

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: P248515

Luminaire Tested: **LSR8B60D010 EC8B60950 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248515
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 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5876.0 lumens
Efficiency: N/A
Efficacy: 98.8 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

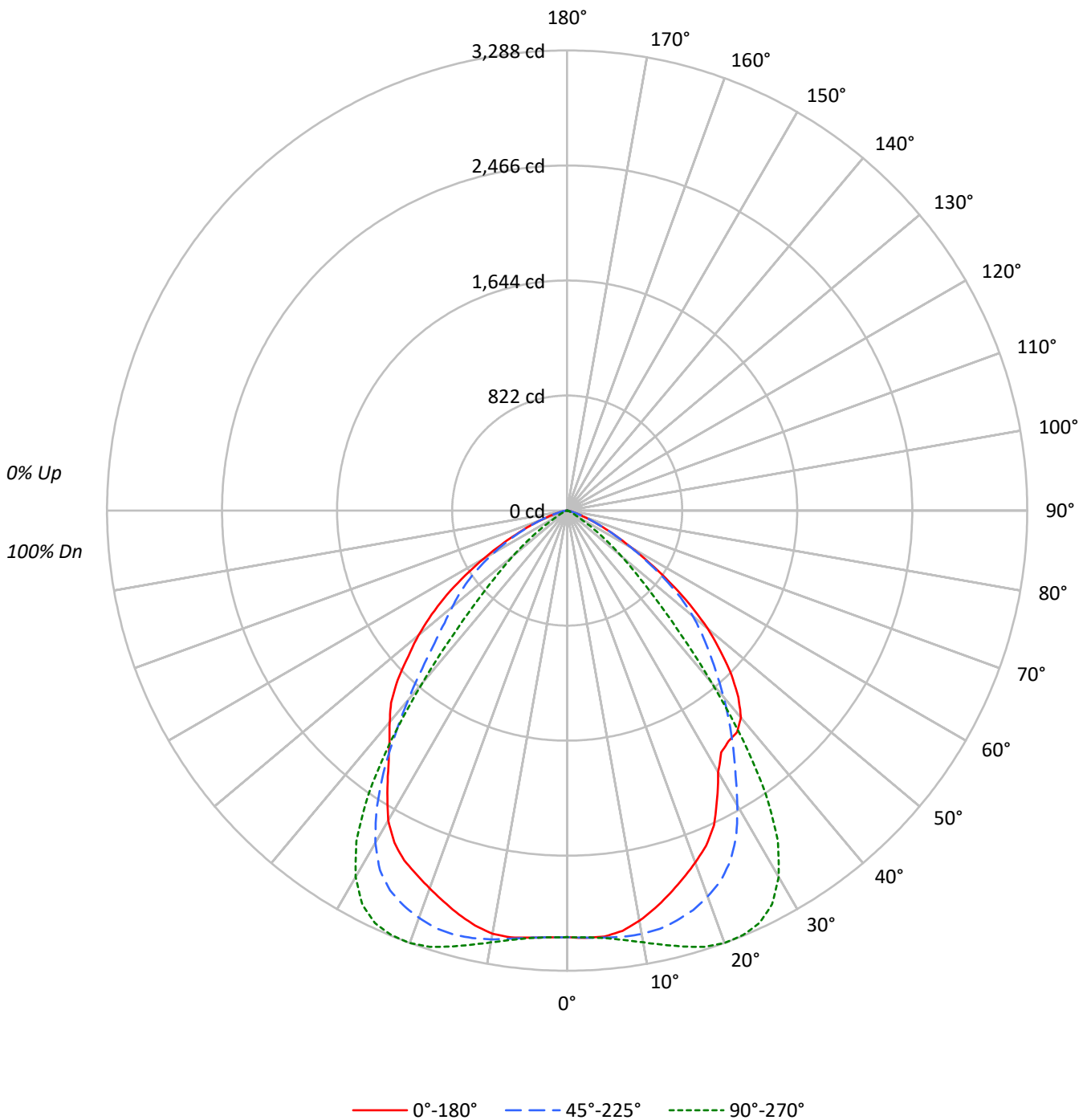
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90				90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79				79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70				70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62				62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56				56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50				50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45				45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41				41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38				38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34				34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	93998	93998	93998
5°	94559	94908	94806
10°	93169	98082	96156
15°	90444	102942	95402
20°	87820	107887	94242
25°	84448	110650	93804
30°	76854	107618	91025
35°	75706	93248	83747
40°	77767	64676	79393
45°	72396	39087	74650
50°	62792	24140	66519
55°	48186	12612	56455
60°	32828	5088	42610
65°	20423	2598	29398
70°	11090	1605	17942
75°	5778	774	10604
80°	2593	870	5736
85°	1734	566	5166



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.1	5.0
10°-20°	868.4	14.8
20°-30°	1324.8	22.5
30°-40°	1382.5	23.5
40°-50°	1038.4	17.7
50°-60°	638.9	10.9
60°-70°	260.0	4.4
70°-80°	61.3	1.0
80°-90°	8.4	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°	2486.4	42.3
0°-40°	3868.9	65.8
0°-60°	5546.3	94.4
0°-90°	5876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5876.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3048	3048	3048	3048	3048	
5°	3055	3063	3066	3063	3063	289
15°	2833	3032	3225	3136	2988	798
25°	2482	2760	3252	2995	2757	1128
35°	2011	2068	2477	2290	2225	1270
45°	1660	1437	896	1338	1712	1267
55°	896	851	235	851	1050	806
65°	280	283	36	380	403	292
75°	48	48	6	86	89	58
85°	5	5	2	11	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°	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3
2.5°	3056.4	3051.5	3056.4	3056.4	3058.0	3054.8	3056.4	3058.0	3054.8	3054.8	3054.8
5°	3054.8	3051.5	3054.8	3053.1	3056.4	3056.4	3059.6	3059.6	3062.8	3062.8	3067.7
7.5°	3028.9	3022.4	3028.9	3033.7	3036.9	3043.4	3051.5	3058.0	3064.5	3070.9	3079.0
10°	2975.5	2975.5	2980.3	2990.0	2999.7	3011.0	3025.6	3041.8	3058.0	3072.5	3087.1
12.5°	2909.1	2904.3	2914.0	2926.9	2941.5	2959.3	2981.9	3006.2	3032.1	3061.2	3083.9
15°	2833.1	2828.2	2839.5	2852.5	2870.3	2896.2	2923.7	2956.1	2993.3	3032.1	3069.3
17.5°	2755.4	2753.8	2765.1	2782.9	2797.5	2825.0	2860.6	2899.4	2941.5	2993.3	3041.8
20°	2676.2	2674.5	2685.9	2700.4	2719.8	2745.7	2781.3	2826.6	2876.8	2935.0	2991.6
22.5°	2593.6	2595.2	2604.9	2621.1	2637.3	2664.8	2702.0	2747.3	2802.3	2865.4	2928.5
25°	2482.0	2473.9	2486.8	2503.0	2530.5	2553.2	2588.8	2637.3	2693.9	2760.3	2834.7
27.5°	2320.2	2318.6	2329.9	2344.4	2368.7	2396.2	2435.1	2485.2	2545.1	2617.9	2690.7
30°	2158.4	2161.6	2166.5	2181.1	2197.2	2224.7	2263.6	2305.6	2362.3	2431.8	2509.5
32.5°	2048.4	2048.4	2054.8	2064.5	2075.9	2090.4	2118.0	2148.7	2192.4	2240.9	2297.5
35°	2011.1	2004.7	2011.1	2012.8	2014.4	2017.6	2022.5	2032.2	2046.7	2067.8	2088.8
37.5°	1995.0	1990.1	1990.1	1983.7	1975.5	1965.8	1952.9	1938.3	1922.2	1901.1	1885.0
40°	1931.9	1928.6	1925.4	1918.9	1901.1	1881.7	1860.7	1826.7	1789.5	1737.7	1686.0
42.5°	1810.5	1807.3	1805.7	1792.7	1776.5	1753.9	1729.6	1694.0	1647.1	1580.8	1506.3
45°	1660.1	1653.6	1648.7	1637.4	1626.1	1606.7	1584.0	1551.6	1504.7	1436.8	1347.8
47.5°	1485.3	1482.1	1480.4	1475.6	1464.3	1452.9	1438.4	1412.5	1370.4	1305.7	1213.5
50°	1308.9	1302.5	1305.7	1304.1	1299.2	1291.2	1281.4	1263.7	1231.3	1173.0	1088.9
52.5°	1106.7	1106.7	1105.1	1109.9	1111.6	1109.9	1111.6	1092.2	1064.6	1020.9	949.7
55°	896.3	896.3	901.2	907.7	914.2	915.8	914.2	906.1	886.6	851.1	787.9
57.5°	699.0	695.7	705.4	715.1	721.6	728.1	723.2	716.8	705.4	676.3	627.8
60°	532.3	532.3	538.8	545.3	551.7	558.2	556.6	555.0	545.3	525.8	487.0
62.5°	391.5	393.2	393.2	398.0	404.5	411.0	415.8	411.0	406.1	393.2	367.3
65°	279.9	278.3	279.9	284.8	289.6	296.1	299.3	297.7	292.8	283.1	263.7
67.5°	187.7	186.1	192.5	194.1	197.4	203.9	202.3	203.9	202.3	194.1	178.0
70°	123.0	119.7	123.0	121.3	126.2	127.8	131.0	132.7	131.0	126.2	121.3
72.5°	76.1	74.4	76.1	77.7	79.3	80.9	84.1	84.1	82.5	79.3	72.8
75°	48.5	43.7	45.3	42.1	45.3	45.3	48.5	50.2	48.5	48.5	45.3
77.5°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	30.8	32.3	29.1	27.5
80°	14.6	14.6	16.2	16.2	16.2	17.8	16.2	16.2	16.2	17.8	12.9
82.5°	11.3	9.7	9.7	9.7	11.3	9.7	9.7	9.7	9.7	9.7	9.7
85°	4.9	6.5	4.9	3.2	4.9	4.9	6.5	4.9	4.9	4.9	6.5
87.5°	1.6	1.6	0.0	0.0	0.0	1.6	0.0	1.6	1.6	3.2	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°	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3
2.5°	3056.4	3053.1	3053.1	3051.5	3054.8	3051.5	3053.1	3051.5	3051.5	3054.8	3051.5
5°	3067.7	3069.3	3066.1	3064.5	3069.3	3069.3	3069.3	3066.1	3066.1	3067.7	3066.1
7.5°	3083.9	3087.1	3088.7	3090.3	3093.6	3095.2	3095.2	3093.6	3092.0	3096.8	3090.3
10°	3101.7	3106.5	3116.2	3121.1	3129.2	3129.2	3132.4	3132.4	3129.2	3132.4	3130.8
12.5°	3095.2	3124.3	3140.5	3151.8	3163.1	3172.8	3176.1	3177.7	3176.1	3182.6	3176.1
15°	3106.5	3130.8	3156.7	3176.1	3197.1	3208.4	3211.7	3224.6	3227.9	3229.5	3219.8
17.5°	3088.7	3132.4	3159.9	3189.0	3219.8	3240.8	3260.2	3268.3	3270.0	3273.2	3260.2
20°	3048.3	3096.8	3138.9	3181.0	3216.6	3248.9	3265.1	3287.7	3281.3	3294.2	3276.4
22.5°	2993.3	3048.3	3101.7	3156.7	3193.9	3232.7	3266.7	3282.9	3291.0	3291.0	3271.5
25°	2905.9	2970.6	3028.9	3085.5	3142.1	3189.0	3227.9	3252.1	3257.0	3255.4	3232.7
27.5°	2770.0	2839.5	2907.5	2972.2	3041.8	3096.8	3142.1	3171.2	3179.3	3179.3	3155.1
30°	2582.3	2656.7	2723.1	2800.7	2871.9	2933.4	2996.5	3022.4	3036.9	3036.9	3009.5
32.5°	2359.0	2422.1	2483.6	2559.6	2637.3	2706.9	2766.7	2802.3	2820.1	2818.5	2794.3
35°	2116.3	2147.0	2194.0	2250.6	2320.2	2384.9	2443.1	2477.1	2507.9	2506.2	2483.6
37.5°	1873.6	1865.5	1870.4	1891.4	1935.1	1980.4	2025.7	2058.1	2083.9	2095.3	2090.4
40°	1635.8	1593.7	1553.2	1538.7	1541.9	1558.1	1582.4	1606.7	1635.8	1650.4	1656.8
42.5°	1422.2	1351.0	1279.8	1226.4	1195.7	1186.0	1197.3	1205.4	1223.2	1244.2	1265.3
45°	1250.7	1155.3	1061.4	978.9	927.1	896.3	889.9	896.3	906.1	927.1	954.6
47.5°	1109.9	998.3	893.1	800.9	724.8	684.4	673.1	669.9	679.6	699.0	736.2
50°	985.3	873.7	757.2	650.4	571.2	525.8	509.7	503.2	514.5	529.1	563.0
52.5°	849.4	739.4	619.7	516.1	433.6	386.7	368.9	359.2	365.6	385.1	419.1
55°	702.2	600.3	491.9	385.1	305.8	262.1	241.1	234.6	241.1	262.1	296.1
57.5°	555.0	469.2	378.6	278.3	207.1	163.4	142.4	135.9	153.7	161.8	197.4
60°	433.6	364.1	286.4	203.9	142.4	108.4	87.4	82.5	90.6	105.2	134.3
62.5°	325.2	281.5	220.0	145.6	105.2	69.6	58.2	53.4	58.2	69.6	92.2
65°	236.2	202.3	153.7	106.8	71.2	51.8	38.8	35.6	40.5	48.5	68.0
67.5°	161.8	135.9	106.8	74.4	48.5	32.3	27.5	27.5	29.1	35.6	50.2
70°	105.2	89.0	68.0	48.5	32.3	24.3	21.0	17.8	21.0	25.9	34.0
72.5°	66.4	56.6	43.7	34.0	24.3	17.8	14.6	12.9	16.2	19.4	25.9
75°	40.5	30.8	22.6	17.8	12.9	12.9	12.9	6.5	8.1	12.9	16.2
77.5°	24.3	21.0	17.8	14.6	11.3	6.5	6.5	6.5	8.1	9.7	14.6
80°	12.9	11.3	8.1	8.1	6.5	4.9	6.5	4.9	3.2	8.1	9.7
82.5°	8.1	6.5	6.5	6.5	8.1	3.2	4.9	3.2	4.9	6.5	4.9
85°	4.9	4.9	4.9	3.2	8.1	3.2	3.2	1.6	1.6	3.2	3.2
87.5°	0.0	1.6	1.6	0.0	1.6	0.0	1.6	1.6	1.6	1.6	1.6
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°	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3	3048.3
2.5°	3053.1	3051.5	3053.1	3051.5	3051.5	3051.5	3053.1	3053.1	3051.5	3051.5	3054.8
5°	3066.1	3066.1	3066.1	3064.5	3062.8	3062.8	3066.1	3066.1	3061.2	3066.1	3066.1
7.5°	3093.6	3088.7	3093.6	3087.1	3083.9	3085.5	3087.1	3083.9	3080.6	3082.3	3082.3
10°	3129.2	3124.3	3124.3	3119.5	3114.6	3111.4	3108.2	3100.0	3092.0	3090.3	3083.9
12.5°	3171.2	3163.1	3158.3	3148.6	3140.5	3129.2	3119.5	3106.5	3090.3	3079.0	3067.7
15°	3213.3	3200.4	3189.0	3172.8	3155.1	3135.6	3114.6	3093.6	3067.7	3045.1	3025.6
17.5°	3247.3	3229.5	3208.4	3182.6	3156.7	3127.6	3096.8	3066.1	3028.9	2999.7	2977.1
20°	3258.6	3232.7	3205.2	3171.2	3137.3	3096.8	3058.0	3017.5	2975.5	2944.7	2918.8
22.5°	3244.1	3213.3	3179.3	3143.8	3098.4	3054.8	3009.5	2962.5	2925.3	2883.3	2859.0
25°	3203.6	3166.4	3129.2	3087.1	3043.4	2994.9	2946.4	2897.8	2852.5	2829.8	2799.1
27.5°	3121.1	3080.6	3040.2	2996.5	2946.4	2897.8	2847.7	2800.7	2761.9	2731.2	2713.4
30°	2975.5	2928.5	2881.6	2834.7	2791.0	2740.9	2693.9	2655.1	2616.3	2592.0	2574.2
32.5°	2752.2	2710.1	2663.2	2617.9	2577.5	2535.4	2496.5	2462.6	2435.1	2418.9	2405.9
35°	2451.3	2409.2	2373.6	2341.2	2307.2	2289.5	2265.2	2245.7	2234.4	2228.0	2226.3
37.5°	2072.6	2048.4	2037.0	2030.6	2024.1	2019.3	2022.5	2030.6	2037.0	2048.4	2061.3
40°	1668.1	1689.2	1695.7	1718.3	1739.3	1766.8	1797.6	1833.2	1862.3	1899.5	1925.4
42.5°	1299.2	1338.1	1383.4	1431.9	1483.7	1533.8	1595.3	1651.9	1703.7	1750.6	1791.1
45°	998.3	1058.1	1126.1	1195.7	1265.3	1338.1	1412.5	1482.1	1543.5	1593.7	1635.8
47.5°	778.2	844.6	932.0	1017.7	1101.9	1187.6	1270.1	1342.9	1394.7	1443.2	1480.4
50°	616.4	692.5	787.9	886.6	978.9	1069.5	1156.8	1224.8	1276.6	1315.4	1342.9
52.5°	477.3	567.9	665.0	768.5	867.2	965.9	1046.8	1109.9	1152.0	1186.0	1207.0
55°	355.9	444.9	548.5	655.3	755.6	851.1	927.1	982.1	1019.3	1038.7	1050.1
57.5°	257.3	338.2	441.7	548.5	639.1	729.7	791.2	841.4	862.4	873.7	878.6
60°	187.7	262.1	354.3	446.6	532.3	605.1	658.5	692.5	708.7	715.1	713.5
62.5°	137.5	202.3	281.5	359.2	428.8	488.6	530.7	553.3	561.5	564.7	559.8
65°	105.2	155.3	223.3	283.1	336.5	380.2	411.0	425.5	430.4	428.8	425.5
67.5°	77.7	116.5	166.7	212.0	250.8	284.8	301.0	313.9	317.1	312.3	307.4
70°	55.0	85.8	121.3	152.1	181.2	200.6	218.4	220.0	220.0	218.4	215.2
72.5°	38.8	59.9	82.5	103.6	121.3	135.9	142.4	147.2	145.6	144.0	140.8
75°	25.9	37.2	59.9	64.7	80.9	85.8	92.2	92.2	93.8	89.0	89.0
77.5°	16.2	25.9	35.6	42.1	48.5	55.0	58.2	58.2	59.9	58.2	58.2
80°	9.7	16.2	19.4	29.1	29.1	34.0	35.6	37.2	34.0	38.8	34.0
82.5°	6.5	9.7	14.6	14.6	17.8	21.0	21.0	22.6	22.6	21.0	21.0
85°	4.9	6.5	8.1	9.7	9.7	11.3	9.7	9.7	11.3	12.9	11.3
87.5°	1.6	3.2	1.6	3.2	3.2	6.5	4.9	4.9	4.9	6.5	6.5
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: P248515

CATALOG NUMBER: LSR8B60D010 EC8B60950 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3048.3	3048.3	3048.3	3048.3
2.5°	3051.5	3053.1	3051.5	3051.5
5°	3066.1	3064.5	3066.1	3062.8
7.5°	3077.4	3077.4	3075.8	3075.8
10°	3077.4	3070.9	3070.9	3070.9
12.5°	3053.1	3045.1	3040.2	3036.9
15°	3011.0	2996.5	2990.0	2988.4
17.5°	2956.1	2943.1	2935.0	2930.2
20°	2893.0	2880.0	2870.3	2871.9
22.5°	2837.9	2823.4	2816.9	2813.7
25°	2782.9	2765.1	2760.3	2757.0
27.5°	2693.9	2684.2	2679.4	2674.5
30°	2558.0	2553.2	2545.1	2556.4
32.5°	2401.1	2393.0	2386.5	2391.4
35°	2228.0	2223.1	2228.0	2224.7
37.5°	2069.4	2074.2	2080.7	2083.9
40°	1944.8	1962.6	1969.1	1972.3
42.5°	1820.2	1841.3	1854.2	1862.3
45°	1666.5	1687.5	1702.1	1711.8
47.5°	1508.0	1525.8	1540.3	1538.7
50°	1364.0	1373.7	1380.1	1386.6
52.5°	1218.3	1218.3	1219.9	1219.9
55°	1053.3	1050.1	1048.4	1050.1
57.5°	872.1	868.9	867.2	862.4
60°	707.1	697.4	690.9	690.9
62.5°	553.3	542.0	537.2	535.6
65°	415.8	414.2	404.5	402.9
67.5°	301.0	294.5	288.0	289.6
70°	212.0	202.3	202.3	199.0
72.5°	137.5	132.7	131.0	131.0
75°	85.8	85.8	82.5	89.0
77.5°	56.6	56.6	55.0	56.6
80°	34.0	34.0	34.0	32.3
82.5°	21.0	22.6	21.0	21.0
85°	11.3	12.9	9.7	14.6
87.5°	6.5	8.1	6.5	8.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)