

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: P244229

Luminaire Tested: **LSR8B50D010 EC8B50930 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244229
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: LSR8B50D010 EC8B50930 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4776.6 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

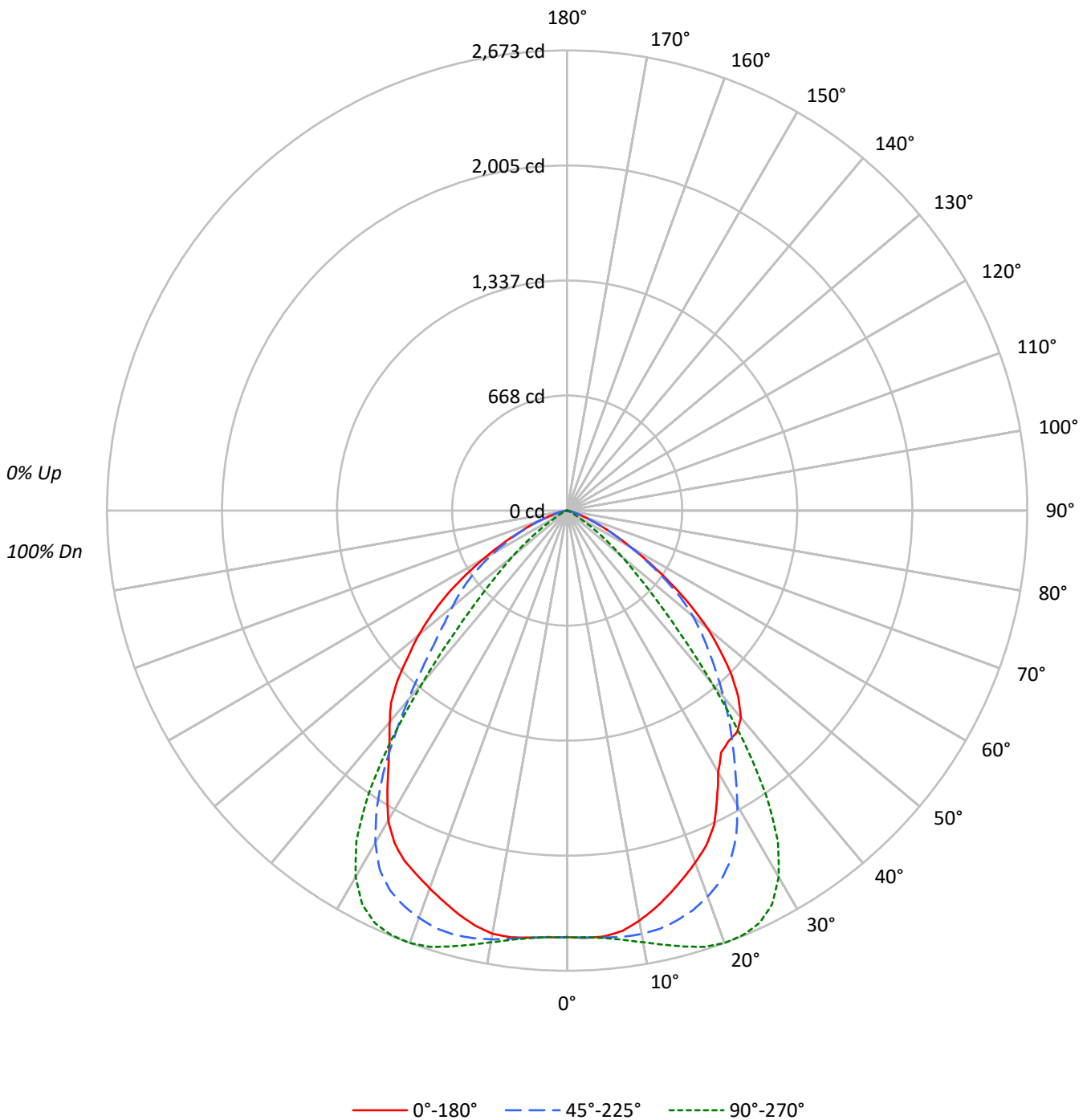
Input Watts (W): 53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.3	5.0
10°-20°	705.9	14.8
20°-30°	1077.0	22.5
30°-40°	1123.8	23.5
40°-50°	844.1	17.7
50°-60°	519.4	10.9
60°-70°	211.4	4.4
70°-80°	49.8	1.0
80°-90°	6.8	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°	2021.2	42.3
0°-40°	3145.0	65.8
0°-60°	4508.6	94.4
0°-90°	4776.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4776.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2478	2478	2478	2478	2478	
5°	2483	2490	2492	2490	2490	235
15°	2303	2465	2621	2549	2429	649
25°	2018	2244	2644	2435	2241	917
35°	1635	1681	2014	1861	1808	1032
45°	1350	1168	729	1088	1392	1030
55°	729	692	191	692	854	655
65°	228	230	29	309	327	237
75°	40	40	5	70	72	48
85°	4	4	1	9	12	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°	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0
2.5°	2484.5	2480.5	2484.5	2484.5	2485.8	2483.2	2484.5	2485.8	2483.2	2483.2	2483.2
5°	2483.2	2480.5	2483.2	2481.9	2484.5	2484.5	2487.2	2487.2	2489.7	2489.7	2493.8
7.5°	2462.2	2456.9	2462.2	2466.1	2468.7	2474.0	2480.5	2485.8	2491.1	2496.4	2503.0
10°	2418.8	2418.8	2422.7	2430.6	2438.5	2447.7	2459.5	2472.7	2485.8	2497.7	2509.5
12.5°	2364.9	2360.8	2368.8	2379.3	2391.1	2405.6	2424.1	2443.8	2464.7	2488.4	2506.9
15°	2303.0	2299.1	2308.3	2318.8	2333.2	2354.3	2376.6	2403.0	2433.2	2464.7	2495.0
17.5°	2239.9	2238.5	2247.7	2262.3	2274.1	2296.4	2325.4	2356.9	2391.1	2433.2	2472.7
20°	2175.4	2174.1	2183.4	2195.1	2210.9	2232.0	2260.9	2297.7	2338.5	2385.8	2431.9
22.5°	2108.4	2109.6	2117.6	2130.7	2143.9	2166.2	2196.5	2233.3	2278.0	2329.3	2380.6
25°	2017.6	2011.1	2021.5	2034.7	2057.0	2075.4	2104.5	2143.9	2189.9	2243.8	2304.3
27.5°	1886.1	1884.7	1893.9	1905.8	1925.5	1947.8	1979.5	2020.3	2068.9	2128.1	2187.3
30°	1754.6	1757.2	1761.1	1773.0	1786.1	1808.5	1840.0	1874.2	1920.3	1976.8	2040.0
32.5°	1665.1	1665.1	1670.4	1678.2	1687.4	1699.3	1721.6	1746.6	1782.2	1821.6	1867.7
35°	1634.9	1629.6	1634.9	1636.2	1637.4	1640.1	1644.1	1652.0	1663.8	1680.9	1698.0
37.5°	1621.8	1617.7	1617.7	1612.6	1605.9	1598.0	1587.6	1575.7	1562.6	1545.4	1532.3
40°	1570.4	1567.8	1565.1	1559.9	1545.4	1529.6	1512.6	1484.9	1454.6	1412.6	1370.5
42.5°	1471.8	1469.2	1467.8	1457.3	1444.2	1425.7	1406.0	1377.0	1338.9	1285.0	1224.5
45°	1349.5	1344.2	1340.3	1331.1	1321.8	1306.1	1287.6	1261.3	1223.1	1168.0	1095.6
47.5°	1207.4	1204.7	1203.4	1199.5	1190.3	1181.1	1169.3	1148.2	1114.0	1061.4	986.5
50°	1064.1	1058.8	1061.4	1060.1	1056.2	1049.6	1041.6	1027.2	1000.9	953.5	885.1
52.5°	899.6	899.6	898.4	902.3	903.5	902.3	903.5	887.8	865.4	829.9	772.0
55°	728.6	728.6	732.6	737.8	743.1	744.5	743.1	736.5	720.8	691.8	640.5
57.5°	568.1	565.5	573.5	581.4	586.6	591.9	587.9	582.7	573.5	549.7	510.3
60°	432.7	432.7	438.0	443.2	448.5	453.8	452.4	451.1	443.2	427.4	395.9
62.5°	318.3	319.6	319.6	323.5	328.8	334.1	338.0	334.1	330.1	319.6	298.5
65°	227.6	226.2	227.6	231.5	235.4	240.7	243.4	242.0	238.1	230.1	214.4
67.5°	152.6	151.2	156.5	157.8	160.4	165.7	164.5	165.7	164.5	157.8	144.7
70°	100.0	97.3	100.0	98.6	102.6	103.9	106.5	107.8	106.5	102.6	98.6
72.5°	61.8	60.5	61.8	63.1	64.5	65.8	68.4	68.4	67.0	64.5	59.2
75°	39.5	35.5	36.8	34.2	36.8	36.8	39.5	40.8	39.5	39.5	36.8
77.5°	23.7	23.7	23.7	23.7	23.7	23.7	23.7	25.0	26.3	23.7	22.4
80°	11.9	11.9	13.1	13.1	13.1	14.5	13.1	13.1	13.1	14.5	10.5
82.5°	9.2	7.8	7.8	7.8	9.2	7.8	7.8	7.8	7.8	7.8	7.8
85°	3.9	5.3	3.9	2.7	3.9	3.9	5.3	3.9	3.9	3.9	5.3
87.5°	1.3	1.3	0.0	0.0	0.0	1.3	0.0	1.3	1.3	2.7	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°	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0
2.5°	2484.5	2481.9	2481.9	2480.5	2483.2	2480.5	2481.9	2480.5	2480.5	2483.2	2480.5
5°	2493.8	2495.0	2492.4	2491.1	2495.0	2495.0	2495.0	2492.4	2492.4	2493.8	2492.4
7.5°	2506.9	2509.5	2510.8	2512.2	2514.7	2516.1	2516.1	2514.7	2513.5	2517.4	2512.2
10°	2521.4	2525.3	2533.1	2537.2	2543.7	2543.7	2546.4	2546.4	2543.7	2546.4	2545.0
12.5°	2516.1	2539.7	2552.9	2562.2	2571.3	2579.2	2581.9	2583.1	2581.9	2587.2	2581.9
15°	2525.3	2545.0	2566.1	2581.9	2598.9	2608.1	2610.8	2621.3	2623.9	2625.3	2617.3
17.5°	2510.8	2546.4	2568.7	2592.3	2617.3	2634.5	2650.3	2656.8	2658.1	2660.7	2650.3
20°	2478.0	2517.4	2551.6	2585.8	2614.7	2641.1	2654.2	2672.6	2667.3	2677.8	2663.4
22.5°	2433.2	2478.0	2521.4	2566.1	2596.3	2627.8	2655.5	2668.7	2675.3	2675.3	2659.5
25°	2362.2	2414.9	2462.2	2508.1	2554.2	2592.3	2623.9	2643.7	2647.6	2646.3	2627.8
27.5°	2251.8	2308.3	2363.5	2416.1	2472.7	2517.4	2554.2	2577.9	2584.5	2584.5	2564.7
30°	2099.2	2159.6	2213.5	2276.6	2334.6	2384.6	2435.8	2456.9	2468.7	2468.7	2446.4
32.5°	1917.6	1968.9	2018.9	2080.7	2143.9	2200.4	2249.1	2278.0	2292.4	2291.2	2271.5
35°	1720.4	1745.3	1783.5	1829.5	1886.1	1938.7	1986.0	2013.7	2038.7	2037.3	2018.9
37.5°	1523.1	1516.5	1520.4	1537.6	1573.0	1609.9	1646.6	1673.0	1694.1	1703.2	1699.3
40°	1329.7	1295.5	1262.6	1250.8	1253.4	1266.6	1286.3	1306.1	1329.7	1341.6	1346.8
42.5°	1156.1	1098.2	1040.4	997.0	971.9	964.1	973.3	979.9	994.3	1011.4	1028.5
45°	1016.7	939.1	862.8	795.7	753.6	728.6	723.4	728.6	736.5	753.6	776.0
47.5°	902.3	811.5	726.1	651.1	589.2	556.4	547.2	544.5	552.4	568.1	598.4
50°	801.0	710.3	615.5	528.7	464.3	427.4	414.3	409.1	418.2	430.1	457.7
52.5°	690.5	601.1	503.8	419.6	352.4	314.3	299.9	292.0	297.3	313.0	340.7
55°	570.8	488.0	399.9	313.0	248.5	213.1	196.0	190.7	196.0	213.1	240.7
57.5°	451.1	381.5	307.7	226.2	168.4	132.8	115.7	110.5	125.0	131.5	160.4
60°	352.4	295.9	232.8	165.7	115.7	88.1	71.1	67.0	73.6	85.5	109.2
62.5°	264.3	228.8	178.9	118.4	85.5	56.5	47.3	43.4	47.3	56.5	75.0
65°	192.0	164.5	125.0	86.8	57.8	42.1	31.6	28.9	32.8	39.5	55.3
67.5°	131.5	110.5	86.8	60.5	39.5	26.3	22.4	22.4	23.7	28.9	40.8
70°	85.5	72.3	55.3	39.5	26.3	19.7	17.0	14.5	17.0	21.1	27.6
72.5°	53.9	46.1	35.5	27.6	19.7	14.5	11.9	10.5	13.1	15.8	21.1
75°	32.8	25.0	18.4	14.5	10.5	10.5	10.5	5.3	6.6	10.5	13.1
77.5°	19.7	17.0	14.5	11.9	9.2	5.3	5.3	5.3	6.6	7.8	11.9
80°	10.5	9.2	6.6	6.6	5.3	3.9	5.3	3.9	2.7	6.6	7.8
82.5°	6.6	5.3	5.3	5.3	6.6	2.7	3.9	2.7	3.9	5.3	3.9
85°	3.9	3.9	3.9	2.7	6.6	2.7	2.7	1.3	1.3	2.7	2.7
87.5°	0.0	1.3	1.3	0.0	1.3	0.0	1.3	1.3	1.3	1.3	1.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0	2478.0
2.5°	2481.9	2480.5	2481.9	2480.5	2480.5	2480.5	2481.9	2481.9	2480.5	2480.5	2483.2
5°	2492.4	2492.4	2492.4	2491.1	2489.7	2489.7	2492.4	2492.4	2488.4	2492.4	2492.4
7.5°	2514.7	2510.8	2514.7	2509.5	2506.9	2508.1	2509.5	2506.9	2504.2	2505.5	2505.5
10°	2543.7	2539.7	2539.7	2535.8	2531.9	2529.2	2526.6	2520.0	2513.5	2512.2	2506.9
12.5°	2577.9	2571.3	2567.4	2559.5	2552.9	2543.7	2535.8	2525.3	2512.2	2503.0	2493.8
15°	2612.0	2601.6	2592.3	2579.2	2564.7	2548.9	2531.9	2514.7	2493.8	2475.3	2459.5
17.5°	2639.7	2625.3	2608.1	2587.2	2566.1	2542.4	2517.4	2492.4	2462.2	2438.5	2420.0
20°	2648.9	2627.8	2605.5	2577.9	2550.3	2517.4	2485.8	2453.0	2418.8	2393.8	2372.7
22.5°	2637.0	2612.0	2584.5	2555.5	2518.7	2483.2	2446.4	2408.2	2378.0	2343.8	2324.1
25°	2604.2	2573.9	2543.7	2509.5	2474.0	2434.6	2395.1	2355.7	2318.8	2300.4	2275.4
27.5°	2537.2	2504.2	2471.4	2435.8	2395.1	2355.7	2314.9	2276.6	2245.1	2220.1	2205.7
30°	2418.8	2380.6	2342.4	2304.3	2268.8	2228.0	2189.9	2158.4	2126.8	2107.0	2092.6
32.5°	2237.2	2203.1	2164.9	2128.1	2095.3	2061.0	2029.5	2001.8	1979.5	1966.3	1955.8
35°	1992.6	1958.4	1929.5	1903.2	1875.5	1861.1	1841.4	1825.5	1816.4	1811.1	1809.7
37.5°	1684.9	1665.1	1655.9	1650.7	1645.4	1641.5	1644.1	1650.7	1655.9	1665.1	1675.7
40°	1356.1	1373.1	1378.4	1396.8	1413.9	1436.2	1461.2	1490.1	1513.8	1544.1	1565.1
42.5°	1056.2	1087.7	1124.6	1164.0	1206.1	1246.9	1296.9	1342.8	1385.0	1423.1	1456.0
45°	811.5	860.1	915.4	971.9	1028.5	1087.7	1148.2	1204.7	1254.7	1295.5	1329.7
47.5°	632.6	686.6	757.6	827.3	895.7	965.4	1032.4	1091.6	1133.8	1173.2	1203.4
50°	501.1	563.0	640.5	720.8	795.7	869.3	940.4	995.7	1037.7	1069.3	1091.6
52.5°	388.0	461.6	540.5	624.7	705.0	785.3	851.0	902.3	936.5	964.1	981.2
55°	289.3	361.7	445.9	532.7	614.2	691.8	753.6	798.4	828.6	844.3	853.6
57.5°	209.1	274.9	359.1	445.9	519.5	593.2	643.1	683.9	701.1	710.3	714.2
60°	152.6	213.1	288.0	363.0	432.7	491.9	535.3	563.0	576.1	581.4	580.0
62.5°	111.8	164.5	228.8	292.0	348.5	397.2	431.4	449.9	456.4	459.0	455.1
65°	85.5	126.2	181.5	230.1	273.5	309.1	334.1	345.9	349.9	348.5	345.9
67.5°	63.1	94.7	135.5	172.3	203.9	231.5	244.6	255.1	257.8	253.9	249.9
70°	44.7	69.7	98.6	123.6	147.3	163.1	177.6	178.9	178.9	177.6	175.0
72.5°	31.6	48.7	67.0	84.2	98.6	110.5	115.7	119.7	118.4	117.0	114.5
75°	21.1	30.3	48.7	52.6	65.8	69.7	75.0	75.0	76.2	72.3	72.3
77.5°	13.1	21.1	28.9	34.2	39.5	44.7	47.3	47.3	48.7	47.3	47.3
80°	7.8	13.1	15.8	23.7	23.7	27.6	28.9	30.3	27.6	31.6	27.6
82.5°	5.3	7.8	11.9	11.9	14.5	17.0	17.0	18.4	18.4	17.0	17.0
85°	3.9	5.3	6.6	7.8	7.8	9.2	7.8	7.8	9.2	10.5	9.2
87.5°	1.3	2.7	1.3	2.7	2.7	5.3	3.9	3.9	3.9	5.3	5.3
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: P244229

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2478.0	2478.0	2478.0	2478.0
2.5°	2480.5	2481.9	2480.5	2480.5
5°	2492.4	2491.1	2492.4	2489.7
7.5°	2501.6	2501.6	2500.3	2500.3
10°	2501.6	2496.4	2496.4	2496.4
12.5°	2481.9	2475.3	2471.4	2468.7
15°	2447.7	2435.8	2430.6	2429.2
17.5°	2403.0	2392.4	2385.8	2381.9
20°	2351.6	2341.1	2333.2	2334.6
22.5°	2306.9	2295.1	2289.9	2287.2
25°	2262.3	2247.7	2243.8	2241.2
27.5°	2189.9	2182.0	2178.1	2174.1
30°	2079.5	2075.4	2068.9	2078.1
32.5°	1951.9	1945.3	1940.0	1943.9
35°	1811.1	1807.2	1811.1	1808.5
37.5°	1682.2	1686.1	1691.5	1694.1
40°	1580.9	1595.4	1600.7	1603.3
42.5°	1479.7	1496.8	1507.3	1513.8
45°	1354.7	1371.8	1383.7	1391.5
47.5°	1225.8	1240.3	1252.2	1250.8
50°	1108.8	1116.6	1121.9	1127.2
52.5°	990.4	990.4	991.6	991.6
55°	856.2	853.6	852.3	853.6
57.5°	708.9	706.3	705.0	701.1
60°	574.7	566.9	561.6	561.6
62.5°	449.9	440.6	436.6	435.4
65°	338.0	336.6	328.8	327.4
67.5°	244.6	239.3	234.2	235.4
70°	172.3	164.5	164.5	161.8
72.5°	111.8	107.8	106.5	106.5
75°	69.7	69.7	67.0	72.3
77.5°	46.1	46.1	44.7	46.1
80°	27.6	27.6	27.6	26.3
82.5°	17.0	18.4	17.0	17.0
85°	9.2	10.5	7.8	11.9
87.5°	5.3	6.6	5.3	6.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)