

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: P248407

Luminaire Tested: **LSR8B60D010 EC8B60950 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248407
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 EC8B60950 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE 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: 6043.0 lumens
Efficiency: N/A
Efficacy: 101.6 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

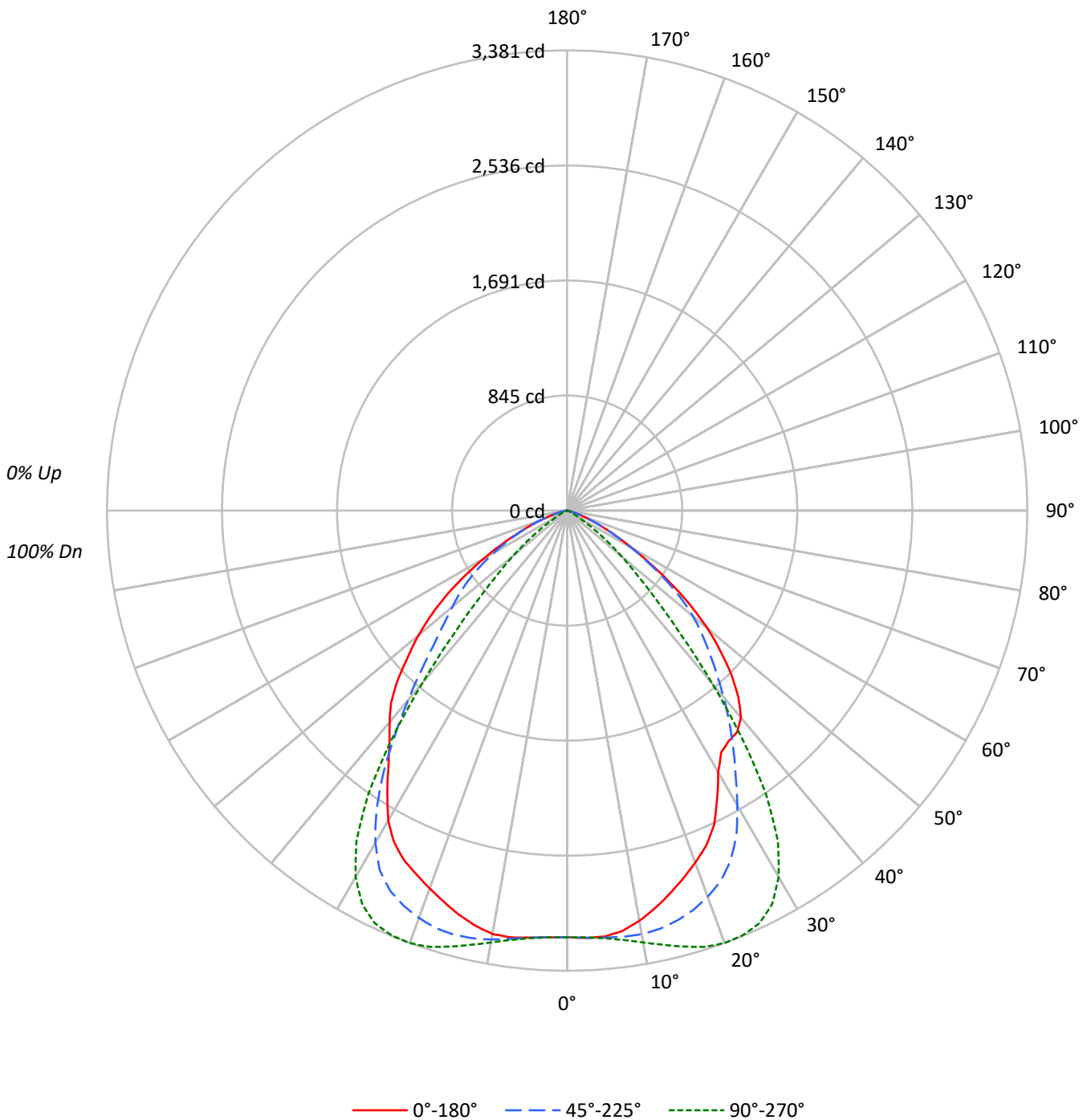
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	96669	96669	96669
5°	97245	97604	97502
10°	95815	100872	98890
15°	93014	105870	98112
20°	90314	110955	96923
25°	86847	113797	96472
30°	79036	110676	93614
35°	77859	95899	86130
40°	79977	66512	81651
45°	74450	40199	76774
50°	64576	24826	68409
55°	49557	12973	58057
60°	33760	5230	43818
65°	21007	2671	30229
70°	11405	1650	18456
75°	5945	786	10902
80°	2664	888	5913
85°	1769	601	5307



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.5	5.0
10°-20°	893.1	14.8
20°-30°	1362.5	22.5
30°-40°	1421.8	23.5
40°-50°	1068.0	17.7
50°-60°	657.1	10.9
60°-70°	267.4	4.4
70°-80°	63.0	1.0
80°-90°	8.7	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°	2557.1	42.3
0°-40°	3978.9	65.8
0°-60°	5703.9	94.4
0°-90°	6043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6043.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3135	3135	3135	3135	3135	
5°	3142	3150	3153	3150	3150	297
15°	2914	3118	3316	3225	3073	821
25°	2552	2839	3345	3080	2835	1160
35°	2068	2127	2548	2354	2288	1306
45°	1707	1478	922	1376	1760	1303
55°	922	875	241	875	1080	829
65°	288	291	37	391	414	300
75°	50	50	7	88	92	60
85°	5	5	2	12	15	7
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9
2.5°	3143.2	3138.2	3143.2	3143.2	3144.9	3141.6	3143.2	3144.9	3141.6	3141.6	3141.6
5°	3141.6	3138.2	3141.6	3139.9	3143.2	3143.2	3146.6	3146.6	3149.9	3149.9	3154.9
7.5°	3114.9	3108.3	3114.9	3120.0	3123.3	3129.9	3138.2	3144.9	3151.5	3158.2	3166.5
10°	3060.0	3060.0	3065.0	3075.0	3085.0	3096.6	3111.6	3128.3	3144.9	3159.9	3174.8
12.5°	2991.8	2986.8	2996.8	3010.1	3025.1	3043.4	3066.7	3091.7	3118.3	3148.2	3171.5
15°	2913.6	2908.6	2920.2	2933.6	2951.9	2978.5	3006.8	3040.1	3078.3	3118.3	3156.6
17.5°	2833.7	2832.1	2843.7	2862.0	2877.0	2905.3	2941.9	2981.8	3025.1	3078.3	3128.3
20°	2752.2	2750.5	2762.2	2777.2	2797.1	2823.8	2860.4	2906.9	2958.5	3018.5	3076.7
22.5°	2667.3	2669.0	2679.0	2695.6	2712.3	2740.5	2778.8	2825.4	2882.0	2946.9	3011.8
25°	2552.5	2544.2	2557.5	2574.2	2602.4	2625.7	2662.4	2712.3	2770.5	2838.7	2915.3
27.5°	2386.1	2384.4	2396.1	2411.1	2436.0	2464.3	2504.3	2555.9	2617.4	2692.3	2767.2
30°	2219.7	2223.1	2228.1	2243.0	2259.7	2288.0	2327.9	2371.2	2429.4	2500.9	2580.8
32.5°	2106.6	2106.6	2113.2	2123.2	2134.9	2149.8	2178.1	2209.7	2254.7	2304.6	2362.8
35°	2068.3	2061.7	2068.3	2070.0	2071.6	2075.0	2079.9	2090.0	2104.9	2126.6	2148.2
37.5°	2051.7	2046.7	2046.7	2040.0	2031.7	2021.7	2008.4	1993.4	1976.8	1955.2	1938.5
40°	1986.8	1983.4	1980.1	1973.5	1955.2	1935.2	1913.5	1878.6	1840.3	1787.1	1733.9
42.5°	1862.0	1858.7	1857.0	1843.7	1827.0	1803.7	1778.8	1742.2	1693.9	1625.7	1549.1
45°	1707.2	1700.6	1695.6	1684.0	1672.3	1652.3	1629.0	1595.7	1547.5	1477.6	1386.1
47.5°	1527.5	1524.2	1522.5	1517.6	1505.9	1494.2	1479.3	1452.7	1409.4	1342.8	1248.0
50°	1346.1	1339.5	1342.8	1341.2	1336.2	1327.9	1317.8	1299.6	1266.3	1206.4	1119.9
52.5°	1138.1	1138.1	1136.5	1141.5	1143.1	1141.5	1143.1	1123.2	1094.9	1049.9	976.7
55°	921.8	921.8	926.8	933.5	940.1	941.8	940.1	931.8	911.8	875.2	810.3
57.5°	718.8	715.5	725.5	735.5	742.1	748.8	743.8	737.1	725.5	695.5	645.6
60°	547.4	547.4	554.1	560.8	567.4	574.1	572.4	570.7	560.8	540.8	500.9
62.5°	402.7	404.3	404.3	409.3	416.0	422.7	427.6	422.7	417.6	404.3	377.7
65°	287.9	286.2	287.9	292.9	297.9	304.5	307.8	306.2	301.2	291.2	271.2
67.5°	193.0	191.4	198.0	199.7	203.0	209.7	208.0	209.7	208.0	199.7	183.1
70°	126.5	123.1	126.5	124.8	129.8	131.5	134.8	136.4	134.8	129.8	124.8
72.5°	78.2	76.5	78.2	79.9	81.6	83.2	86.5	86.5	84.8	81.6	74.9
75°	49.9	44.9	46.6	43.3	46.6	46.6	49.9	51.6	49.9	49.9	46.6
77.5°	30.0	30.0	30.0	30.0	30.0	30.0	30.0	31.6	33.3	30.0	28.3
80°	15.0	15.0	16.7	16.7	16.7	18.3	16.7	16.7	16.7	18.3	13.3
82.5°	11.6	10.0	10.0	10.0	11.6	10.0	10.0	10.0	10.0	10.0	10.0
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9
2.5°	3143.2	3139.9	3139.9	3138.2	3141.6	3138.2	3139.9	3138.2	3138.2	3141.6	3138.2
5°	3154.9	3156.6	3153.2	3151.5	3156.6	3156.6	3156.6	3153.2	3153.2	3154.9	3153.2
7.5°	3171.5	3174.8	3176.5	3178.2	3181.5	3183.2	3183.2	3181.5	3179.8	3184.9	3178.2
10°	3189.8	3194.8	3204.8	3209.8	3218.1	3218.1	3221.5	3221.5	3218.1	3221.5	3219.8
12.5°	3183.2	3213.1	3229.8	3241.4	3253.0	3263.0	3266.4	3268.0	3266.4	3273.0	3266.4
15°	3194.8	3219.8	3246.4	3266.4	3288.0	3299.6	3303.0	3316.3	3319.6	3321.3	3311.3
17.5°	3176.5	3221.5	3249.7	3279.7	3311.3	3332.9	3352.9	3361.2	3362.9	3366.2	3352.9
20°	3134.9	3184.9	3228.1	3271.4	3308.0	3341.2	3357.9	3381.2	3374.5	3387.9	3369.5
22.5°	3078.3	3134.9	3189.8	3246.4	3284.7	3324.6	3359.6	3376.2	3384.5	3384.5	3364.5
25°	2988.5	3055.1	3114.9	3173.2	3231.4	3279.7	3319.6	3344.6	3349.6	3347.9	3324.6
27.5°	2848.7	2920.2	2990.2	3056.7	3128.3	3184.9	3231.4	3261.4	3269.7	3269.7	3244.7
30°	2655.7	2732.2	2800.5	2880.3	2953.6	3016.8	3081.7	3108.3	3123.3	3123.3	3095.0
32.5°	2426.1	2491.0	2554.2	2632.4	2712.3	2783.8	2845.4	2882.0	2900.3	2898.6	2873.7
35°	2176.5	2208.1	2256.4	2314.6	2386.1	2452.7	2512.6	2547.5	2579.1	2577.5	2554.2
37.5°	1926.9	1918.5	1923.6	1945.2	1990.1	2036.7	2083.3	2116.6	2143.2	2154.9	2149.8
40°	1682.3	1639.0	1597.4	1582.4	1585.7	1602.4	1627.4	1652.3	1682.3	1697.3	1703.9
42.5°	1462.6	1389.4	1316.2	1261.3	1229.7	1219.7	1231.3	1239.6	1258.0	1279.6	1301.2
45°	1286.3	1188.1	1091.6	1006.7	953.5	921.8	915.2	921.8	931.8	953.5	981.7
47.5°	1141.5	1026.7	918.5	823.7	745.4	703.9	692.2	688.9	698.9	718.8	757.1
50°	1013.3	898.5	778.7	668.9	587.4	540.8	524.2	517.5	529.1	544.1	579.0
52.5°	873.6	760.4	637.3	530.8	445.9	397.7	379.4	369.4	376.0	396.0	431.0
55°	722.2	617.3	505.8	396.0	314.5	269.6	247.9	241.3	247.9	269.6	304.5
57.5°	570.7	482.5	389.4	286.2	213.0	168.1	146.4	139.8	158.1	166.4	203.0
60°	445.9	374.4	294.5	209.7	146.4	111.5	89.9	84.8	93.2	108.1	138.1
62.5°	334.5	289.5	226.3	149.7	108.1	71.5	59.9	54.9	59.9	71.5	94.9
65°	242.9	208.0	158.1	109.8	73.2	53.3	39.9	36.6	41.6	49.9	69.9
67.5°	166.4	139.8	109.8	76.5	49.9	33.3	28.3	28.3	30.0	36.6	51.6
70°	108.1	91.5	69.9	49.9	33.3	25.0	21.6	18.3	21.6	26.6	34.9
72.5°	68.2	58.2	44.9	34.9	25.0	18.3	15.0	13.3	16.7	20.0	26.6
75°	41.6	31.6	23.3	18.3	13.3	13.3	13.3	6.6	8.3	13.3	16.7
77.5°	25.0	21.6	18.3	15.0	11.6	6.6	6.6	6.6	8.3	10.0	15.0
80°	13.3	11.6	8.3	8.3	6.6	5.0	6.6	5.0	3.3	8.3	10.0
82.5°	8.3	6.6	6.6	6.6	8.3	3.3	5.0	3.3	5.0	6.6	5.0
85°	5.0	5.0	5.0	3.3	8.3	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9	3134.9
2.5°	3139.9	3138.2	3139.9	3138.2	3138.2	3138.2	3139.9	3139.9	3138.2	3138.2	3141.6
5°	3153.2	3153.2	3153.2	3151.5	3149.9	3149.9	3153.2	3153.2	3148.2	3153.2	3153.2
7.5°	3181.5	3176.5	3181.5	3174.8	3171.5	3173.2	3174.8	3171.5	3168.2	3169.9	3169.9
10°	3218.1	3213.1	3213.1	3208.1	3203.1	3199.8	3196.5	3188.1	3179.8	3178.2	3171.5
12.5°	3261.4	3253.0	3248.1	3238.1	3229.8	3218.1	3208.1	3194.8	3178.2	3166.5	3154.9
15°	3304.6	3291.3	3279.7	3263.0	3244.7	3224.8	3203.1	3181.5	3154.9	3131.6	3111.6
17.5°	3339.6	3321.3	3299.6	3273.0	3246.4	3216.4	3184.9	3153.2	3114.9	3085.0	3061.7
20°	3351.2	3324.6	3296.3	3261.4	3226.4	3184.9	3144.9	3103.3	3060.0	3028.4	3001.8
22.5°	3336.3	3304.6	3269.7	3233.1	3186.5	3141.6	3095.0	3046.7	3008.4	2965.2	2940.2
25°	3294.7	3256.4	3218.1	3174.8	3129.9	3080.0	3030.1	2980.2	2933.6	2910.3	2878.7
27.5°	3209.8	3168.2	3126.6	3081.7	3030.1	2980.2	2928.6	2880.3	2840.4	2808.8	2790.5
30°	3060.0	3011.8	2963.5	2915.3	2870.3	2818.7	2770.5	2730.6	2690.6	2665.7	2647.4
32.5°	2830.4	2787.2	2738.9	2692.3	2650.7	2607.4	2567.5	2532.6	2504.3	2487.6	2474.3
35°	2520.9	2477.6	2441.0	2407.8	2372.8	2354.5	2329.6	2309.6	2297.9	2291.3	2289.6
37.5°	2131.5	2106.6	2094.9	2088.3	2081.6	2076.6	2079.9	2088.3	2094.9	2106.6	2119.9
40°	1715.5	1737.2	1743.8	1767.1	1788.8	1817.0	1848.7	1885.3	1915.2	1953.5	1980.1
42.5°	1336.2	1376.1	1422.7	1472.6	1525.9	1577.4	1640.7	1698.9	1752.1	1800.4	1842.0
45°	1026.7	1088.2	1158.1	1229.7	1301.2	1376.1	1452.7	1524.2	1587.4	1639.0	1682.3
47.5°	800.4	868.6	958.5	1046.6	1133.2	1221.4	1306.2	1381.1	1434.3	1484.2	1522.5
50°	634.0	712.2	810.3	911.8	1006.7	1099.9	1189.7	1259.6	1312.9	1352.8	1381.1
52.5°	490.9	584.0	683.9	790.4	891.9	993.4	1076.6	1141.5	1184.8	1219.7	1241.3
55°	366.1	457.6	564.1	673.9	777.1	875.2	953.5	1010.0	1048.3	1068.3	1079.9
57.5°	264.6	347.8	454.3	564.1	657.3	750.4	813.7	865.3	886.9	898.5	903.5
60°	193.0	269.6	364.4	459.3	547.4	622.3	677.2	712.2	728.8	735.5	733.8
62.5°	141.4	208.0	289.5	369.4	440.9	502.5	545.8	569.1	577.4	580.7	575.7
65°	108.1	159.7	229.6	291.2	346.1	391.0	422.7	437.6	442.6	440.9	437.6
67.5°	79.9	119.8	171.4	218.0	257.9	292.9	309.5	322.8	326.1	321.2	316.1
70°	56.6	88.2	124.8	156.4	186.4	206.3	224.6	226.3	226.3	224.6	221.3
72.5°	39.9	61.6	84.8	106.5	124.8	139.8	146.4	151.4	149.7	148.1	144.8
75°	26.6	38.3	61.6	66.6	83.2	88.2	94.9	94.9	96.5	91.5	91.5
77.5°	16.7	26.6	36.6	43.3	49.9	56.6	59.9	59.9	61.6	59.9	59.9
80°	10.0	16.7	20.0	30.0	30.0	34.9	36.6	38.3	34.9	39.9	34.9
82.5°	6.6	10.0	15.0	15.0	18.3	21.6	21.6	23.3	23.3	21.6	21.6
85°	5.0	6.6	8.3	10.0	10.0	11.6	10.0	10.0	11.6	13.3	11.6
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: P248407

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3134.9	3134.9	3134.9	3134.9
2.5°	3138.2	3139.9	3138.2	3138.2
5°	3153.2	3151.5	3153.2	3149.9
7.5°	3164.9	3164.9	3163.2	3163.2
10°	3164.9	3158.2	3158.2	3158.2
12.5°	3139.9	3131.6	3126.6	3123.3
15°	3096.6	3081.7	3075.0	3073.3
17.5°	3040.1	3026.8	3018.5	3013.4
20°	2975.2	2961.9	2951.9	2953.6
22.5°	2918.6	2903.6	2897.0	2893.6
25°	2862.0	2843.7	2838.7	2835.4
27.5°	2770.5	2760.5	2755.5	2750.5
30°	2630.7	2625.7	2617.4	2629.1
32.5°	2469.3	2461.0	2454.4	2459.4
35°	2291.3	2286.3	2291.3	2288.0
37.5°	2128.2	2133.2	2139.9	2143.2
40°	2000.1	2018.4	2025.1	2028.4
42.5°	1872.0	1893.6	1906.9	1915.2
45°	1713.9	1735.5	1750.5	1760.5
47.5°	1550.8	1569.1	1584.1	1582.4
50°	1402.7	1412.7	1419.3	1426.0
52.5°	1252.9	1252.9	1254.6	1254.6
55°	1083.2	1079.9	1078.2	1079.9
57.5°	896.9	893.6	891.9	886.9
60°	727.2	717.2	710.5	710.5
62.5°	569.1	557.4	552.5	550.8
65°	427.6	426.0	416.0	414.3
67.5°	309.5	302.8	296.2	297.9
70°	218.0	208.0	208.0	204.7
72.5°	141.4	136.4	134.8	134.8
75°	88.2	88.2	84.8	91.5
77.5°	58.2	58.2	56.6	58.2
80°	34.9	34.9	34.9	33.3
82.5°	21.6	23.3	21.6	21.6
85°	11.6	13.3	10.0	15.0
87.5°	6.6	8.3	6.6	8.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)