

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: P248326

Luminaire Tested: **LSR8B60D010 EC8B60827 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P248326  
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 EC8B60827 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
80 CRI 2700 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6147.0 lumens  
Efficiency: N/A  
Efficacy: 103.3 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

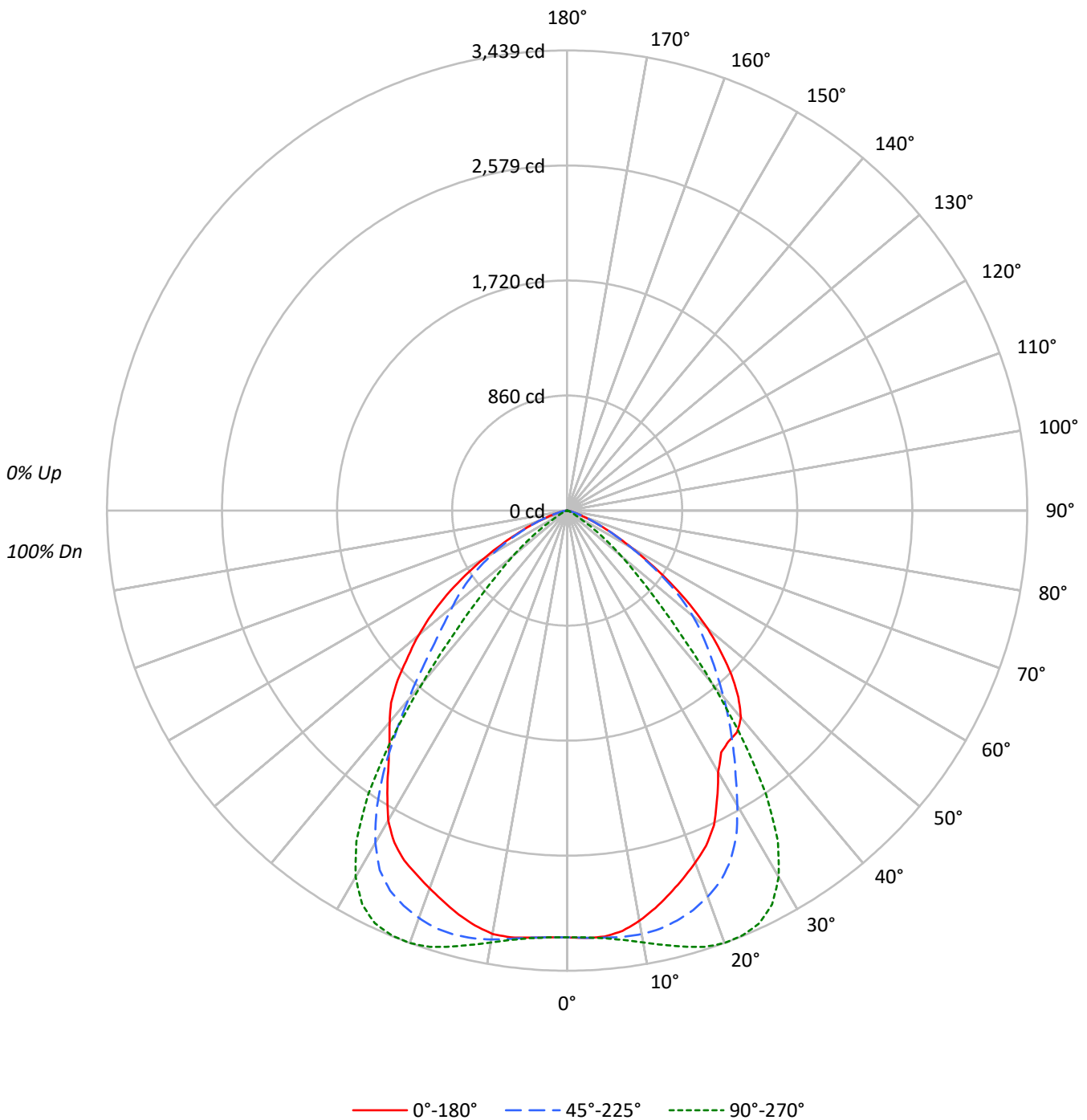
Input Watts (W): 59.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	98331	98331	98331
5°	98917	99285	99180
10°	97465	102606	100593
15°	94617	107693	99801
20°	91870	112865	98590
25°	88340	115753	98132
30°	80396	112581	95223
35°	79200	97551	87609
40°	81353	67659	83056
45°	75732	40892	78095
50°	65689	25253	69589
55°	50412	13193	59057
60°	34345	5322	44571
65°	21364	2714	30747
70°	11594	1677	18771
75°	6052	810	11092
80°	2699	906	6002
85°	1804	601	5378



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.7	5.0
10°-20°	908.5	14.8
20°-30°	1386.0	22.5
30°-40°	1446.3	23.5
40°-50°	1086.3	17.7
50°-60°	668.4	10.9
60°-70°	272.0	4.4
70°-80°	64.1	1.0
80°-90°	8.8	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°	2601.1	42.3
0°-40°	4047.3	65.8
0°-60°	5802.1	94.4
0°-90°	6147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6147.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3189	3189	3189	3189	3189	
5°	3196	3204	3208	3204	3204	302
15°	2964	3172	3373	3280	3126	835
25°	2596	2888	3402	3133	2884	1180
35°	2104	2163	2591	2395	2327	1328
45°	1737	1503	938	1400	1791	1325
55°	938	890	245	890	1098	843
65°	293	296	37	398	421	305
75°	51	51	7	90	93	61
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°	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8
2.5°	3197.3	3192.2	3197.3	3197.3	3199.0	3195.6	3197.3	3199.0	3195.6	3195.6	3195.6
5°	3195.6	3192.2	3195.6	3193.9	3197.3	3197.3	3200.7	3200.7	3204.1	3204.1	3209.2
7.5°	3168.6	3161.8	3168.6	3173.6	3177.0	3183.8	3192.2	3199.0	3205.8	3212.6	3221.0
10°	3112.7	3112.7	3117.8	3127.9	3138.1	3149.9	3165.2	3182.1	3199.0	3214.2	3229.5
12.5°	3043.3	3038.2	3048.4	3061.9	3077.1	3095.8	3119.5	3144.9	3171.9	3202.4	3226.1
15°	2963.8	2958.7	2970.5	2984.0	3002.7	3029.8	3058.6	3092.4	3131.3	3171.9	3210.9
17.5°	2882.5	2880.8	2892.6	2911.3	2926.5	2955.3	2992.5	3033.1	3077.1	3131.3	3182.1
20°	2799.6	2797.9	2809.7	2825.0	2845.3	2872.4	2909.6	2957.0	3009.4	3070.4	3129.6
22.5°	2713.2	2714.9	2725.1	2742.0	2759.0	2787.7	2826.6	2874.0	2931.6	2997.6	3063.6
25°	2596.4	2588.0	2601.5	2618.5	2647.2	2670.9	2708.2	2759.0	2818.2	2887.6	2965.5
27.5°	2427.2	2425.5	2437.4	2452.6	2478.0	2506.7	2547.4	2599.8	2662.5	2738.6	2814.8
30°	2257.9	2261.3	2266.4	2281.6	2298.5	2327.3	2368.0	2412.0	2471.2	2544.0	2625.2
32.5°	2142.8	2142.8	2149.6	2159.8	2171.6	2186.8	2215.6	2247.8	2293.5	2344.3	2403.5
35°	2103.9	2097.1	2103.9	2105.6	2107.3	2110.7	2115.7	2125.9	2141.1	2163.2	2185.1
37.5°	2087.0	2081.9	2081.9	2075.1	2066.7	2056.5	2043.0	2027.7	2010.8	1988.8	1971.9
40°	2021.0	2017.6	2014.2	2007.4	1988.8	1968.5	1946.5	1910.9	1872.0	1817.8	1763.7
42.5°	1894.0	1890.6	1888.9	1875.4	1858.5	1834.8	1809.4	1772.2	1723.1	1653.7	1575.8
45°	1736.6	1729.8	1724.8	1712.9	1701.0	1680.8	1657.1	1623.2	1574.1	1503.0	1409.9
47.5°	1553.8	1550.4	1548.7	1543.7	1531.8	1519.9	1504.7	1477.7	1433.6	1365.9	1269.5
50°	1369.3	1362.6	1365.9	1364.3	1359.2	1350.7	1340.5	1321.9	1288.1	1227.1	1139.1
52.5°	1157.7	1157.7	1156.1	1161.1	1162.8	1161.1	1162.8	1142.5	1113.7	1068.0	993.6
55°	937.7	937.7	942.8	949.6	956.3	958.0	956.3	947.9	927.5	890.3	824.3
57.5°	731.2	727.8	738.0	748.1	754.9	761.7	756.6	749.8	738.0	707.5	656.7
60°	556.9	556.9	563.6	570.4	577.2	584.0	582.3	580.6	570.4	550.1	509.5
62.5°	409.6	411.3	411.3	416.4	423.1	429.9	435.0	429.9	424.8	411.3	384.2
65°	292.8	291.1	292.8	297.9	303.0	309.7	313.1	311.4	306.3	296.2	275.9
67.5°	196.3	194.7	201.4	203.1	206.5	213.3	211.6	213.3	211.6	203.1	186.2
70°	128.6	125.2	128.6	126.9	132.0	133.7	137.1	138.8	137.1	132.0	126.9
72.5°	79.6	77.9	79.6	81.3	83.0	84.6	88.0	88.0	86.3	83.0	76.2
75°	50.8	45.7	47.4	44.0	47.4	47.4	50.8	52.5	50.8	50.8	47.4
77.5°	30.5	30.5	30.5	30.5	30.5	30.5	30.5	32.2	33.8	30.5	28.8
80°	15.2	15.2	16.9	16.9	16.9	18.6	16.9	16.9	16.9	18.6	13.5
82.5°	11.8	10.1	10.1	10.1	11.8	10.1	10.1	10.1	10.1	10.1	10.1
85°	5.1	6.8	5.1	3.4	5.1	5.1	6.8	5.1	5.1	5.1	6.8
87.5°	1.7	1.7	0.0	0.0	0.0	1.7	0.0	1.7	1.7	3.4	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°	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8
2.5°	3197.3	3193.9	3193.9	3192.2	3195.6	3192.2	3193.9	3192.2	3192.2	3195.6	3192.2
5°	3209.2	3210.9	3207.5	3205.8	3210.9	3210.9	3210.9	3207.5	3207.5	3209.2	3207.5
7.5°	3226.1	3229.5	3231.2	3232.9	3236.3	3238.0	3238.0	3236.3	3234.6	3239.7	3232.9
10°	3244.7	3249.8	3260.0	3265.0	3273.5	3273.5	3276.9	3276.9	3273.5	3276.9	3275.2
12.5°	3238.0	3268.4	3285.3	3297.2	3309.0	3319.2	3322.6	3324.3	3322.6	3329.4	3322.6
15°	3249.8	3275.2	3302.3	3322.6	3344.6	3356.4	3359.8	3373.4	3376.7	3378.4	3368.3
17.5°	3231.2	3276.9	3305.6	3336.1	3368.3	3390.3	3410.6	3419.1	3420.8	3424.1	3410.6
20°	3188.8	3239.7	3283.6	3327.7	3364.9	3398.7	3415.7	3439.4	3432.6	3446.2	3427.5
22.5°	3131.3	3188.8	3244.7	3302.3	3341.2	3381.8	3417.4	3434.3	3442.8	3442.8	3422.4
25°	3039.9	3107.6	3168.6	3227.8	3287.0	3336.1	3376.7	3402.1	3407.2	3405.5	3381.8
27.5°	2897.7	2970.5	3041.6	3109.3	3182.1	3239.7	3287.0	3317.5	3326.0	3326.0	3300.6
30°	2701.4	2779.3	2848.7	2929.9	3004.4	3068.7	3134.7	3161.8	3177.0	3177.0	3148.3
32.5°	2467.8	2533.8	2598.1	2677.7	2759.0	2831.7	2894.3	2931.6	2950.2	2948.5	2923.1
35°	2213.9	2246.1	2295.2	2354.4	2427.2	2494.9	2555.8	2591.4	2623.5	2621.8	2598.1
37.5°	1960.0	1951.6	1956.7	1978.7	2024.3	2071.8	2119.1	2153.0	2180.1	2191.9	2186.8
40°	1711.2	1667.2	1624.9	1609.7	1613.0	1630.0	1655.4	1680.8	1711.2	1726.5	1733.2
42.5°	1487.8	1413.3	1338.8	1283.0	1250.8	1240.7	1252.5	1261.0	1279.6	1301.6	1323.6
45°	1308.4	1208.5	1110.3	1024.0	969.9	937.7	930.9	937.7	947.9	969.9	998.6
47.5°	1161.1	1044.3	934.3	837.8	758.3	716.0	704.1	700.7	710.9	731.2	770.1
50°	1030.8	914.0	792.1	680.4	597.5	550.1	533.2	526.4	538.2	553.5	589.0
52.5°	888.6	773.5	648.3	539.9	453.6	404.5	385.9	375.8	382.5	402.8	438.4
55°	734.6	627.9	514.5	402.8	319.9	274.2	252.2	245.4	252.2	274.2	309.7
57.5°	580.6	490.9	396.1	291.1	216.6	171.0	148.9	142.2	160.8	169.3	206.5
60°	453.6	380.9	299.6	213.3	148.9	113.4	91.4	86.3	94.8	110.0	140.5
62.5°	340.2	294.5	230.2	152.3	110.0	72.8	60.9	55.9	60.9	72.8	96.5
65°	247.1	211.6	160.8	111.7	74.5	54.2	40.6	37.2	42.3	50.8	71.1
67.5°	169.3	142.2	111.7	77.9	50.8	33.8	28.8	28.8	30.5	37.2	52.5
70°	110.0	93.1	71.1	50.8	33.8	25.4	22.0	18.6	22.0	27.1	35.5
72.5°	69.4	59.2	45.7	35.5	25.4	18.6	15.2	13.5	16.9	20.3	27.1
75°	42.3	32.2	23.7	18.6	13.5	13.5	13.5	6.8	8.4	13.5	16.9
77.5°	25.4	22.0	18.6	15.2	11.8	6.8	6.8	6.8	8.4	10.1	15.2
80°	13.5	11.8	8.4	8.4	6.8	5.1	6.8	5.1	3.4	8.4	10.1
82.5°	8.4	6.8	6.8	6.8	8.4	3.4	5.1	3.4	5.1	6.8	5.1
85°	5.1	5.1	5.1	3.4	8.4	3.4	3.4	1.7	1.7	3.4	3.4
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°	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8	3188.8
2.5°	3193.9	3192.2	3193.9	3192.2	3192.2	3192.2	3193.9	3193.9	3192.2	3192.2	3195.6
5°	3207.5	3207.5	3207.5	3205.8	3204.1	3204.1	3207.5	3207.5	3202.4	3207.5	3207.5
7.5°	3236.3	3231.2	3236.3	3229.5	3226.1	3227.8	3229.5	3226.1	3222.7	3224.4	3224.4
10°	3273.5	3268.4	3268.4	3263.4	3258.3	3254.9	3251.5	3243.0	3234.6	3232.9	3226.1
12.5°	3317.5	3309.0	3304.0	3293.8	3285.3	3273.5	3263.4	3249.8	3232.9	3221.0	3209.2
15°	3361.5	3348.0	3336.1	3319.2	3300.6	3280.3	3258.3	3236.3	3209.2	3185.5	3165.2
17.5°	3397.0	3378.4	3356.4	3329.4	3302.3	3271.8	3239.7	3207.5	3168.6	3138.1	3114.4
20°	3408.9	3381.8	3353.1	3317.5	3281.9	3239.7	3199.0	3156.7	3112.7	3080.5	3053.5
22.5°	3393.7	3361.5	3326.0	3288.7	3241.3	3195.6	3148.3	3099.1	3060.2	3016.2	2990.8
25°	3351.4	3312.4	3273.5	3229.5	3183.8	3133.0	3082.2	3031.5	2984.0	2960.4	2928.2
27.5°	3265.0	3222.7	3180.4	3134.7	3082.2	3031.5	2979.0	2929.9	2889.3	2857.1	2838.5
30°	3112.7	3063.6	3014.5	2965.5	2919.7	2867.3	2818.2	2777.6	2736.9	2711.5	2692.9
32.5°	2879.1	2835.1	2786.0	2738.6	2696.3	2652.3	2611.7	2576.1	2547.4	2530.4	2516.9
35°	2564.3	2520.3	2483.0	2449.2	2413.6	2395.0	2369.7	2349.3	2337.5	2330.7	2329.0
37.5°	2168.2	2142.8	2131.0	2124.2	2117.4	2112.4	2115.7	2124.2	2131.0	2142.8	2156.4
40°	1745.1	1767.1	1773.9	1797.5	1819.5	1848.3	1880.5	1917.7	1948.2	1987.1	2014.2
42.5°	1359.2	1399.8	1447.2	1497.9	1552.1	1604.6	1668.9	1728.1	1782.3	1831.4	1873.7
45°	1044.3	1106.9	1178.1	1250.8	1323.6	1399.8	1477.7	1550.4	1614.7	1667.2	1711.2
47.5°	814.1	883.6	975.0	1064.7	1152.7	1242.4	1328.7	1404.8	1459.0	1509.8	1548.7
50°	644.9	724.4	824.3	927.5	1024.0	1118.8	1210.2	1281.3	1335.5	1376.1	1404.8
52.5°	499.3	594.1	695.7	804.0	907.2	1010.5	1095.1	1161.1	1205.1	1240.7	1262.7
55°	372.4	465.5	573.8	685.5	790.5	890.3	969.9	1027.4	1066.4	1086.7	1098.5
57.5°	269.1	353.8	462.1	573.8	668.6	763.4	827.7	880.2	902.1	914.0	919.1
60°	196.3	274.2	370.7	467.2	556.9	633.0	688.9	724.4	741.4	748.1	746.4
62.5°	143.9	211.6	294.5	375.8	448.5	511.1	555.2	578.9	587.3	590.7	585.7
65°	110.0	162.5	233.6	296.2	352.1	397.8	429.9	445.2	450.2	448.5	445.2
67.5°	81.3	121.9	174.4	221.7	262.4	297.9	314.8	328.4	331.7	326.7	321.6
70°	57.6	89.7	126.9	159.1	189.6	209.9	228.5	230.2	230.2	228.5	225.1
72.5°	40.6	62.6	86.3	108.3	126.9	142.2	148.9	154.0	152.3	150.6	147.3
75°	27.1	38.9	62.6	67.7	84.6	89.7	96.5	96.5	98.2	93.1	93.1
77.5°	16.9	27.1	37.2	44.0	50.8	57.6	60.9	60.9	62.6	60.9	60.9
80°	10.1	16.9	20.3	30.5	30.5	35.5	37.2	38.9	35.5	40.6	35.5
82.5°	6.8	10.1	15.2	15.2	18.6	22.0	22.0	23.7	23.7	22.0	22.0
85°	5.1	6.8	8.4	10.1	10.1	11.8	10.1	10.1	11.8	13.5	11.8
87.5°	1.7	3.4	1.7	3.4	3.4	6.8	5.1	5.1	5.1	6.8	6.8
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: P248326

CATALOG NUMBER: LSR8B60D010 EC8B60827 8LBDW0LI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	3188.8	3188.8	3188.8	3188.8
2.5°	3192.2	3193.9	3192.2	3192.2
5°	3207.5	3205.8	3207.5	3204.1
7.5°	3219.3	3219.3	3217.6	3217.6
10°	3219.3	3212.6	3212.6	3212.6
12.5°	3193.9	3185.5	3180.4	3177.0
15°	3149.9	3134.7	3127.9	3126.2
17.5°	3092.4	3078.8	3070.4	3065.3
20°	3026.4	3012.8	3002.7	3004.4
22.5°	2968.8	2953.6	2946.8	2943.4
25°	2911.3	2892.6	2887.6	2884.2
27.5°	2818.2	2808.0	2802.9	2797.9
30°	2676.0	2670.9	2662.5	2674.3
32.5°	2511.8	2503.3	2496.6	2501.7
35°	2330.7	2325.6	2330.7	2327.3
37.5°	2164.9	2169.9	2176.7	2180.1
40°	2034.5	2053.1	2059.9	2063.3
42.5°	1904.2	1926.2	1939.7	1948.2
45°	1743.4	1765.4	1780.6	1790.8
47.5°	1577.5	1596.1	1611.3	1609.7
50°	1426.9	1437.0	1443.8	1450.6
52.5°	1274.5	1274.5	1276.2	1276.2
55°	1101.9	1098.5	1096.8	1098.5
57.5°	912.3	908.9	907.2	902.1
60°	739.7	729.5	722.7	722.7
62.5°	578.9	567.0	562.0	560.3
65°	435.0	433.3	423.1	421.4
67.5°	314.8	308.0	301.3	303.0
70°	221.7	211.6	211.6	208.2
72.5°	143.9	138.8	137.1	137.1
75°	89.7	89.7	86.3	93.1
77.5°	59.2	59.2	57.6	59.2
80°	35.5	35.5	35.5	33.8
82.5°	22.0	23.7	22.0	22.0
85°	11.8	13.5	10.1	15.2
87.5°	6.8	8.4	6.8	8.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)