

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: P245453

Luminaire Tested: **LSR8B50D010 EC8B50930 8LBSW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245453
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: LSR8B50D010 EC8B50930 8LBSW0WH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4634.2 lumens
Efficiency: N/A
Efficacy: 87.4 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

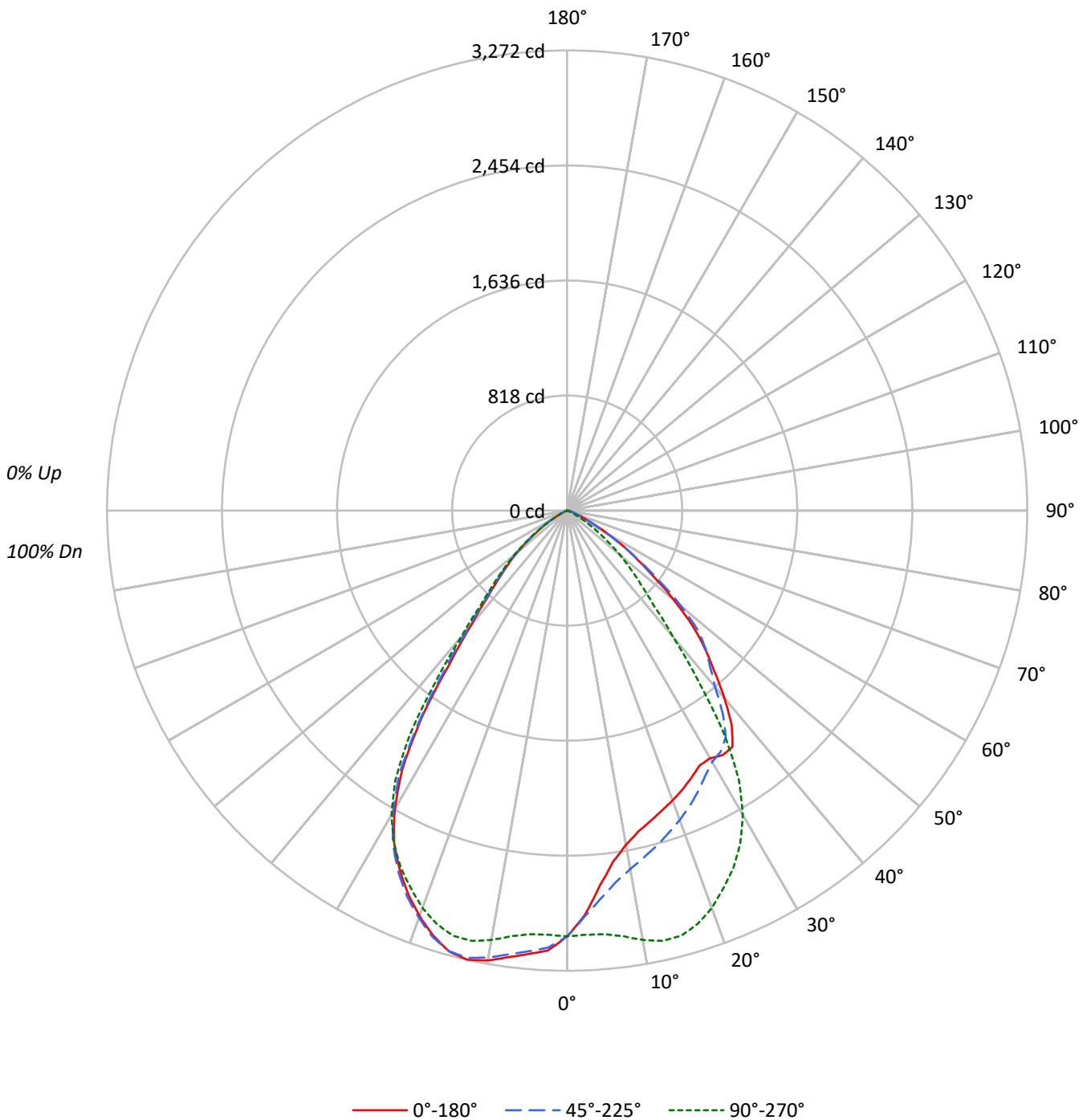
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	282.2	6.1
10°-20°	815.0	17.6
20°-30°	1182.9	25.5
30°-40°	1165.0	25.1
40°-50°	730.3	15.8
50°-60°	352.4	7.6
60°-70°	85.3	1.8
70°-80°	17.2	0.4
80°-90°	4.0	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°	2280.0	49.2
0°-40°	3445.1	74.3
0°-60°	4527.7	97.7
0°-90°	4634.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4634.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3028	3028	3028	3028	3028	
5°	2676	2766	3023	3146	3165	248
15°	2286	2466	3129	3244	3246	646
25°	2094	2202	2800	2838	2817	969
35°	2050	1966	1954	1843	1813	1240
45°	1384	1394	739	708	688	1058
55°	615	635	269	266	253	566
65°	144	142	40	34	30	164
75°	35	30	9	4	3	39
85°	10	8	2	0	0	11
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°	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5
2.5°	2877.9	2859.6	2825.4	2866.7	2866.7	2843.6	2889.8	2862.0	2884.2	2919.3	2888.3
5°	2675.8	2660.7	2632.1	2675.8	2681.4	2659.9	2715.6	2695.0	2727.5	2770.6	2766.5
7.5°	2516.0	2496.9	2470.7	2516.0	2524.7	2510.4	2563.7	2554.2	2597.1	2652.7	2662.4
10°	2411.7	2391.9	2368.8	2410.2	2416.5	2407.0	2461.0	2455.6	2497.7	2562.2	2587.6
12.5°	2337.8	2321.1	2295.6	2339.4	2346.6	2333.0	2383.9	2381.6	2425.3	2492.9	2524.7
15°	2286.1	2266.2	2243.1	2280.6	2290.1	2275.0	2323.5	2318.7	2363.3	2430.1	2465.9
17.5°	2237.5	2219.2	2195.4	2230.5	2240.0	2224.1	2271.8	2263.9	2302.0	2365.6	2402.2
20°	2192.2	2172.4	2150.9	2186.6	2192.2	2174.0	2221.7	2211.3	2245.5	2304.4	2340.2
22.5°	2145.3	2124.6	2102.3	2137.3	2142.9	2124.6	2168.4	2156.5	2188.3	2241.6	2274.2
25°	2093.6	2074.5	2052.2	2084.8	2089.7	2069.7	2115.9	2100.8	2128.6	2175.5	2202.5
27.5°	2041.9	2023.6	1999.0	2032.4	2034.7	2015.7	2057.8	2037.1	2060.2	2103.1	2126.2
30°	2033.2	2012.4	1987.0	2014.1	2014.9	1990.2	2029.9	2005.2	2018.0	2049.9	2063.3
32.5°	2061.0	2040.3	2014.1	2036.3	2033.9	2006.9	2045.0	2014.9	2018.8	2035.5	2032.4
35°	2049.9	2025.2	1994.1	2018.0	2018.0	1985.4	2023.6	1987.8	1983.8	1986.2	1966.3
37.5°	1923.4	1904.2	1874.9	1898.0	1895.5	1870.8	1900.3	1870.8	1857.4	1851.8	1816.0
40°	1737.2	1714.1	1691.9	1716.6	1718.9	1692.7	1730.8	1697.4	1693.5	1677.6	1635.4
42.5°	1548.8	1540.8	1519.3	1539.9	1551.1	1528.8	1560.7	1544.7	1547.1	1543.2	1503.4
45°	1384.1	1370.5	1354.6	1378.5	1385.7	1374.6	1406.3	1396.8	1406.3	1426.2	1393.6
47.5°	1206.6	1193.2	1175.7	1201.2	1213.8	1193.2	1220.2	1217.1	1231.3	1265.5	1262.4
50°	992.8	983.1	980.0	983.1	991.1	981.5	1000.7	1001.5	1011.0	1057.9	1061.1
52.5°	785.9	783.5	772.4	782.7	782.7	767.5	786.7	778.0	787.5	819.3	840.0
55°	614.9	612.5	605.3	614.9	604.6	599.0	604.6	595.8	588.6	613.3	634.7
57.5°	478.9	470.9	462.2	466.1	465.3	453.4	459.7	449.4	443.8	452.7	471.7
60°	341.2	338.9	330.9	334.8	338.1	329.3	335.6	330.9	321.4	328.6	329.3
62.5°	226.7	228.2	223.5	224.3	222.0	220.4	224.3	226.7	224.3	221.2	222.0
65°	143.9	143.2	142.4	143.2	144.7	141.6	143.9	145.6	143.2	143.2	142.4
67.5°	95.4	93.0	90.7	92.3	93.8	91.5	93.8	93.0	93.8	93.0	90.7
70°	64.5	63.7	62.9	63.7	63.7	62.0	63.7	62.9	63.7	62.9	60.4
72.5°	47.0	47.0	46.2	47.0	47.0	45.3	46.2	44.5	45.3	44.5	42.9
75°	35.0	35.0	34.2	35.0	34.2	33.4	34.2	33.4	31.8	31.8	30.3
77.5°	25.4	25.4	25.4	25.4	25.4	24.7	24.7	23.9	23.1	22.3	22.3
80°	19.1	18.3	18.3	18.3	18.3	17.5	18.3	17.5	16.7	15.9	15.1
82.5°	13.6	14.3	13.6	13.6	13.6	12.8	13.6	12.8	12.8	11.9	10.3
85°	10.3	10.3	10.3	10.3	10.3	9.5	9.5	9.5	8.7	8.7	8.0
87.5°	5.6	5.6	5.6	6.4	5.6	5.6	5.6	4.8	4.8	3.9	3.9
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°	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5
2.5°	2929.6	2933.5	2924.8	2938.4	2990.8	2948.7	2966.2	2971.8	3011.6	3018.7	3013.9
5°	2818.2	2835.7	2846.9	2877.0	2935.1	2905.0	2936.0	2955.9	3006.7	3023.4	3027.5
7.5°	2730.8	2767.3	2794.4	2843.6	2912.1	2889.0	2936.0	2968.5	3030.6	3052.1	3062.5
10°	2665.5	2721.2	2768.1	2835.7	2912.9	2897.8	2959.0	3005.2	3074.3	3099.8	3112.6
12.5°	2616.2	2683.8	2746.7	2832.5	2916.1	2908.9	2982.9	3035.4	3108.5	3134.0	3149.1
15°	2562.2	2640.1	2713.3	2809.5	2899.4	2897.8	2977.4	3033.0	3107.7	3129.3	3143.6
17.5°	2497.7	2581.2	2661.6	2765.7	2854.9	2856.4	2936.8	2991.6	3064.8	3082.3	3091.8
20°	2432.5	2515.2	2595.6	2703.0	2790.4	2792.7	2871.6	2922.4	2992.4	3006.7	3009.1
22.5°	2363.3	2440.4	2520.8	2627.3	2711.7	2713.3	2791.2	2838.9	2898.6	2905.7	2912.1
25°	2284.5	2360.0	2435.6	2541.4	2621.8	2626.5	2697.4	2739.5	2794.4	2799.9	2802.3
27.5°	2202.5	2264.6	2336.9	2427.6	2508.8	2505.7	2572.5	2620.2	2669.4	2666.3	2665.5
30°	2119.8	2171.6	2216.1	2303.5	2363.3	2365.6	2428.4	2451.5	2503.2	2496.9	2496.1
32.5°	2061.7	2075.3	2087.2	2131.8	2188.3	2168.4	2211.3	2240.0	2275.7	2273.4	2274.2
35°	1955.1	1930.5	1894.7	1901.1	1935.3	1904.2	1927.3	1926.6	1963.1	1954.4	1964.8
37.5°	1773.1	1703.0	1623.5	1578.1	1584.5	1545.5	1537.6	1556.6	1569.4	1544.7	1553.5
40°	1578.9	1475.6	1351.5	1248.0	1242.5	1194.0	1185.2	1166.1	1190.7	1170.1	1176.5
42.5°	1435.8	1298.9	1135.9	1010.2	983.1	942.6	918.8	915.5	922.7	908.3	904.4
45°	1326.0	1180.4	993.5	849.5	819.3	775.5	751.7	742.9	743.8	739.0	735.0
47.5°	1197.1	1050.8	861.5	714.3	680.1	638.7	614.9	609.3	612.5	606.1	601.3
50°	1019.0	887.7	715.1	580.7	550.4	520.3	501.1	495.6	494.8	490.0	486.9
52.5°	827.3	718.2	568.7	456.6	429.6	400.1	386.6	379.5	380.2	375.4	370.7
55°	640.3	572.7	440.7	345.3	320.6	297.5	284.7	276.0	273.6	268.8	266.5
57.5°	476.4	431.1	330.1	249.0	234.6	212.4	199.7	189.3	187.8	185.3	184.5
60°	334.1	301.4	232.3	177.3	160.6	147.2	134.4	124.1	119.3	118.5	116.1
62.5°	216.4	196.5	152.7	118.5	105.8	96.3	83.5	76.3	73.2	70.0	70.8
65°	134.4	119.3	95.4	76.3	69.2	62.0	52.5	46.2	42.9	39.8	40.6
67.5°	83.5	74.8	60.4	49.3	44.5	39.0	31.8	27.0	24.7	22.3	20.6
70°	56.5	48.5	41.4	35.0	31.8	27.8	23.1	19.1	17.5	15.9	14.3
72.5°	39.8	35.8	30.3	26.2	23.9	20.6	17.5	15.1	13.6	11.9	10.3
75°	28.6	25.4	22.3	19.1	17.5	15.9	13.6	11.9	10.3	8.7	7.2
77.5°	20.6	18.3	15.9	14.3	13.6	11.1	9.5	8.7	8.0	6.4	4.8
80°	14.3	12.8	10.3	9.5	9.5	8.0	7.2	6.4	5.6	3.9	3.1
82.5°	9.5	8.7	8.0	7.2	6.4	5.6	5.6	3.9	3.1	2.4	1.6
85°	7.2	6.4	5.6	4.8	4.8	3.9	3.1	2.4	2.4	1.6	0.8
87.5°	3.9	3.9	3.1	2.4	2.4	1.6	1.6	0.8	0.8	0.8	0.8
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°	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5
2.5°	3054.5	3056.9	3070.4	3060.1	3086.3	3105.4	3095.9	3117.3	3110.2	3108.5	3133.2
5°	3075.1	3080.7	3099.0	3089.5	3118.2	3138.8	3129.3	3153.1	3146.0	3144.4	3169.9
7.5°	3114.9	3120.5	3136.4	3128.5	3158.6	3177.0	3165.0	3191.3	3181.7	3180.9	3205.6
10°	3165.0	3173.0	3186.6	3178.6	3206.4	3222.3	3210.4	3235.9	3227.1	3223.1	3250.1
12.5°	3202.5	3208.0	3221.5	3215.1	3242.2	3254.2	3243.8	3268.5	3257.3	3254.2	3278.0
15°	3193.7	3199.2	3210.4	3204.8	3230.3	3241.4	3227.9	3254.9	3243.8	3237.4	3258.9
17.5°	3138.0	3141.2	3149.1	3143.6	3170.6	3177.8	3162.7	3189.7	3179.4	3168.3	3188.9
20°	3056.1	3054.5	3059.2	3056.9	3079.2	3083.1	3073.6	3093.5	3081.5	3075.1	3087.1
22.5°	2954.3	2952.7	2955.9	2949.5	2971.8	2974.1	2959.8	2983.7	2971.8	2959.8	2979.7
25°	2841.3	2832.5	2831.0	2833.3	2848.5	2850.8	2835.7	2853.3	2838.1	2828.6	2847.7
27.5°	2702.1	2691.0	2688.6	2691.0	2706.1	2695.0	2682.2	2695.0	2679.9	2671.1	2683.0
30°	2530.3	2514.4	2507.2	2502.4	2518.3	2514.4	2484.9	2499.3	2475.4	2462.7	2471.5
32.5°	2298.8	2290.1	2270.9	2259.8	2275.0	2244.7	2226.4	2226.4	2216.9	2195.4	2200.2
35°	1977.4	1964.0	1946.4	1936.9	1939.3	1898.7	1868.5	1874.9	1843.0	1837.4	1839.9
37.5°	1571.0	1548.8	1542.4	1522.4	1527.3	1491.5	1450.1	1450.9	1434.2	1416.7	1411.1
40°	1180.4	1176.5	1170.1	1153.4	1159.8	1120.8	1104.9	1105.6	1094.5	1081.8	1088.2
42.5°	912.4	899.6	895.7	890.1	891.6	885.4	864.6	867.0	857.5	854.3	851.1
45°	741.3	727.9	718.2	723.0	723.0	715.9	707.9	712.7	707.9	701.5	704.8
47.5°	610.9	598.2	593.3	592.6	598.2	593.3	585.5	587.1	586.3	583.8	582.2
50°	487.6	484.4	480.5	478.1	480.5	478.9	471.7	475.6	478.1	470.1	472.5
52.5°	371.5	371.5	370.7	365.1	369.9	365.1	364.3	365.9	363.5	360.3	359.5
55°	272.1	269.6	265.7	264.9	266.5	264.9	263.3	264.1	265.7	257.7	257.7
57.5°	186.1	184.5	182.2	182.2	185.3	181.4	179.0	182.2	179.0	175.8	175.8
60°	119.3	118.5	116.1	116.1	116.1	115.4	113.0	113.8	115.4	110.5	111.3
62.5°	71.6	69.2	68.4	67.6	68.4	67.6	67.6	66.8	66.0	66.0	63.7
65°	39.0	37.4	35.8	36.5	36.5	35.8	35.8	35.8	34.2	33.4	32.6
67.5°	19.8	18.3	18.3	17.5	17.5	17.5	17.5	16.7	16.7	16.7	15.9
70°	12.8	11.9	11.1	11.1	11.1	10.3	10.3	10.3	10.3	10.3	9.5
72.5°	8.7	8.0	7.2	7.2	7.2	6.4	6.4	6.4	6.4	5.6	5.6
75°	6.4	5.6	4.8	4.8	4.8	3.9	3.9	3.9	3.9	3.9	3.9
77.5°	3.9	3.1	3.1	3.1	3.1	2.4	2.4	2.4	2.4	2.4	1.6
80°	2.4	2.4	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8	0.8
82.5°	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
87.5°	0.8	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: P245453

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBSW0WH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5	3027.5
2.5°	3124.5	3118.2	3122.1	3151.6	3138.8	3134.9	3101.4	3130.8
5°	3161.9	3157.1	3157.1	3190.5	3175.3	3172.2	3139.6	3165.0
7.5°	3196.9	3192.0	3192.9	3227.1	3215.1	3210.4	3177.8	3203.3
10°	3242.2	3239.0	3239.8	3272.4	3259.8	3254.9	3221.5	3247.8
12.5°	3269.3	3264.5	3264.5	3299.4	3285.2	3278.0	3246.2	3271.6
15°	3248.5	3241.4	3241.4	3276.5	3260.5	3250.1	3222.3	3246.2
17.5°	3177.8	3170.6	3170.6	3200.8	3188.9	3173.8	3145.2	3167.4
20°	3079.2	3070.4	3068.0	3103.0	3086.3	3072.8	3047.3	3068.8
22.5°	2967.7	2963.8	2956.6	2991.6	2976.5	2962.2	2935.1	2951.8
25°	2834.1	2827.8	2820.7	2854.9	2839.7	2825.4	2804.0	2817.4
27.5°	2667.9	2668.7	2664.7	2691.7	2676.6	2668.7	2642.4	2664.7
30°	2466.6	2457.9	2454.8	2486.5	2472.3	2461.8	2429.3	2450.7
32.5°	2204.1	2191.4	2174.7	2210.5	2185.8	2177.1	2149.3	2180.3
35°	1822.3	1818.4	1803.2	1833.5	1819.9	1804.0	1786.5	1812.8
37.5°	1408.8	1411.9	1410.3	1418.3	1410.3	1400.0	1380.8	1371.3
40°	1075.5	1067.5	1061.1	1075.5	1058.7	1058.7	1047.6	1059.6
42.5°	843.2	840.0	847.9	851.1	841.5	840.0	838.4	837.6
45°	696.0	696.0	697.6	700.7	697.6	696.0	691.2	688.1
47.5°	573.5	576.6	573.5	583.8	578.3	576.6	567.1	571.1
50°	464.5	460.5	464.5	467.7	468.5	463.8	458.9	461.4
52.5°	360.3	354.0	352.3	357.2	354.0	354.0	350.8	350.0
55°	253.8	256.1	252.1	256.1	254.6	252.1	249.8	252.9
57.5°	171.8	172.6	171.1	173.4	169.4	170.2	169.4	168.6
60°	111.3	108.2	108.2	110.5	106.6	106.6	105.8	105.8
62.5°	63.7	62.9	62.9	62.0	61.2	61.2	61.2	59.6
65°	32.6	31.8	31.1	31.1	31.1	31.1	30.3	30.3
67.5°	15.9	15.1	15.1	15.9	15.1	15.1	15.1	15.1
70°	9.5	9.5	8.7	9.5	8.7	8.7	8.7	8.7
72.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
75°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
77.5°	2.4	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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)