

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: P248425

Luminaire Tested: **LSR8B60D010 EC8B60930 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248425
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 EC8B60930 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: 5411.1 lumens
Efficiency: N/A
Efficacy: 90.9 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

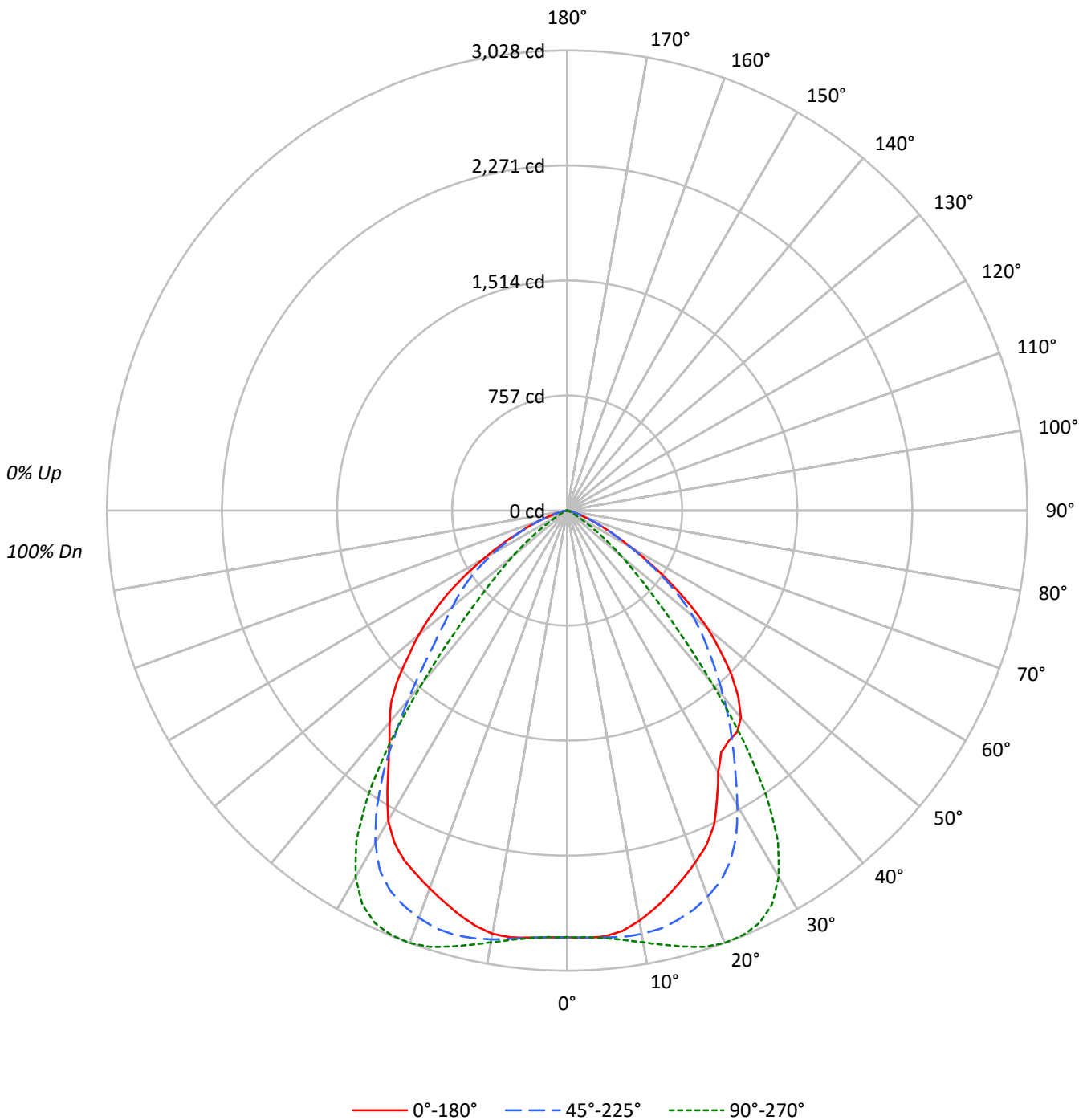
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	270.0	5.0
10°-20°	799.7	14.8
20°-30°	1220.0	22.5
30°-40°	1273.1	23.5
40°-50°	956.3	17.7
50°-60°	588.4	10.9
60°-70°	239.5	4.4
70°-80°	56.4	1.0
80°-90°	7.8	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°	2289.7	42.3
0°-40°	3562.8	65.8
0°-60°	5107.4	94.4
0°-90°	5411.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5411.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2807	2807	2807	2807	2807	
5°	2813	2820	2824	2820	2820	266
15°	2609	2792	2970	2888	2752	735
25°	2286	2542	2995	2758	2539	1039
35°	1852	1904	2281	2108	2049	1169
45°	1529	1323	825	1232	1576	1166
55°	825	784	216	784	967	742
65°	258	261	33	350	371	269
75°	45	45	6	79	82	54
85°	4	4	2	10	14	6
90°	0	0	0	0	0	



TEST NUMBER: P248425

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1
2.5°	2814.5	2810.0	2814.5	2814.5	2816.1	2813.0	2814.5	2816.1	2813.0	2813.0	2813.0
5°	2813.0	2810.0	2813.0	2811.6	2814.5	2814.5	2817.5	2817.5	2820.4	2820.4	2824.9
7.5°	2789.2	2783.2	2789.2	2793.6	2796.7	2802.6	2810.0	2816.1	2822.0	2827.9	2835.3
10°	2740.1	2740.1	2744.5	2753.4	2762.4	2772.8	2786.2	2801.2	2816.1	2829.4	2842.9
12.5°	2679.0	2674.5	2683.4	2695.3	2708.8	2725.2	2746.0	2768.3	2792.2	2819.0	2839.8
15°	2608.9	2604.4	2614.8	2626.8	2643.2	2667.1	2692.4	2722.1	2756.4	2792.2	2826.5
17.5°	2537.4	2535.9	2546.4	2562.7	2576.2	2601.5	2634.2	2670.0	2708.8	2756.4	2801.2
20°	2464.4	2462.9	2473.4	2486.7	2504.7	2528.4	2561.3	2603.0	2649.1	2702.8	2755.0
22.5°	2388.4	2389.9	2398.8	2413.7	2428.6	2454.0	2488.2	2530.0	2580.7	2638.7	2696.8
25°	2285.6	2278.2	2290.1	2305.0	2330.3	2351.2	2383.9	2428.6	2480.8	2541.9	2610.5
27.5°	2136.6	2135.1	2145.6	2158.9	2181.2	2206.6	2242.3	2288.6	2343.7	2410.7	2477.7
30°	1987.6	1990.6	1995.0	2008.5	2023.4	2048.7	2084.5	2123.2	2175.3	2239.4	2310.9
32.5°	1886.3	1886.3	1892.2	1901.2	1911.6	1925.0	1950.3	1978.7	2018.9	2063.6	2115.8
35°	1852.0	1846.1	1852.0	1853.5	1855.0	1857.9	1862.4	1871.4	1884.7	1904.1	1923.5
37.5°	1837.1	1832.6	1832.6	1826.7	1819.3	1810.3	1798.4	1785.0	1770.1	1750.7	1735.9
40°	1779.0	1776.0	1773.1	1767.1	1750.7	1732.8	1713.4	1682.2	1647.9	1600.2	1552.6
42.5°	1667.3	1664.2	1662.8	1650.9	1636.0	1615.1	1592.7	1560.0	1516.8	1455.7	1387.1
45°	1528.7	1522.8	1518.3	1507.9	1497.4	1479.5	1458.6	1428.8	1385.7	1323.1	1241.2
47.5°	1367.8	1364.8	1363.4	1358.9	1348.5	1337.9	1324.6	1300.7	1262.0	1202.4	1117.5
50°	1205.4	1199.5	1202.4	1200.9	1196.4	1189.0	1180.1	1163.7	1133.9	1080.2	1002.7
52.5°	1019.1	1019.1	1017.6	1022.1	1023.6	1022.1	1023.6	1005.8	980.4	940.2	874.6
55°	825.4	825.4	829.9	835.9	841.9	843.3	841.9	834.4	816.5	783.7	725.6
57.5°	643.7	640.7	649.6	658.6	664.5	670.5	666.0	660.0	649.6	622.8	578.1
60°	490.2	490.2	496.2	502.1	508.0	514.1	512.5	511.1	502.1	484.3	448.5
62.5°	360.5	362.1	362.1	366.6	372.5	378.4	382.9	378.4	374.0	362.1	338.2
65°	257.7	256.3	257.7	262.2	266.7	272.6	275.7	274.2	269.7	260.7	242.9
67.5°	172.9	171.4	177.3	178.8	181.8	187.8	186.3	187.8	186.3	178.8	163.9
70°	113.2	110.2	113.2	111.8	116.2	117.7	120.6	122.2	120.6	116.2	111.8
72.5°	70.1	68.5	70.1	71.5	73.0	74.4	77.5	77.5	76.0	73.0	67.0
75°	44.7	40.2	41.7	38.8	41.7	41.7	44.7	46.2	44.7	44.7	41.7
77.5°	26.8	26.8	26.8	26.8	26.8	26.8	26.8	28.4	29.8	26.8	25.3
80°	13.5	13.5	14.9	14.9	14.9	16.4	14.9	14.9	14.9	16.4	11.9
82.5°	10.4	9.0	9.0	9.0	10.4	9.0	9.0	9.0	9.0	9.0	9.0
85°	4.5	5.9	4.5	3.0	4.5	4.5	5.9	4.5	4.5	4.5	5.9
87.5°	1.5	1.5	0.0	0.0	0.0	1.5	0.0	1.5	1.5	3.0	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°	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1
2.5°	2814.5	2811.6	2811.6	2810.0	2813.0	2810.0	2811.6	2810.0	2810.0	2813.0	2810.0
5°	2824.9	2826.5	2823.5	2822.0	2826.5	2826.5	2826.5	2823.5	2823.5	2824.9	2823.5
7.5°	2839.8	2842.9	2844.3	2845.8	2848.8	2850.3	2850.3	2848.8	2847.3	2851.8	2845.8
10°	2856.2	2860.7	2869.6	2874.1	2881.6	2881.6	2884.6	2884.6	2881.6	2884.6	2883.1
12.5°	2850.3	2877.2	2892.1	2902.5	2912.9	2921.8	2924.8	2926.3	2924.8	2930.7	2924.8
15°	2860.7	2883.1	2907.0	2924.8	2944.2	2954.6	2957.5	2969.5	2972.4	2974.0	2965.0
17.5°	2844.3	2884.6	2909.9	2936.7	2965.0	2984.4	3002.3	3009.8	3011.2	3014.1	3002.3
20°	2807.1	2851.8	2890.5	2929.3	2962.0	2991.8	3006.7	3027.6	3021.7	3033.5	3017.2
22.5°	2756.4	2807.1	2856.2	2907.0	2941.2	2976.9	3008.2	3023.1	3030.6	3030.6	3012.7
25°	2675.9	2735.6	2789.2	2841.3	2893.5	2936.7	2972.4	2994.9	2999.3	2997.8	2976.9
27.5°	2550.8	2614.8	2677.5	2737.0	2801.2	2851.8	2893.5	2920.3	2927.8	2927.8	2905.4
30°	2378.0	2446.5	2507.6	2579.1	2644.7	2701.3	2759.5	2783.2	2796.7	2796.7	2771.3
32.5°	2172.4	2230.5	2287.1	2357.1	2428.6	2492.7	2547.8	2580.7	2597.0	2595.6	2573.1
35°	1948.9	1977.2	2020.4	2072.5	2136.6	2196.2	2249.8	2281.1	2309.5	2307.9	2287.1
37.5°	1725.3	1717.9	1722.4	1741.8	1781.9	1823.8	1865.5	1895.3	1919.0	1929.5	1925.0
40°	1506.4	1467.6	1430.4	1416.9	1420.0	1434.9	1457.2	1479.5	1506.4	1519.7	1525.7
42.5°	1309.7	1244.1	1178.5	1129.4	1101.0	1092.2	1102.6	1110.0	1126.4	1145.8	1165.2
45°	1151.7	1063.8	977.4	901.4	853.8	825.4	819.5	825.4	834.4	853.8	879.1
47.5°	1022.1	919.3	822.5	737.5	667.4	630.2	619.8	616.9	625.7	643.7	677.9
50°	907.3	804.5	697.3	599.0	526.0	484.3	469.4	463.4	473.8	487.2	518.5
52.5°	782.2	680.9	570.7	475.3	399.3	356.1	339.7	330.8	336.7	354.6	385.8
55°	646.6	552.8	453.0	354.6	281.6	241.4	222.0	216.0	222.0	241.4	272.6
57.5°	511.1	432.0	348.6	256.3	190.7	150.4	131.0	125.1	141.6	149.0	181.8
60°	399.3	335.3	263.8	187.8	131.0	99.8	80.5	76.0	83.4	96.9	123.6
62.5°	299.5	259.3	202.7	134.1	96.9	64.0	53.6	49.2	53.6	64.0	85.0
65°	217.6	186.3	141.6	98.3	65.6	47.6	35.8	32.7	37.2	44.7	62.6
67.5°	149.0	125.1	98.3	68.5	44.7	29.8	25.3	25.3	26.8	32.7	46.2
70°	96.9	81.9	62.6	44.7	29.8	22.3	19.4	16.4	19.4	23.9	31.3
72.5°	61.1	52.1	40.2	31.3	22.3	16.4	13.5	11.9	14.9	17.8	23.9
75°	37.2	28.4	20.9	16.4	11.9	11.9	11.9	5.9	7.4	11.9	14.9
77.5°	22.3	19.4	16.4	13.5	10.4	5.9	5.9	5.9	7.4	9.0	13.5
80°	11.9	10.4	7.4	7.4	5.9	4.5	5.9	4.5	3.0	7.4	9.0
82.5°	7.4	5.9	5.9	5.9	7.4	3.0	4.5	3.0	4.5	5.9	4.5
85°	4.5	4.5	4.5	3.0	7.4	3.0	3.0	1.5	1.5	3.0	3.0
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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1	2807.1
2.5°	2811.6	2810.0	2811.6	2810.0	2810.0	2810.0	2811.6	2811.6	2810.0	2810.0	2813.0
5°	2823.5	2823.5	2823.5	2822.0	2820.4	2820.4	2823.5	2823.5	2819.0	2823.5	2823.5
7.5°	2848.8	2844.3	2848.8	2842.9	2839.8	2841.3	2842.9	2839.8	2836.9	2838.4	2838.4
10°	2881.6	2877.2	2877.2	2872.7	2868.2	2865.2	2862.2	2854.7	2847.3	2845.8	2839.8
12.5°	2920.3	2912.9	2908.4	2899.5	2892.1	2881.6	2872.7	2860.7	2845.8	2835.3	2824.9
15°	2959.1	2947.1	2936.7	2921.8	2905.4	2887.6	2868.2	2848.8	2824.9	2804.1	2786.2
17.5°	2990.4	2974.0	2954.6	2930.7	2907.0	2880.1	2851.8	2823.5	2789.2	2762.4	2741.5
20°	3000.8	2976.9	2951.6	2920.3	2889.0	2851.8	2816.1	2778.7	2740.1	2711.7	2687.9
22.5°	2987.4	2959.1	2927.8	2895.0	2853.3	2813.0	2771.3	2728.1	2693.9	2655.1	2632.8
25°	2950.1	2915.8	2881.6	2842.9	2802.6	2757.9	2713.3	2668.5	2626.8	2606.0	2577.6
27.5°	2874.1	2836.9	2799.6	2759.5	2713.3	2668.5	2622.4	2579.1	2543.3	2515.1	2498.7
30°	2740.1	2696.8	2653.6	2610.5	2570.2	2523.9	2480.8	2445.0	2409.3	2386.9	2370.6
32.5°	2534.4	2495.7	2452.5	2410.7	2373.5	2334.8	2299.1	2267.7	2242.3	2227.4	2215.5
35°	2257.2	2218.6	2185.7	2156.0	2124.6	2108.3	2086.0	2068.0	2057.6	2051.7	2050.2
37.5°	1908.6	1886.3	1875.9	1869.9	1863.9	1859.5	1862.4	1869.9	1875.9	1886.3	1898.2
40°	1536.1	1555.5	1561.4	1582.3	1601.7	1627.0	1655.4	1688.1	1714.9	1749.2	1773.1
42.5°	1196.4	1232.2	1273.9	1318.6	1366.3	1412.5	1469.1	1521.2	1569.0	1612.1	1649.3
45°	919.3	974.4	1037.0	1101.0	1165.2	1232.2	1300.7	1364.8	1421.4	1467.6	1506.4
47.5°	716.7	777.7	858.2	937.2	1014.6	1093.6	1169.7	1236.7	1284.3	1329.1	1363.4
50°	567.7	637.7	725.6	816.5	901.4	984.8	1065.3	1128.0	1175.6	1211.4	1236.7
52.5°	439.5	522.9	612.4	707.7	798.6	889.5	963.9	1022.1	1060.9	1092.2	1111.5
55°	327.8	409.7	505.1	603.4	695.8	783.7	853.8	904.4	938.7	956.5	967.0
57.5°	236.9	311.4	406.7	505.1	588.5	671.9	728.5	774.8	794.1	804.5	809.0
60°	172.9	241.4	326.3	411.2	490.2	557.2	606.5	637.7	652.6	658.6	657.0
62.5°	126.7	186.3	259.3	330.8	394.8	450.0	488.8	509.6	517.0	520.0	515.5
65°	96.9	143.0	205.6	260.7	310.0	350.1	378.4	391.9	396.3	394.8	391.9
67.5°	71.5	107.3	153.5	195.2	230.9	262.2	277.1	289.1	292.0	287.5	283.1
70°	50.7	78.9	111.8	140.0	166.9	184.7	201.1	202.7	202.7	201.1	198.2
72.5°	35.8	55.2	76.0	95.4	111.8	125.1	131.0	135.5	134.1	132.6	129.6
75°	23.9	34.3	55.2	59.6	74.4	78.9	85.0	85.0	86.4	81.9	81.9
77.5°	14.9	23.9	32.7	38.8	44.7	50.7	53.6	53.6	55.2	53.6	53.6
80°	9.0	14.9	17.8	26.8	26.8	31.3	32.7	34.3	31.3	35.8	31.3
82.5°	5.9	9.0	13.5	13.5	16.4	19.4	19.4	20.9	20.9	19.4	19.4
85°	4.5	5.9	7.4	9.0	9.0	10.4	9.0	9.0	10.4	11.9	10.4
87.5°	1.5	3.0	1.5	3.0	3.0	5.9	4.5	4.5	4.5	5.9	5.9
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: P248425

CATALOG NUMBER: LSR8B60D010 EC8B60930 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2807.1	2807.1	2807.1	2807.1
2.5°	2810.0	2811.6	2810.0	2810.0
5°	2823.5	2822.0	2823.5	2820.4
7.5°	2833.9	2833.9	2832.4	2832.4
10°	2833.9	2827.9	2827.9	2827.9
12.5°	2811.6	2804.1	2799.6	2796.7
15°	2772.8	2759.5	2753.4	2751.9
17.5°	2722.1	2710.2	2702.8	2698.4
20°	2664.1	2652.2	2643.2	2644.7
22.5°	2613.4	2600.0	2594.0	2591.1
25°	2562.7	2546.4	2541.9	2538.8
27.5°	2480.8	2471.8	2467.3	2462.9
30°	2355.7	2351.2	2343.7	2354.1
32.5°	2211.1	2203.7	2197.7	2202.2
35°	2051.7	2047.2	2051.7	2048.7
37.5°	1905.7	1910.1	1916.1	1919.0
40°	1790.9	1807.3	1813.3	1816.2
42.5°	1676.2	1695.6	1707.5	1714.9
45°	1534.6	1554.0	1567.4	1576.4
47.5°	1388.7	1405.1	1418.4	1416.9
50°	1256.1	1264.9	1270.9	1276.9
52.5°	1121.9	1121.9	1123.5	1123.5
55°	970.0	967.0	965.5	967.0
57.5°	803.1	800.2	798.6	794.1
60°	651.1	642.2	636.2	636.2
62.5°	509.6	499.2	494.7	493.2
65°	382.9	381.4	372.5	370.9
67.5°	277.1	271.2	265.2	266.7
70°	195.2	186.3	186.3	183.3
72.5°	126.7	122.2	120.6	120.6
75°	78.9	78.9	76.0	81.9
77.5°	52.1	52.1	50.7	52.1
80°	31.3	31.3	31.3	29.8
82.5°	19.4	20.9	19.4	19.4
85°	10.4	11.9	9.0	13.5
87.5°	5.9	7.4	5.9	7.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)