

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: P838157

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5LO-20-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838157
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-LD4-5LO-20-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

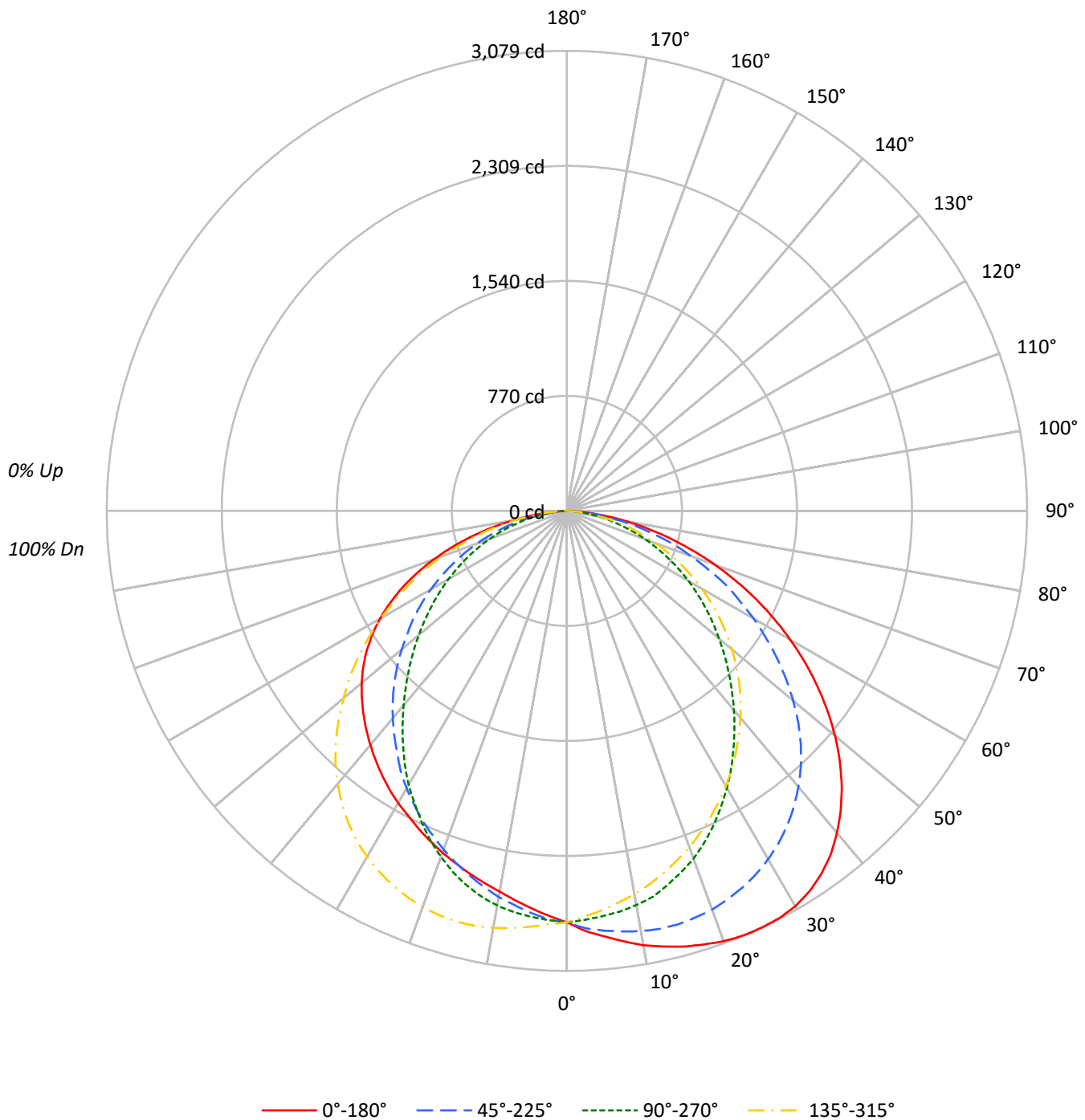
Lumens per Lamp: N/A
Luminaire Lumens: 8078.1 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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



Cooper Lighting Solutions Photometric Lab

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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°	3705	3705	3705	3705
5°	3861	3678	3609	3684
10°	4033	3659	3535	3664
15°	4206	3613	3501	3613
20°	4389	3547	3485	3527
25°	4571	3448	3485	3413
30°	4748	3328	3508	3291
35°	4874	3191	3544	3141
40°	4939	3054	3593	2985
45°	4948	2915	3663	2841
50°	4902	2782	3752	2708
55°	4800	2658	3836	2584
60°	4649	2528	3887	2463
65°	4441	2380	3867	2325
70°	4149	2206	3729	2165
75°	3733	1967	3422	1957
80°	3165	1647	2876	1672
85°	2201	1090	1825	1121

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.4	3.2
10°-20°	757.0	9.4
20°-30°	1160.1	14.4
30°-40°	1410.7	17.5
40°-50°	1466.5	18.2
50°-60°	1324.7	16.4
60°-70°	1007.1	12.5
70°-80°	561.4	7.0
80°-90°	129.3	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°	2178.6	27.0
0°-40°	3589.2	44.4
0°-60°	6380.4	79.0
0°-90°	8078.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8078.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2753	2753	2753	2753	2753	
5°	2859	2723	2672	2728	2859	276
15°	3019	2594	2513	2594	3019	856
25°	3079	2322	2348	2299	3079	1422
35°	2967	1943	2157	1912	2967	1853
45°	2601	1532	1925	1493	2601	2002
55°	2046	1133	1635	1102	2046	1827
65°	1395	748	1214	730	1395	1379
75°	718	378	658	376	718	763
85°	143	71	118	73	143	180
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°	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4
2.5°	2814.4	2773.3	2774.0	2809.9	2782.3	2795.8	2757.3	2772.0	2767.5	2770.8	2739.3
5°	2858.7	2814.4	2813.8	2844.6	2813.8	2819.6	2770.8	2780.4	2766.3	2757.3	2723.2
7.5°	2905.6	2861.3	2856.8	2883.8	2843.3	2838.8	2784.9	2784.9	2759.2	2736.7	2704.6
10°	2951.9	2906.3	2900.5	2921.0	2870.9	2856.2	2790.7	2780.4	2746.3	2712.9	2678.3
12.5°	2986.6	2940.3	2935.8	2948.7	2892.1	2865.2	2790.7	2770.8	2720.7	2673.8	2646.8
15°	3019.3	2971.8	2959.6	2966.0	2901.1	2865.2	2781.7	2750.8	2686.6	2625.0	2593.5
17.5°	3042.4	2996.8	2984.6	2984.0	2905.6	2854.2	2762.4	2720.0	2642.9	2568.4	2537.0
20°	3065.6	3020.0	3004.5	2993.0	2904.3	2839.5	2734.1	2677.0	2587.1	2503.6	2477.2
22.5°	3077.1	3030.2	3013.5	2996.2	2896.0	2812.5	2699.5	2626.9	2524.1	2424.6	2402.7
25°	3079.0	3030.9	3012.9	2987.8	2879.3	2780.4	2654.5	2566.5	2451.5	2341.1	2322.4
27.5°	3073.9	3021.2	3003.3	2973.1	2854.2	2741.2	2601.2	2497.8	2374.5	2252.4	2232.5
30°	3055.9	3002.6	2985.3	2946.1	2818.9	2693.0	2542.7	2421.4	2289.1	2159.3	2142.0
32.5°	3020.0	2967.9	2953.8	2914.6	2780.4	2637.2	2474.7	2339.1	2194.6	2070.7	2045.0
35°	2967.3	2915.3	2906.3	2865.2	2726.4	2570.4	2400.2	2249.2	2094.4	1967.9	1942.9
37.5°	2898.6	2854.9	2841.4	2800.9	2662.9	2494.6	2314.7	2151.6	1992.3	1856.2	1840.7
40°	2811.9	2770.8	2760.5	2724.5	2589.0	2410.4	2222.3	2050.8	1887.0	1760.5	1738.6
42.5°	2712.9	2674.4	2668.6	2631.4	2497.8	2317.3	2122.1	1946.1	1777.2	1655.1	1633.3
45°	2600.6	2563.3	2562.0	2526.7	2398.2	2213.9	2016.7	1840.1	1669.9	1543.4	1531.8
47.5°	2476.6	2443.2	2443.2	2410.4	2287.1	2100.2	1908.2	1729.6	1562.0	1450.2	1429.7
50°	2341.7	2310.2	2300.6	2284.6	2164.5	1976.3	1793.9	1621.7	1455.4	1348.8	1328.9
52.5°	2197.8	2170.9	2177.3	2147.8	2031.5	1847.2	1678.3	1500.3	1348.1	1251.1	1231.2
55°	2046.3	2007.7	2013.5	2002.6	1892.8	1714.2	1548.5	1400.1	1242.8	1151.6	1133.0
57.5°	1888.9	1838.8	1859.4	1852.9	1745.0	1578.1	1429.7	1286.5	1138.1	1054.0	1036.0
60°	1727.7	1679.5	1700.7	1695.0	1593.5	1441.9	1307.0	1174.1	1034.1	957.6	939.6
62.5°	1562.0	1517.7	1537.0	1532.5	1439.3	1302.5	1185.0	1063.0	929.4	860.6	843.9
65°	1395.0	1352.6	1370.0	1366.8	1280.7	1176.6	1059.7	948.0	824.0	764.3	747.6
67.5°	1224.2	1185.0	1201.0	1201.0	1122.0	1022.5	933.9	831.7	720.6	669.2	653.8
70°	1054.6	1018.0	1032.1	1030.8	964.0	883.1	806.7	715.5	615.9	573.5	560.7
72.5°	883.8	851.7	864.5	863.2	807.3	755.3	679.5	600.5	513.8	479.8	468.2
75°	718.1	687.9	700.1	698.8	653.2	604.4	553.6	488.1	413.6	389.9	378.3
77.5°	560.1	529.2	539.5	539.5	506.1	470.8	430.3	379.6	326.9	301.2	292.9
80°	408.5	393.7	388.6	389.2	366.7	343.6	323.1	274.2	235.7	218.4	212.6
82.5°	268.5	256.3	251.1	252.4	239.6	225.4	212.6	178.6	152.9	142.6	139.4
85°	142.6	133.6	129.1	132.3	129.7	122.0	115.6	92.5	76.4	72.6	70.6
87.5°	45.0	39.2	36.0	47.5	40.5	36.0	34.7	27.6	21.2	21.2	20.6
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°	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4
2.5°	2749.6	2749.6	2724.5	2718.7	2716.2	2719.4	2694.3	2689.8	2725.8	2713.6	2686.0
5°	2727.7	2726.4	2691.1	2684.7	2684.7	2680.8	2652.6	2646.2	2682.1	2671.8	2641.7
7.5°	2700.7	2696.9	2655.1	2650.6	2644.2	2641.7	2610.2	2605.7	2636.5	2630.1	2601.8
10°	2668.0	2664.1	2614.7	2611.5	2604.4	2599.3	2569.7	2566.5	2598.0	2587.7	2565.2
12.5°	2625.0	2617.9	2567.2	2563.9	2558.2	2556.2	2527.3	2526.0	2560.7	2550.5	2526.7
15°	2568.4	2562.7	2506.1	2507.4	2508.1	2508.1	2484.9	2483.7	2517.7	2513.2	2487.5
17.5°	2506.1	2498.4	2444.5	2448.3	2452.8	2458.0	2440.0	2443.2	2479.2	2473.4	2450.3
20°	2435.5	2427.8	2375.1	2386.0	2395.7	2405.9	2394.4	2403.4	2436.8	2434.2	2416.9
22.5°	2356.5	2348.8	2300.0	2316.7	2332.7	2352.0	2346.9	2357.1	2392.5	2391.8	2376.4
25°	2260.1	2262.1	2219.0	2239.6	2266.6	2293.5	2295.5	2312.2	2351.4	2347.5	2333.4
27.5°	2170.2	2172.8	2127.2	2161.9	2197.8	2232.5	2240.9	2264.0	2303.8	2300.6	2288.4
30°	2075.8	2079.0	2034.7	2082.2	2125.9	2168.3	2186.3	2217.8	2258.2	2258.2	2245.4
32.5°	1977.6	1983.3	1937.1	2000.7	2051.4	2100.9	2132.3	2165.1	2211.3	2210.1	2199.1
35°	1876.7	1883.1	1840.7	1921.7	1972.4	2032.8	2072.0	2115.6	2156.7	2157.4	2149.0
37.5°	1774.0	1781.7	1743.1	1831.8	1889.6	1960.9	2010.9	2054.6	2100.2	2102.8	2095.1
40°	1671.8	1680.2	1646.8	1732.2	1805.4	1885.1	1942.9	1994.2	2044.3	2045.6	2040.5
42.5°	1569.7	1578.7	1553.7	1637.1	1720.0	1805.4	1873.5	1931.9	1983.3	1986.5	1980.8
45°	1470.2	1477.9	1459.9	1551.1	1630.7	1723.9	1802.2	1868.4	1920.4	1924.9	1923.0
47.5°	1371.2	1378.3	1362.3	1445.8	1537.6	1636.5	1727.1	1800.3	1855.5	1860.7	1859.4
50°	1274.3	1280.0	1262.7	1350.1	1441.3	1546.6	1641.0	1725.8	1787.4	1792.6	1791.9
52.5°	1177.9	1183.7	1168.9	1260.8	1343.6	1454.7	1557.5	1649.4	1710.4	1718.1	1719.4
55°	1084.8	1087.4	1075.8	1163.8	1244.1	1360.3	1478.5	1567.8	1628.8	1635.2	1639.1
57.5°	991.7	992.3	982.7	1066.8	1143.9	1262.7	1386.7	1480.4	1538.2	1544.7	1550.4
60°	899.2	898.5	887.6	969.2	1043.0	1160.6	1289.7	1382.8	1438.7	1444.5	1452.2
62.5°	807.3	805.4	795.8	870.9	940.3	1056.5	1186.3	1276.2	1329.5	1333.4	1343.6
65°	716.1	714.2	705.2	774.6	837.5	948.6	1075.8	1161.2	1209.4	1214.5	1212.6
67.5°	626.2	622.4	615.3	677.6	734.8	837.5	959.6	1041.1	1080.9	1085.4	1097.6
70°	536.3	531.8	515.7	581.9	632.0	723.8	837.5	910.1	943.5	948.0	946.1
72.5°	447.7	443.2	425.8	486.8	529.2	609.5	711.0	771.4	800.3	804.1	804.1
75°	361.6	359.0	348.1	394.4	429.7	495.2	581.3	631.4	653.8	658.3	657.0
77.5°	278.7	276.8	265.9	305.7	333.3	382.2	451.5	490.7	507.4	512.5	523.5
80°	199.7	199.1	181.8	220.9	233.1	274.2	325.0	355.2	364.2	371.2	378.9
82.5°	127.8	128.5	111.1	144.5	149.6	176.0	207.5	226.1	232.5	238.3	244.1
85°	62.3	64.9	55.2	76.4	77.1	90.6	104.0	111.1	113.7	118.2	123.3
87.5°	16.1	18.6	10.3	21.8	19.3	25.0	28.9	30.8	30.2	33.4	35.3
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°	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4
2.5°	2695.0	2715.5	2705.2	2738.6	2751.5	2730.9	2766.9	2767.5	2741.9	2772.0	2788.7
5°	2653.2	2674.4	2668.0	2702.7	2718.7	2700.7	2744.4	2752.8	2727.7	2761.8	2788.7
7.5°	2610.8	2635.9	2627.5	2662.9	2682.1	2668.0	2714.9	2728.4	2709.1	2746.3	2782.3
10°	2574.2	2595.4	2586.4	2623.7	2640.4	2628.8	2675.1	2700.1	2682.1	2727.7	2770.8
12.5°	2538.3	2555.6	2545.3	2576.1	2592.2	2577.4	2634.0	2657.1	2644.2	2691.8	2747.0
15°	2492.0	2511.3	2497.1	2524.8	2537.0	2524.1	2570.4	2610.2	2594.1	2646.2	2707.2
17.5°	2456.7	2467.6	2448.3	2470.2	2477.2	2459.9	2506.8	2546.0	2534.4	2590.9	2661.6
20°	2417.5	2426.5	2399.5	2411.7	2411.1	2389.2	2432.3	2470.8	2463.1	2525.4	2605.7
22.5°	2373.8	2378.3	2346.9	2349.4	2348.1	2312.2	2350.7	2389.9	2386.7	2449.6	2539.5
25°	2327.6	2328.2	2287.8	2286.5	2272.4	2230.0	2264.0	2308.3	2298.7	2366.8	2461.2
27.5°	2282.0	2275.6	2226.8	2215.2	2192.7	2142.0	2172.2	2212.0	2206.2	2273.0	2377.7
30°	2233.2	2224.8	2165.1	2143.9	2111.1	2052.7	2077.7	2115.0	2118.2	2176.7	2286.5
32.5°	2186.9	2165.7	2099.6	2068.8	2027.6	1959.6	1973.1	2010.9	2016.1	2075.2	2188.2
35°	2127.2	2113.1	2031.5	1978.8	1938.4	1863.9	1878.0	1904.3	1912.0	1969.8	2084.8
37.5°	2070.7	2048.2	1961.5	1897.3	1845.2	1766.9	1770.7	1797.7	1805.4	1863.9	1977.6
40°	2012.2	1980.1	1887.0	1811.8	1752.1	1669.9	1665.4	1693.7	1699.4	1756.6	1859.4
42.5°	1949.9	1911.4	1806.7	1724.5	1655.8	1572.3	1563.3	1587.7	1594.1	1650.0	1750.8
45°	1887.0	1840.7	1724.5	1634.6	1559.4	1474.0	1465.0	1483.6	1493.3	1545.9	1642.9
47.5°	1820.2	1766.2	1639.7	1539.5	1461.8	1376.4	1365.5	1384.1	1391.8	1443.8	1535.7
50°	1750.2	1684.7	1552.4	1441.9	1364.8	1280.7	1264.6	1286.5	1293.5	1342.3	1432.3
52.5°	1673.1	1600.5	1459.2	1343.6	1266.6	1186.3	1167.0	1188.2	1196.5	1244.1	1326.9
55°	1591.5	1513.2	1365.5	1253.1	1169.6	1091.2	1075.2	1083.5	1101.5	1146.5	1223.5
57.5°	1499.7	1422.0	1266.6	1152.2	1071.9	996.8	983.3	991.0	1007.7	1051.4	1120.8
60°	1402.1	1319.9	1165.7	1051.4	973.7	902.4	890.2	897.3	915.2	955.1	1019.3
62.5°	1305.7	1213.2	1061.7	948.0	877.3	811.2	808.0	805.4	822.1	860.6	917.2
65°	1188.8	1100.2	953.1	845.2	781.0	721.3	708.4	714.2	730.3	765.6	824.7
67.5°	1063.6	983.3	842.0	742.5	685.3	632.0	621.1	623.6	640.3	671.2	722.6
70°	930.6	860.0	728.3	639.1	590.9	540.8	533.7	534.4	550.4	577.4	622.4
72.5°	791.3	727.7	613.4	536.9	497.1	461.2	454.7	447.0	461.8	484.9	523.5
75°	649.3	593.5	499.0	436.7	405.3	375.1	369.3	361.6	376.4	396.3	426.5
77.5°	506.1	461.2	387.9	339.8	315.4	292.9	287.7	279.4	294.2	308.9	332.7
80°	366.1	333.3	289.7	238.9	230.6	215.8	210.7	201.7	215.8	225.4	243.4
82.5°	236.4	214.5	189.5	154.1	152.9	141.9	139.4	129.1	141.9	147.7	161.2
85°	119.5	109.2	102.8	78.4	80.9	73.9	73.2	62.3	72.6	75.1	82.9
87.5°	34.0	36.0	32.1	19.3	24.4	23.1	23.1	16.7	23.1	23.1	26.3
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: P838157

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-5LO-20-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4	2753.4
2.5°	2756.0	2766.9	2769.5	2768.8	2775.9	2814.4	2801.6	2814.4
5°	2762.4	2786.8	2793.2	2802.2	2813.8	2857.5	2843.3	2858.7
7.5°	2766.3	2802.9	2817.0	2834.3	2853.0	2901.8	2890.2	2905.6
10°	2766.3	2813.8	2834.3	2863.2	2888.3	2944.8	2933.9	2951.9
12.5°	2754.7	2815.7	2844.6	2885.1	2917.2	2978.2	2973.7	2986.6
15°	2730.9	2806.1	2845.9	2897.9	2937.7	3005.8	3003.9	3019.3
17.5°	2698.8	2789.4	2837.6	2903.1	2953.2	3029.6	3034.1	3042.4
20°	2658.4	2757.9	2820.9	2901.1	2964.1	3048.2	3054.0	3065.6
22.5°	2605.0	2720.0	2795.8	2892.8	2965.4	3055.9	3066.2	3077.1
25°	2542.1	2674.4	2763.0	2876.7	2958.9	3055.3	3069.4	3079.0
27.5°	2470.2	2615.3	2721.3	2851.0	2941.0	3045.0	3062.3	3073.9
30°	2386.7	2552.4	2673.8	2817.6	2916.5	3025.7	3044.4	3055.9
32.5°	2300.6	2483.0	2617.3	2774.6	2881.2	2994.9	3011.0	3020.0
35°	2206.8	2398.9	2549.2	2719.4	2835.6	2945.5	2957.7	2967.3
37.5°	2104.7	2307.7	2471.5	2657.1	2771.4	2876.7	2887.6	2898.6
40°	1999.4	2212.0	2384.1	2580.6	2695.0	2792.6	2804.2	2811.9
42.5°	1893.4	2106.0	2291.0	2490.7	2604.4	2698.2	2705.2	2712.9
45°	1786.2	1996.2	2186.3	2391.2	2503.6	2591.6	2594.1	2600.6
47.5°	1677.0	1882.5	2071.3	2277.5	2388.6	2468.9	2471.5	2476.6
50°	1567.1	1768.8	1948.6	2154.8	2263.4	2348.1	2336.6	2341.7
52.5°	1459.2	1649.4	1833.0	2022.5	2129.8	2204.9	2208.1	2197.8
55°	1353.3	1532.5	1701.4	1883.8	1985.9	2044.3	2042.4	2046.3
57.5°	1246.0	1414.3	1569.1	1736.1	1835.6	1890.8	1902.4	1888.9
60°	1136.8	1294.8	1433.5	1584.5	1680.8	1727.1	1740.6	1727.7
62.5°	1028.3	1173.4	1299.3	1431.0	1520.3	1577.4	1576.1	1562.0
65°	919.7	1051.4	1163.8	1275.5	1353.3	1410.4	1407.9	1395.0
67.5°	819.5	928.1	1028.9	1119.5	1186.9	1226.1	1239.6	1224.2
70°	709.1	802.8	891.5	964.0	1019.9	1055.3	1068.1	1054.6
72.5°	598.6	678.2	740.5	810.5	853.6	883.1	896.6	883.8
75°	489.4	554.9	605.7	660.3	690.4	715.5	730.9	718.1
77.5°	383.4	434.2	474.6	514.5	549.1	554.9	568.4	560.1
80°	282.6	319.2	348.8	375.1	400.1	402.7	413.6	408.5
82.5°	188.2	212.6	220.3	247.9	264.0	261.4	272.3	268.5
85°	99.6	114.3	127.8	136.2	145.2	136.8	146.4	142.6
87.5°	33.4	35.3	30.8	43.7	48.2	41.1	46.9	45.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)