

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: P248506

Luminaire Tested: **LSR8B60D010 EC8B60940 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P248506
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 EC8B60940 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
90 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5676.0 lumens
Efficiency: N/A
Efficacy: 95.4 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

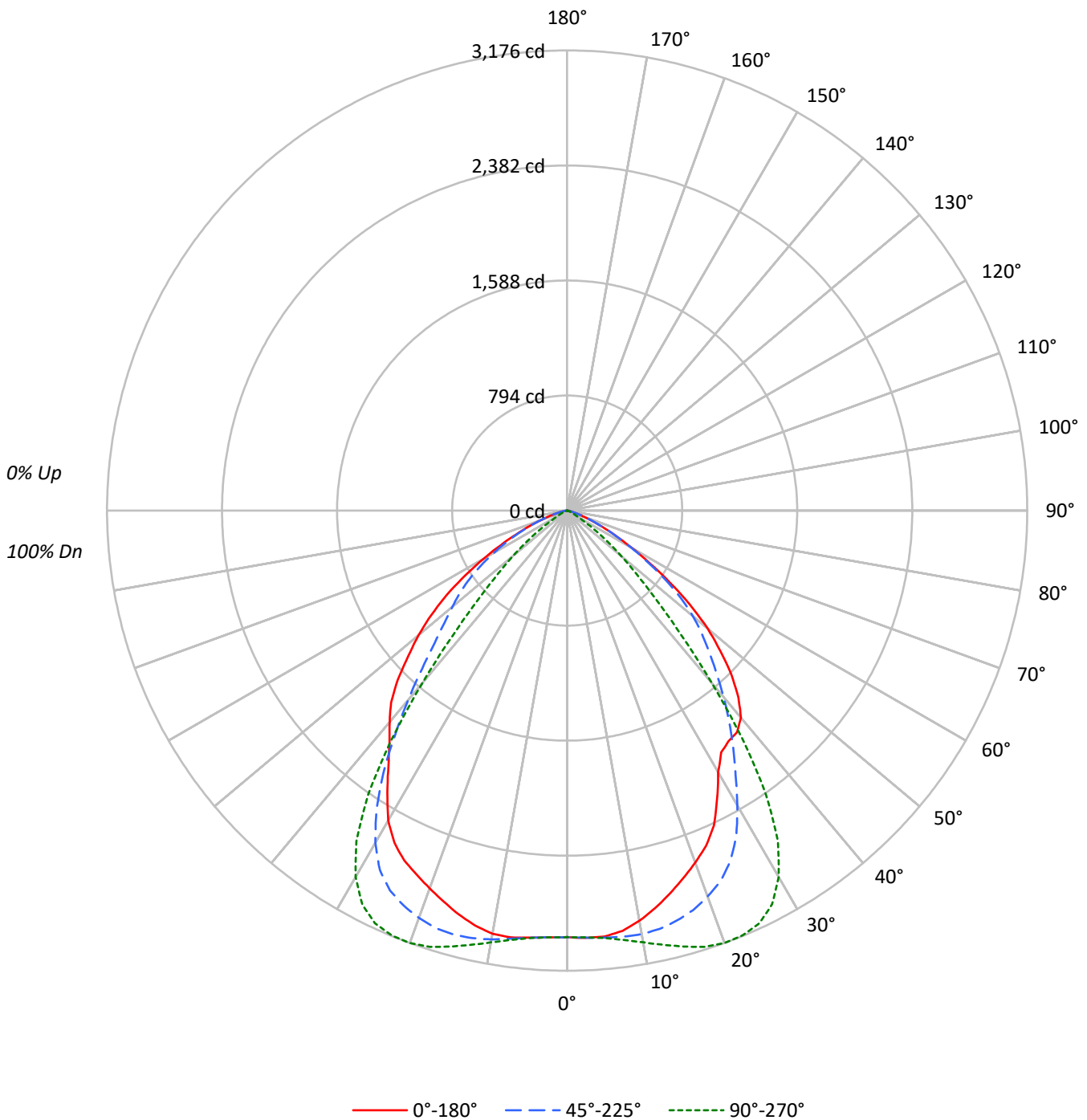
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P248506

CATALOG NUMBER: LSR8B60D010 EC8B60940 8LBDW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P248506

CATALOG NUMBER: LSR8B60D010 EC8B60940 8LBDW0WH

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°	90798	90798	90798
5°	91339	91677	91581
10°	89997	94744	92884
15°	87367	99440	92155
20°	84831	104215	91036
25°	81573	106887	90613
30°	74236	103954	87927
35°	73131	90075	80897
40°	75118	62474	76692
45°	69932	37757	72112
50°	60657	23320	64255
55°	46547	12182	54530
60°	31712	4915	41160
65°	19730	2510	28391
70°	10711	1551	17329
75°	5588	739	10246
80°	2504	835	5540
85°	1663	566	4989



TEST NUMBER: P248506

CATALOG NUMBER: LSR8B60D010 EC8B60940 8LBDW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	283.2	5.0
10°-20°	838.9	14.8
20°-30°	1279.8	22.5
30°-40°	1335.4	23.5
40°-50°	1003.1	17.7
50°-60°	617.2	10.9
60°-70°	251.2	4.4
70°-80°	59.2	1.0
80°-90°	8.1	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°	2401.8	42.3
0°-40°	3737.2	65.8
0°-60°	5357.5	94.4
0°-90°	5676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5676.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2944	2944	2944	2944	2944	
5°	2951	2959	2962	2959	2959	279
15°	2737	2929	3115	3029	2887	771
25°	2398	2666	3142	2893	2663	1090
35°	1943	1997	2393	2212	2149	1227
45°	1604	1388	866	1292	1654	1223
55°	866	822	227	822	1014	778
65°	270	274	34	367	389	282
75°	47	47	6	83	86	56
85°	5	5	2	11	14	7
90°	0	0	0	0	0	



TEST NUMBER: P248506

CATALOG NUMBER: LSR8B60D010 EC8B60940 8LBDW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5
2.5°	2952.3	2947.6	2952.3	2952.3	2953.9	2950.8	2952.3	2953.9	2950.8	2950.8	2950.8
5°	2950.8	2947.6	2950.8	2949.2	2952.3	2952.3	2955.5	2955.5	2958.6	2958.6	2963.3
7.5°	2925.8	2919.5	2925.8	2930.5	2933.6	2939.8	2947.6	2953.9	2960.1	2966.4	2974.2
10°	2874.2	2874.2	2878.9	2888.3	2897.6	2908.6	2922.6	2938.3	2953.9	2968.0	2982.0
12.5°	2810.1	2805.4	2814.8	2827.3	2841.4	2858.6	2880.5	2903.9	2928.9	2957.0	2978.9
15°	2736.7	2732.0	2742.9	2755.4	2772.6	2797.6	2824.2	2855.4	2891.4	2928.9	2964.9
17.5°	2661.6	2660.1	2671.0	2688.2	2702.3	2728.8	2763.2	2800.7	2841.4	2891.4	2938.3
20°	2585.1	2583.5	2594.4	2608.5	2627.3	2652.3	2686.6	2730.4	2778.8	2835.1	2889.8
22.5°	2505.3	2506.9	2516.3	2531.9	2547.6	2574.1	2610.0	2653.8	2707.0	2767.9	2828.9
25°	2397.5	2389.7	2402.2	2417.8	2444.4	2466.3	2500.7	2547.6	2602.2	2666.3	2738.2
27.5°	2241.2	2239.6	2250.6	2264.6	2288.1	2314.7	2352.2	2400.6	2458.5	2528.8	2599.1
30°	2084.9	2088.0	2092.7	2106.8	2122.4	2149.0	2186.5	2227.2	2281.9	2349.0	2424.1
32.5°	1978.6	1978.6	1984.9	1994.3	2005.2	2019.3	2045.9	2075.5	2117.8	2164.6	2219.3
35°	1942.7	1936.5	1942.7	1944.3	1945.8	1949.0	1953.6	1963.0	1977.1	1997.4	2017.7
37.5°	1927.1	1922.4	1922.4	1916.1	1908.3	1898.9	1886.4	1872.4	1856.8	1836.4	1820.8
40°	1866.1	1863.0	1859.9	1853.6	1836.4	1817.7	1797.3	1764.5	1728.6	1678.6	1628.6
42.5°	1748.9	1745.8	1744.2	1731.7	1716.1	1694.2	1670.7	1636.4	1591.1	1527.0	1455.1
45°	1603.6	1597.3	1592.6	1581.7	1570.7	1552.0	1530.1	1498.8	1453.5	1387.9	1301.9
47.5°	1434.8	1431.6	1430.1	1425.4	1414.5	1403.5	1389.4	1364.4	1323.8	1261.3	1172.2
50°	1264.4	1258.2	1261.3	1259.7	1255.0	1247.2	1237.8	1220.6	1189.4	1133.1	1051.8
52.5°	1069.0	1069.0	1067.5	1072.1	1073.7	1072.1	1073.7	1055.0	1028.4	986.2	917.4
55°	865.8	865.8	870.5	876.8	883.0	884.6	883.0	875.2	856.5	822.1	761.1
57.5°	675.2	672.1	681.4	690.8	697.1	703.3	698.6	692.4	681.4	653.3	606.4
60°	514.2	514.2	520.4	526.7	532.9	539.2	537.6	536.1	526.7	507.9	470.5
62.5°	378.2	379.8	379.8	384.5	390.7	397.0	401.7	397.0	392.3	379.8	354.8
65°	270.4	268.8	270.4	275.1	279.8	286.0	289.1	287.6	282.9	273.5	254.8
67.5°	181.3	179.7	186.0	187.5	190.7	196.9	195.4	196.9	195.4	187.5	171.9
70°	118.8	115.6	118.8	117.2	121.9	123.5	126.6	128.1	126.6	121.9	117.2
72.5°	73.5	71.9	73.5	75.0	76.6	78.1	81.3	81.3	79.7	76.6	70.3
75°	46.9	42.2	43.7	40.7	43.7	43.7	46.9	48.5	46.9	46.9	43.7
77.5°	28.1	28.1	28.1	28.1	28.1	28.1	28.1	29.7	31.2	28.1	26.6
80°	14.1	14.1	15.6	15.6	15.6	17.2	15.6	15.6	15.6	17.2	12.5
82.5°	10.9	9.4	9.4	9.4	10.9	9.4	9.4	9.4	9.4	9.4	9.4
85°	4.7	6.2	4.7	3.1	4.7	4.7	6.2	4.7	4.7	4.7	6.2
87.5°	1.6	1.6	0.0	0.0	0.0	1.6	0.0	1.6	1.6	3.1	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: P248506

CATALOG NUMBER: LSR8B60D010 EC8B60940 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5
2.5°	2952.3	2949.2	2949.2	2947.6	2950.8	2947.6	2949.2	2947.6	2947.6	2950.8	2947.6
5°	2963.3	2964.9	2961.7	2960.1	2964.9	2964.9	2964.9	2961.7	2961.7	2963.3	2961.7
7.5°	2978.9	2982.0	2983.6	2985.2	2988.3	2989.9	2989.9	2988.3	2986.7	2991.4	2985.2
10°	2996.1	3000.8	3010.2	3014.9	3022.7	3022.7	3025.8	3025.8	3022.7	3025.8	3024.2
12.5°	2989.9	3018.0	3033.6	3044.5	3055.5	3064.9	3068.0	3069.6	3068.0	3074.3	3068.0
15°	3000.8	3024.2	3049.3	3068.0	3088.3	3099.2	3102.4	3114.9	3118.0	3119.6	3110.2
17.5°	2983.6	3025.8	3052.4	3080.5	3110.2	3130.5	3149.3	3157.1	3158.7	3161.8	3149.3
20°	2944.5	2991.4	3032.0	3072.7	3107.1	3138.3	3154.0	3175.8	3169.6	3182.1	3164.9
22.5°	2891.4	2944.5	2996.1	3049.3	3085.2	3122.7	3155.5	3171.1	3179.0	3179.0	3160.2
25°	2807.0	2869.5	2925.8	2980.5	3035.2	3080.5	3118.0	3141.5	3146.2	3144.6	3122.7
27.5°	2675.7	2742.9	2808.6	2871.1	2938.3	2991.4	3035.2	3063.3	3071.1	3071.1	3047.7
30°	2494.4	2566.3	2630.4	2705.4	2774.2	2833.6	2894.5	2919.5	2933.6	2933.6	2907.0
32.5°	2278.7	2339.7	2399.1	2472.5	2547.6	2614.7	2672.6	2707.0	2724.2	2722.6	2699.1
35°	2044.3	2074.0	2119.3	2174.0	2241.2	2303.7	2360.0	2392.8	2422.5	2420.9	2399.1
37.5°	1809.8	1802.0	1806.7	1827.0	1869.2	1913.0	1956.8	1988.0	2013.0	2024.0	2019.3
40°	1580.1	1539.5	1500.4	1486.3	1489.4	1505.1	1528.5	1552.0	1580.1	1594.2	1600.4
42.5°	1373.8	1305.0	1236.2	1184.7	1155.0	1145.6	1156.5	1164.4	1181.6	1201.9	1222.2
45°	1208.1	1115.9	1025.3	945.6	895.5	865.8	859.6	865.8	875.2	895.5	922.1
47.5°	1072.1	964.3	862.7	773.6	700.2	661.1	650.2	647.1	656.4	675.2	711.1
50°	951.8	844.0	731.5	628.3	551.7	507.9	492.3	486.1	497.0	511.1	543.9
52.5°	820.5	714.2	598.6	498.6	418.9	373.5	356.3	347.0	353.2	372.0	404.8
55°	678.3	579.8	475.1	372.0	295.4	253.2	232.9	226.6	232.9	253.2	286.0
57.5°	536.1	453.2	365.7	268.8	200.0	157.9	137.5	131.3	148.5	156.3	190.7
60°	418.9	351.7	276.6	196.9	137.5	104.7	84.4	79.7	87.5	101.6	129.7
62.5°	314.2	271.9	212.5	140.7	101.6	67.2	56.3	51.6	56.3	67.2	89.1
65°	228.2	195.4	148.5	103.1	68.8	50.0	37.5	34.4	39.1	46.9	65.7
67.5°	156.3	131.3	103.1	71.9	46.9	31.2	26.6	26.6	28.1	34.4	48.5
70°	101.6	86.0	65.7	46.9	31.2	23.4	20.3	17.2	20.3	25.0	32.8
72.5°	64.1	54.7	42.2	32.8	23.4	17.2	14.1	12.5	15.6	18.7	25.0
75°	39.1	29.7	21.9	17.2	12.5	12.5	12.5	6.2	7.8	12.5	15.6
77.5°	23.4	20.3	17.2	14.1	10.9	6.2	6.2	6.2	7.8	9.4	14.1
80°	12.5	10.9	7.8	7.8	6.2	4.7	6.2	4.7	3.1	7.8	9.4
82.5°	7.8	6.2	6.2	6.2	7.8	3.1	4.7	3.1	4.7	6.2	4.7
85°	4.7	4.7	4.7	3.1	7.8	3.1	3.1	1.6	1.6	3.1	3.1
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



TEST NUMBER: P248506

CATALOG NUMBER: LSR8B60D010 EC8B60940 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5	2944.5
2.5°	2949.2	2947.6	2949.2	2947.6	2947.6	2947.6	2949.2	2949.2	2947.6	2947.6	2950.8
5°	2961.7	2961.7	2961.7	2960.1	2958.6	2958.6	2961.7	2961.7	2957.0	2961.7	2961.7
7.5°	2988.3	2983.6	2988.3	2982.0	2978.9	2980.5	2982.0	2978.9	2975.8	2977.4	2977.4
10°	3022.7	3018.0	3018.0	3013.3	3008.6	3005.5	3002.4	2994.5	2986.7	2985.2	2978.9
12.5°	3063.3	3055.5	3050.8	3041.4	3033.6	3022.7	3013.3	3000.8	2985.2	2974.2	2963.3
15°	3103.9	3091.4	3080.5	3064.9	3047.7	3028.9	3008.6	2988.3	2963.3	2941.4	2922.6
17.5°	3136.8	3119.6	3099.2	3074.3	3049.3	3021.1	2991.4	2961.7	2925.8	2897.6	2875.7
20°	3147.7	3122.7	3096.1	3063.3	3030.5	2991.4	2953.9	2914.8	2874.2	2844.5	2819.5
22.5°	3133.7	3103.9	3071.1	3036.7	2993.0	2950.8	2907.0	2861.7	2825.7	2785.1	2761.7
25°	3094.6	3058.6	3022.7	2982.0	2939.8	2893.0	2846.1	2799.2	2755.4	2733.5	2703.9
27.5°	3014.9	2975.8	2936.7	2894.5	2846.1	2799.2	2750.7	2705.4	2667.9	2638.2	2621.0
30°	2874.2	2828.9	2783.5	2738.2	2696.0	2647.6	2602.2	2564.7	2527.2	2503.8	2486.6
32.5°	2658.5	2617.9	2572.6	2528.8	2489.7	2449.1	2411.6	2378.8	2352.2	2336.5	2324.0
35°	2367.8	2327.2	2292.8	2261.5	2228.7	2211.5	2188.1	2169.3	2158.4	2152.1	2150.6
37.5°	2002.1	1978.6	1967.7	1961.5	1955.2	1950.5	1953.6	1961.5	1967.7	1978.6	1991.1
40°	1611.4	1631.7	1637.9	1659.8	1680.1	1706.7	1736.4	1770.8	1798.9	1834.8	1859.9
42.5°	1255.0	1292.5	1336.3	1383.2	1433.2	1481.6	1541.0	1595.7	1645.7	1691.1	1730.1
45°	964.3	1022.1	1087.8	1155.0	1222.2	1292.5	1364.4	1431.6	1491.0	1539.5	1580.1
47.5°	751.8	815.9	900.3	983.1	1064.3	1147.2	1226.9	1297.2	1347.2	1394.1	1430.1
50°	595.5	668.9	761.1	856.5	945.6	1033.1	1117.5	1183.1	1233.1	1270.7	1297.2
52.5°	461.0	548.6	642.3	742.4	837.7	933.1	1011.2	1072.1	1112.8	1145.6	1165.9
55°	343.8	429.8	529.8	633.0	729.9	822.1	895.5	948.7	984.7	1003.4	1014.3
57.5°	248.5	326.7	426.7	529.8	617.3	704.9	764.3	812.7	833.0	844.0	848.7
60°	181.3	253.2	342.3	431.4	514.2	584.5	636.1	668.9	684.6	690.8	689.2
62.5°	132.9	195.4	271.9	347.0	414.2	472.0	512.6	534.5	542.3	545.4	540.8
65°	101.6	150.0	215.7	273.5	325.1	367.3	397.0	411.1	415.7	414.2	411.1
67.5°	75.0	112.5	161.0	204.7	242.3	275.1	290.7	303.2	306.3	301.7	296.9
70°	53.2	82.8	117.2	146.9	175.0	193.8	211.0	212.5	212.5	211.0	207.9
72.5°	37.5	57.8	79.7	100.0	117.2	131.3	137.5	142.2	140.7	139.1	136.0
75°	25.0	35.9	57.8	62.5	78.1	82.8	89.1	89.1	90.6	86.0	86.0
77.5°	15.6	25.0	34.4	40.7	46.9	53.2	56.3	56.3	57.8	56.3	56.3
80°	9.4	15.6	18.7	28.1	28.1	32.8	34.4	35.9	32.8	37.5	32.8
82.5°	6.2	9.4	14.1	14.1	17.2	20.3	20.3	21.9	21.9	20.3	20.3
85°	4.7	6.2	7.8	9.4	9.4	10.9	9.4	9.4	10.9	12.5	10.9
87.5°	1.6	3.1	1.6	3.1	3.1	6.2	4.7	4.7	4.7	6.2	6.2
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: P248506

CATALOG NUMBER: LSR8B60D010 EC8B60940 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2944.5	2944.5	2944.5	2944.5
2.5°	2947.6	2949.2	2947.6	2947.6
5°	2961.7	2960.1	2961.7	2958.6
7.5°	2972.7	2972.7	2971.1	2971.1
10°	2972.7	2966.4	2966.4	2966.4
12.5°	2949.2	2941.4	2936.7	2933.6
15°	2908.6	2894.5	2888.3	2886.7
17.5°	2855.4	2842.9	2835.1	2830.4
20°	2794.5	2782.0	2772.6	2774.2
22.5°	2741.3	2727.3	2721.0	2717.9
25°	2688.2	2671.0	2666.3	2663.2
27.5°	2602.2	2592.9	2588.2	2583.5
30°	2471.0	2466.3	2458.5	2469.4
32.5°	2319.4	2311.5	2305.3	2310.0
35°	2152.1	2147.4	2152.1	2149.0
37.5°	1999.0	2003.6	2009.9	2013.0
40°	1878.6	1895.8	1902.1	1905.2
42.5°	1758.3	1778.6	1791.1	1798.9
45°	1609.8	1630.1	1644.2	1653.6
47.5°	1456.6	1473.8	1487.9	1486.3
50°	1317.5	1326.9	1333.1	1339.4
52.5°	1176.9	1176.9	1178.4	1178.4
55°	1017.5	1014.3	1012.8	1014.3
57.5°	842.4	839.3	837.7	833.0
60°	683.0	673.6	667.4	667.4
62.5°	534.5	523.6	518.9	517.3
65°	401.7	400.1	390.7	389.1
67.5°	290.7	284.4	278.2	279.8
70°	204.7	195.4	195.4	192.2
72.5°	132.9	128.1	126.6	126.6
75°	82.8	82.8	79.7	86.0
77.5°	54.7	54.7	53.2	54.7
80°	32.8	32.8	32.8	31.2
82.5°	20.3	21.9	20.3	20.3
85°	10.9	12.5	9.4	14.1
87.5°	6.2	7.8	6.2	7.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)