

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: P250910

Luminaire Tested: **LD8B60D010 ER8B60930 8LBSW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250910  
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: LD8B60D010 ER8B60930 8LBSW0LI  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

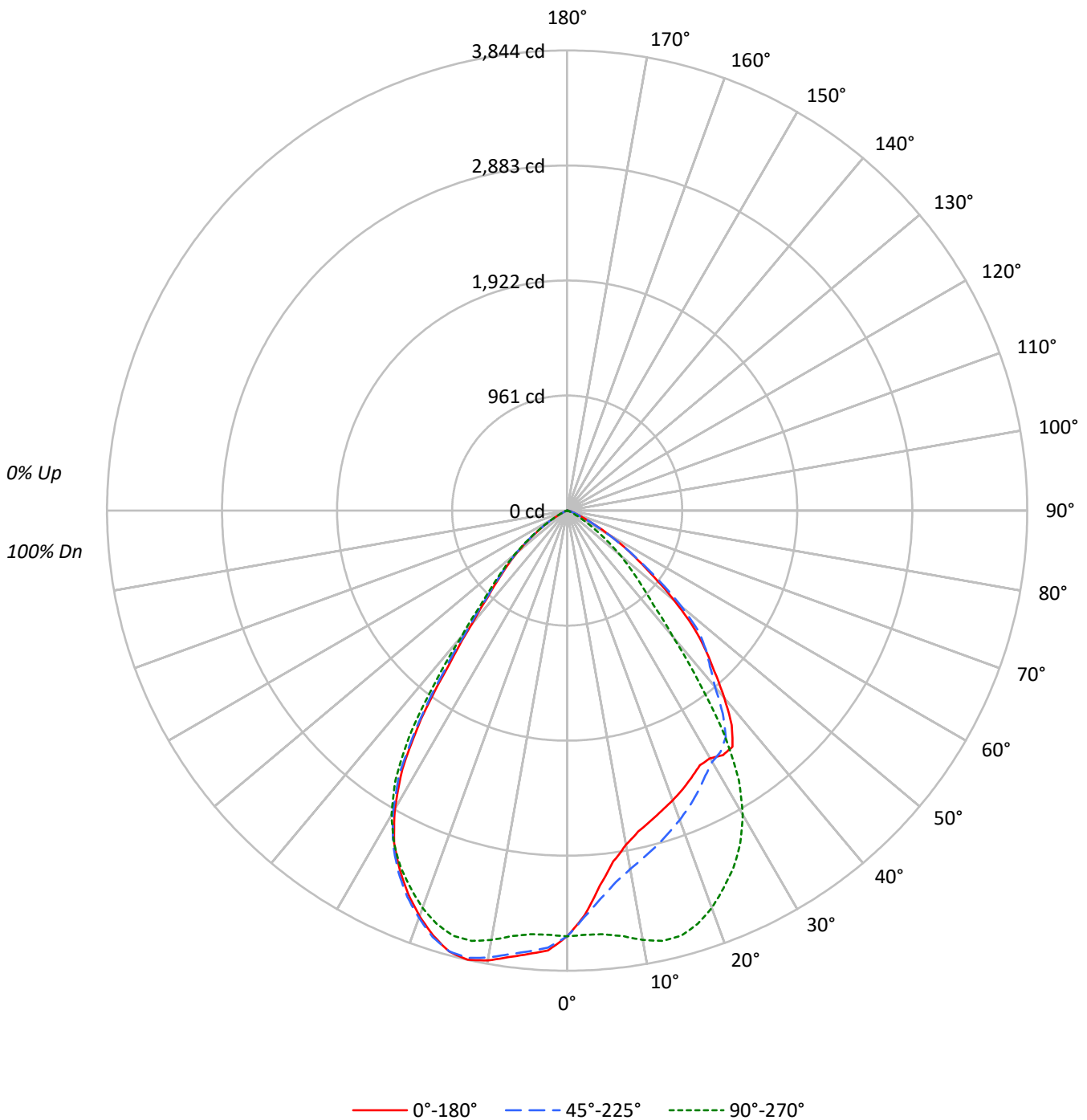
Lumens per Lamp: N/A  
Luminaire Lumens: 5444.7 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	331.5	6.1
10°-20°	957.5	17.6
20°-30°	1389.8	25.5
30°-40°	1368.8	25.1
40°-50°	858.0	15.8
50°-60°	414.0	7.6
60°-70°	100.2	1.8
70°-80°	20.2	0.4
80°-90°	4.6	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°	2678.8	49.2
0°-40°	4047.6	74.3
0°-60°	5319.6	97.7
0°-90°	5444.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5444.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3557	3557	3557	3557	3557	
5°	3144	3250	3552	3696	3719	291
15°	2686	2897	3676	3811	3814	759
25°	2460	2588	3290	3334	3310	1138
35°	2408	2310	2296	2165	2130	1457
45°	1626	1637	868	832	808	1243
55°	722	746	316	312	297	665
65°	169	167	47	40	36	193
75°	41	36	10	5	4	46
85°	12	9	2	0	0	12
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°	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9
2.5°	3381.2	3359.7	3319.5	3368.2	3368.2	3341.0	3395.3	3362.6	3388.7	3429.8	3393.4
5°	3143.8	3126.1	3092.4	3143.8	3150.3	3125.1	3190.6	3166.3	3204.6	3255.0	3250.3
7.5°	2956.0	2933.5	2902.7	2956.0	2966.3	2949.5	3012.0	3000.8	3051.4	3116.7	3127.9
10°	2833.6	2810.2	2783.1	2831.6	2839.2	2827.9	2891.5	2885.0	2934.4	3010.2	3040.2
12.5°	2746.7	2727.1	2697.1	2748.5	2757.0	2741.1	2800.8	2798.0	2849.5	2928.8	2966.3
15°	2685.9	2662.5	2635.5	2679.4	2690.6	2672.8	2729.9	2724.3	2776.6	2855.1	2897.1
17.5°	2628.9	2607.4	2579.4	2620.4	2631.7	2613.1	2669.1	2659.7	2704.6	2779.4	2822.3
20°	2575.6	2552.3	2527.1	2569.1	2575.6	2554.1	2610.2	2598.0	2638.3	2707.4	2749.5
22.5°	2520.5	2496.2	2470.0	2511.2	2517.7	2496.2	2547.6	2533.6	2570.9	2633.6	2671.9
25°	2459.7	2437.3	2411.2	2449.5	2455.1	2431.7	2485.9	2468.1	2500.8	2556.0	2587.8
27.5°	2399.1	2377.5	2348.5	2387.7	2390.5	2368.1	2417.7	2393.4	2420.5	2470.9	2498.0
30°	2388.7	2364.4	2334.5	2366.3	2367.2	2338.3	2384.9	2356.0	2370.9	2408.4	2424.3
32.5°	2421.5	2397.1	2366.3	2392.4	2389.6	2357.9	2402.8	2367.2	2371.9	2391.5	2387.7
35°	2408.4	2379.3	2342.9	2370.9	2370.9	2332.7	2377.5	2335.5	2330.8	2333.6	2310.3
37.5°	2259.7	2237.3	2202.8	2229.9	2227.1	2198.1	2232.7	2198.1	2182.1	2175.6	2133.6
40°	2041.1	2014.0	1987.8	2016.8	2019.6	1988.8	2033.6	1994.4	1989.7	1970.9	1921.4
42.5°	1819.6	1810.2	1785.0	1809.3	1822.4	1796.2	1833.6	1814.9	1817.7	1813.0	1766.4
45°	1626.1	1610.2	1591.6	1619.6	1628.0	1614.9	1652.2	1641.0	1652.2	1675.7	1637.3
47.5°	1417.7	1401.8	1381.3	1411.2	1426.1	1401.8	1433.6	1429.8	1446.7	1486.9	1483.1
50°	1166.3	1155.1	1151.4	1155.1	1164.5	1153.3	1175.7	1176.6	1187.8	1243.0	1246.7
52.5°	923.4	920.6	907.4	919.6	919.6	901.8	924.3	914.0	925.2	962.6	986.9
55°	722.4	719.6	711.2	722.4	710.3	703.8	710.3	700.0	691.5	720.6	745.8
57.5°	562.6	553.2	543.0	547.6	546.7	532.7	540.2	528.0	521.5	531.8	554.2
60°	400.9	398.1	388.8	393.5	397.2	386.9	394.4	388.8	377.6	386.0	386.9
62.5°	266.3	268.3	262.7	263.5	260.7	258.8	263.5	266.3	263.5	259.8	260.7
65°	169.2	168.3	167.3	168.3	170.1	166.4	169.2	171.1	168.3	168.3	167.3
67.5°	112.1	109.3	106.5	108.4	110.3	107.5	110.3	109.3	110.3	109.3	106.5
70°	75.7	74.8	73.9	74.8	74.8	72.9	74.8	73.9	74.8	73.9	71.1
72.5°	55.2	55.2	54.3	55.2	55.2	53.2	54.3	52.4	53.2	52.4	50.4
75°	41.1	41.1	40.1	41.1	40.1	39.2	40.1	39.2	37.3	37.3	35.5
77.5°	29.9	29.9	29.9	29.9	29.9	28.9	28.9	28.0	27.1	26.1	26.1
80°	22.4	21.5	21.5	21.5	21.5	20.5	21.5	20.5	19.6	18.7	17.7
82.5°	15.9	16.8	15.9	15.9	15.9	14.9	15.9	14.9	14.9	14.0	12.1
85°	12.1	12.1	12.1	12.1	12.1	11.2	11.2	11.2	10.3	10.3	9.3
87.5°	6.5	6.5	6.5	7.5	6.5	6.5	6.5	5.6	5.6	4.7	4.7
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: P250910

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSWOLI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9
2.5°	3441.9	3446.6	3436.3	3452.2	3513.9	3464.3	3485.0	3491.5	3538.2	3546.6	3541.0
5°	3311.1	3331.7	3344.7	3380.3	3448.5	3413.0	3449.4	3472.7	3532.6	3552.2	3556.9
7.5°	3208.3	3251.3	3283.1	3341.0	3421.4	3394.3	3449.4	3487.8	3560.6	3585.9	3598.1
10°	3131.7	3197.1	3252.2	3331.7	3422.3	3404.6	3476.6	3530.7	3612.1	3641.9	3656.9
12.5°	3073.8	3153.1	3227.0	3327.9	3426.1	3417.7	3504.6	3566.2	3652.2	3682.1	3699.9
15°	3010.2	3101.8	3187.8	3300.9	3406.5	3404.6	3498.1	3563.4	3651.3	3676.5	3693.4
17.5°	2934.4	3032.6	3127.0	3249.4	3354.1	3355.9	3450.3	3514.9	3600.9	3621.4	3632.6
20°	2857.9	2955.1	3049.5	3175.6	3278.4	3281.2	3373.8	3433.5	3515.8	3532.6	3535.4
22.5°	2776.6	2867.2	2961.6	3086.8	3185.9	3187.8	3279.4	3335.4	3405.5	3413.9	3421.4
25°	2684.0	2772.8	2861.6	2985.9	3080.3	3085.9	3169.1	3218.6	3283.1	3289.6	3292.4
27.5°	2587.8	2660.7	2745.7	2852.3	2947.6	2943.9	3022.3	3078.4	3136.3	3132.6	3131.7
30°	2490.6	2551.3	2603.6	2706.4	2776.6	2779.4	2853.2	2880.3	2941.1	2933.5	2932.6
32.5°	2422.4	2438.3	2452.3	2504.7	2570.9	2547.6	2598.0	2631.7	2673.8	2671.0	2671.9
35°	2297.2	2268.1	2226.1	2233.6	2273.7	2237.3	2264.4	2263.5	2306.5	2296.1	2308.4
37.5°	2083.2	2000.9	1907.4	1854.1	1861.6	1815.8	1806.5	1828.9	1843.8	1814.9	1825.2
40°	1855.1	1733.6	1587.8	1466.3	1459.8	1402.8	1392.5	1370.1	1399.0	1374.7	1382.2
42.5°	1686.9	1526.1	1334.6	1186.9	1155.1	1107.4	1079.4	1075.7	1084.1	1067.3	1062.6
45°	1557.9	1386.9	1167.3	998.1	962.6	911.1	883.1	872.9	873.8	868.2	863.5
47.5°	1406.5	1234.6	1012.2	839.2	799.0	750.4	722.4	715.9	719.6	712.2	706.6
50°	1197.1	1043.0	840.2	682.2	646.7	611.2	588.7	582.2	581.2	575.6	571.9
52.5°	971.9	843.9	668.2	536.4	504.7	470.0	454.2	445.8	446.7	441.1	435.5
55°	752.3	672.8	517.8	405.6	376.7	349.5	334.6	324.3	321.5	315.9	313.1
57.5°	559.8	506.6	387.9	292.5	275.7	249.5	234.6	222.4	220.5	217.7	216.8
60°	392.5	354.2	272.9	208.4	188.8	172.9	157.9	145.8	140.2	139.2	136.4
62.5°	254.2	230.8	179.5	139.2	124.3	113.1	98.1	89.7	86.0	82.3	83.2
65°	157.9	140.2	112.1	89.7	81.3	72.9	61.7	54.3	50.4	46.7	47.6
67.5°	98.1	87.9	71.1	58.0	52.4	45.8	37.3	31.7	28.9	26.1	24.3
70°	66.4	57.1	48.7	41.1	37.3	32.7	27.1	22.4	20.5	18.7	16.8
72.5°	46.7	42.0	35.5	30.8	28.0	24.3	20.5	17.7	15.9	14.0	12.1
75°	33.6	29.9	26.1	22.4	20.5	18.7	15.9	14.0	12.1	10.3	8.4
77.5°	24.3	21.5	18.7	16.8	15.9	13.1	11.2	10.3	9.3	7.5	5.6
80°	16.8	14.9	12.1	11.2	11.2	9.3	8.4	7.5	6.5	4.7	3.7
82.5°	11.2	10.3	9.3	8.4	7.5	6.5	6.5	4.7	3.7	2.8	1.9
85°	8.4	7.5	6.5	5.6	5.6	4.7	3.7	2.8	2.8	1.9	0.9
87.5°	4.7	4.7	3.7	2.8	2.8	1.9	1.9	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: P250910

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW0LI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9
2.5°	3588.7	3591.5	3607.4	3595.3	3626.1	3648.5	3637.3	3662.5	3654.1	3652.2	3681.3
5°	3613.0	3619.5	3641.0	3629.8	3663.4	3687.8	3676.5	3704.6	3696.2	3694.3	3724.2
7.5°	3659.7	3666.2	3685.0	3675.6	3711.1	3732.6	3718.6	3749.4	3738.2	3737.3	3766.2
10°	3718.6	3727.9	3743.8	3734.5	3767.2	3785.8	3771.8	3801.8	3791.4	3786.9	3818.6
12.5°	3762.5	3769.0	3784.9	3777.4	3809.3	3823.3	3811.1	3840.1	3827.0	3823.3	3851.3
15°	3752.2	3758.8	3771.8	3765.3	3795.3	3808.3	3792.5	3824.2	3811.1	3803.7	3828.9
17.5°	3686.9	3690.6	3699.9	3693.4	3725.1	3733.5	3715.8	3747.5	3735.4	3722.3	3746.6
20°	3590.6	3588.7	3594.3	3591.5	3617.7	3622.3	3611.1	3634.5	3620.5	3613.0	3627.0
22.5°	3471.0	3469.0	3472.7	3465.3	3491.5	3494.3	3477.5	3505.5	3491.5	3477.5	3500.9
25°	3338.2	3327.9	3326.1	3328.9	3346.6	3349.4	3331.7	3352.2	3334.5	3323.3	3345.7
27.5°	3174.7	3161.6	3158.8	3161.6	3179.4	3166.3	3151.4	3166.3	3148.6	3138.2	3152.3
30°	2972.8	2954.2	2945.8	2940.2	2958.8	2954.2	2919.5	2936.3	2908.3	2893.4	2903.6
32.5°	2700.8	2690.6	2668.2	2655.1	2672.8	2637.3	2615.9	2615.9	2604.6	2579.4	2585.0
35°	2323.3	2307.5	2286.8	2275.6	2278.4	2230.8	2195.3	2202.8	2165.3	2158.8	2161.6
37.5°	1845.7	1819.6	1812.1	1788.8	1794.4	1752.2	1703.7	1704.6	1685.0	1664.5	1657.8
40°	1386.9	1382.2	1374.7	1355.1	1362.6	1316.8	1298.1	1299.0	1285.9	1271.0	1278.5
42.5°	1071.9	1057.0	1052.3	1045.8	1047.7	1040.2	1015.9	1018.7	1007.4	1003.7	999.9
45°	871.0	855.1	843.9	849.5	849.5	841.1	831.8	837.4	831.8	824.3	828.0
47.5°	717.8	702.8	697.1	696.3	702.8	697.1	687.8	689.8	688.7	685.9	684.1
50°	572.8	569.1	564.4	561.6	564.4	562.6	554.2	558.8	561.6	552.3	555.1
52.5°	436.4	436.4	435.5	429.0	434.6	429.0	428.0	429.9	427.1	423.4	422.4
55°	319.6	316.8	312.1	311.2	313.1	311.2	309.3	310.3	312.1	302.8	302.8
57.5°	218.7	216.8	214.0	214.0	217.7	213.1	210.3	214.0	210.3	206.5	206.5
60°	140.2	139.2	136.4	136.4	136.4	135.5	132.7	133.6	135.5	129.9	130.8
62.5°	84.1	81.3	80.4	79.5	80.4	79.5	79.5	78.5	77.6	77.6	74.8
65°	45.8	43.9	42.0	42.9	42.9	42.0	42.0	42.0	40.1	39.2	38.3
67.5°	23.3	21.5	21.5	20.5	20.5	20.5	20.5	19.6	19.6	19.6	18.7
70°	14.9	14.0	13.1	13.1	13.1	12.1	12.1	12.1	12.1	12.1	11.2
72.5°	10.3	9.3	8.4	8.4	8.4	7.5	7.5	7.5	7.5	6.5	6.5
75°	7.5	6.5	5.6	5.6	5.6	4.7	4.7	4.7	4.7	4.7	4.7
77.5°	4.7	3.7	3.7	3.7	3.7	2.8	2.8	2.8	2.8	2.8	1.9
80°	2.8	2.8	1.9	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9
82.5°	1.9	1.9	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: P250910

CATALOG NUMBER: LD8B60D010 ER8B60930 8LBSW01

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9	3556.9
2.5°	3670.9	3663.4	3668.1	3702.7	3687.8	3683.0	3643.8	3678.4
5°	3714.9	3709.3	3709.3	3748.5	3730.7	3727.0	3688.7	3718.6
7.5°	3756.0	3750.4	3751.3	3791.4	3777.4	3771.8	3733.5	3763.4
10°	3809.3	3805.5	3806.5	3844.8	3829.8	3824.2	3784.9	3815.8
12.5°	3841.0	3835.4	3835.4	3876.5	3859.7	3851.3	3813.9	3843.8
15°	3816.7	3808.3	3808.3	3849.4	3830.7	3818.6	3785.8	3813.9
17.5°	3733.5	3725.1	3725.1	3760.6	3746.6	3728.9	3695.3	3721.4
20°	3617.7	3607.4	3604.6	3645.7	3626.1	3610.2	3580.2	3605.5
22.5°	3486.9	3482.2	3473.8	3514.9	3497.1	3480.3	3448.5	3468.1
25°	3329.8	3322.3	3313.9	3354.1	3336.3	3319.5	3294.3	3310.2
27.5°	3134.5	3135.4	3130.7	3162.6	3144.7	3135.4	3104.6	3130.7
30°	2898.0	2887.8	2884.0	2921.4	2904.6	2892.4	2854.2	2879.4
32.5°	2589.6	2574.7	2555.1	2597.1	2568.1	2557.9	2525.2	2561.6
35°	2141.1	2136.4	2118.6	2154.1	2138.3	2119.6	2099.0	2129.9
37.5°	1655.0	1658.9	1657.0	1666.3	1657.0	1644.8	1622.4	1611.2
40°	1263.5	1254.2	1246.7	1263.5	1243.9	1243.9	1230.9	1244.9
42.5°	990.6	986.9	996.2	999.9	988.7	986.9	985.0	984.1
45°	817.8	817.8	819.6	823.4	819.6	817.8	812.2	808.4
47.5°	673.8	677.5	673.8	685.9	679.4	677.5	666.3	671.0
50°	545.8	541.1	545.8	549.5	550.4	544.8	539.2	542.0
52.5°	423.4	415.9	414.0	419.6	415.9	415.9	412.2	411.2
55°	298.1	300.9	296.3	300.9	299.1	296.3	293.5	297.2
57.5°	201.9	202.8	200.9	203.7	199.1	200.0	199.1	198.1
60°	130.8	127.1	127.1	129.9	125.2	125.2	124.3	124.3
62.5°	74.8	73.9	73.9	72.9	72.0	72.0	72.0	70.1
65°	38.3	37.3	36.4	36.4	36.4	36.4	35.5	35.5
67.5°	18.7	17.7	17.7	18.7	17.7	17.7	17.7	17.7
70°	11.2	11.2	10.3	11.2	10.3	10.3	10.3	10.3
72.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
75°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
77.5°	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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)