

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: P248434

Luminaire Tested: **LSR8B60D010 EC8B60827 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248434
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 EC8B60827 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5978.0 lumens
Efficiency: N/A
Efficacy: 100.5 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

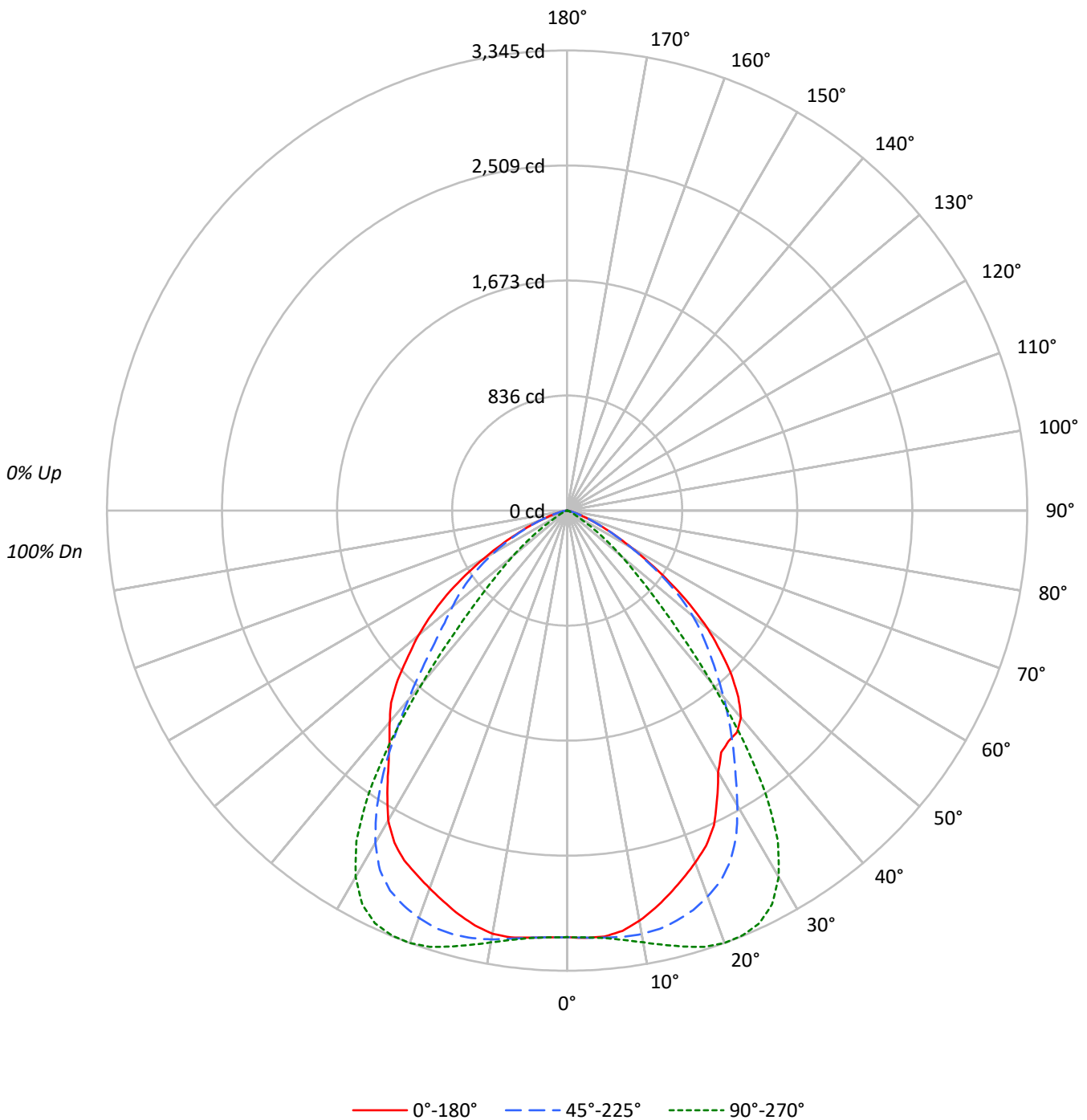
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	95630	95630	95630
5°	96199	96555	96453
10°	94785	99785	97828
15°	92015	104730	97059
20°	89343	109761	95880
25°	85914	112572	95434
30°	78185	109487	92606
35°	77024	94867	85200
40°	79115	65795	80770
45°	73651	39767	75950
50°	63885	24557	67675
55°	49025	12833	57433
60°	33402	5174	43350
65°	20780	2641	29908
70°	11279	1632	18257
75°	5886	786	10782
80°	2628	888	5842
85°	1769	601	5236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.2	5.0
10°-20°	883.5	14.8
20°-30°	1347.8	22.5
30°-40°	1406.5	23.5
40°-50°	1056.5	17.7
50°-60°	650.0	10.9
60°-70°	264.5	4.4
70°-80°	62.3	1.0
80°-90°	8.6	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°	2529.6	42.3
0°-40°	3936.1	65.8
0°-60°	5642.6	94.4
0°-90°	5978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5978.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3101	3101	3101	3101	3101	
5°	3108	3116	3119	3116	3116	294
15°	2882	3085	3281	3190	3040	812
25°	2525	2808	3309	3047	2805	1148
35°	2046	2104	2520	2329	2263	1292
45°	1689	1462	912	1361	1742	1289
55°	912	866	239	866	1068	820
65°	285	288	36	387	410	297
75°	49	49	7	87	90	59
85°	5	5	2	12	15	7
90°	0	0	0	0	0	



TEST NUMBER: P248434

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2
2.5°	3109.4	3104.5	3109.4	3109.4	3111.1	3107.8	3109.4	3111.1	3107.8	3107.8	3107.8
5°	3107.8	3104.5	3107.8	3106.1	3109.4	3109.4	3112.7	3112.7	3116.0	3116.0	3121.0
7.5°	3081.4	3074.9	3081.4	3086.4	3089.7	3096.3	3104.5	3111.1	3117.6	3124.3	3132.5
10°	3027.1	3027.1	3032.1	3041.9	3051.8	3063.3	3078.1	3094.6	3111.1	3125.9	3140.7
12.5°	2959.6	2954.7	2964.6	2977.7	2992.5	3010.7	3033.7	3058.4	3084.7	3114.3	3137.4
15°	2882.3	2877.3	2888.8	2902.0	2920.1	2946.5	2974.5	3007.4	3045.2	3084.7	3122.6
17.5°	2803.2	2801.6	2813.1	2831.2	2846.1	2874.0	2910.3	2949.7	2992.5	3045.2	3094.6
20°	2722.6	2721.0	2732.5	2747.3	2767.0	2793.4	2829.6	2875.7	2926.7	2986.0	3043.6
22.5°	2638.6	2640.3	2650.2	2666.6	2683.1	2711.1	2748.9	2795.0	2851.0	2915.2	2979.4
25°	2525.1	2516.8	2530.0	2546.5	2574.4	2597.5	2633.7	2683.1	2740.7	2808.2	2883.9
27.5°	2360.4	2358.8	2370.4	2385.1	2409.8	2437.8	2477.3	2528.4	2589.3	2663.3	2737.4
30°	2195.8	2199.1	2204.1	2218.9	2235.4	2263.3	2302.9	2345.7	2403.3	2474.0	2553.1
32.5°	2083.9	2083.9	2090.5	2100.4	2111.9	2126.7	2154.7	2186.0	2230.4	2279.8	2337.4
35°	2046.1	2039.5	2046.1	2047.7	2049.4	2052.7	2057.6	2067.5	2082.3	2103.7	2125.1
37.5°	2029.6	2024.7	2024.7	2018.1	2009.8	2000.0	1986.8	1972.0	1955.5	1934.1	1917.7
40°	1965.4	1962.1	1958.8	1952.2	1934.1	1914.4	1893.0	1858.4	1820.5	1767.9	1715.2
42.5°	1842.0	1838.7	1837.0	1823.8	1807.4	1784.3	1759.6	1723.4	1675.7	1608.2	1532.5
45°	1688.9	1682.3	1677.4	1665.8	1654.3	1634.5	1611.5	1578.6	1530.8	1461.7	1371.2
47.5°	1511.1	1507.8	1506.1	1501.2	1489.7	1478.2	1463.4	1437.0	1394.2	1328.4	1234.6
50°	1331.7	1325.1	1328.4	1326.7	1321.8	1313.6	1303.7	1285.6	1252.6	1193.4	1107.8
52.5°	1125.9	1125.9	1124.3	1129.2	1130.8	1129.2	1130.8	1111.1	1083.1	1038.7	966.2
55°	911.9	911.9	916.9	923.5	930.0	931.7	930.0	921.8	902.0	865.8	801.6
57.5°	711.1	707.8	717.7	727.6	734.2	740.7	735.8	729.2	717.7	688.0	638.7
60°	541.6	541.6	548.1	554.7	561.3	567.9	566.2	564.6	554.7	535.0	495.5
62.5°	398.3	400.0	400.0	404.9	411.5	418.1	423.0	418.1	413.2	400.0	373.6
65°	284.8	283.1	284.8	289.7	294.7	301.2	304.5	302.9	297.9	288.1	268.3
67.5°	191.0	189.3	195.9	197.5	200.8	207.4	205.8	207.4	205.8	197.5	181.1
70°	125.1	121.8	125.1	123.4	128.4	130.1	133.3	135.0	133.3	128.4	123.4
72.5°	77.4	75.7	77.4	79.0	80.7	82.3	85.6	85.6	83.9	80.7	74.1
75°	49.4	44.4	46.1	42.8	46.1	46.1	49.4	51.0	49.4	49.4	46.1
77.5°	29.6	29.6	29.6	29.6	29.6	29.6	29.6	31.3	32.9	29.6	28.0
80°	14.8	14.8	16.5	16.5	16.5	18.1	16.5	16.5	16.5	18.1	13.2
82.5°	11.5	9.9	9.9	9.9	11.5	9.9	9.9	9.9	9.9	9.9	9.9
85°	5.0	6.6	5.0	3.3	5.0	5.0	6.6	5.0	5.0	5.0	6.6
87.5°	1.7	1.7	0.0	0.0	0.0	1.7	0.0	1.7	1.7	3.3	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: P248434

CATALOG NUMBER: LSR8B60D010 EC8B60827 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2
2.5°	3109.4	3106.1	3106.1	3104.5	3107.8	3104.5	3106.1	3104.5	3104.5	3107.8	3104.5
5°	3121.0	3122.6	3119.3	3117.6	3122.6	3122.6	3122.6	3119.3	3119.3	3121.0	3119.3
7.5°	3137.4	3140.7	3142.3	3144.0	3147.3	3148.9	3148.9	3147.3	3145.6	3150.6	3144.0
10°	3155.5	3160.5	3170.3	3175.3	3183.5	3183.5	3186.8	3186.8	3183.5	3186.8	3185.2
12.5°	3148.9	3178.5	3195.0	3206.5	3218.1	3227.9	3231.2	3232.9	3231.2	3237.8	3231.2
15°	3160.5	3185.2	3211.5	3231.2	3252.6	3264.1	3267.4	3280.6	3283.9	3285.6	3275.7
17.5°	3142.3	3186.8	3214.8	3244.4	3275.7	3297.1	3316.8	3325.1	3326.7	3330.0	3316.8
20°	3101.2	3150.6	3193.4	3236.2	3272.4	3305.3	3321.8	3344.8	3338.2	3351.4	3333.3
22.5°	3045.2	3101.2	3155.5	3211.5	3249.4	3288.9	3323.4	3339.9	3348.1	3348.1	3328.3
25°	2956.3	3022.2	3081.4	3139.0	3196.7	3244.4	3283.9	3308.6	3313.6	3311.9	3288.9
27.5°	2818.1	2888.8	2958.0	3023.8	3094.6	3150.6	3196.7	3226.3	3234.5	3234.5	3209.8
30°	2627.1	2702.8	2770.3	2849.3	2921.8	2984.3	3048.5	3074.9	3089.7	3089.7	3061.7
32.5°	2400.0	2464.2	2526.7	2604.1	2683.1	2753.9	2814.8	2851.0	2869.1	2867.5	2842.8
35°	2153.1	2184.3	2232.1	2289.7	2360.4	2426.3	2485.5	2520.1	2551.4	2549.7	2526.7
37.5°	1906.1	1897.9	1902.9	1924.3	1968.7	2014.8	2060.9	2093.8	2120.1	2131.7	2126.7
40°	1664.2	1621.4	1580.2	1565.4	1568.7	1585.2	1609.9	1634.5	1664.2	1679.0	1685.6
42.5°	1446.9	1374.5	1302.0	1247.7	1216.4	1206.6	1218.1	1226.3	1244.4	1265.8	1287.2
45°	1272.4	1175.3	1079.8	995.9	943.2	911.9	905.3	911.9	921.8	943.2	971.2
47.5°	1129.2	1015.6	908.6	814.8	737.4	696.3	684.8	681.5	691.3	711.1	748.9
50°	1002.4	888.9	770.4	661.7	581.1	535.0	518.5	511.9	523.4	538.3	572.8
52.5°	864.2	752.2	630.4	525.1	441.1	393.4	375.3	365.4	372.0	391.8	426.3
55°	714.4	610.7	500.4	391.8	311.1	266.7	245.2	238.7	245.2	266.7	301.2
57.5°	564.6	477.4	385.2	283.1	210.7	166.3	144.8	138.3	156.4	164.6	200.8
60°	441.1	370.4	291.4	207.4	144.8	110.3	88.9	83.9	92.2	107.0	136.6
62.5°	330.9	286.4	223.9	148.1	107.0	70.8	59.2	54.3	59.2	70.8	93.8
65°	240.3	205.8	156.4	108.6	72.4	52.7	39.5	36.2	41.2	49.4	69.2
67.5°	164.6	138.3	108.6	75.7	49.4	32.9	28.0	28.0	29.6	36.2	51.0
70°	107.0	90.5	69.2	49.4	32.9	24.7	21.4	18.1	21.4	26.3	34.6
72.5°	67.5	57.6	44.4	34.6	24.7	18.1	14.8	13.2	16.5	19.7	26.3
75°	41.2	31.3	23.0	18.1	13.2	13.2	13.2	6.6	8.2	13.2	16.5
77.5°	24.7	21.4	18.1	14.8	11.5	6.6	6.6	6.6	8.2	9.9	14.8
80°	13.2	11.5	8.2	8.2	6.6	5.0	6.6	5.0	3.3	8.2	9.9
82.5°	8.2	6.6	6.6	6.6	8.2	3.3	5.0	3.3	5.0	6.6	5.0
85°	5.0	5.0	5.0	3.3	8.2	3.3	3.3	1.7	1.7	3.3	3.3
87.5°	0.0	1.7	1.7	0.0	1.7	0.0	1.7	1.7	1.7	1.7	1.7
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: P248434

CATALOG NUMBER: LSR8B60D010 EC8B60827 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2	3101.2
2.5°	3106.1	3104.5	3106.1	3104.5	3104.5	3104.5	3106.1	3106.1	3104.5	3104.5	3107.8
5°	3119.3	3119.3	3119.3	3117.6	3116.0	3116.0	3119.3	3119.3	3114.3	3119.3	3119.3
7.5°	3147.3	3142.3	3147.3	3140.7	3137.4	3139.0	3140.7	3137.4	3134.1	3135.8	3135.8
10°	3183.5	3178.5	3178.5	3173.6	3168.7	3165.4	3162.1	3153.9	3145.6	3144.0	3137.4
12.5°	3226.3	3218.1	3213.1	3203.2	3195.0	3183.5	3173.6	3160.5	3144.0	3132.5	3121.0
15°	3269.1	3255.9	3244.4	3227.9	3209.8	3190.1	3168.7	3147.3	3121.0	3097.9	3078.1
17.5°	3303.6	3285.6	3264.1	3237.8	3211.5	3181.8	3150.6	3119.3	3081.4	3051.8	3028.8
20°	3315.2	3288.9	3260.9	3226.3	3191.7	3150.6	3111.1	3069.9	3027.1	2995.9	2969.5
22.5°	3300.4	3269.1	3234.5	3198.3	3152.2	3107.8	3061.7	3013.9	2976.1	2933.3	2908.6
25°	3259.2	3221.4	3183.5	3140.7	3096.3	3046.9	2997.5	2948.1	2902.0	2879.0	2847.7
27.5°	3175.3	3134.1	3093.0	3048.5	2997.5	2948.1	2897.1	2849.3	2809.9	2778.6	2760.5
30°	3027.1	2979.4	2931.7	2883.9	2839.5	2788.4	2740.7	2701.2	2661.7	2637.0	2618.9
32.5°	2799.9	2757.2	2709.4	2663.3	2622.2	2579.4	2539.9	2505.3	2477.3	2460.9	2447.7
35°	2493.8	2451.0	2414.8	2381.9	2347.3	2329.2	2304.5	2284.7	2273.2	2266.6	2265.0
37.5°	2108.6	2083.9	2072.4	2065.8	2059.2	2054.3	2057.6	2065.8	2072.4	2083.9	2097.1
40°	1697.1	1718.5	1725.1	1748.1	1769.5	1797.5	1828.8	1865.0	1894.6	1932.5	1958.8
42.5°	1321.8	1361.3	1407.4	1456.8	1509.4	1560.5	1623.0	1680.6	1733.3	1781.0	1822.2
45°	1015.6	1076.5	1145.7	1216.4	1287.2	1361.3	1437.0	1507.8	1570.3	1621.4	1664.2
47.5°	791.8	859.3	948.2	1035.4	1121.0	1208.2	1292.2	1366.2	1418.9	1468.3	1506.1
50°	627.1	704.5	801.6	902.0	995.9	1088.0	1176.9	1246.1	1298.8	1338.3	1366.2
52.5°	485.6	577.8	676.5	781.9	882.3	982.7	1065.0	1129.2	1172.0	1206.6	1228.0
55°	362.1	452.7	558.0	666.7	768.7	865.8	943.2	999.2	1037.0	1056.8	1068.3
57.5°	261.7	344.0	449.4	558.0	650.2	742.4	804.9	856.0	877.3	888.9	893.8
60°	191.0	266.7	360.5	454.3	541.6	615.6	670.0	704.5	721.0	727.6	725.9
62.5°	139.9	205.8	286.4	365.4	436.2	497.1	539.9	562.9	571.2	574.5	569.6
65°	107.0	158.0	227.2	288.1	342.4	386.8	418.1	432.9	437.8	436.2	432.9
67.5°	79.0	118.5	169.6	215.6	255.2	289.7	306.2	319.4	322.6	317.7	312.7
70°	56.0	87.2	123.4	154.7	184.3	204.1	222.2	223.9	223.9	222.2	218.9
72.5°	39.5	60.9	83.9	105.4	123.4	138.3	144.8	149.8	148.1	146.5	143.2
75°	26.3	37.9	60.9	65.9	82.3	87.2	93.8	93.8	95.5	90.5	90.5
77.5°	16.5	26.3	36.2	42.8	49.4	56.0	59.2	59.2	60.9	59.2	59.2
80°	9.9	16.5	19.7	29.6	29.6	34.6	36.2	37.9	34.6	39.5	34.6
82.5°	6.6	9.9	14.8	14.8	18.1	21.4	21.4	23.0	23.0	21.4	21.4
85°	5.0	6.6	8.2	9.9	9.9	11.5	9.9	9.9	11.5	13.2	11.5
87.5°	1.7	3.3	1.7	3.3	3.3	6.6	5.0	5.0	5.0	6.6	6.6
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: P248434

CATALOG NUMBER: LSR8B60D010 EC8B60827 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3101.2	3101.2	3101.2	3101.2
2.5°	3104.5	3106.1	3104.5	3104.5
5°	3119.3	3117.6	3119.3	3116.0
7.5°	3130.8	3130.8	3129.2	3129.2
10°	3130.8	3124.3	3124.3	3124.3
12.5°	3106.1	3097.9	3093.0	3089.7
15°	3063.3	3048.5	3041.9	3040.3
17.5°	3007.4	2994.2	2986.0	2981.0
20°	2943.2	2930.0	2920.1	2921.8
22.5°	2887.2	2872.4	2865.8	2862.5
25°	2831.2	2813.1	2808.2	2804.9
27.5°	2740.7	2730.8	2725.9	2721.0
30°	2602.4	2597.5	2589.3	2600.8
32.5°	2442.8	2434.5	2428.0	2432.9
35°	2266.6	2261.7	2266.6	2263.3
37.5°	2105.3	2110.3	2116.9	2120.1
40°	1978.6	1996.7	2003.3	2006.5
42.5°	1851.8	1873.2	1886.4	1894.6
45°	1695.4	1716.8	1731.7	1741.6
47.5°	1534.1	1552.3	1567.0	1565.4
50°	1387.6	1397.5	1404.1	1410.7
52.5°	1239.5	1239.5	1241.1	1241.1
55°	1071.6	1068.3	1066.6	1068.3
57.5°	887.2	883.9	882.3	877.3
60°	719.3	709.5	702.9	702.9
62.5°	562.9	551.4	546.5	544.9
65°	423.0	421.4	411.5	409.9
67.5°	306.2	299.6	293.0	294.7
70°	215.6	205.8	205.8	202.5
72.5°	139.9	135.0	133.3	133.3
75°	87.2	87.2	83.9	90.5
77.5°	57.6	57.6	56.0	57.6
80°	34.6	34.6	34.6	32.9
82.5°	21.4	23.0	21.4	21.4
85°	11.5	13.2	9.9	14.8
87.5°	6.6	8.2	6.6	8.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)