

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: P250908

Luminaire Tested: **LSR8B60D010 EC8B609727 8LBSW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250908
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: LSR8B60D010 EC8B609727 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4591.0 lumens
Efficiency: N/A
Efficacy: 77.2 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

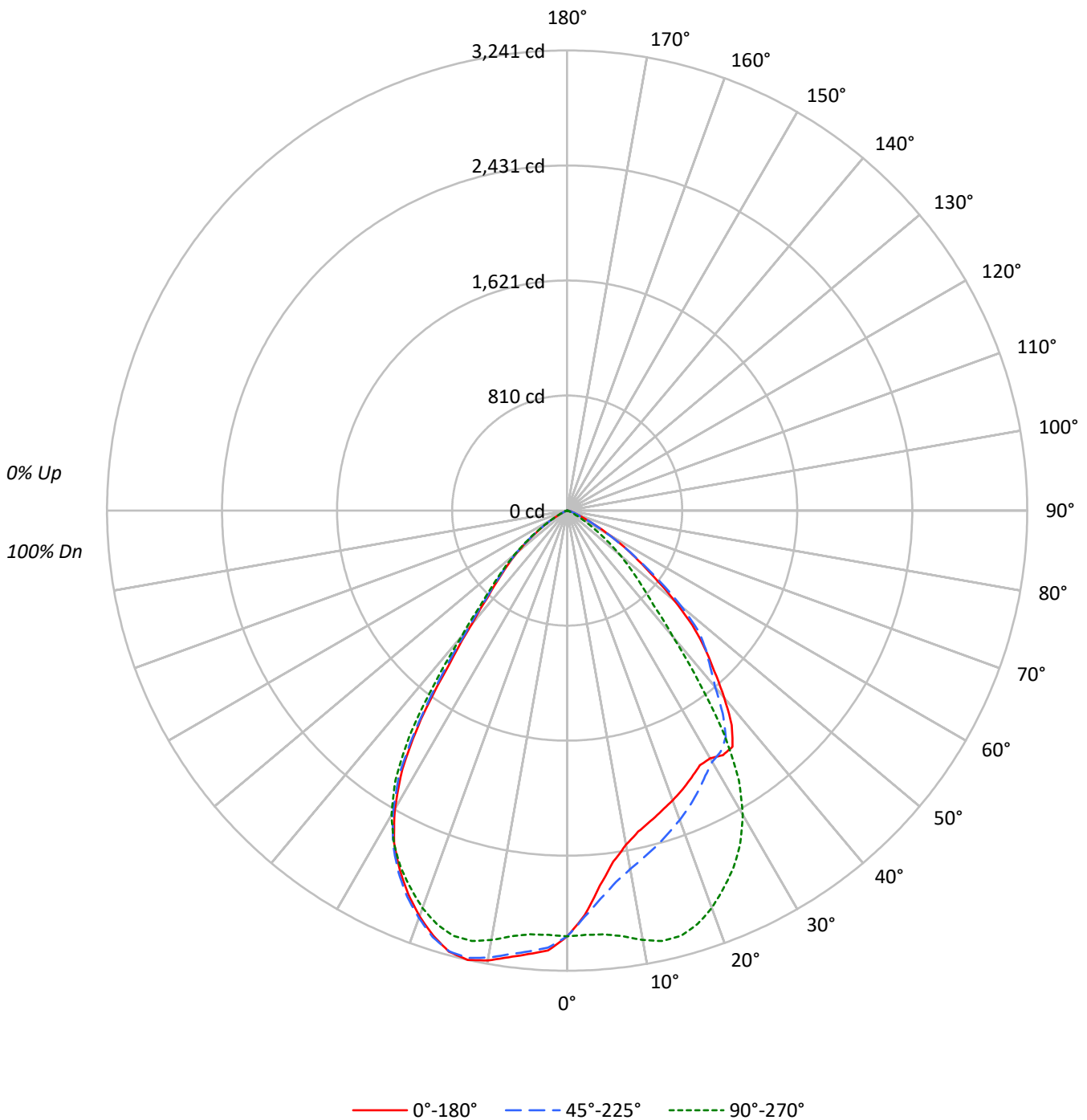
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91					91			
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	88	86	84	82					82			
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	78	76	74					74			
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67					67			
5	86	76	69	64	84	75	69	64	73	68	63	72	66	63	70	65	62	60					60			
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	55					55			
7	76	65	58	53	74	64	57	52	63	57	52	61	56	52	60	55	52	50					50			
8	71	60	53	48	70	59	53	48	58	52	48	57	52	48	56	51	47	46					46			
9	67	56	49	44	66	55	49	44	54	48	44	53	48	44	52	47	44	42					42			
10	63	52	45	41	62	52	45	41	51	45	41	50	44	40	49	44	40	39					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°	279.5	6.1
10°-20°	807.4	17.6
20°-30°	1171.8	25.5
30°-40°	1154.2	25.1
40°-50°	723.5	15.8
50°-60°	349.1	7.6
60°-70°	84.5	1.8
70°-80°	17.1	0.4
80°-90°	3.9	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°	2258.8	49.2
0°-40°	3412.9	74.3
0°-60°	4485.5	97.7
0°-90°	4591.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4591.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2999	2999	2999	2999	2999	
5°	2651	2741	2995	3117	3136	245
15°	2265	2443	3100	3214	3216	640
25°	2074	2182	2774	2812	2791	960
35°	2031	1948	1936	1826	1796	1229
45°	1371	1381	732	701	682	1048
55°	609	629	266	263	251	560
65°	143	141	39	34	30	163
75°	35	30	9	4	3	39
85°	10	8	2	0	0	10
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°	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2
2.5°	2851.1	2832.9	2799.0	2840.0	2840.0	2817.2	2862.9	2835.3	2857.4	2892.0	2861.3
5°	2650.9	2635.9	2607.6	2650.9	2656.4	2635.1	2690.3	2669.8	2702.1	2744.7	2740.7
7.5°	2492.5	2473.6	2447.6	2492.5	2501.2	2487.0	2539.8	2530.3	2572.9	2628.0	2637.5
10°	2389.3	2369.6	2346.7	2387.7	2394.0	2384.6	2438.1	2432.6	2474.4	2538.2	2563.4
12.5°	2316.0	2299.4	2274.2	2317.6	2324.7	2311.3	2361.7	2359.3	2402.7	2469.7	2501.2
15°	2264.8	2245.1	2222.2	2259.3	2268.7	2253.7	2301.8	2297.1	2341.2	2407.4	2442.9
17.5°	2216.7	2198.6	2174.9	2209.6	2219.1	2203.3	2250.6	2242.7	2280.5	2343.6	2379.8
20°	2171.8	2152.1	2130.8	2166.3	2171.8	2153.7	2200.9	2190.7	2224.6	2282.9	2318.4
22.5°	2125.3	2104.8	2082.7	2117.4	2122.9	2104.8	2148.1	2136.3	2167.8	2220.6	2253.0
25°	2074.1	2055.2	2033.1	2065.4	2070.1	2050.4	2096.1	2081.2	2108.7	2155.2	2182.0
27.5°	2022.8	2004.7	1980.3	2013.4	2015.8	1996.8	2038.6	2018.1	2041.0	2083.5	2106.4
30°	2014.2	1993.7	1968.5	1995.3	1996.1	1971.6	2011.0	1986.6	1999.2	2030.7	2044.1
32.5°	2041.8	2021.3	1995.3	2017.3	2015.0	1988.2	2026.0	1996.1	2000.0	2016.5	2013.4
35°	2030.7	2006.3	1975.6	1999.2	1999.2	1966.9	2004.7	1969.3	1965.3	1967.7	1948.0
37.5°	1905.4	1886.5	1857.4	1880.2	1877.9	1853.4	1882.6	1853.4	1840.0	1834.5	1799.1
40°	1721.0	1698.2	1676.1	1700.5	1702.9	1676.9	1714.7	1681.6	1677.7	1661.9	1620.2
42.5°	1534.3	1526.4	1505.1	1525.6	1536.6	1514.6	1546.1	1530.3	1532.7	1528.8	1489.4
45°	1371.2	1357.8	1342.0	1365.6	1372.7	1361.7	1393.2	1383.8	1393.2	1412.9	1380.6
47.5°	1195.4	1182.0	1164.7	1189.9	1202.5	1182.0	1208.8	1205.7	1219.9	1253.7	1250.6
50°	983.4	974.0	970.8	974.0	981.9	972.4	991.3	992.1	1001.6	1048.1	1051.2
52.5°	778.6	776.2	765.2	775.4	775.4	760.4	779.4	770.7	780.1	811.7	832.1
55°	609.1	606.8	599.7	609.1	598.9	593.4	598.9	590.2	583.1	607.6	628.8
57.5°	474.4	466.5	457.8	461.8	461.0	449.2	455.5	445.2	439.7	448.4	467.3
60°	338.1	335.7	327.8	331.8	334.9	326.2	332.5	327.8	318.4	325.5	326.2
62.5°	224.6	226.2	221.4	222.2	219.9	218.3	222.2	224.6	222.2	219.1	219.9
65°	142.6	141.8	141.1	141.8	143.4	140.3	142.6	144.2	141.8	141.8	141.1
67.5°	94.6	92.2	89.8	91.4	93.0	90.6	93.0	92.2	93.0	92.2	89.8
70°	63.8	63.0	62.3	63.0	63.0	61.5	63.0	62.3	63.0	62.3	59.9
72.5°	46.5	46.5	45.7	46.5	46.5	44.9	45.7	44.1	44.9	44.1	42.6
75°	34.7	34.7	33.9	34.7	33.9	33.1	33.9	33.1	31.5	31.5	29.9
77.5°	25.2	25.2	25.2	25.2	25.2	24.4	24.4	23.6	22.9	22.1	22.1
80°	18.9	18.1	18.1	18.1	18.1	17.3	18.1	17.3	16.5	15.8	15.0
82.5°	13.4	14.2	13.4	13.4	13.4	12.6	13.4	12.6	12.6	11.8	10.2
85°	10.2	10.2	10.2	10.2	10.2	9.5	9.5	9.5	8.7	8.7	7.9
87.5°	5.5	5.5	5.5	6.3	5.5	5.5	5.5	4.7	4.7	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°	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2
2.5°	2902.3	2906.2	2897.6	2910.9	2963.0	2921.2	2938.5	2944.0	2983.4	2990.5	2985.8
5°	2792.0	2809.3	2820.3	2850.3	2907.8	2877.9	2908.6	2928.3	2978.7	2995.3	2999.2
7.5°	2705.3	2741.5	2768.3	2817.2	2884.9	2862.1	2908.6	2940.9	3002.4	3023.6	3033.9
10°	2640.7	2695.8	2742.3	2809.3	2885.7	2870.8	2931.4	2977.1	3045.7	3070.9	3083.5
12.5°	2591.8	2658.8	2721.0	2806.1	2888.9	2881.8	2955.1	3007.1	3079.6	3104.8	3119.8
15°	2538.2	2615.4	2687.9	2783.3	2872.3	2870.8	2949.6	3004.7	3078.8	3100.1	3114.3
17.5°	2474.4	2557.1	2636.7	2739.9	2828.2	2829.8	2909.4	2963.7	3036.2	3053.6	3063.0
20°	2409.8	2491.7	2571.3	2677.7	2764.4	2766.7	2844.8	2895.2	2964.5	2978.7	2981.1
22.5°	2341.2	2417.6	2497.2	2602.8	2686.4	2687.9	2765.2	2812.4	2871.5	2878.6	2884.9
25°	2263.2	2338.1	2412.9	2517.7	2597.3	2602.0	2672.2	2713.9	2768.3	2773.8	2776.2
27.5°	2182.0	2243.5	2315.2	2405.0	2485.4	2482.3	2548.5	2595.7	2644.6	2641.4	2640.7
30°	2100.1	2151.3	2195.4	2282.1	2341.2	2343.6	2405.8	2428.7	2479.9	2473.6	2472.8
32.5°	2042.5	2055.9	2067.8	2111.9	2167.8	2148.1	2190.7	2219.1	2254.5	2252.2	2253.0
35°	1937.0	1912.5	1877.1	1883.4	1917.3	1886.5	1909.4	1908.6	1944.8	1936.2	1946.4
37.5°	1756.5	1687.2	1608.4	1563.4	1569.7	1531.1	1523.2	1542.2	1554.8	1530.3	1539.0
40°	1564.2	1461.8	1338.8	1236.4	1230.9	1182.8	1174.2	1155.2	1179.7	1159.2	1165.5
42.5°	1422.4	1286.8	1125.3	1000.8	974.0	933.8	910.2	907.0	914.1	899.9	896.0
45°	1313.6	1169.4	984.2	841.6	811.7	768.3	744.7	736.0	736.8	732.1	728.1
47.5°	1186.0	1041.0	853.4	707.6	673.8	632.8	609.1	603.6	606.8	600.5	595.7
50°	1009.5	879.4	708.4	575.3	545.3	515.4	496.5	490.9	490.1	485.4	482.3
52.5°	819.5	711.6	563.4	452.3	425.5	396.4	383.0	375.9	376.7	371.9	367.2
55°	634.4	567.4	436.6	342.0	317.6	294.7	282.1	273.4	271.1	266.4	264.0
57.5°	472.0	427.1	327.0	246.7	232.5	210.4	197.8	187.5	186.0	183.6	182.8
60°	331.0	298.7	230.1	175.7	159.2	145.8	133.2	122.9	118.2	117.4	115.1
62.5°	214.3	194.6	151.3	117.4	104.8	95.4	82.7	75.6	72.5	69.3	70.1
65°	133.2	118.2	94.6	75.6	68.6	61.5	52.0	45.7	42.6	39.4	40.2
67.5°	82.7	74.1	59.9	48.9	44.1	38.6	31.5	26.8	24.4	22.1	20.5
70°	55.9	48.1	41.0	34.7	31.5	27.6	22.9	18.9	17.3	15.8	14.2
72.5°	39.4	35.5	29.9	26.0	23.6	20.5	17.3	15.0	13.4	11.8	10.2
75°	28.4	25.2	22.1	18.9	17.3	15.8	13.4	11.8	10.2	8.7	7.1
77.5°	20.5	18.1	15.8	14.2	13.4	11.0	9.5	8.7	7.9	6.3	4.7
80°	14.2	12.6	10.2	9.5	9.5	7.9	7.1	6.3	5.5	3.9	3.2
82.5°	9.5	8.7	7.9	7.1	6.3	5.5	5.5	3.9	3.2	2.4	1.6
85°	7.1	6.3	5.5	4.7	4.7	3.9	3.2	2.4	2.4	1.6	0.8
87.5°	3.9	3.9	3.2	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°	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2
2.5°	3026.0	3028.4	3041.8	3031.5	3057.5	3076.4	3067.0	3088.3	3081.2	3079.6	3104.0
5°	3046.5	3052.0	3070.1	3060.7	3089.0	3109.5	3100.1	3123.7	3116.6	3115.0	3140.3
7.5°	3085.9	3091.4	3107.2	3099.3	3129.2	3147.4	3135.5	3161.5	3152.1	3151.3	3175.7
10°	3135.5	3143.4	3156.8	3148.9	3176.5	3192.3	3180.5	3205.7	3197.0	3193.1	3219.9
12.5°	3172.6	3178.1	3191.5	3185.2	3212.0	3223.8	3213.5	3238.0	3226.9	3223.8	3247.4
15°	3163.9	3169.4	3180.5	3174.9	3200.2	3211.2	3197.8	3224.6	3213.5	3207.2	3228.5
17.5°	3108.7	3111.9	3119.8	3114.3	3141.1	3148.1	3133.2	3160.0	3149.7	3138.7	3159.2
20°	3027.6	3026.0	3030.7	3028.4	3050.4	3054.4	3044.9	3064.6	3052.8	3046.5	3058.3
22.5°	2926.7	2925.1	2928.3	2922.0	2944.0	2946.4	2932.2	2955.9	2944.0	2932.2	2951.9
25°	2814.8	2806.1	2804.6	2806.9	2821.9	2824.3	2809.3	2826.6	2811.7	2802.2	2821.1
27.5°	2676.9	2665.9	2663.5	2665.9	2680.8	2669.8	2657.2	2669.8	2654.8	2646.2	2658.0
30°	2506.7	2490.9	2483.8	2479.1	2494.9	2490.9	2461.8	2476.0	2452.3	2439.7	2448.4
32.5°	2277.4	2268.7	2249.8	2238.8	2253.7	2223.8	2205.7	2205.7	2196.2	2174.9	2179.7
35°	1959.0	1945.6	1928.3	1918.8	1921.2	1881.0	1851.1	1857.4	1825.8	1820.3	1822.7
37.5°	1556.3	1534.3	1528.0	1508.3	1513.0	1477.5	1436.6	1437.3	1420.8	1403.5	1397.9
40°	1169.4	1165.5	1159.2	1142.6	1148.9	1110.3	1094.6	1095.3	1084.3	1071.7	1078.0
42.5°	903.9	891.3	887.3	881.8	883.4	877.1	856.6	858.9	849.5	846.3	843.2
45°	734.4	721.0	711.6	716.3	716.3	709.2	701.3	706.1	701.3	695.0	698.2
47.5°	605.2	592.6	587.9	587.1	592.6	587.9	580.0	581.6	580.8	578.4	576.8
50°	483.1	479.9	476.0	473.6	476.0	474.4	467.3	471.2	473.6	465.7	468.1
52.5°	368.0	368.0	367.2	361.7	366.4	361.7	360.9	362.5	360.1	357.0	356.2
55°	269.5	267.1	263.2	262.4	264.0	262.4	260.8	261.6	263.2	255.3	255.3
57.5°	184.4	182.8	180.5	180.5	183.6	179.7	177.3	180.5	177.3	174.2	174.2
60°	118.2	117.4	115.1	115.1	115.1	114.3	111.9	112.7	114.3	109.5	110.3
62.5°	70.9	68.6	67.8	67.0	67.8	67.0	67.0	66.2	65.4	65.4	63.0
65°	38.6	37.0	35.5	36.2	36.2	35.5	35.5	35.5	33.9	33.1	32.3
67.5°	19.7	18.1	18.1	17.3	17.3	17.3	17.3	16.5	16.5	16.5	15.8
70°	12.6	11.8	11.0	11.0	11.0	10.2	10.2	10.2	10.2	10.2	9.5
72.5°	8.7	7.9	7.1	7.1	7.1	6.3	6.3	6.3	6.3	5.5	5.5
75°	6.3	5.5	4.7	4.7	4.7	3.9	3.9	3.9	3.9	3.9	3.9
77.5°	3.9	3.2	3.2	3.2	3.2	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: P250908

CATALOG NUMBER: LSR8B60D010 EC8B609727 8LBSWOLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2	2999.2
2.5°	3095.3	3089.0	3093.0	3122.1	3109.5	3105.6	3072.5	3101.6
5°	3132.4	3127.7	3127.7	3160.8	3145.8	3142.6	3110.3	3135.5
7.5°	3167.1	3162.3	3163.1	3197.0	3185.2	3180.5	3148.1	3173.4
10°	3212.0	3208.8	3209.6	3241.9	3229.3	3224.6	3191.5	3217.5
12.5°	3238.8	3234.0	3234.0	3268.7	3254.5	3247.4	3215.9	3241.1
15°	3218.3	3211.2	3211.2	3245.9	3230.1	3219.9	3192.3	3215.9
17.5°	3148.1	3141.1	3141.1	3171.0	3159.2	3144.2	3115.8	3137.9
20°	3050.4	3041.8	3039.4	3074.1	3057.5	3044.1	3018.9	3040.2
22.5°	2940.1	2936.2	2929.1	2963.7	2948.8	2934.6	2907.8	2924.3
25°	2807.7	2801.4	2794.3	2828.2	2813.2	2799.0	2777.8	2791.2
27.5°	2643.0	2643.8	2639.9	2666.7	2651.7	2643.8	2617.8	2639.9
30°	2443.7	2435.0	2431.8	2463.4	2449.2	2438.9	2406.6	2427.9
32.5°	2183.6	2171.0	2154.4	2189.9	2165.5	2156.8	2129.2	2160.0
35°	1805.4	1801.4	1786.4	1816.4	1803.0	1787.2	1769.9	1795.9
37.5°	1395.6	1398.7	1397.2	1405.0	1397.2	1386.9	1368.0	1358.5
40°	1065.4	1057.5	1051.2	1065.4	1048.9	1048.9	1037.8	1049.6
42.5°	835.3	832.1	840.0	843.2	833.7	832.1	830.6	829.8
45°	689.5	689.5	691.1	694.2	691.1	689.5	684.8	681.6
47.5°	568.2	571.3	568.2	578.4	572.9	571.3	561.9	565.8
50°	460.2	456.3	460.2	463.4	464.1	459.4	454.7	457.1
52.5°	357.0	350.7	349.1	353.8	350.7	350.7	347.5	346.7
55°	251.4	253.7	249.8	253.7	252.2	249.8	247.4	250.6
57.5°	170.2	171.0	169.4	171.8	167.8	168.6	167.8	167.1
60°	110.3	107.2	107.2	109.5	105.6	105.6	104.8	104.8
62.5°	63.0	62.3	62.3	61.5	60.7	60.7	60.7	59.1
65°	32.3	31.5	30.7	30.7	30.7	30.7	29.9	29.9
67.5°	15.8	15.0	15.0	15.8	15.0	15.0	15.0	15.0
70°	9.5	9.5	8.7	9.5	8.7	8.7	8.7	8.7
72.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
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)