

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: P248416

Luminaire Tested: **LSR8B60D010 EC8B60927 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248416
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: LSR8B60D010 EC8B60927 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5133.4 lumens
Efficiency: N/A
Efficacy: 86.3 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

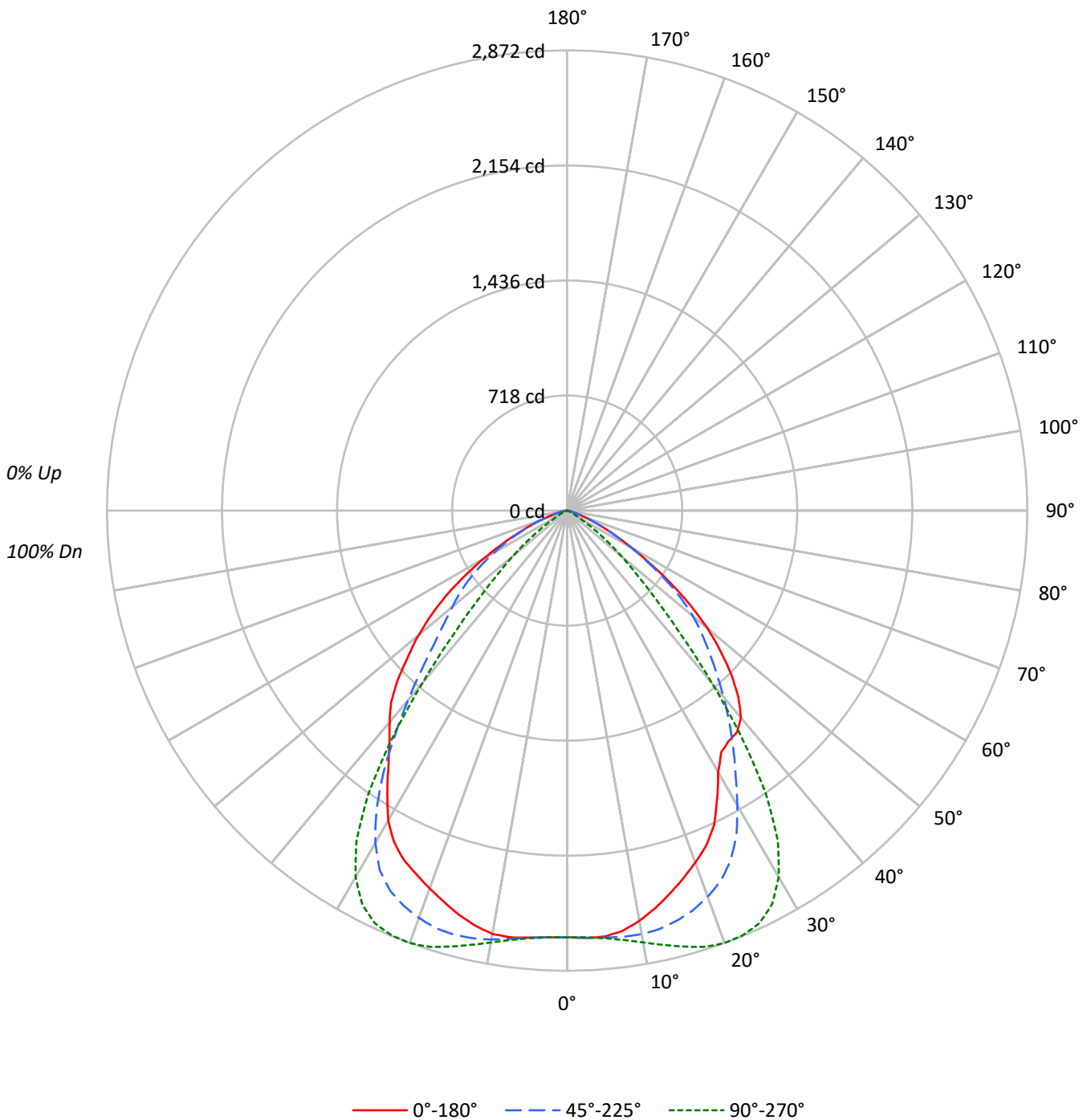
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	256.1	5.0
10°-20°	758.7	14.8
20°-30°	1157.4	22.5
30°-40°	1207.8	23.5
40°-50°	907.2	17.7
50°-60°	558.2	10.9
60°-70°	227.2	4.4
70°-80°	53.5	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°	2172.2	42.3
0°-40°	3380.0	65.8
0°-60°	4845.3	94.4
0°-90°	5133.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5133.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2663	2663	2663	2663	2663	
5°	2669	2676	2679	2676	2676	252
15°	2475	2649	2817	2739	2611	697
25°	2168	2411	2841	2616	2409	986
35°	1757	1806	2164	2000	1944	1109
45°	1450	1255	783	1169	1496	1107
55°	783	744	205	744	917	704
65°	245	247	31	332	352	255
75°	42	42	6	75	78	51
85°	4	4	2	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°	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0
2.5°	2670.1	2665.8	2670.1	2670.1	2671.5	2668.7	2670.1	2671.5	2668.7	2668.7	2668.7
5°	2668.7	2665.8	2668.7	2667.3	2670.1	2670.1	2672.9	2672.9	2675.7	2675.7	2680.0
7.5°	2646.1	2640.4	2646.1	2650.3	2653.1	2658.8	2665.8	2671.5	2677.2	2682.8	2689.9
10°	2599.4	2599.4	2603.7	2612.1	2620.6	2630.5	2643.2	2657.4	2671.5	2684.2	2697.0
12.5°	2541.5	2537.2	2545.6	2557.0	2569.7	2585.2	2605.0	2626.3	2648.9	2674.4	2694.2
15°	2475.0	2470.8	2480.6	2492.0	2507.5	2530.1	2554.2	2582.4	2615.0	2648.9	2681.4
17.5°	2407.2	2405.8	2415.6	2431.2	2444.0	2467.9	2499.1	2532.9	2569.7	2615.0	2657.4
20°	2338.0	2336.5	2346.4	2359.1	2376.1	2398.7	2429.8	2469.4	2513.1	2564.1	2613.6
22.5°	2265.9	2267.2	2275.8	2289.8	2304.0	2328.0	2360.5	2400.1	2448.1	2503.4	2558.5
25°	2168.3	2161.2	2172.6	2186.7	2210.7	2230.5	2261.6	2304.0	2353.5	2411.4	2476.5
27.5°	2026.9	2025.6	2035.5	2048.2	2069.3	2093.4	2127.3	2171.1	2223.5	2287.0	2350.7
30°	1885.6	1888.4	1892.7	1905.4	1919.5	1943.6	1977.5	2014.2	2063.7	2124.5	2192.3
32.5°	1789.4	1789.4	1795.2	1803.6	1813.5	1826.2	1850.3	1877.1	1915.3	1957.7	2007.1
35°	1756.9	1751.3	1756.9	1758.4	1759.8	1762.6	1766.8	1775.4	1788.1	1806.4	1824.9
37.5°	1742.8	1738.6	1738.6	1733.0	1725.9	1717.4	1706.1	1693.4	1679.3	1660.8	1646.8
40°	1687.7	1684.9	1682.1	1676.4	1660.8	1643.8	1625.5	1595.8	1563.3	1518.1	1472.9
42.5°	1581.8	1578.9	1577.5	1566.1	1552.0	1532.2	1511.0	1479.9	1439.0	1380.9	1315.9
45°	1450.2	1444.6	1440.3	1430.4	1420.5	1403.6	1383.9	1355.5	1314.6	1255.2	1177.4
47.5°	1297.6	1294.8	1293.3	1289.1	1279.2	1269.3	1256.6	1234.0	1197.2	1140.6	1060.1
50°	1143.6	1137.8	1140.6	1139.3	1135.0	1128.0	1119.5	1104.0	1075.6	1024.8	951.3
52.5°	966.8	966.8	965.5	969.6	971.1	969.6	971.1	954.1	930.0	891.9	829.7
55°	783.1	783.1	787.3	793.0	798.6	800.0	798.6	791.6	774.6	743.5	688.4
57.5°	610.6	607.8	616.3	624.7	630.4	636.1	631.8	626.2	616.3	590.8	548.4
60°	465.1	465.1	470.7	476.3	482.0	487.7	486.2	484.9	476.3	459.3	425.5
62.5°	342.0	343.5	343.5	347.7	353.4	359.0	363.3	359.0	354.8	343.5	320.8
65°	244.6	243.1	244.6	248.7	253.0	258.6	261.4	260.1	255.8	247.4	230.4
67.5°	164.0	162.6	168.2	169.6	172.5	178.1	176.7	178.1	176.7	169.6	155.5
70°	107.4	104.6	107.4	106.0	110.2	111.7	114.5	115.9	114.5	110.2	106.0
72.5°	66.5	65.0	66.5	67.8	69.3	70.6	73.5	73.5	72.1	69.3	63.6
75°	42.4	38.1	39.6	36.8	39.6	39.6	42.4	43.9	42.4	42.4	39.6
77.5°	25.4	25.4	25.4	25.4	25.4	25.4	25.4	26.9	28.2	25.4	24.1
80°	12.7	12.7	14.2	14.2	14.2	15.5	14.2	14.2	14.2	15.5	11.4
82.5°	9.9	8.4	8.4	8.4	9.9	8.4	8.4	8.4	8.4	8.4	8.4
85°	4.3	5.6	4.3	2.8	4.3	4.3	5.6	4.3	4.3	4.3	5.6
87.5°	1.5	1.5	0.0	0.0	0.0	1.5	0.0	1.5	1.5	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



TEST NUMBER: P248416

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0
2.5°	2670.1	2667.3	2667.3	2665.8	2668.7	2665.8	2667.3	2665.8	2665.8	2668.7	2665.8
5°	2680.0	2681.4	2678.6	2677.2	2681.4	2681.4	2681.4	2678.6	2678.6	2680.0	2678.6
7.5°	2694.2	2697.0	2698.3	2699.8	2702.6	2704.0	2704.0	2702.6	2701.2	2705.4	2699.8
10°	2709.7	2714.0	2722.4	2726.7	2733.8	2733.8	2736.6	2736.6	2733.8	2736.6	2735.1
12.5°	2704.0	2729.5	2743.6	2753.4	2763.3	2771.9	2774.7	2776.2	2774.7	2780.3	2774.7
15°	2714.0	2735.1	2757.7	2774.7	2793.0	2802.9	2805.8	2817.1	2819.9	2821.4	2812.8
17.5°	2698.3	2736.6	2760.5	2786.0	2812.8	2831.3	2848.2	2855.2	2856.7	2859.5	2848.2
20°	2663.0	2705.4	2742.2	2779.0	2810.0	2838.3	2852.4	2872.2	2866.6	2877.9	2862.3
22.5°	2615.0	2663.0	2709.7	2757.7	2790.2	2824.2	2853.9	2868.0	2875.0	2875.0	2858.1
25°	2538.7	2595.2	2646.1	2695.5	2745.0	2786.0	2819.9	2841.1	2845.4	2844.0	2824.2
27.5°	2419.9	2480.6	2540.0	2596.6	2657.4	2705.4	2745.0	2770.4	2777.5	2777.5	2756.4
30°	2256.0	2321.0	2378.9	2446.8	2509.0	2562.6	2617.8	2640.4	2653.1	2653.1	2629.1
32.5°	2060.9	2116.0	2169.7	2236.2	2304.0	2364.8	2417.1	2448.1	2463.8	2462.3	2441.1
35°	1848.8	1875.7	1916.7	1966.2	2026.9	2083.5	2134.4	2164.0	2190.9	2189.5	2169.7
37.5°	1636.8	1629.8	1634.1	1652.4	1690.5	1730.1	1769.7	1798.0	1820.6	1830.5	1826.2
40°	1429.1	1392.3	1357.0	1344.3	1347.1	1361.2	1382.4	1403.6	1429.1	1441.8	1447.4
42.5°	1242.4	1180.2	1118.0	1071.4	1044.6	1036.1	1046.0	1053.0	1068.6	1087.0	1105.3
45°	1092.6	1009.2	927.2	855.2	809.9	783.1	777.4	783.1	791.6	809.9	834.0
47.5°	969.6	872.1	780.3	699.6	633.3	597.9	588.0	585.2	593.7	610.6	643.2
50°	860.8	763.3	661.5	568.2	498.9	459.3	445.3	439.5	449.4	462.3	491.8
52.5°	742.1	646.0	541.4	450.9	378.8	337.8	322.3	313.8	319.4	336.4	366.1
55°	613.5	524.4	429.8	336.4	267.2	228.9	210.6	205.0	210.6	228.9	258.6
57.5°	484.9	410.0	330.8	243.1	180.9	142.8	124.4	118.7	134.3	141.3	172.5
60°	378.8	318.0	250.2	178.1	124.4	94.7	76.3	72.1	79.2	91.9	117.3
62.5°	284.2	245.9	192.3	127.2	91.9	60.8	50.8	46.7	50.8	60.8	80.6
65°	206.3	176.7	134.3	93.3	62.2	45.2	34.0	31.0	35.3	42.4	59.4
67.5°	141.3	118.7	93.3	65.0	42.4	28.2	24.1	24.1	25.4	31.0	43.9
70°	91.9	77.7	59.4	42.4	28.2	21.2	18.3	15.5	18.3	22.6	29.7
72.5°	57.9	49.5	38.1	29.7	21.2	15.5	12.7	11.4	14.2	17.0	22.6
75°	35.3	26.9	19.8	15.5	11.4	11.4	11.4	5.6	7.1	11.4	14.2
77.5°	21.2	18.3	15.5	12.7	9.9	5.6	5.6	5.6	7.1	8.4	12.7
80°	11.4	9.9	7.1	7.1	5.6	4.3	5.6	4.3	2.8	7.1	8.4
82.5°	7.1	5.6	5.6	5.6	7.1	2.8	4.3	2.8	4.3	5.6	4.3
85°	4.3	4.3	4.3	2.8	7.1	2.8	2.8	1.5	1.5	2.8	2.8
87.5°	0.0	1.5	1.5	0.0	1.5	0.0	1.5	1.5	1.5	1.5	1.5
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: P248416

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0	2663.0
2.5°	2667.3	2665.8	2667.3	2665.8	2665.8	2665.8	2667.3	2667.3	2665.8	2665.8	2668.7
5°	2678.6	2678.6	2678.6	2677.2	2675.7	2675.7	2678.6	2678.6	2674.4	2678.6	2678.6
7.5°	2702.6	2698.3	2702.6	2697.0	2694.2	2695.5	2697.0	2694.2	2691.3	2692.7	2692.7
10°	2733.8	2729.5	2729.5	2725.2	2720.9	2718.1	2715.3	2708.2	2701.2	2699.8	2694.2
12.5°	2770.4	2763.3	2759.2	2750.6	2743.6	2733.8	2725.2	2714.0	2699.8	2689.9	2680.0
15°	2807.2	2795.8	2786.0	2771.9	2756.4	2739.4	2720.9	2702.6	2680.0	2660.2	2643.2
17.5°	2836.9	2821.4	2802.9	2780.3	2757.7	2732.3	2705.4	2678.6	2646.1	2620.6	2600.8
20°	2846.8	2824.2	2800.1	2770.4	2740.7	2705.4	2671.5	2636.2	2599.4	2572.5	2549.9
22.5°	2834.1	2807.2	2777.5	2746.5	2706.9	2668.7	2629.1	2588.1	2555.5	2518.9	2497.6
25°	2798.8	2766.3	2733.8	2697.0	2658.8	2616.4	2574.0	2531.6	2492.0	2472.2	2445.4
27.5°	2726.7	2691.3	2656.0	2617.8	2574.0	2531.6	2487.7	2446.8	2412.9	2386.0	2370.5
30°	2599.4	2558.5	2517.4	2476.5	2438.3	2394.5	2353.5	2319.5	2285.7	2264.4	2248.9
32.5°	2404.4	2367.6	2326.6	2287.0	2251.7	2214.9	2181.0	2151.3	2127.3	2113.2	2101.8
35°	2141.4	2104.6	2073.6	2045.4	2015.7	2000.1	1978.9	1961.9	1952.0	1946.4	1945.0
37.5°	1810.7	1789.4	1779.6	1773.9	1768.3	1764.0	1766.8	1773.9	1779.6	1789.4	1800.8
40°	1457.3	1475.7	1481.4	1501.1	1519.5	1543.5	1570.4	1601.6	1627.0	1659.5	1682.1
42.5°	1135.0	1169.0	1208.6	1250.9	1296.2	1340.0	1393.8	1443.1	1488.4	1529.4	1564.8
45°	872.1	924.4	983.8	1044.6	1105.3	1169.0	1234.0	1294.8	1348.4	1392.3	1429.1
47.5°	679.8	737.9	814.2	889.1	962.6	1037.5	1109.6	1173.1	1218.4	1260.8	1293.3
50°	538.5	605.0	688.4	774.6	855.2	934.3	1010.6	1070.0	1115.2	1149.2	1173.1
52.5°	416.9	496.1	580.9	671.4	757.7	843.9	914.5	969.6	1006.4	1036.1	1054.5
55°	311.0	388.7	479.1	572.5	660.2	743.5	809.9	858.0	890.6	907.4	917.3
57.5°	224.8	295.4	385.9	479.1	558.3	637.5	691.2	735.1	753.4	763.3	767.5
60°	164.0	228.9	309.6	390.2	465.1	528.6	575.3	605.0	619.1	624.7	623.4
62.5°	120.2	176.7	245.9	313.8	374.5	426.8	463.6	483.4	490.5	493.3	489.0
65°	91.9	135.7	195.1	247.4	294.0	332.2	359.0	371.8	376.0	374.5	371.8
67.5°	67.8	101.8	145.6	185.2	219.2	248.7	262.9	274.3	277.1	272.8	268.5
70°	48.0	74.9	106.0	132.9	158.3	175.3	190.8	192.3	192.3	190.8	188.0
72.5°	34.0	52.3	72.1	90.4	106.0	118.7	124.4	128.6	127.2	125.8	123.0
75°	22.6	32.5	52.3	56.6	70.6	74.9	80.6	80.6	82.0	77.7	77.7
77.5°	14.2	22.6	31.0	36.8	42.4	48.0	50.8	50.8	52.3	50.8	50.8
80°	8.4	14.2	17.0	25.4	25.4	29.7	31.0	32.5	29.7	34.0	29.7
82.5°	5.6	8.4	12.7	12.7	15.5	18.3	18.3	19.8	19.8	18.3	18.3
85°	4.3	5.6	7.1	8.4	8.4	9.9	8.4	8.4	9.9	11.4	9.9
87.5°	1.5	2.8	1.5	2.8	2.8	5.6	4.3	4.3	4.3	5.6	5.6
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: P248416

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2663.0	2663.0	2663.0	2663.0
2.5°	2665.8	2667.3	2665.8	2665.8
5°	2678.6	2677.2	2678.6	2675.7
7.5°	2688.5	2688.5	2687.1	2687.1
10°	2688.5	2682.8	2682.8	2682.8
12.5°	2667.3	2660.2	2656.0	2653.1
15°	2630.5	2617.8	2612.1	2610.7
17.5°	2582.4	2571.2	2564.1	2559.8
20°	2527.3	2516.1	2507.5	2509.0
22.5°	2479.3	2466.6	2460.9	2458.0
25°	2431.2	2415.6	2411.4	2408.6
27.5°	2353.5	2345.0	2340.8	2336.5
30°	2234.7	2230.5	2223.5	2233.4
32.5°	2097.7	2090.6	2085.0	2089.1
35°	1946.4	1942.1	1946.4	1943.6
37.5°	1807.9	1812.2	1817.8	1820.6
40°	1699.1	1714.6	1720.2	1723.0
42.5°	1590.2	1608.5	1619.9	1627.0
45°	1455.9	1474.3	1487.0	1495.5
47.5°	1317.4	1332.9	1345.6	1344.3
50°	1191.6	1200.0	1205.7	1211.4
52.5°	1064.4	1064.4	1065.7	1065.7
55°	920.1	917.3	916.0	917.3
57.5°	761.8	759.0	757.7	753.4
60°	617.7	609.2	603.6	603.6
62.5°	483.4	473.5	469.4	467.9
65°	363.3	361.8	353.4	351.9
67.5°	262.9	257.3	251.7	253.0
70°	185.2	176.7	176.7	173.8
72.5°	120.2	115.9	114.5	114.5
75°	74.9	74.9	72.1	77.7
77.5°	49.5	49.5	48.0	49.5
80°	29.7	29.7	29.7	28.2
82.5°	18.3	19.8	18.3	18.3
85°	9.9	11.4	8.4	12.7
87.5°	5.6	7.1	5.6	7.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)