2925.6	2922.8	2926.3	2899.3	2894.5	2933.2	2920.0	2890.3
5°	2935.2	2933.9	2895.9	2888.9	2888.9	2884.8	2854.4	2847.5	2886.2	2875.1	2842.6
7.5°	2906.2	2902.1	2857.1	2852.3	2845.4	2842.6	2808.8	2803.9	2837.1	2830.2	2799.8
10°	2871.0	2866.8	2813.6	2810.2	2802.6	2797.0	2765.2	2761.8	2795.6	2784.6	2760.4
12.5°	2824.7	2817.1	2762.5	2759.0	2752.8	2750.7	2719.6	2718.2	2755.6	2744.5	2718.9
15°	2763.8	2757.6	2696.8	2698.2	2698.9	2698.9	2674.0	2672.6	2709.2	2704.4	2676.8
17.5°	2696.8	2688.5	2630.5	2634.6	2639.4	2645.0	2625.6	2629.1	2667.8	2661.6	2636.7
20°	2620.8	2612.5	2555.8	2567.6	2577.9	2589.0	2576.5	2586.2	2622.2	2619.4	2600.7
22.5°	2535.8	2527.5	2475.0	2492.9	2510.2	2530.9	2525.4	2536.5	2574.5	2573.8	2557.2
25°	2432.1	2434.2	2387.9	2410.0	2439.0	2468.0	2470.1	2488.1	2530.2	2526.1	2510.9
27.5°	2335.3	2338.1	2289.0	2326.4	2365.1	2402.4	2411.4	2436.2	2479.1	2475.6	2462.5
30°	2233.7	2237.2	2189.5	2240.7	2287.7	2333.3	2352.6	2386.5	2430.0	2430.0	2416.2
32.5°	2128.0	2134.2	2084.5	2152.9	2207.5	2260.7	2294.6	2329.8	2379.6	2378.2	2366.4
35°	2019.5	2026.4	1980.8	2067.9	2122.5	2187.4	2229.6	2276.6	2320.8	2321.5	2312.5
37.5°	1908.9	1917.2	1875.7	1971.1	2033.3	2110.0	2163.9	2210.9	2260.0	2262.8	2254.5
40°	1799.0	1808.0	1772.1	1864.0	1942.8	2028.5	2090.7	2146.0	2199.9	2201.3	2195.7
42.5°	1689.1	1698.8	1671.9	1761.7	1850.9	1942.8	2016.0	2078.9	2134.2	2137.7	2131.5
45°	1582.0	1590.3	1570.9	1669.1	1754.8	1855.0	1939.3	2010.5	2066.5	2071.3	2069.3
47.5°	1475.6	1483.2	1465.9	1555.7	1654.6	1761.0	1858.5	1937.2	1996.7	2002.2	2000.8
50°	1371.2	1377.4	1358.8	1452.8	1550.9	1664.3	1765.8	1857.1	1923.4	1929.0	1928.3
52.5°	1267.5	1273.8	1257.9	1356.7	1445.9	1565.4	1676.0	1774.8	1840.5	1848.8	1850.2
55°	1167.3	1170.1	1157.7	1252.3	1338.7	1463.8	1591.0	1687.1	1752.7	1759.6	1763.8
57.5°	1067.1	1067.8	1057.4	1148.0	1230.9	1358.8	1492.2	1593.1	1655.3	1662.2	1668.4
60°	967.6	966.9	955.1	1042.9	1122.4	1248.9	1387.8	1488.0	1548.1	1554.4	1562.7
62.5°	868.8	866.7	856.3	937.2	1011.8	1136.9	1276.5	1373.3	1430.6	1434.8	1445.9
65°	770.6	768.5	758.9	833.5	901.2	1020.8	1157.7	1249.6	1301.4	1306.9	1304.9
67.5°	673.9	669.7	662.1	729.1	790.7	901.2	1032.6	1120.3	1163.2	1168.0	1181.1
70°	577.1	572.3	555.0	626.2	680.1	778.9	901.2	979.3	1015.3	1020.1	1018.0
72.5°	481.7	476.9	458.2	523.9	569.5	655.9	765.1	830.1	861.2	865.3	865.3
75°	389.1	386.3	374.6	424.4	462.4	532.9	625.5	679.4	703.6	708.4	707.0
77.5°	300.0	297.9	286.1	329.0	358.7	411.2	485.9	528.0	546.0	551.5	563.3
80°	214.9	214.3	195.6	237.8	250.9	295.1	349.7	382.2	391.9	399.5	407.8
82.5°	137.5	138.2	119.6	155.5	161.0	189.4	223.2	243.3	250.2	256.4	262.6
85°	67.0	69.8	59.4	82.2	82.9	97.4	112.0	119.6	122.3	127.2	132.7
87.5°	17.3	20.0	11.1	23.5	20.7	27.0	31.1	33.2	32.5	35.9	38.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9
2.5°	2900.0	2922.1	2911.1	2947.0	2960.8	2938.7	2977.4	2978.1	2950.5	2982.9	3000.9
5°	2855.1	2877.9	2871.0	2908.3	2925.6	2906.2	2953.2	2962.2	2935.2	2971.9	3000.9
7.5°	2809.5	2836.4	2827.4	2865.4	2886.2	2871.0	2921.4	2935.9	2915.2	2955.3	2994.0
10°	2770.1	2792.9	2783.2	2823.3	2841.3	2828.8	2878.6	2905.5	2886.2	2935.2	2981.6
12.5°	2731.4	2750.0	2739.0	2772.1	2789.4	2773.5	2834.3	2859.2	2845.4	2896.5	2956.0
15°	2681.6	2702.3	2687.1	2716.8	2730.0	2716.2	2765.9	2808.8	2791.5	2847.5	2913.1
17.5°	2643.6	2655.3	2634.6	2658.1	2665.7	2647.0	2697.5	2739.7	2727.2	2788.0	2864.1
20°	2601.4	2611.1	2582.1	2595.2	2594.5	2571.0	2617.3	2658.8	2650.5	2717.5	2803.9
22.5°	2554.4	2559.3	2525.4	2528.2	2526.8	2488.1	2529.6	2571.7	2568.3	2636.0	2732.7
25°	2504.7	2505.4	2461.8	2460.4	2445.2	2399.6	2436.2	2483.9	2473.6	2546.8	2648.4
27.5°	2455.6	2448.7	2396.2	2383.7	2359.5	2304.9	2337.4	2380.3	2374.0	2445.9	2558.6
30°	2403.1	2394.1	2329.8	2307.0	2271.8	2208.9	2235.8	2275.9	2279.4	2342.3	2460.4
32.5°	2353.3	2330.5	2259.3	2226.1	2181.9	2108.7	2123.2	2163.9	2169.5	2233.1	2354.7
35°	2289.0	2273.8	2186.1	2129.4	2085.8	2005.7	2020.9	2049.2	2057.5	2119.7	2243.4
37.5°	2228.2	2204.0	2110.7	2041.6	1985.6	1901.3	1905.5	1934.5	1942.8	2005.7	2128.0
40°	2165.3	2130.8	2030.6	1949.7	1885.4	1796.9	1792.1	1822.5	1828.7	1890.3	2000.8
42.5°	2098.3	2056.8	1944.2	1855.7	1781.7	1691.9	1682.2	1708.5	1715.4	1775.5	1884.0
45°	2030.6	1980.8	1855.7	1758.9	1678.1	1586.2	1576.5	1596.5	1606.9	1663.6	1767.9
47.5°	1958.7	1900.6	1764.5	1656.6	1573.0	1481.1	1469.4	1489.4	1497.7	1553.7	1652.5
50°	1883.3	1812.8	1670.5	1551.6	1468.7	1378.1	1360.8	1384.3	1391.9	1444.5	1541.2
52.5°	1800.4	1722.3	1570.3	1445.9	1362.9	1276.5	1255.8	1278.6	1287.6	1338.7	1427.9
55°	1712.6	1628.3	1469.4	1348.4	1258.6	1174.2	1157.0	1165.9	1185.3	1233.7	1316.6
57.5°	1613.8	1530.2	1362.9	1239.9	1153.5	1072.6	1058.1	1066.4	1084.4	1131.4	1206.0
60°	1508.7	1420.3	1254.4	1131.4	1047.8	971.0	957.9	965.5	984.9	1027.7	1096.8
62.5°	1405.1	1305.6	1142.4	1020.1	944.1	872.9	869.4	866.7	884.7	926.1	986.9
65°	1279.3	1183.9	1025.6	909.5	840.4	776.1	762.3	768.5	785.8	823.8	887.4
67.5°	1144.5	1058.1	906.1	799.0	737.4	680.1	668.3	671.1	689.1	722.2	777.5
70°	1001.5	925.4	783.7	687.7	635.8	581.9	574.3	575.0	592.3	621.3	669.7
72.5°	851.5	783.1	660.0	577.8	534.9	496.2	489.3	481.0	496.9	521.8	563.3
75°	698.7	638.6	537.0	470.0	436.1	403.6	397.4	389.1	405.0	426.4	458.9
77.5°	544.6	496.2	417.4	365.6	339.3	315.2	309.6	300.6	316.5	332.4	358.0
80°	393.9	358.7	311.7	257.1	248.1	232.2	226.7	217.0	232.2	242.6	261.9
82.5°	254.3	230.8	203.9	165.9	164.5	152.7	150.0	138.9	152.7	159.0	173.5
85°	128.6	117.5	110.6	84.3	87.1	79.5	78.8	67.0	78.1	80.9	89.2
87.5°	36.6	38.7	34.6	20.7	26.3	24.9	24.9	18.0	24.9	24.9	28.3
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: P838170

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3STD-27-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9	2962.9
2.5°	2965.7	2977.4	2980.2	2979.5	2987.1	3028.6	3014.7	3028.6
5°	2972.6	2998.8	3005.7	3015.4	3027.9	3074.9	3059.7	3076.2
7.5°	2976.7	3016.1	3031.3	3050.0	3070.0	3122.5	3110.1	3126.7
10°	2976.7	3027.9	3050.0	3081.1	3108.0	3168.9	3157.1	3176.5
12.5°	2964.3	3029.9	3061.0	3104.6	3139.1	3204.8	3200.0	3213.8
15°	2938.7	3019.6	3062.4	3118.4	3161.2	3234.5	3232.4	3249.0
17.5°	2904.1	3001.6	3053.4	3123.9	3177.8	3260.1	3264.9	3273.9
20°	2860.6	2967.7	3035.5	3121.9	3189.6	3280.1	3286.3	3298.8
22.5°	2803.2	2927.0	3008.5	3112.9	3191.0	3288.4	3299.5	3311.2
25°	2735.5	2877.9	2973.3	3095.6	3184.1	3287.7	3302.9	3313.3
27.5°	2658.1	2814.3	2928.3	3067.9	3164.7	3276.7	3295.3	3307.8
30°	2568.3	2746.6	2877.2	3032.0	3138.4	3255.9	3276.0	3288.4
32.5°	2475.6	2671.9	2816.4	2985.7	3100.4	3222.8	3240.0	3249.7
35°	2374.7	2581.4	2743.1	2926.3	3051.4	3169.5	3182.7	3193.0
37.5°	2264.8	2483.2	2659.5	2859.2	2982.2	3095.6	3107.3	3119.1
40°	2151.5	2380.3	2565.5	2777.0	2900.0	3005.1	3017.5	3025.8
42.5°	2037.5	2266.2	2465.3	2680.2	2802.6	2903.5	2911.1	2919.4
45°	1922.0	2148.0	2352.6	2573.1	2694.0	2788.7	2791.5	2798.4
47.5°	1804.6	2025.7	2228.9	2450.8	2570.3	2656.7	2659.5	2665.0
50°	1686.4	1903.4	2096.9	2318.8	2435.6	2526.8	2514.3	2519.9
52.5°	1570.3	1774.8	1972.5	2176.4	2291.8	2372.7	2376.1	2365.1
55°	1456.2	1649.0	1830.8	2027.1	2137.0	2199.9	2197.8	2202.0
57.5°	1340.8	1521.9	1688.4	1868.1	1975.3	2034.7	2047.1	2032.6
60°	1223.3	1393.3	1542.6	1705.0	1808.7	1858.5	1873.0	1859.2
62.5°	1106.5	1262.7	1398.2	1539.8	1635.9	1697.4	1696.0	1680.8
65°	989.7	1131.4	1252.3	1372.6	1456.2	1517.7	1515.0	1501.1
67.5°	881.9	998.7	1107.2	1204.6	1277.2	1319.4	1333.9	1317.3
70°	763.0	863.9	959.3	1037.4	1097.5	1135.5	1149.4	1134.8
72.5°	644.1	729.8	796.9	872.2	918.5	950.3	964.8	951.0
75°	526.6	597.1	651.7	710.5	743.0	769.9	786.5	772.7
77.5°	412.6	467.2	510.7	553.6	590.9	597.1	611.7	602.7
80°	304.1	343.5	375.3	403.6	430.6	433.3	445.1	439.6
82.5°	202.5	228.8	237.1	266.8	284.1	281.3	293.0	288.9
85°	107.1	123.0	137.5	146.5	156.2	147.2	157.6	153.4
87.5°	35.9	38.0	33.2	47.0	51.8	44.2	50.5	48.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)