

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: P249397

Luminaire Tested: **LSR8B60D010 EC8B60930 8LBDW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P249397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B60D010 EC8B60930 8LBDW0GPH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5103.9 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

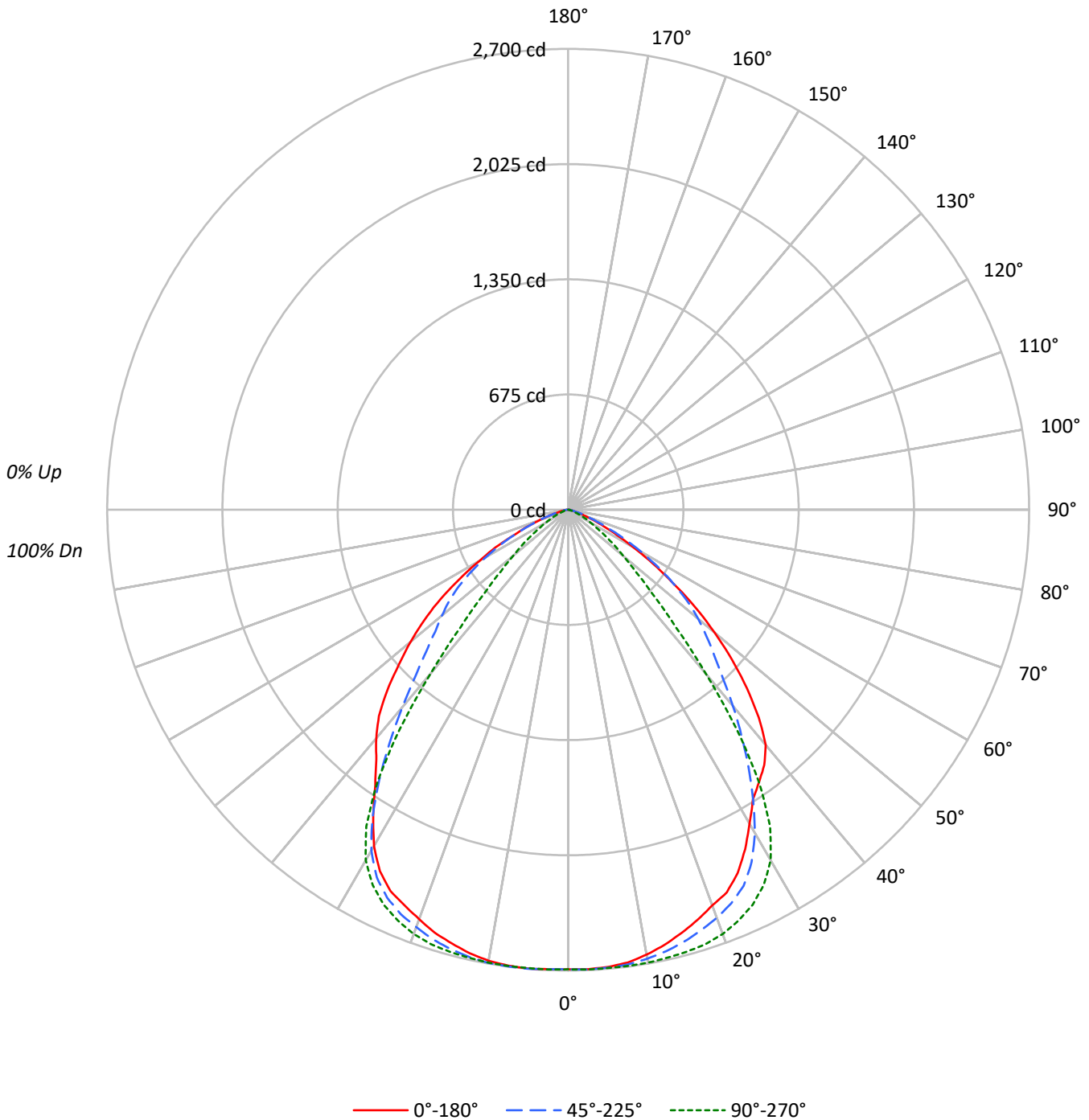
Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	52	50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34			

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°	257.0	5.0
10°-20°	746.4	14.6
20°-30°	1132.8	22.2
30°-40°	1189.8	23.3
40°-50°	892.1	17.5
50°-60°	572.4	11.2
60°-70°	244.8	4.8
70°-80°	57.8	1.1
80°-90°	10.7	0.2
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°	2136.2	41.9
0°-40°	3326.0	65.2
0°-60°	4790.5	93.9
0°-90°	5103.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5103.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2693	2693	2693	2693	2693	
5°	2689	2693	2696	2700	2699	255
15°	2567	2621	2681	2664	2631	724
25°	2349	2431	2554	2508	2464	1073
35°	1948	1840	1950	1927	1970	1223
45°	1480	1210	695	1175	1500	1134
55°	749	749	259	781	912	679
65°	226	266	82	343	348	241
75°	35	40	12	69	68	51
85°	12	7	6	12	16	12
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°	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0
2.5°	2694.3	2697.2	2695.8	2695.8	2694.3	2695.8	2695.8	2698.7	2698.7	2695.8	2694.3
5°	2688.6	2691.5	2691.5	2688.6	2688.6	2695.8	2691.5	2694.3	2694.3	2693.0	2693.0
7.5°	2675.6	2675.6	2681.3	2677.1	2677.1	2681.3	2679.9	2682.8	2685.7	2687.1	2687.1
10°	2646.7	2649.6	2651.1	2651.1	2652.5	2656.8	2659.7	2665.5	2668.3	2671.2	2672.7
12.5°	2610.6	2614.8	2616.3	2614.8	2619.2	2624.9	2632.2	2639.4	2643.8	2649.6	2654.0
15°	2567.2	2567.2	2570.0	2574.4	2577.3	2585.9	2593.2	2601.8	2613.4	2620.7	2627.8
17.5°	2519.4	2522.4	2526.7	2526.7	2532.5	2546.9	2551.3	2564.3	2577.3	2584.5	2599.0
20°	2467.4	2470.3	2474.7	2477.5	2484.8	2496.4	2505.0	2516.5	2531.0	2544.1	2558.5
22.5°	2427.0	2421.1	2424.1	2427.0	2434.3	2444.3	2454.4	2468.9	2483.4	2496.4	2510.8
25°	2348.9	2350.4	2354.7	2357.6	2366.2	2375.0	2386.5	2403.9	2416.9	2431.3	2447.1
27.5°	2243.3	2244.8	2252.1	2252.1	2259.3	2273.7	2280.9	2295.5	2312.7	2327.2	2346.0
30°	2123.4	2126.3	2126.3	2132.0	2136.4	2143.7	2150.9	2165.3	2174.0	2187.0	2213.1
32.5°	2013.5	2016.5	2015.0	2013.5	2009.2	2007.7	2006.4	2009.2	2012.1	2016.5	2026.5
35°	1948.5	1941.2	1935.5	1925.4	1913.8	1899.3	1886.3	1869.0	1853.1	1840.1	1825.7
37.5°	1886.3	1884.8	1876.2	1861.8	1838.7	1812.7	1782.3	1744.7	1707.1	1666.6	1627.6
40°	1799.7	1795.3	1788.1	1767.8	1741.8	1710.0	1669.5	1623.3	1562.6	1500.5	1436.8
42.5°	1652.1	1653.6	1645.0	1629.0	1604.5	1574.1	1532.2	1481.6	1416.6	1342.8	1260.5
45°	1480.2	1480.2	1477.3	1464.3	1446.9	1422.3	1390.6	1348.7	1285.0	1209.9	1121.7
47.5°	1300.9	1302.4	1298.0	1295.2	1287.9	1272.0	1248.9	1217.1	1172.3	1100.0	1011.8
50°	1118.8	1118.8	1126.0	1124.6	1124.6	1118.8	1108.7	1089.8	1050.8	993.1	910.7
52.5°	936.7	939.5	943.9	949.7	956.9	968.4	956.9	948.3	923.7	878.9	808.0
55°	748.7	751.6	758.9	769.0	777.6	789.3	792.1	792.1	779.1	748.7	695.2
57.5°	588.3	583.9	589.8	598.4	610.0	621.6	630.2	640.3	638.9	618.7	575.3
60°	442.3	443.8	448.1	456.8	465.4	475.5	487.2	495.8	500.2	490.0	462.5
62.5°	322.4	322.4	328.1	336.7	341.1	355.6	362.8	367.1	371.5	370.0	352.7
65°	225.5	228.3	231.3	235.6	239.9	248.6	253.0	261.6	264.6	266.0	253.0
67.5°	159.1	154.7	157.6	160.4	164.8	170.6	179.2	179.2	183.5	183.5	174.9
70°	101.2	101.2	102.7	106.9	109.9	111.3	114.2	117.0	121.4	119.9	119.9
72.5°	67.9	66.5	67.9	69.4	70.8	75.1	75.1	76.6	79.5	80.9	75.1
75°	34.8	36.1	39.0	37.6	41.9	39.0	40.5	44.8	43.4	40.5	40.5
77.5°	28.9	28.9	28.9	27.5	30.4	30.4	28.9	31.8	30.4	30.4	28.9
80°	20.2	21.6	20.2	18.8	20.2	18.8	18.8	18.8	18.8	18.8	17.4
82.5°	15.9	13.0	14.5	13.0	14.5	14.5	13.0	11.5	11.5	13.0	11.5
85°	11.5	8.6	10.1	10.1	8.6	8.6	8.6	8.6	8.6	7.2	7.2
87.5°	7.2	4.4	4.4	4.4	5.7	5.7	5.7	4.4	5.7	5.7	2.9
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: P249397

CATALOG NUMBER: LSR8B60D010 EC8B60930 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0
2.5°	2697.2	2695.8	2698.7	2697.2	2697.2	2695.8	2697.2	2695.8	2698.7	2693.0	2694.3
5°	2697.2	2694.3	2695.8	2697.2	2698.7	2695.8	2695.8	2695.8	2698.7	2695.8	2697.2
7.5°	2691.5	2690.1	2694.3	2697.2	2695.8	2694.3	2697.2	2695.8	2698.7	2697.2	2700.2
10°	2679.9	2681.3	2684.2	2688.6	2690.1	2691.5	2694.3	2694.3	2698.7	2693.0	2695.8
12.5°	2662.6	2668.3	2675.6	2678.4	2684.2	2684.2	2687.1	2688.6	2691.5	2690.1	2694.3
15°	2640.9	2648.1	2656.8	2664.1	2671.2	2675.6	2679.9	2681.3	2685.7	2681.3	2682.8
17.5°	2614.8	2623.6	2636.6	2645.2	2656.8	2661.1	2666.9	2669.8	2674.1	2671.2	2672.7
20°	2578.7	2588.8	2603.3	2616.3	2623.6	2633.7	2640.9	2645.2	2648.1	2645.2	2646.7
22.5°	2528.2	2542.7	2561.4	2571.5	2585.9	2594.7	2596.1	2606.2	2613.4	2606.2	2609.1
25°	2468.9	2483.4	2497.8	2519.4	2532.5	2542.7	2552.7	2554.2	2561.4	2559.9	2558.5
27.5°	2370.6	2389.4	2414.0	2431.3	2448.6	2464.5	2476.1	2479.0	2486.3	2483.4	2484.8
30°	2236.2	2256.5	2279.6	2307.0	2331.6	2347.5	2361.9	2372.0	2379.2	2375.0	2373.5
32.5°	2045.4	2065.6	2090.2	2117.6	2146.6	2169.7	2187.0	2200.1	2208.7	2205.8	2198.6
35°	1827.1	1832.8	1848.8	1870.5	1895.1	1919.6	1935.5	1950.0	1960.1	1963.0	1963.0
37.5°	1603.0	1584.3	1572.7	1572.7	1587.1	1597.2	1611.7	1620.4	1636.3	1642.0	1646.4
40°	1386.2	1342.8	1302.4	1272.0	1251.8	1250.4	1250.4	1254.6	1269.1	1287.9	1305.3
42.5°	1192.5	1123.1	1061.0	1004.6	964.2	941.0	930.9	932.3	943.9	961.3	990.2
45°	1037.8	951.2	873.0	805.1	750.2	714.1	696.7	695.2	704.0	724.2	756.0
47.5°	917.9	825.4	737.2	659.1	599.8	560.8	540.7	534.8	540.7	559.4	596.9
50°	818.1	722.7	631.7	550.7	487.2	446.7	427.9	420.6	427.9	443.8	481.4
52.5°	725.6	627.3	542.0	464.0	396.0	361.4	341.1	336.7	341.1	360.0	390.3
55°	618.7	534.8	451.0	373.0	313.7	279.0	263.1	258.7	263.1	280.5	312.2
57.5°	513.2	440.9	367.1	296.3	245.7	215.3	200.9	195.2	205.3	216.8	254.4
60°	414.9	357.0	294.8	232.7	190.8	163.3	151.8	150.3	153.2	167.7	193.7
62.5°	325.2	277.6	228.3	177.8	143.2	131.5	117.0	115.7	118.5	127.2	147.4
65°	234.2	203.8	166.2	130.0	102.7	86.8	80.9	82.4	85.3	91.0	109.9
67.5°	163.3	141.7	115.7	91.0	70.8	63.6	57.8	56.4	57.8	67.9	78.0
70°	109.9	96.9	78.0	69.4	49.2	39.0	40.5	36.1	41.9	41.9	50.6
72.5°	72.3	63.6	52.0	40.5	34.8	27.5	27.5	26.0	28.9	30.4	37.6
75°	37.6	28.9	28.9	20.2	14.5	7.2	13.0	11.5	10.1	11.5	14.5
77.5°	26.0	21.6	20.2	15.9	14.5	11.5	11.5	11.5	11.5	13.0	14.5
80°	15.9	15.9	11.5	10.1	8.6	7.2	8.6	8.6	8.6	8.6	10.1
82.5°	10.1	8.6	8.6	7.2	7.2	5.7	5.7	5.7	5.7	5.7	8.6
85°	8.6	5.7	5.7	4.4	5.7	10.1	4.4	5.7	5.7	5.7	4.4
87.5°	2.9	4.4	4.4	4.4	2.9	1.5	2.9	4.4	4.4	7.2	5.7
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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CATALOG NUMBER: LSR8B60D010 EC8B60930 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0	2693.0
2.5°	2697.2	2698.7	2698.7	2697.2	2697.2	2694.3	2700.2	2695.8	2697.2	2703.1	2698.7
5°	2700.2	2701.6	2701.6	2700.2	2700.2	2700.2	2701.6	2701.6	2700.2	2698.7	2701.6
7.5°	2706.0	2704.5	2704.5	2701.6	2701.6	2698.7	2701.6	2697.2	2700.2	2697.2	2701.6
10°	2698.7	2700.2	2698.7	2697.2	2697.2	2695.8	2695.8	2691.5	2693.0	2688.6	2691.5
12.5°	2694.3	2693.0	2693.0	2690.1	2687.1	2684.2	2682.8	2678.4	2678.4	2668.3	2672.7
15°	2682.8	2684.2	2679.9	2674.1	2671.2	2664.1	2661.1	2655.3	2649.6	2642.3	2643.8
17.5°	2672.7	2668.3	2662.6	2656.8	2645.2	2639.4	2633.7	2624.9	2622.1	2613.4	2610.6
20°	2642.3	2639.4	2632.2	2622.1	2614.8	2601.8	2596.1	2587.4	2580.2	2571.5	2567.2
22.5°	2603.3	2600.4	2591.8	2581.7	2570.0	2564.3	2558.5	2542.7	2535.4	2526.7	2525.3
25°	2554.2	2549.8	2541.2	2529.6	2523.8	2507.9	2502.1	2490.5	2487.7	2479.0	2477.5
27.5°	2479.0	2473.3	2463.1	2448.6	2438.5	2428.4	2422.6	2414.0	2411.0	2402.4	2401.0
30°	2366.2	2359.0	2338.7	2333.0	2315.6	2305.6	2305.6	2294.0	2295.5	2289.6	2289.6
32.5°	2188.4	2176.9	2161.0	2149.4	2137.9	2132.0	2132.0	2127.8	2130.7	2130.7	2133.5
35°	1952.9	1937.0	1928.2	1921.1	1921.1	1926.8	1944.2	1948.5	1957.2	1964.4	1970.2
37.5°	1650.7	1649.3	1659.4	1668.0	1689.8	1714.3	1744.7	1770.7	1795.3	1812.7	1829.9
40°	1324.0	1360.2	1389.1	1429.6	1462.8	1510.5	1565.5	1610.2	1652.1	1682.5	1714.3
42.5°	1033.4	1079.7	1140.5	1199.7	1259.0	1324.0	1396.3	1458.5	1513.5	1555.4	1588.6
45°	805.1	868.8	942.4	1017.6	1094.2	1175.1	1250.4	1313.9	1371.8	1415.2	1448.3
47.5°	649.1	718.4	802.2	884.7	971.3	1056.7	1140.5	1195.4	1243.1	1277.8	1308.2
50°	536.3	610.0	698.2	792.1	878.9	964.2	1036.4	1089.8	1129.0	1159.2	1178.1
52.5°	448.1	526.2	620.1	714.1	800.7	878.9	943.9	984.4	1016.2	1037.8	1055.2
55°	370.0	445.3	533.4	621.6	706.8	780.6	834.0	864.4	889.0	902.0	912.0
57.5°	302.1	371.5	452.4	533.4	607.1	667.8	709.7	740.1	751.6	761.7	760.3
60°	237.1	302.1	375.9	445.3	508.8	557.9	588.3	605.7	614.3	618.7	615.8
62.5°	186.4	245.7	302.1	362.8	409.1	451.0	479.9	479.9	484.3	485.7	490.0
65°	138.8	183.5	232.7	277.6	315.1	342.6	358.5	362.8	368.6	367.1	364.2
67.5°	102.7	135.9	172.0	205.3	231.3	248.6	260.2	270.3	268.8	266.0	264.6
70°	70.8	92.5	124.3	144.5	163.3	180.7	183.5	185.0	186.4	187.9	185.0
72.5°	49.2	65.0	82.4	99.8	111.3	118.5	125.8	127.2	127.2	127.2	125.8
75°	24.5	33.3	49.2	56.4	66.5	69.4	75.1	75.1	79.5	73.8	72.3
77.5°	21.6	26.0	34.8	40.5	44.8	49.2	50.6	54.9	53.5	50.6	52.0
80°	13.0	15.9	21.6	24.5	30.4	31.8	33.3	34.8	33.3	34.8	34.8
82.5°	10.1	11.5	14.5	14.5	18.8	18.8	20.2	20.2	21.6	21.6	21.6
85°	5.7	10.1	8.6	17.4	11.5	11.5	14.5	17.4	14.5	14.5	17.4
87.5°	5.7	5.7	4.4	5.7	5.7	5.7	7.2	8.6	8.6	10.1	8.6
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: P249397

CATALOG NUMBER: LSR8B60D010 EC8B60930 8LBDW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2693.0	2693.0	2693.0	2693.0
2.5°	2697.2	2700.2	2695.8	2694.3
5°	2701.6	2701.6	2698.7	2698.7
7.5°	2701.6	2701.6	2697.2	2694.3
10°	2690.1	2690.1	2685.7	2682.8
12.5°	2668.3	2668.3	2666.9	2662.6
15°	2640.9	2640.9	2635.1	2630.8
17.5°	2603.3	2606.2	2599.0	2599.0
20°	2562.8	2561.4	2555.7	2552.7
22.5°	2520.9	2518.0	2516.5	2507.9
25°	2476.1	2473.3	2468.9	2464.5
27.5°	2399.5	2398.0	2393.7	2388.0
30°	2282.4	2280.9	2275.2	2275.2
32.5°	2130.7	2129.2	2123.4	2124.9
35°	1973.1	1978.9	1976.0	1970.2
37.5°	1841.6	1845.8	1848.8	1845.8
40°	1731.7	1744.7	1746.2	1749.1
42.5°	1614.6	1632.0	1637.8	1640.6
45°	1474.3	1490.3	1503.3	1500.5
47.5°	1331.3	1342.8	1354.4	1345.8
50°	1194.0	1201.2	1205.5	1205.5
52.5°	1063.8	1063.8	1062.5	1063.8
55°	915.0	915.0	909.2	912.0
57.5°	758.9	761.7	757.5	750.2
60°	614.3	607.1	604.2	599.8
62.5°	478.4	478.4	468.4	481.4
65°	358.5	354.1	349.8	348.3
67.5°	260.2	258.7	254.4	253.0
70°	183.5	177.8	176.3	173.4
72.5°	122.9	122.9	119.9	119.9
75°	75.1	67.9	66.5	67.9
77.5°	52.0	50.6	50.6	49.2
80°	34.8	33.3	36.1	31.8
82.5°	21.6	23.1	21.6	23.1
85°	14.5	17.4	15.9	15.9
87.5°	8.6	8.6	8.6	8.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)