

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: P250906

Luminaire Tested: **LSR8B60D010 EC8B60950 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B60D010 EC8B60950 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6080.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

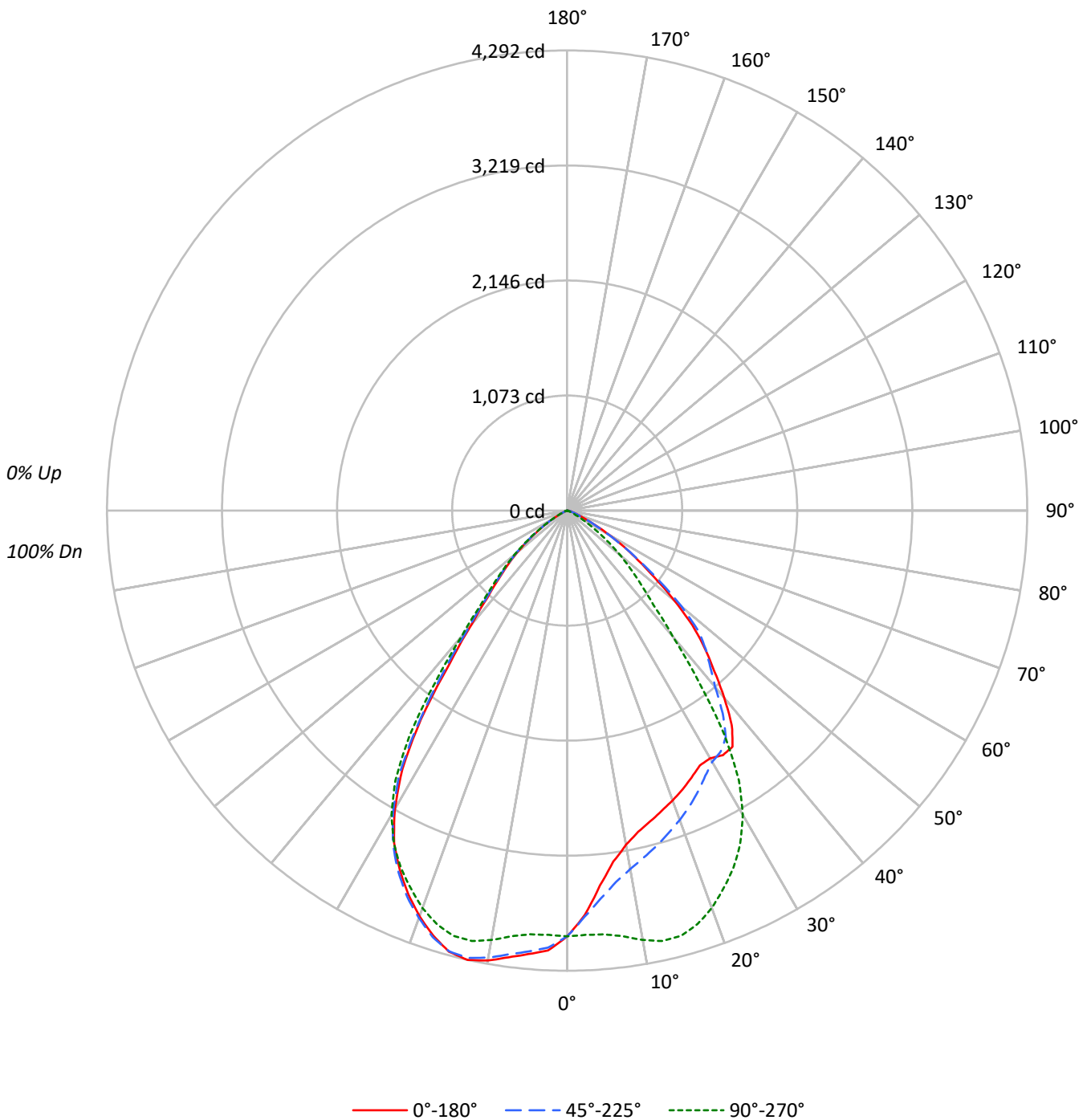
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					39			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	122479	122479	122479
5°	108671	122786	128537
10°	99077	127343	133420
15°	95750	131064	135962
20°	94383	129450	132121
25°	93457	124988	125767
30°	94977	116644	114486
35°	101240	96523	89533
40°	91747	61794	55957
45°	79190	42279	39366
50°	62480	30842	29038
55°	43369	18962	17843
60°	27611	9590	8560
65°	13783	3809	2897
70°	7618	1884	1037
75°	5469	1370	500
80°	4439	923	178
85°	4812	743	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.2	6.1
10°-20°	1069.2	17.6
20°-30°	1551.9	25.5
30°-40°	1528.5	25.1
40°-50°	958.1	15.8
50°-60°	462.3	7.6
60°-70°	111.9	1.8
70°-80°	22.6	0.4
80°-90°	5.2	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°	2991.4	49.2
0°-40°	4519.8	74.3
0°-60°	5940.3	97.7
0°-90°	6080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6080.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3972	3972	3972	3972	3972	
5°	3511	3630	3967	4127	4152	325
15°	2999	3235	4106	4256	4259	848
25°	2747	2890	3674	3724	3696	1271
35°	2689	2580	2564	2418	2378	1627
45°	1816	1828	970	929	903	1388
55°	807	833	353	349	332	742
65°	189	187	52	45	40	216
75°	46	40	12	5	4	52
85°	14	10	2	0	0	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9
2.5°	3775.7	3751.7	3706.9	3761.1	3761.1	3730.9	3791.4	3754.9	3784.1	3830.0	3789.3
5°	3510.7	3490.8	3453.3	3510.7	3518.0	3489.8	3562.8	3535.7	3578.5	3634.9	3629.6
7.5°	3300.9	3275.9	3241.4	3300.9	3312.4	3293.6	3363.5	3351.0	3407.4	3480.4	3492.9
10°	3164.2	3138.1	3107.8	3162.1	3170.5	3157.9	3228.9	3221.6	3276.9	3361.4	3394.8
12.5°	3067.1	3045.2	3011.8	3069.2	3078.6	3060.9	3127.7	3124.5	3181.9	3270.6	3312.4
15°	2999.3	2973.2	2943.0	2992.0	3004.5	2984.7	3048.4	3042.1	3100.5	3188.2	3235.2
17.5°	2935.6	2911.6	2880.3	2926.3	2938.8	2917.9	2980.5	2970.1	3020.2	3103.7	3151.7
20°	2876.2	2850.1	2821.9	2868.9	2876.2	2852.2	2914.8	2901.2	2946.1	3023.3	3070.3
22.5°	2814.6	2787.5	2758.2	2804.2	2811.5	2787.5	2844.9	2829.2	2870.9	2940.9	2983.7
25°	2746.8	2721.7	2692.5	2735.3	2741.5	2715.4	2776.0	2756.1	2792.7	2854.2	2889.7
27.5°	2678.9	2654.9	2622.6	2666.4	2669.5	2644.5	2699.8	2672.7	2702.9	2759.3	2789.5
30°	2667.4	2640.3	2606.9	2642.4	2643.4	2611.1	2663.3	2630.9	2647.6	2689.4	2707.1
32.5°	2704.0	2676.8	2642.4	2671.6	2668.5	2633.0	2683.1	2643.4	2648.7	2670.6	2666.4
35°	2689.4	2657.0	2616.3	2647.6	2647.6	2604.8	2654.9	2608.0	2602.7	2605.9	2579.8
37.5°	2523.4	2498.4	2459.8	2490.0	2486.9	2454.5	2493.2	2454.5	2436.8	2429.5	2382.5
40°	2279.2	2249.0	2219.7	2252.1	2255.2	2220.8	2270.9	2227.0	2221.8	2201.0	2145.6
42.5°	2031.9	2021.5	1993.3	2020.4	2035.0	2005.8	2047.5	2026.7	2029.8	2024.6	1972.4
45°	1815.9	1798.1	1777.3	1808.6	1818.0	1803.3	1845.1	1832.6	1845.1	1871.2	1828.4
47.5°	1583.1	1565.4	1542.4	1575.8	1592.5	1565.4	1600.9	1596.7	1615.5	1660.4	1656.2
50°	1302.4	1289.9	1285.7	1289.9	1300.3	1287.8	1312.8	1313.9	1326.4	1388.0	1392.2
52.5°	1031.1	1027.9	1013.3	1026.9	1026.9	1007.1	1032.1	1020.6	1033.2	1074.9	1102.0
55°	806.7	803.6	794.2	806.7	793.1	785.8	793.1	781.7	772.3	804.6	832.8
57.5°	628.2	617.8	606.3	611.5	610.5	594.9	603.2	589.6	582.3	593.8	618.9
60°	447.7	444.6	434.1	439.4	443.5	432.1	440.4	434.1	421.6	431.0	432.1
62.5°	297.4	299.5	293.3	294.3	291.2	289.1	294.3	297.4	294.3	290.1	291.2
65°	188.9	187.8	186.8	187.8	189.9	185.8	188.9	191.0	187.8	187.8	186.8
67.5°	125.2	122.1	119.0	121.1	123.1	120.0	123.1	122.1	123.1	122.1	119.0
70°	84.5	83.5	82.4	83.5	83.5	81.4	83.5	82.4	83.5	82.4	79.3
72.5°	61.6	61.6	60.5	61.6	61.6	59.5	60.5	58.4	59.5	58.4	56.4
75°	45.9	45.9	44.9	45.9	44.9	43.8	44.9	43.8	41.7	41.7	39.7
77.5°	33.4	33.4	33.4	33.4	33.4	32.4	32.4	31.3	30.3	29.2	29.2
80°	25.0	24.0	24.0	24.0	24.0	23.0	24.0	23.0	21.9	20.9	19.8
82.5°	17.7	18.8	17.7	17.7	17.7	16.7	17.7	16.7	16.7	15.7	13.6
85°	13.6	13.6	13.6	13.6	13.6	12.5	12.5	12.5	11.5	11.5	10.4
87.5°	7.3	7.3	7.3	8.3	7.3	7.3	7.3	6.3	6.3	5.2	5.2
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9
2.5°	3843.6	3848.8	3837.3	3855.1	3923.9	3868.6	3891.6	3898.9	3951.1	3960.5	3954.2
5°	3697.5	3720.4	3735.0	3774.7	3850.9	3811.2	3851.9	3878.0	3944.8	3966.7	3971.9
7.5°	3582.7	3630.7	3666.2	3730.9	3820.6	3790.4	3851.9	3894.7	3976.1	4004.3	4017.9
10°	3497.1	3570.2	3631.7	3720.4	3821.7	3801.8	3882.2	3942.7	4033.5	4066.9	4083.6
12.5°	3432.4	3521.1	3603.5	3716.3	3825.8	3816.4	3913.5	3982.4	4078.4	4111.8	4131.6
15°	3361.4	3463.7	3559.7	3686.0	3803.9	3801.8	3906.2	3979.2	4077.3	4105.5	4124.3
17.5°	3276.9	3386.5	3491.9	3628.6	3745.5	3747.6	3853.0	3925.0	4021.0	4043.9	4056.5
20°	3191.3	3299.9	3405.3	3546.2	3660.9	3664.1	3767.4	3834.2	3926.0	3944.8	3947.9
22.5°	3100.5	3201.8	3307.2	3447.0	3557.6	3559.7	3662.0	3724.6	3802.9	3812.3	3820.6
25°	2997.2	3096.4	3195.5	3334.3	3439.7	3446.0	3538.8	3594.2	3666.2	3673.5	3676.6
27.5°	2889.7	2971.1	3066.1	3185.1	3291.5	3287.3	3375.0	3437.6	3502.3	3498.1	3497.1
30°	2781.2	2849.0	2907.5	3022.3	3100.5	3103.7	3186.1	3216.4	3284.2	3275.9	3274.8
32.5°	2705.0	2722.8	2738.4	2796.8	2870.9	2844.9	2901.2	2938.8	2985.7	2982.6	2983.7
35°	2565.2	2532.8	2485.9	2494.2	2539.1	2498.4	2528.6	2527.6	2575.6	2564.1	2577.7
37.5°	2326.2	2234.3	2130.0	2070.5	2078.9	2027.7	2017.3	2042.3	2059.0	2026.7	2038.2
40°	2071.5	1935.9	1773.1	1637.4	1630.1	1566.4	1555.0	1529.9	1562.3	1535.1	1543.5
42.5°	1883.7	1704.2	1490.3	1325.4	1289.9	1236.7	1205.4	1201.2	1210.6	1191.8	1186.6
45°	1739.7	1548.7	1303.5	1114.6	1074.9	1017.5	986.2	974.7	975.8	969.5	964.3
47.5°	1570.6	1378.6	1130.2	937.2	892.3	838.0	806.7	799.4	803.6	795.2	789.0
50°	1336.9	1164.7	938.2	761.8	722.2	682.5	657.5	650.2	649.1	642.9	638.7
52.5°	1085.3	942.4	746.2	599.0	563.5	524.9	507.2	497.8	498.8	492.6	486.3
55°	840.1	751.4	578.2	452.9	420.6	390.3	373.6	362.1	359.0	352.7	349.6
57.5°	625.1	565.6	433.1	326.6	307.9	278.6	261.9	248.4	246.3	243.2	242.1
60°	438.3	395.5	304.7	232.7	210.8	193.1	176.4	162.8	156.5	155.5	152.4
62.5°	283.9	257.8	200.4	155.5	138.8	126.3	109.6	100.2	96.0	91.8	92.9
65°	176.4	156.5	125.2	100.2	90.8	81.4	68.9	60.5	56.4	52.2	53.2
67.5°	109.6	98.1	79.3	64.7	58.4	51.1	41.7	35.5	32.4	29.2	27.1
70°	74.1	63.7	54.3	45.9	41.7	36.5	30.3	25.0	23.0	20.9	18.8
72.5°	52.2	47.0	39.7	34.4	31.3	27.1	23.0	19.8	17.7	15.7	13.6
75°	37.6	33.4	29.2	25.0	23.0	20.9	17.7	15.7	13.6	11.5	9.4
77.5°	27.1	24.0	20.9	18.8	17.7	14.6	12.5	11.5	10.4	8.3	6.3
80°	18.8	16.7	13.6	12.5	12.5	10.4	9.4	8.3	7.3	5.2	4.2
82.5°	12.5	11.5	10.4	9.4	8.3	7.3	7.3	5.2	4.2	3.1	2.1
85°	9.4	8.3	7.3	6.3	6.3	5.2	4.2	3.1	3.1	2.1	1.0
87.5°	5.2	5.2	4.2	3.1	3.1	2.1	2.1	1.0	1.0	1.0	1.0
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9
2.5°	4007.4	4010.6	4028.3	4014.7	4049.2	4074.2	4061.7	4089.9	4080.5	4078.4	4110.7
5°	4034.6	4041.9	4065.9	4053.3	4090.9	4118.0	4105.5	4136.8	4127.4	4125.3	4158.7
7.5°	4086.7	4094.0	4114.9	4104.5	4144.1	4168.1	4152.5	4186.9	4174.4	4173.4	4205.7
10°	4152.5	4162.9	4180.7	4170.2	4206.8	4227.6	4212.0	4245.4	4233.9	4228.7	4264.1
12.5°	4201.5	4208.8	4226.6	4218.2	4253.7	4269.4	4255.8	4288.2	4273.5	4269.4	4300.7
15°	4190.1	4197.4	4212.0	4204.7	4238.1	4252.7	4234.9	4270.4	4255.8	4247.5	4275.6
17.5°	4117.0	4121.2	4131.6	4124.3	4159.8	4169.2	4149.4	4184.8	4171.3	4156.7	4183.8
20°	4009.5	4007.4	4013.7	4010.6	4039.8	4045.0	4032.5	4058.6	4042.9	4034.6	4050.2
22.5°	3875.9	3873.8	3878.0	3869.7	3898.9	3902.0	3883.2	3914.5	3898.9	3883.2	3909.3
25°	3727.7	3716.3	3714.2	3717.3	3737.1	3740.3	3720.4	3743.4	3723.6	3711.0	3736.1
27.5°	3545.1	3530.5	3527.4	3530.5	3550.3	3535.7	3519.0	3535.7	3515.9	3504.4	3520.1
30°	3319.7	3298.8	3289.4	3283.2	3304.0	3298.8	3260.2	3279.0	3247.7	3231.0	3242.5
32.5°	3016.0	3004.5	2979.5	2964.9	2984.7	2945.0	2921.0	2921.0	2908.5	2880.3	2886.6
35°	2594.4	2576.6	2553.7	2541.2	2544.3	2491.1	2451.4	2459.8	2418.0	2410.7	2413.8
37.5°	2061.1	2031.9	2023.5	1997.4	2003.7	1956.7	1902.5	1903.5	1881.6	1858.7	1851.3
40°	1548.7	1543.5	1535.1	1513.2	1521.6	1470.4	1449.6	1450.6	1436.0	1419.3	1427.6
42.5°	1197.0	1180.3	1175.1	1167.8	1169.9	1161.5	1134.4	1137.5	1125.0	1120.8	1116.7
45°	972.6	954.9	942.4	948.6	948.6	939.2	928.8	935.1	928.8	920.5	924.6
47.5°	801.5	784.8	778.5	777.5	784.8	778.5	768.1	770.2	769.1	766.0	763.9
50°	639.7	635.6	630.3	627.2	630.3	628.2	618.9	624.1	627.2	616.8	619.9
52.5°	487.4	487.4	486.3	479.0	485.3	479.0	478.0	480.1	476.9	472.8	471.7
55°	356.9	353.8	348.6	347.5	349.6	347.5	345.4	346.5	348.6	338.1	338.1
57.5°	244.2	242.1	239.0	239.0	243.2	237.9	234.8	239.0	234.8	230.6	230.6
60°	156.5	155.5	152.4	152.4	152.4	151.3	148.2	149.2	151.3	145.1	146.1
62.5°	93.9	90.8	89.7	88.7	89.7	88.7	88.7	87.7	86.6	86.6	83.5
65°	51.1	49.0	47.0	48.0	48.0	47.0	47.0	47.0	44.9	43.8	42.8
67.5°	26.1	24.0	24.0	23.0	23.0	23.0	23.0	21.9	21.9	21.9	20.9
70°	16.7	15.7	14.6	14.6	14.6	13.6	13.6	13.6	13.6	13.6	12.5
72.5°	11.5	10.4	9.4	9.4	9.4	8.3	8.3	8.3	8.3	7.3	7.3
75°	8.3	7.3	6.3	6.3	6.3	5.2	5.2	5.2	5.2	5.2	5.2
77.5°	5.2	4.2	4.2	4.2	4.2	3.1	3.1	3.1	3.1	3.1	2.1
80°	3.1	3.1	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0
82.5°	2.1	2.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



TEST NUMBER: P250906

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9	3971.9
2.5°	4099.3	4090.9	4096.1	4134.7	4118.0	4112.8	4069.0	4107.6
5°	4148.3	4142.0	4142.0	4185.9	4166.1	4161.9	4119.1	4152.5
7.5°	4194.2	4188.0	4189.0	4233.9	4218.2	4212.0	4169.2	4202.6
10°	4253.7	4249.5	4250.6	4293.4	4276.7	4270.4	4226.6	4261.0
12.5°	4289.2	4282.9	4282.9	4328.9	4310.1	4300.7	4258.9	4292.3
15°	4262.1	4252.7	4252.7	4298.6	4277.7	4264.1	4227.6	4258.9
17.5°	4169.2	4159.8	4159.8	4199.4	4183.8	4164.0	4126.4	4155.6
20°	4039.8	4028.3	4025.2	4071.1	4049.2	4031.4	3998.0	4026.2
22.5°	3893.7	3888.5	3879.1	3925.0	3905.2	3886.4	3850.9	3872.8
25°	3718.3	3710.0	3700.6	3745.5	3725.7	3706.9	3678.7	3696.4
27.5°	3500.2	3501.3	3496.1	3531.5	3511.7	3501.3	3466.8	3496.1
30°	3236.2	3224.7	3220.5	3262.3	3243.5	3229.9	3187.2	3215.3
32.5°	2891.8	2875.1	2853.2	2900.2	2867.8	2856.3	2819.8	2860.5
35°	2390.9	2385.7	2365.8	2405.5	2387.8	2366.9	2343.9	2378.4
37.5°	1848.2	1852.4	1850.3	1860.7	1850.3	1836.7	1811.7	1799.2
40°	1410.9	1400.5	1392.2	1410.9	1389.0	1389.0	1374.4	1390.1
42.5°	1106.2	1102.0	1112.5	1116.7	1104.1	1102.0	1100.0	1098.9
45°	913.1	913.1	915.2	919.4	915.2	913.1	906.9	902.7
47.5°	752.4	756.6	752.4	766.0	758.7	756.6	744.1	749.3
50°	609.5	604.2	609.5	613.6	614.7	608.4	602.2	605.3
52.5°	472.8	464.4	462.3	468.6	464.4	464.4	460.2	459.2
55°	332.9	336.0	330.8	336.0	334.0	330.8	327.7	331.9
57.5°	225.4	226.5	224.4	227.5	222.3	223.3	222.3	221.2
60°	146.1	141.9	141.9	145.1	139.8	139.8	138.8	138.8
62.5°	83.5	82.4	82.4	81.4	80.4	80.4	80.4	78.3
65°	42.8	41.7	40.7	40.7	40.7	40.7	39.7	39.7
67.5°	20.9	19.8	19.8	20.9	19.8	19.8	19.8	19.8
70°	12.5	12.5	11.5	12.5	11.5	11.5	11.5	11.5
72.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
75°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	3.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)