

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: PORTFOLIO

Report Number: P244211

Luminaire Tested: **LD8B50D010 ER8B50940 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244211
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B50D010 ER8B50940 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5152.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

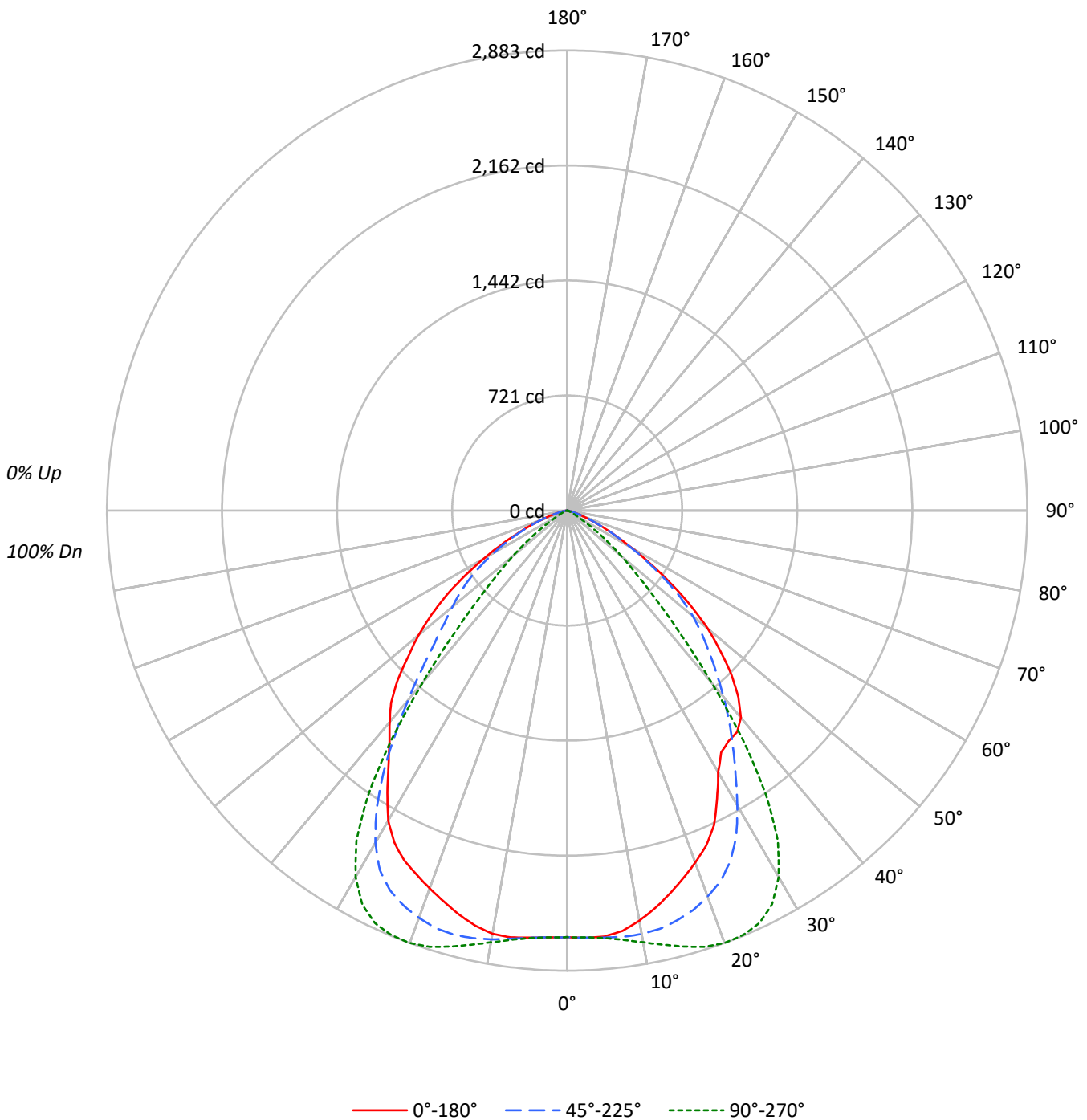
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	82416	82416	82416
5°	82907	83214	83124
10°	81687	85998	84311
15°	79299	90259	83648
20°	76998	94593	82632
25°	74043	97016	82246
30°	67382	94358	79809
35°	66378	81759	73429
40°	68182	56706	69611
45°	63473	34272	65453
50°	55058	21166	58325
55°	42251	11059	49498
60°	28783	4459	37355
65°	17906	2277	25771
70°	9719	1406	15733
75°	5075	679	9293
80°	2273	764	5043
85°	1521	495	4529



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.0	5.0
10°-20°	761.4	14.8
20°-30°	1161.6	22.5
30°-40°	1212.2	23.5
40°-50°	910.5	17.7
50°-60°	560.2	10.9
60°-70°	228.0	4.4
70°-80°	53.7	1.0
80°-90°	7.4	0.1
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°	2180.1	42.3
0°-40°	3392.2	65.8
0°-60°	4862.9	94.4
0°-90°	5152.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5152.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2673	2673	2673	2673	2673	
5°	2678	2685	2688	2685	2685	253
15°	2484	2658	2827	2749	2620	700
25°	2176	2420	2851	2626	2417	989
35°	1763	1813	2172	2007	1951	1113
45°	1456	1260	786	1173	1501	1111
55°	786	746	206	746	921	706
65°	245	248	31	333	353	256
75°	43	43	6	75	78	51
85°	4	4	1	10	13	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7
2.5°	2679.8	2675.5	2679.8	2679.8	2681.2	2678.4	2679.8	2681.2	2678.4	2678.4	2678.4
5°	2678.4	2675.5	2678.4	2676.9	2679.8	2679.8	2682.6	2682.6	2685.4	2685.4	2689.7
7.5°	2655.7	2650.0	2655.7	2659.9	2662.7	2668.4	2675.5	2681.2	2686.9	2692.6	2699.6
10°	2608.8	2608.8	2613.1	2621.6	2630.1	2640.0	2652.8	2667.0	2681.2	2694.0	2706.7
12.5°	2550.7	2546.4	2554.9	2566.3	2579.1	2594.7	2614.5	2635.8	2658.5	2684.0	2703.9
15°	2484.0	2479.7	2489.7	2501.0	2516.6	2539.3	2563.5	2591.8	2624.5	2658.5	2691.1
17.5°	2415.9	2414.5	2424.4	2440.0	2452.8	2476.9	2508.1	2542.2	2579.1	2624.5	2667.0
20°	2346.4	2345.0	2354.9	2367.7	2384.7	2407.4	2438.6	2478.3	2522.3	2573.4	2623.0
22.5°	2274.0	2275.5	2284.0	2298.2	2312.4	2336.5	2369.1	2408.8	2457.0	2512.4	2567.7
25°	2176.2	2169.1	2180.4	2194.6	2218.7	2238.6	2269.8	2312.4	2362.0	2420.2	2485.4
27.5°	2034.3	2032.9	2042.8	2055.6	2076.9	2101.0	2135.0	2179.0	2231.5	2295.3	2359.2
30°	1892.4	1895.3	1899.5	1912.3	1926.5	1950.6	1984.7	2021.6	2071.2	2132.2	2200.3
32.5°	1796.0	1796.0	1801.7	1810.2	1820.1	1832.9	1857.0	1883.9	1922.2	1964.8	2014.4
35°	1763.3	1757.7	1763.3	1764.8	1766.2	1769.0	1773.3	1781.8	1794.5	1813.0	1831.4
37.5°	1749.2	1744.9	1744.9	1739.2	1732.1	1723.6	1712.3	1699.5	1685.3	1666.9	1652.7
40°	1693.8	1691.0	1688.2	1682.5	1666.9	1649.9	1631.4	1601.6	1569.0	1523.6	1478.2
42.5°	1587.5	1584.6	1583.2	1571.8	1557.6	1537.8	1516.5	1485.3	1444.2	1386.0	1320.7
45°	1455.5	1449.8	1445.6	1435.7	1425.7	1408.7	1388.8	1360.4	1319.3	1259.7	1181.7
47.5°	1302.3	1299.5	1298.0	1293.8	1283.9	1273.9	1261.2	1238.5	1201.6	1144.8	1064.0
50°	1147.7	1142.0	1144.8	1143.4	1139.2	1132.1	1123.5	1108.0	1079.6	1028.5	954.7
52.5°	970.3	970.3	968.9	973.2	974.6	973.2	974.6	957.6	933.5	895.1	832.7
55°	785.9	785.9	790.2	795.9	801.5	802.9	801.5	794.4	777.4	746.2	690.9
57.5°	612.8	610.0	618.5	627.0	632.7	638.4	634.1	628.5	618.5	593.0	550.4
60°	466.7	466.7	472.4	478.1	483.7	489.4	488.0	486.6	478.1	461.0	427.0
62.5°	343.3	344.7	344.7	349.0	354.6	360.3	364.6	360.3	356.1	344.7	322.0
65°	245.4	244.0	245.4	249.7	253.9	259.6	262.5	261.0	256.8	248.3	231.2
67.5°	164.6	163.1	168.8	170.2	173.1	178.8	177.3	178.8	177.3	170.2	156.1
70°	107.8	105.0	107.8	106.4	110.7	112.1	114.9	116.3	114.9	110.7	106.4
72.5°	66.7	65.3	66.7	68.1	69.5	70.9	73.8	73.8	72.3	69.5	63.8
75°	42.6	38.3	39.7	36.9	39.7	39.7	42.6	44.0	42.6	42.6	39.7
77.5°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	27.0	28.4	25.5	24.1
80°	12.8	12.8	14.2	14.2	14.2	15.6	14.2	14.2	14.2	15.6	11.4
82.5°	9.9	8.5	8.5	8.5	9.9	8.5	8.5	8.5	8.5	8.5	8.5
85°	4.3	5.7	4.3	2.8	4.3	4.3	5.7	4.3	4.3	4.3	5.7
87.5°	1.4	1.4	0.0	0.0	0.0	1.4	0.0	1.4	1.4	2.8	0.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7
2.5°	2679.8	2676.9	2676.9	2675.5	2678.4	2675.5	2676.9	2675.5	2675.5	2678.4	2675.5
5°	2689.7	2691.1	2688.3	2686.9	2691.1	2691.1	2691.1	2688.3	2688.3	2689.7	2688.3
7.5°	2703.9	2706.7	2708.2	2709.6	2712.4	2713.8	2713.8	2712.4	2711.0	2715.3	2709.6
10°	2719.5	2723.8	2732.3	2736.5	2743.6	2743.6	2746.5	2746.5	2743.6	2746.5	2745.0
12.5°	2713.8	2739.4	2753.6	2763.5	2773.4	2781.9	2784.8	2786.2	2784.8	2790.5	2784.8
15°	2723.8	2745.0	2767.7	2784.8	2803.2	2813.1	2816.0	2827.3	2830.2	2831.6	2823.1
17.5°	2708.2	2746.5	2770.6	2796.1	2823.1	2841.5	2858.5	2865.6	2867.1	2869.9	2858.5
20°	2672.7	2715.3	2752.1	2789.0	2820.2	2848.6	2862.8	2882.6	2877.0	2888.3	2872.7
22.5°	2624.5	2672.7	2719.5	2767.7	2800.4	2834.4	2864.2	2878.4	2885.5	2885.5	2868.4
25°	2547.9	2604.6	2655.7	2705.3	2755.0	2796.1	2830.2	2851.4	2855.7	2854.3	2834.4
27.5°	2428.7	2489.7	2549.3	2606.0	2667.0	2715.3	2755.0	2780.5	2787.6	2787.6	2766.3
30°	2264.1	2329.4	2387.6	2455.6	2518.1	2572.0	2627.3	2650.0	2662.7	2662.7	2638.7
32.5°	2068.3	2123.7	2177.6	2244.3	2312.4	2373.4	2425.8	2457.0	2472.7	2471.2	2450.0
35°	1855.6	1882.5	1923.7	1973.3	2034.3	2091.1	2142.1	2171.9	2198.9	2197.4	2177.6
37.5°	1642.8	1635.7	1639.9	1658.4	1696.7	1736.4	1776.1	1804.5	1827.2	1837.1	1832.9
40°	1434.2	1397.3	1361.9	1349.1	1351.9	1366.1	1387.4	1408.7	1434.2	1447.0	1452.7
42.5°	1247.0	1184.6	1122.1	1075.3	1048.4	1039.9	1049.8	1056.9	1072.5	1090.9	1109.4
45°	1096.6	1012.9	930.6	858.3	812.9	785.9	780.2	785.9	794.4	812.9	837.0
47.5°	973.2	875.3	783.1	702.2	635.5	600.1	590.2	587.3	595.8	612.8	645.5
50°	863.9	766.0	663.9	570.3	500.8	461.0	446.9	441.2	451.1	463.9	493.7
52.5°	744.8	648.3	543.3	452.5	380.2	339.1	323.4	314.9	320.6	337.6	367.4
55°	615.7	526.3	431.3	337.6	268.1	229.8	211.4	205.7	211.4	229.8	259.6
57.5°	486.6	411.4	331.9	244.0	181.6	143.3	124.8	119.2	134.8	141.9	173.1
60°	380.2	319.2	251.1	178.8	124.8	95.0	76.6	72.3	79.5	92.2	117.7
62.5°	285.2	246.8	192.9	127.7	92.2	61.0	51.1	46.8	51.1	61.0	80.9
65°	207.1	177.3	134.8	93.6	62.4	45.4	34.1	31.2	35.5	42.6	59.6
67.5°	141.9	119.2	93.6	65.3	42.6	28.4	24.1	24.1	25.5	31.2	44.0
70°	92.2	78.0	59.6	42.6	28.4	21.3	18.4	15.6	18.4	22.7	29.8
72.5°	58.2	49.6	38.3	29.8	21.3	15.6	12.8	11.4	14.2	17.0	22.7
75°	35.5	27.0	19.9	15.6	11.4	11.4	11.4	5.7	7.1	11.4	14.2
77.5°	21.3	18.4	15.6	12.8	9.9	5.7	5.7	5.7	7.1	8.5	12.8
80°	11.4	9.9	7.1	7.1	5.7	4.3	5.7	4.3	2.8	7.1	8.5
82.5°	7.1	5.7	5.7	5.7	7.1	2.8	4.3	2.8	4.3	5.7	4.3
85°	4.3	4.3	4.3	2.8	7.1	2.8	2.8	1.4	1.4	2.8	2.8
87.5°	0.0	1.4	1.4	0.0	1.4	0.0	1.4	1.4	1.4	1.4	1.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7	2672.7
2.5°	2676.9	2675.5	2676.9	2675.5	2675.5	2675.5	2676.9	2676.9	2675.5	2675.5	2678.4
5°	2688.3	2688.3	2688.3	2686.9	2685.4	2685.4	2688.3	2688.3	2684.0	2688.3	2688.3
7.5°	2712.4	2708.2	2712.4	2706.7	2703.9	2705.3	2706.7	2703.9	2701.1	2702.5	2702.5
10°	2743.6	2739.4	2739.4	2735.1	2730.9	2728.0	2725.2	2718.1	2711.0	2709.6	2703.9
12.5°	2780.5	2773.4	2769.2	2760.6	2753.6	2743.6	2735.1	2723.8	2709.6	2699.6	2689.7
15°	2817.4	2806.0	2796.1	2781.9	2766.3	2749.3	2730.9	2712.4	2689.7	2669.9	2652.8
17.5°	2847.2	2831.6	2813.1	2790.5	2767.7	2742.2	2715.3	2688.3	2655.7	2630.1	2610.3
20°	2857.1	2834.4	2810.3	2780.5	2750.7	2715.3	2681.2	2645.7	2608.8	2581.9	2559.2
22.5°	2844.4	2817.4	2787.6	2756.4	2716.7	2678.4	2638.7	2597.5	2564.9	2528.0	2506.7
25°	2808.9	2776.3	2743.6	2706.7	2668.4	2625.9	2583.3	2540.8	2501.0	2481.2	2454.2
27.5°	2736.5	2701.1	2665.6	2627.3	2583.3	2540.8	2496.8	2455.6	2421.6	2394.6	2379.1
30°	2608.8	2567.7	2526.6	2485.4	2447.1	2403.1	2362.0	2328.0	2293.9	2272.6	2257.0
32.5°	2413.1	2376.2	2335.1	2295.3	2259.9	2223.0	2188.9	2159.2	2135.0	2120.8	2109.5
35°	2149.2	2112.3	2081.1	2052.8	2022.9	2007.4	1986.1	1969.0	1959.1	1953.5	1952.0
37.5°	1817.2	1796.0	1786.0	1780.4	1774.7	1770.5	1773.3	1780.4	1786.0	1796.0	1807.3
40°	1462.6	1481.0	1486.7	1506.6	1525.0	1549.1	1576.1	1607.3	1632.8	1665.5	1688.2
42.5°	1139.2	1173.2	1212.9	1255.5	1300.9	1344.9	1398.8	1448.4	1493.8	1534.9	1570.4
45°	875.3	927.8	987.4	1048.4	1109.4	1173.2	1238.5	1299.5	1353.4	1397.3	1434.2
47.5°	682.4	740.5	817.1	892.3	966.1	1041.3	1113.6	1177.4	1222.8	1265.4	1298.0
50°	540.5	607.2	690.9	777.4	858.3	937.7	1014.3	1073.9	1119.3	1153.4	1177.4
52.5°	418.5	497.9	583.0	673.9	760.4	846.9	917.8	973.2	1010.1	1039.9	1058.3
55°	312.1	390.1	480.9	574.5	662.5	746.2	812.9	861.1	893.7	910.8	920.7
57.5°	225.6	296.5	387.3	480.9	560.3	639.8	693.7	737.7	756.1	766.0	770.3
60°	164.6	229.8	310.7	391.5	466.7	530.6	577.4	607.2	621.4	627.0	625.6
62.5°	120.6	177.3	246.8	314.9	375.9	428.4	465.3	485.2	492.3	495.1	490.9
65°	92.2	136.2	195.8	248.3	295.1	333.4	360.3	373.1	377.3	375.9	373.1
67.5°	68.1	102.2	146.1	185.8	219.9	249.7	263.9	275.2	278.0	273.8	269.5
70°	48.2	75.2	106.4	133.4	158.9	175.9	191.5	192.9	192.9	191.5	188.7
72.5°	34.1	52.5	72.3	90.8	106.4	119.2	124.8	129.1	127.7	126.2	123.4
75°	22.7	32.6	52.5	56.8	70.9	75.2	80.9	80.9	82.3	78.0	78.0
77.5°	14.2	22.7	31.2	36.9	42.6	48.2	51.1	51.1	52.5	51.1	51.1
80°	8.5	14.2	17.0	25.5	25.5	29.8	31.2	32.6	29.8	34.1	29.8
82.5°	5.7	8.5	12.8	12.8	15.6	18.4	18.4	19.9	19.9	18.4	18.4
85°	4.3	5.7	7.1	8.5	8.5	9.9	8.5	8.5	9.9	11.4	9.9
87.5°	1.4	2.8	1.4	2.8	2.8	5.7	4.3	4.3	4.3	5.7	5.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P244211

CATALOG NUMBER: LD8B50D010 ER8B50940 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2672.7	2672.7	2672.7	2672.7
2.5°	2675.5	2676.9	2675.5	2675.5
5°	2688.3	2686.9	2688.3	2685.4
7.5°	2698.2	2698.2	2696.8	2696.8
10°	2698.2	2692.6	2692.6	2692.6
12.5°	2676.9	2669.9	2665.6	2662.7
15°	2640.0	2627.3	2621.6	2620.2
17.5°	2591.8	2580.5	2573.4	2569.1
20°	2536.5	2525.2	2516.6	2518.1
22.5°	2488.3	2475.5	2469.8	2467.0
25°	2440.0	2424.4	2420.2	2417.3
27.5°	2362.0	2353.5	2349.2	2345.0
30°	2242.8	2238.6	2231.5	2241.4
32.5°	2105.2	2098.1	2092.5	2096.7
35°	1953.5	1949.2	1953.5	1950.6
37.5°	1814.4	1818.7	1824.4	1827.2
40°	1705.2	1720.8	1726.5	1729.3
42.5°	1596.0	1614.4	1625.7	1632.8
45°	1461.2	1479.6	1492.4	1500.9
47.5°	1322.2	1337.8	1350.5	1349.1
50°	1195.9	1204.4	1210.1	1215.8
52.5°	1068.2	1068.2	1069.6	1069.6
55°	923.5	920.7	919.3	920.7
57.5°	764.6	761.8	760.4	756.1
60°	619.9	611.4	605.7	605.7
62.5°	485.2	475.2	471.0	469.6
65°	364.6	363.2	354.6	353.2
67.5°	263.9	258.2	252.5	253.9
70°	185.8	177.3	177.3	174.5
72.5°	120.6	116.3	114.9	114.9
75°	75.2	75.2	72.3	78.0
77.5°	49.6	49.6	48.2	49.6
80°	29.8	29.8	29.8	28.4
82.5°	18.4	19.9	18.4	18.4
85°	9.9	11.4	8.5	12.8
87.5°	5.7	7.1	5.7	7.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)