

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: P250908

Luminaire Tested: **LSR8B60D010 EC8B60927 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250908
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 EC8B60927 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE 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: 5164.9 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

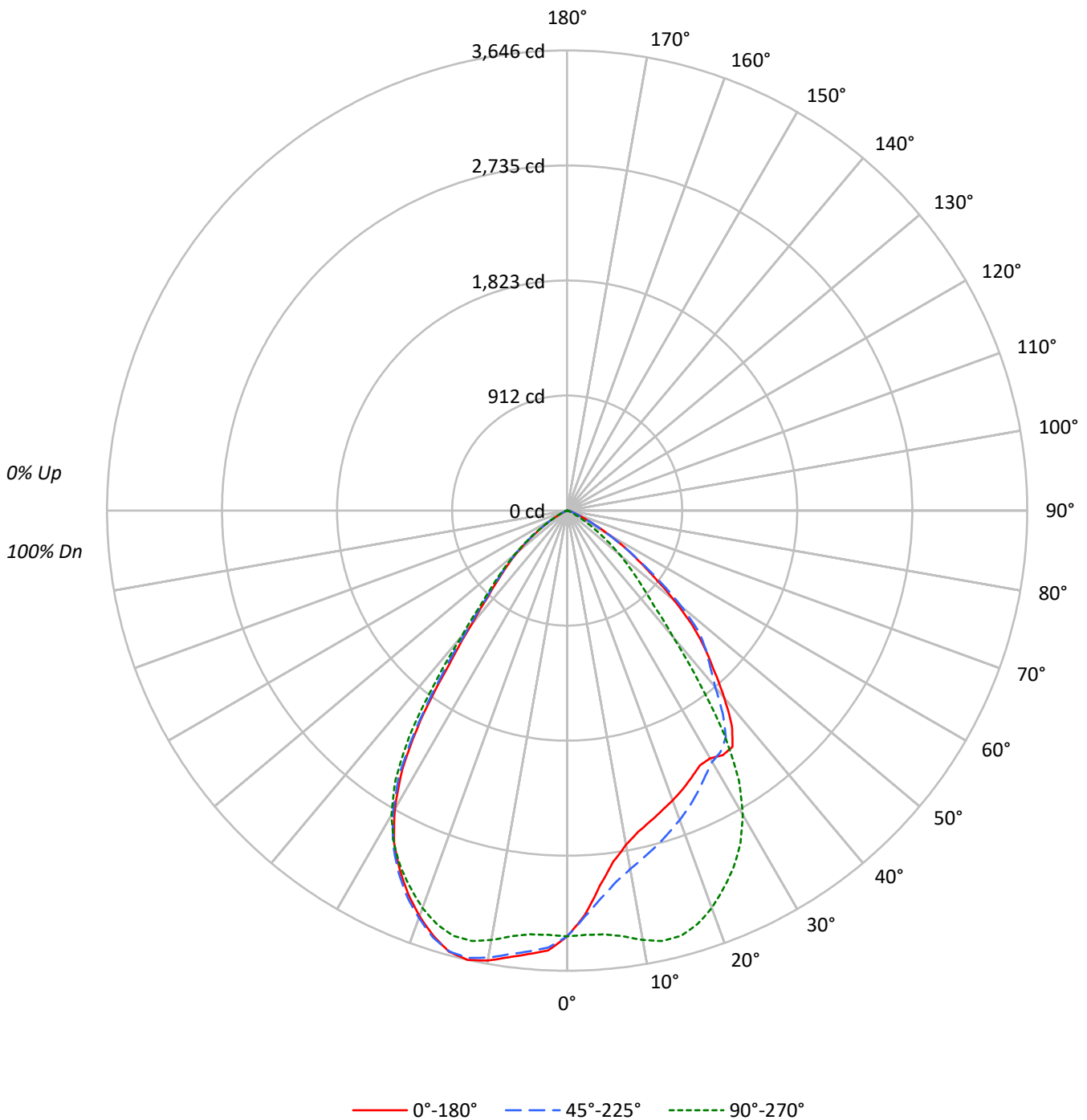
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

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°	314.5	6.1
10°-20°	908.3	17.6
20°-30°	1318.3	25.5
30°-40°	1298.4	25.1
40°-50°	813.9	15.8
50°-60°	392.8	7.6
60°-70°	95.0	1.8
70°-80°	19.2	0.4
80°-90°	4.4	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°	2541.1	49.2
0°-40°	3839.5	74.3
0°-60°	5046.2	97.7
0°-90°	5164.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5164.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3374	3374	3374	3374	3374	
5°	2982	3083	3370	3506	3527	276
15°	2548	2748	3488	3615	3618	720
25°	2333	2455	3120	3163	3140	1080
35°	2284	2192	2178	2054	2020	1382
45°	1543	1553	824	789	767	1179
55°	685	707	300	296	282	630
65°	160	159	44	38	34	183
75°	39	34	10	4	4	44
85°	12	9	2	0	0	12
90°	0	0	0	0	0	



TEST NUMBER: P250908

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBSWOLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1
2.5°	3207.5	3187.0	3148.9	3195.0	3195.0	3169.4	3220.8	3189.7	3214.6	3253.5	3219.0
5°	2982.3	2965.4	2933.5	2982.3	2988.5	2964.5	3026.6	3003.5	3039.9	3087.8	3083.3
7.5°	2804.1	2782.8	2753.5	2804.1	2813.8	2797.9	2857.3	2846.6	2894.5	2956.5	2967.2
10°	2688.0	2665.8	2640.0	2686.2	2693.2	2682.7	2742.9	2736.7	2783.7	2855.5	2883.8
12.5°	2605.5	2586.8	2558.5	2607.3	2615.3	2600.2	2656.9	2654.2	2703.0	2778.4	2813.8
15°	2547.9	2525.7	2500.0	2541.7	2552.3	2535.4	2589.5	2584.2	2633.8	2708.3	2748.3
17.5°	2493.8	2473.4	2446.8	2485.8	2496.5	2478.7	2531.9	2523.0	2565.6	2636.5	2677.3
20°	2443.3	2421.1	2397.2	2437.1	2443.3	2422.9	2476.0	2464.5	2502.7	2568.3	2608.2
22.5°	2391.0	2367.9	2343.0	2382.1	2388.3	2367.9	2416.6	2403.3	2438.8	2498.2	2534.6
25°	2333.4	2312.1	2287.2	2323.6	2328.9	2306.7	2358.1	2341.4	2372.3	2424.6	2454.8
27.5°	2275.6	2255.3	2227.8	2265.1	2267.8	2246.4	2293.4	2270.4	2296.1	2343.9	2369.7
30°	2266.0	2242.9	2214.6	2244.7	2245.6	2218.0	2262.4	2234.9	2249.1	2284.5	2299.6
32.5°	2297.0	2274.0	2244.7	2269.5	2266.9	2236.7	2279.2	2245.6	2250.0	2268.6	2265.1
35°	2284.5	2257.1	2222.5	2249.1	2249.1	2212.8	2255.3	2215.5	2211.0	2213.7	2191.5
37.5°	2143.6	2122.3	2089.6	2115.2	2112.6	2085.1	2117.9	2085.1	2070.0	2063.8	2024.0
40°	1936.1	1910.5	1885.6	1913.1	1915.8	1886.5	1929.0	1891.8	1887.4	1869.6	1822.7
42.5°	1726.1	1717.2	1693.2	1716.3	1728.7	1703.9	1739.4	1721.6	1724.3	1719.9	1675.6
45°	1542.6	1527.5	1509.8	1536.3	1544.3	1531.9	1567.4	1556.8	1567.4	1589.5	1553.2
47.5°	1344.8	1329.8	1310.3	1338.6	1352.8	1329.8	1359.9	1356.4	1372.4	1410.4	1406.9
50°	1106.3	1095.8	1092.1	1095.8	1104.6	1094.0	1115.2	1116.1	1126.8	1179.1	1182.6
52.5°	875.9	873.2	860.8	872.3	872.3	855.4	876.8	867.0	877.6	913.2	936.1
55°	685.2	682.6	674.7	685.2	673.8	667.6	673.8	664.0	656.0	683.6	707.4
57.5°	533.7	524.8	515.0	519.5	518.6	505.4	512.4	500.8	494.7	504.4	525.7
60°	380.4	377.7	368.8	373.3	376.8	367.0	374.1	368.8	358.2	366.2	367.0
62.5°	252.7	254.5	249.1	250.0	247.4	245.6	250.0	252.7	250.0	246.5	247.4
65°	160.4	159.5	158.7	159.5	161.3	157.8	160.4	162.2	159.5	159.5	158.7
67.5°	106.4	103.7	101.0	102.8	104.6	101.9	104.6	103.7	104.6	103.7	101.0
70°	71.8	70.9	70.1	70.9	70.9	69.2	70.9	70.1	70.9	70.1	67.4
72.5°	52.3	52.3	51.4	52.3	52.3	50.5	51.4	49.6	50.5	49.6	47.9
75°	39.0	39.0	38.1	39.0	38.1	37.2	38.1	37.2	35.4	35.4	33.6
77.5°	28.4	28.4	28.4	28.4	28.4	27.4	27.4	26.6	25.8	24.9	24.9
80°	21.3	20.4	20.4	20.4	20.4	19.5	20.4	19.5	18.6	17.8	16.9
82.5°	15.1	16.0	15.1	15.1	15.1	14.2	15.1	14.2	14.2	13.3	11.5
85°	11.5	11.5	11.5	11.5	11.5	10.7	10.7	10.7	9.8	9.8	8.9
87.5°	6.2	6.2	6.2	7.1	6.2	6.2	6.2	5.3	5.3	4.4	4.4
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: P250908

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1
2.5°	3265.1	3269.5	3259.8	3274.8	3333.4	3286.4	3305.8	3312.0	3356.3	3364.3	3359.0
5°	3141.0	3160.5	3172.8	3206.6	3271.3	3237.6	3272.2	3294.3	3351.0	3369.7	3374.1
7.5°	3043.5	3084.2	3114.3	3169.4	3245.5	3219.9	3272.2	3308.5	3377.7	3401.6	3413.1
10°	2970.8	3032.8	3085.1	3160.5	3246.4	3229.6	3297.8	3349.2	3426.4	3454.8	3468.9
12.5°	2915.8	2991.2	3061.1	3156.9	3250.0	3242.0	3324.5	3383.0	3464.6	3492.9	3509.8
15°	2855.5	2942.3	3023.9	3131.2	3231.3	3229.6	3318.3	3380.3	3463.6	3487.6	3503.6
17.5°	2783.7	2876.7	2966.3	3082.4	3181.7	3183.5	3273.1	3334.2	3415.7	3435.3	3445.9
20°	2711.0	2803.2	2892.7	3012.4	3110.0	3112.5	3200.4	3257.1	3335.1	3351.0	3353.7
22.5°	2633.8	2719.8	2809.4	2928.2	3022.2	3023.9	3110.8	3164.0	3230.4	3238.4	3245.5
25°	2546.1	2630.4	2714.5	2832.4	2922.0	2927.2	3006.2	3053.1	3114.3	3120.5	3123.2
27.5°	2454.8	2523.9	2604.6	2705.6	2796.1	2792.6	2867.1	2920.2	2975.2	2971.6	2970.8
30°	2362.6	2420.2	2469.8	2567.4	2633.8	2636.5	2706.5	2732.3	2789.9	2782.8	2781.9
32.5°	2297.8	2312.9	2326.3	2375.9	2438.8	2416.6	2464.5	2496.5	2536.3	2533.7	2534.6
35°	2179.1	2151.6	2111.7	2118.8	2157.0	2122.3	2148.1	2147.2	2187.9	2178.2	2189.7
37.5°	1976.1	1898.1	1809.4	1758.8	1765.9	1722.5	1713.6	1735.0	1749.2	1721.6	1731.4
40°	1759.7	1644.5	1506.1	1391.0	1384.8	1330.6	1321.0	1299.6	1327.2	1304.1	1311.2
42.5°	1600.2	1447.6	1266.0	1125.9	1095.8	1050.5	1024.0	1020.4	1028.4	1012.4	1008.0
45°	1477.8	1315.6	1107.2	946.8	913.2	864.3	837.8	828.0	828.9	823.6	819.1
47.5°	1334.2	1171.1	960.1	796.1	758.0	711.9	685.2	679.1	682.6	675.6	670.2
50°	1135.7	989.3	796.9	647.2	613.5	579.8	558.6	552.3	551.4	546.1	542.6
52.5°	921.9	800.6	633.8	508.8	478.7	446.0	430.9	422.9	423.8	418.4	413.1
55°	713.7	638.3	491.2	384.8	357.3	331.5	317.4	307.6	305.0	299.7	297.0
57.5°	531.0	480.5	367.9	277.5	261.6	236.7	222.5	210.9	209.2	206.6	205.6
60°	372.4	336.0	258.9	197.7	179.1	164.0	149.8	138.3	133.0	132.1	129.5
62.5°	241.1	218.9	170.2	132.1	117.9	107.3	93.0	85.0	81.6	78.0	78.9
65°	149.8	133.0	106.4	85.0	77.2	69.2	58.5	51.4	47.9	44.3	45.2
67.5°	93.0	83.4	67.4	55.0	49.6	43.4	35.4	30.2	27.4	24.9	23.1
70°	62.9	54.1	46.1	39.0	35.4	31.0	25.8	21.3	19.5	17.8	16.0
72.5°	44.3	39.9	33.6	29.2	26.6	23.1	19.5	16.9	15.1	13.3	11.5
75°	32.0	28.4	24.9	21.3	19.5	17.8	15.1	13.3	11.5	9.8	8.0
77.5°	23.1	20.4	17.8	16.0	15.1	12.4	10.7	9.8	8.9	7.1	5.3
80°	16.0	14.2	11.5	10.7	10.7	8.9	8.0	7.1	6.2	4.4	3.6
82.5°	10.7	9.8	8.9	8.0	7.1	6.2	6.2	4.4	3.6	2.7	1.8
85°	8.0	7.1	6.2	5.3	5.3	4.4	3.6	2.7	2.7	1.8	0.9
87.5°	4.4	4.4	3.6	2.7	2.7	1.8	1.8	0.9	0.9	0.9	0.9
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: P250908

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1
2.5°	3404.2	3407.0	3422.0	3410.4	3439.7	3461.0	3450.4	3474.3	3466.4	3464.6	3492.0
5°	3427.3	3433.5	3453.9	3443.3	3475.1	3498.2	3487.6	3514.2	3506.2	3504.4	3532.8
7.5°	3471.6	3477.8	3495.6	3486.7	3520.4	3540.8	3527.4	3556.7	3546.1	3545.2	3572.7
10°	3527.4	3536.3	3551.4	3542.5	3573.6	3591.3	3578.1	3606.4	3596.6	3592.2	3622.4
12.5°	3569.2	3575.4	3590.4	3583.4	3613.5	3626.8	3615.2	3642.8	3630.3	3626.8	3653.3
15°	3559.4	3565.6	3578.1	3571.8	3600.2	3612.6	3597.5	3627.7	3615.2	3608.1	3632.1
17.5°	3497.3	3500.9	3509.8	3503.6	3533.7	3541.6	3524.8	3555.0	3543.4	3531.0	3554.1
20°	3406.0	3404.2	3409.5	3407.0	3431.7	3436.2	3425.5	3447.7	3434.4	3427.3	3440.6
22.5°	3292.5	3290.7	3294.3	3287.2	3312.0	3314.7	3298.7	3325.4	3312.0	3298.7	3320.9
25°	3166.6	3156.9	3155.2	3157.8	3174.6	3177.3	3160.5	3179.9	3163.2	3152.5	3173.7
27.5°	3011.5	2999.1	2996.4	2999.1	3015.9	3003.5	2989.4	3003.5	2986.6	2977.0	2990.2
30°	2820.0	2802.3	2794.3	2789.0	2806.8	2802.3	2769.5	2785.5	2758.8	2744.7	2754.5
32.5°	2562.1	2552.3	2531.0	2518.6	2535.4	2501.8	2481.4	2481.4	2470.7	2446.8	2452.2
35°	2203.9	2188.8	2169.3	2158.6	2161.4	2116.1	2082.5	2089.6	2054.0	2047.8	2050.5
37.5°	1750.8	1726.1	1719.0	1696.8	1702.1	1662.2	1616.2	1617.0	1598.4	1578.9	1572.6
40°	1315.6	1311.2	1304.1	1285.4	1292.5	1249.1	1231.4	1232.2	1219.8	1205.7	1212.8
42.5°	1016.9	1002.7	998.2	992.0	993.8	986.7	963.7	966.3	955.7	952.1	948.6
45°	826.2	811.1	800.6	805.8	805.8	797.8	789.0	794.4	789.0	781.9	785.5
47.5°	680.8	666.7	661.4	660.5	666.7	661.4	652.5	654.3	653.4	650.7	648.9
50°	543.5	539.9	535.5	532.8	535.5	533.7	525.7	530.1	532.8	523.9	526.6
52.5°	414.0	414.0	413.1	406.9	412.2	406.9	406.0	407.8	405.1	401.6	400.7
55°	303.2	300.5	296.1	295.2	297.0	295.2	293.4	294.3	296.1	287.2	287.2
57.5°	207.4	205.6	203.1	203.1	206.6	202.2	199.5	203.1	199.5	196.0	196.0
60°	133.0	132.1	129.5	129.5	129.5	128.6	125.9	126.8	128.6	123.2	124.1
62.5°	79.8	77.2	76.3	75.4	76.3	75.4	75.4	74.5	73.6	73.6	70.9
65°	43.4	41.6	39.9	40.7	40.7	39.9	39.9	39.9	38.1	37.2	36.3
67.5°	22.2	20.4	20.4	19.5	19.5	19.5	19.5	18.6	18.6	18.6	17.8
70°	14.2	13.3	12.4	12.4	12.4	11.5	11.5	11.5	11.5	11.5	10.7
72.5°	9.8	8.9	8.0	8.0	8.0	7.1	7.1	7.1	7.1	6.2	6.2
75°	7.1	6.2	5.3	5.3	5.3	4.4	4.4	4.4	4.4	4.4	4.4
77.5°	4.4	3.6	3.6	3.6	3.6	2.7	2.7	2.7	2.7	2.7	1.8
80°	2.7	2.7	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9
82.5°	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
87.5°	0.9	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: P250908

CATALOG NUMBER: LSR8B60D010 EC8B60927 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1	3374.1
2.5°	3482.2	3475.1	3479.6	3512.4	3498.2	3493.8	3456.6	3489.3
5°	3524.0	3518.7	3518.7	3555.9	3539.0	3535.4	3499.1	3527.4
7.5°	3563.0	3557.6	3558.5	3596.6	3583.4	3578.1	3541.6	3570.1
10°	3613.5	3609.9	3610.8	3647.1	3633.0	3627.7	3590.4	3619.7
12.5°	3643.6	3638.2	3638.2	3677.3	3661.3	3653.3	3617.9	3646.2
15°	3620.6	3612.6	3612.6	3651.6	3633.9	3622.4	3591.3	3617.9
17.5°	3541.6	3533.7	3533.7	3567.4	3554.1	3537.2	3505.3	3530.1
20°	3431.7	3422.0	3419.3	3458.4	3439.7	3424.6	3396.3	3420.2
22.5°	3307.6	3303.2	3295.2	3334.2	3317.4	3301.4	3271.3	3289.8
25°	3158.7	3151.6	3143.6	3181.7	3164.8	3148.9	3125.0	3140.1
27.5°	2973.4	2974.3	2969.9	3000.0	2983.2	2974.3	2945.0	2969.9
30°	2749.2	2739.4	2735.8	2771.3	2755.4	2743.8	2707.4	2731.4
32.5°	2456.5	2442.4	2423.7	2463.6	2436.2	2426.4	2395.4	2430.0
35°	2031.1	2026.6	2009.7	2043.4	2028.4	2010.6	1991.1	2020.4
37.5°	1570.0	1573.5	1571.9	1580.6	1571.9	1560.3	1539.0	1528.3
40°	1198.6	1189.7	1182.6	1198.6	1180.0	1180.0	1167.5	1180.8
42.5°	939.7	936.1	945.0	948.6	937.9	936.1	934.4	933.5
45°	775.7	775.7	777.5	781.0	777.5	775.7	770.4	766.8
47.5°	639.2	642.7	639.2	650.7	644.5	642.7	632.1	636.5
50°	517.7	513.3	517.7	521.3	522.1	516.8	511.5	514.2
52.5°	401.6	394.5	392.7	398.0	394.5	394.5	390.9	390.0
55°	282.8	285.4	281.0	285.4	283.7	281.0	278.3	281.9
57.5°	191.5	192.4	190.6	193.3	188.8	189.7	188.8	188.0
60°	124.1	120.6	120.6	123.2	118.8	118.8	117.9	117.9
62.5°	70.9	70.1	70.1	69.2	68.3	68.3	68.3	66.5
65°	36.3	35.4	34.5	34.5	34.5	34.5	33.6	33.6
67.5°	17.8	16.9	16.9	17.8	16.9	16.9	16.9	16.9
70°	10.7	10.7	9.8	10.7	9.8	9.8	9.8	9.8
72.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
75°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
77.5°	2.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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)