

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: P245525

Luminaire Tested: **LSR8B50D010 EC8B50930 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245525
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: LSR8B50D010 EC8B50930 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4645.4 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

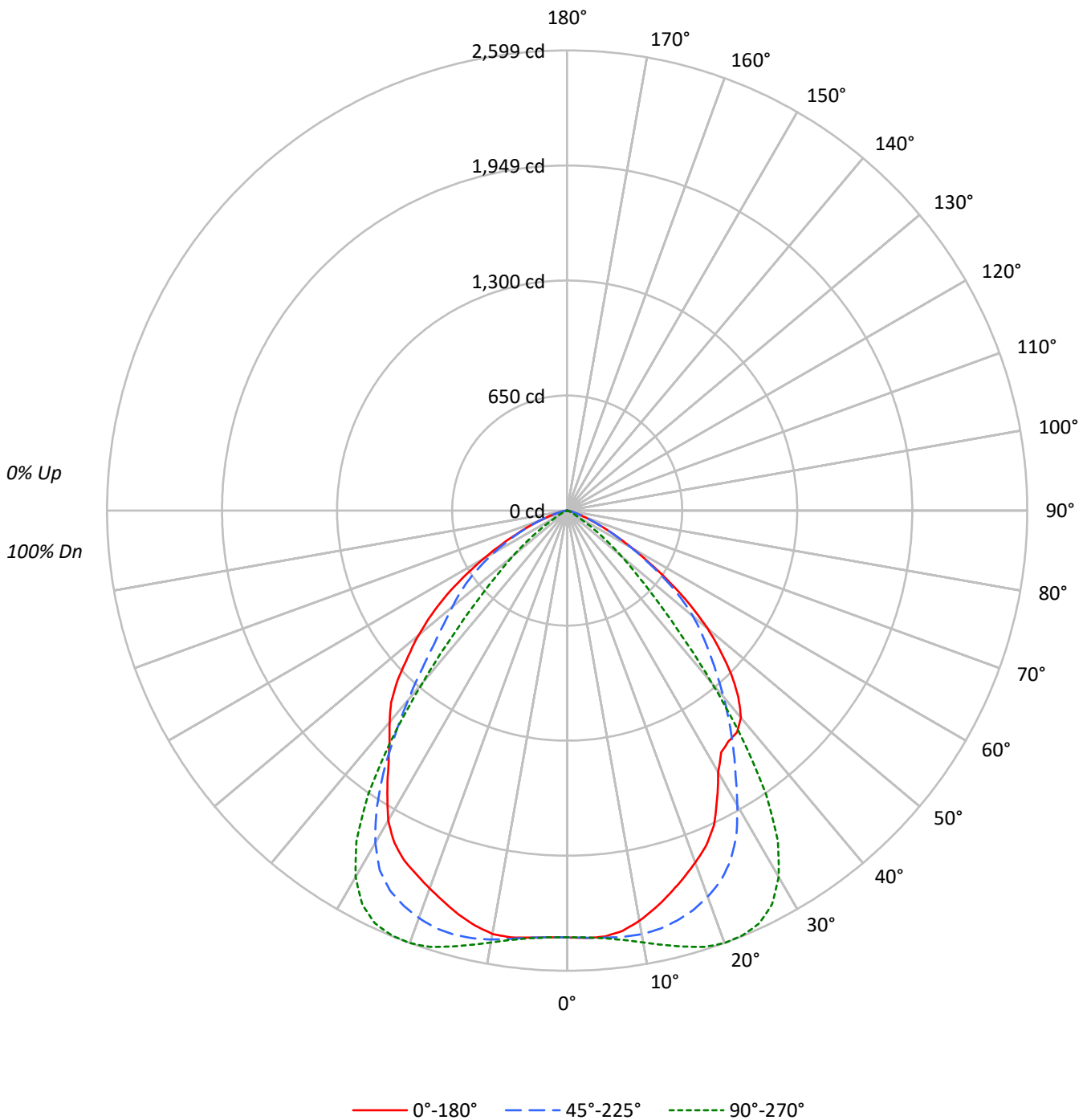
Input Watts (W): 53
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245525

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBDW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P24525

CATALOG NUMBER: LSR8B50D010 EC8B50930 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	0
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	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	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°			



TEST NUMBER: P245525

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBDW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.8	5.0
10°-20°	686.5	14.8
20°-30°	1047.4	22.5
30°-40°	1093.0	23.5
40°-50°	821.0	17.7
50°-60°	505.1	10.9
60°-70°	205.6	4.4
70°-80°	48.4	1.0
80°-90°	6.7	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°	1965.7	42.3
0°-40°	3058.7	65.8
0°-60°	4384.8	94.4
0°-90°	4645.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4645.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2410	2410	2410	2410	2410	
5°	2415	2421	2424	2421	2421	228
15°	2240	2397	2549	2479	2362	631
25°	1962	2182	2571	2368	2180	892
35°	1590	1635	1958	1810	1759	1004
45°	1312	1136	709	1058	1353	1001
55°	709	673	186	673	830	637
65°	221	224	28	300	318	231
75°	38	38	5	68	70	46
85°	4	4	1	9	12	5
90°	0	0	0	0	0	



TEST NUMBER: P245525

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBDW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9
2.5°	2416.3	2412.5	2416.3	2416.3	2417.5	2415.0	2416.3	2417.5	2415.0	2415.0	2415.0
5°	2415.0	2412.5	2415.0	2413.7	2416.3	2416.3	2418.9	2418.9	2421.4	2421.4	2425.3
7.5°	2394.6	2389.4	2394.6	2398.4	2401.0	2406.1	2412.5	2417.5	2422.7	2427.9	2434.3
10°	2352.3	2352.3	2356.1	2363.9	2371.5	2380.4	2392.0	2404.8	2417.5	2429.1	2440.6
12.5°	2299.8	2296.0	2303.8	2314.0	2325.5	2339.5	2357.5	2376.6	2397.1	2420.1	2438.1
15°	2239.8	2235.9	2244.9	2255.1	2269.2	2289.6	2311.4	2336.9	2366.4	2397.1	2426.5
17.5°	2178.3	2177.1	2186.1	2200.1	2211.6	2233.4	2261.5	2292.2	2325.5	2366.4	2404.8
20°	2115.7	2114.4	2123.4	2134.9	2150.2	2170.7	2198.8	2234.6	2274.3	2320.4	2365.1
22.5°	2050.4	2051.8	2059.4	2072.2	2085.1	2106.7	2136.2	2171.9	2215.4	2265.3	2315.2
25°	1962.2	1955.8	1966.0	1978.8	2000.5	2018.5	2046.6	2085.1	2129.8	2182.3	2241.1
27.5°	1834.3	1832.9	1842.0	1853.5	1872.6	1894.4	1925.1	1964.8	2012.1	2069.6	2127.2
30°	1706.4	1709.0	1712.8	1724.3	1737.1	1758.8	1789.6	1822.7	1867.6	1922.5	1983.9
32.5°	1619.4	1619.4	1624.6	1632.2	1641.1	1652.7	1674.4	1698.7	1733.3	1771.6	1816.4
35°	1589.9	1584.9	1589.9	1591.3	1592.5	1595.1	1598.9	1606.6	1618.1	1634.8	1651.3
37.5°	1577.1	1573.3	1573.3	1568.3	1561.8	1554.2	1544.0	1532.4	1519.6	1502.9	1490.3
40°	1527.3	1524.8	1522.2	1517.0	1502.9	1487.7	1471.0	1444.2	1414.7	1373.8	1332.9
42.5°	1431.4	1428.8	1427.5	1417.3	1404.5	1386.6	1367.4	1339.3	1302.2	1249.7	1190.8
45°	1312.4	1307.3	1303.5	1294.5	1285.6	1270.2	1252.3	1226.7	1189.6	1135.9	1065.5
47.5°	1174.2	1171.7	1170.4	1166.6	1157.7	1148.7	1137.1	1116.7	1083.4	1032.2	959.4
50°	1034.8	1029.8	1032.2	1031.0	1027.2	1020.8	1013.0	999.0	973.4	927.4	860.8
52.5°	874.9	874.9	873.7	877.5	878.8	877.5	878.8	863.4	841.6	807.1	750.8
55°	708.6	708.6	712.5	717.7	722.7	723.9	722.7	716.3	701.0	672.8	622.9
57.5°	552.5	550.1	557.7	565.3	570.5	575.6	571.7	566.7	557.7	534.7	496.3
60°	420.8	420.8	426.0	431.0	436.2	441.3	440.0	438.8	431.0	415.7	385.1
62.5°	309.5	310.9	310.9	314.7	319.8	324.9	328.7	324.9	321.1	310.9	290.3
65°	221.3	220.1	221.3	225.1	229.0	234.1	236.6	235.4	231.5	223.9	208.5
67.5°	148.4	147.1	152.2	153.5	156.0	161.2	159.9	161.2	159.9	153.5	140.7
70°	97.2	94.6	97.2	96.0	99.8	101.1	103.6	104.9	103.6	99.8	96.0
72.5°	60.1	58.9	60.1	61.4	62.7	63.9	66.5	66.5	65.2	62.7	57.5
75°	38.3	34.5	35.8	33.3	35.8	35.8	38.3	39.7	38.3	38.3	35.8
77.5°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	24.3	25.6	23.0	21.7
80°	11.5	11.5	12.8	12.8	12.8	14.1	12.8	12.8	12.8	14.1	10.2
82.5°	9.0	7.6	7.6	7.6	9.0	7.6	7.6	7.6	7.6	7.6	7.6
85°	3.8	5.2	3.8	2.6	3.8	3.8	5.2	3.8	3.8	3.8	5.2
87.5°	1.2	1.2	0.0	0.0	0.0	1.2	0.0	1.2	1.2	2.6	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: P245525

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9
2.5°	2416.3	2413.7	2413.7	2412.5	2415.0	2412.5	2413.7	2412.5	2412.5	2415.0	2412.5
5°	2425.3	2426.5	2423.9	2422.7	2426.5	2426.5	2426.5	2423.9	2423.9	2425.3	2423.9
7.5°	2438.1	2440.6	2441.9	2443.1	2445.7	2447.0	2447.0	2445.7	2444.5	2448.3	2443.1
10°	2452.1	2456.0	2463.6	2467.4	2473.8	2473.8	2476.4	2476.4	2473.8	2476.4	2475.2
12.5°	2447.0	2470.0	2482.8	2491.8	2500.7	2508.3	2510.9	2512.3	2510.9	2516.1	2510.9
15°	2456.0	2475.2	2495.6	2510.9	2527.5	2536.5	2539.1	2549.3	2551.8	2553.2	2545.5
17.5°	2441.9	2476.4	2498.1	2521.1	2545.5	2562.2	2577.4	2583.9	2585.1	2587.7	2577.4
20°	2409.9	2448.3	2481.6	2514.7	2542.9	2568.5	2581.3	2599.2	2594.1	2604.3	2590.3
22.5°	2366.4	2409.9	2452.1	2495.6	2525.1	2555.8	2582.6	2595.3	2601.7	2601.7	2586.4
25°	2297.4	2348.5	2394.6	2439.3	2484.1	2521.1	2551.8	2571.0	2574.9	2573.6	2555.8
27.5°	2189.9	2244.9	2298.6	2349.8	2404.8	2448.3	2484.1	2507.1	2513.5	2513.5	2494.3
30°	2041.5	2100.3	2152.8	2214.2	2270.5	2319.1	2369.0	2389.4	2401.0	2401.0	2379.2
32.5°	1865.0	1914.9	1963.4	2023.6	2085.1	2140.0	2187.3	2215.4	2229.6	2228.2	2209.0
35°	1673.1	1697.4	1734.5	1779.3	1834.3	1885.4	1931.5	1958.4	1982.7	1981.4	1963.4
37.5°	1481.2	1474.8	1478.7	1495.3	1529.8	1565.7	1601.5	1627.1	1647.5	1656.5	1652.7
40°	1293.2	1259.9	1227.9	1216.5	1219.0	1231.8	1251.0	1270.2	1293.2	1304.7	1309.9
42.5°	1124.4	1068.1	1011.8	969.6	945.2	937.6	946.6	953.0	967.0	983.7	1000.3
45°	988.8	913.3	839.1	773.9	732.9	708.6	703.5	708.6	716.3	732.9	754.7
47.5°	877.5	789.2	706.1	633.1	573.1	541.1	532.1	529.6	537.2	552.5	582.0
50°	779.0	690.8	598.6	514.2	451.5	415.7	402.9	397.8	406.7	418.2	445.1
52.5°	671.6	584.6	489.9	408.0	342.8	305.7	291.7	283.9	289.1	304.5	331.3
55°	555.1	474.5	388.9	304.5	241.8	207.3	190.6	185.5	190.6	207.3	234.1
57.5°	438.8	370.9	299.3	220.1	163.8	129.3	112.5	107.4	121.5	127.9	156.0
60°	342.8	287.9	226.4	161.2	112.5	85.6	69.1	65.2	71.6	83.2	106.2
62.5°	257.2	222.5	174.0	115.1	83.2	55.0	46.1	42.3	46.1	55.0	73.0
65°	186.8	159.9	121.5	84.4	56.3	40.9	30.7	28.1	31.9	38.3	53.7
67.5°	127.9	107.4	84.4	58.9	38.3	25.6	21.7	21.7	23.0	28.1	39.7
70°	83.2	70.4	53.7	38.3	25.6	19.2	16.6	14.1	16.6	20.5	26.9
72.5°	52.5	44.7	34.5	26.9	19.2	14.1	11.5	10.2	12.8	15.4	20.5
75°	31.9	24.3	17.9	14.1	10.2	10.2	10.2	5.2	6.4	10.2	12.8
77.5°	19.2	16.6	14.1	11.5	9.0	5.2	5.2	5.2	6.4	7.6	11.5
80°	10.2	9.0	6.4	6.4	5.2	3.8	5.2	3.8	2.6	6.4	7.6
82.5°	6.4	5.2	5.2	5.2	6.4	2.6	3.8	2.6	3.8	5.2	3.8
85°	3.8	3.8	3.8	2.6	6.4	2.6	2.6	1.2	1.2	2.6	2.6
87.5°	0.0	1.2	1.2	0.0	1.2	0.0	1.2	1.2	1.2	1.2	1.2
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: P245525

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9	2409.9
2.5°	2413.7	2412.5	2413.7	2412.5	2412.5	2412.5	2413.7	2413.7	2412.5	2412.5	2415.0
5°	2423.9	2423.9	2423.9	2422.7	2421.4	2421.4	2423.9	2423.9	2420.1	2423.9	2423.9
7.5°	2445.7	2441.9	2445.7	2440.6	2438.1	2439.3	2440.6	2438.1	2435.5	2436.7	2436.7
10°	2473.8	2470.0	2470.0	2466.2	2462.4	2459.8	2457.2	2450.8	2444.5	2443.1	2438.1
12.5°	2507.1	2500.7	2496.9	2489.2	2482.8	2473.8	2466.2	2456.0	2443.1	2434.3	2425.3
15°	2540.4	2530.1	2521.1	2508.3	2494.3	2479.0	2462.4	2445.7	2425.3	2407.3	2392.0
17.5°	2567.2	2553.2	2536.5	2516.1	2495.6	2472.6	2448.3	2423.9	2394.6	2371.5	2353.7
20°	2576.2	2555.8	2534.0	2507.1	2480.2	2448.3	2417.5	2385.6	2352.3	2328.0	2307.6
22.5°	2564.7	2540.4	2513.5	2485.4	2449.5	2415.0	2379.2	2342.1	2312.6	2279.4	2260.3
25°	2532.7	2503.3	2473.8	2440.6	2406.1	2367.7	2329.3	2291.0	2255.1	2237.2	2213.0
27.5°	2467.4	2435.5	2403.5	2369.0	2329.3	2291.0	2251.3	2214.2	2183.5	2159.2	2145.1
30°	2352.3	2315.2	2278.1	2241.1	2206.5	2166.9	2129.8	2099.1	2068.4	2049.2	2035.1
32.5°	2175.7	2142.6	2105.5	2069.6	2037.6	2004.5	1973.7	1946.8	1925.1	1912.3	1902.1
35°	1937.9	1904.6	1876.4	1850.9	1824.1	1810.0	1790.8	1775.4	1766.5	1761.4	1760.1
37.5°	1638.6	1619.4	1610.4	1605.3	1600.2	1596.4	1598.9	1605.3	1610.4	1619.4	1629.6
40°	1318.7	1335.4	1340.5	1358.4	1375.0	1396.8	1421.1	1449.2	1472.3	1501.7	1522.2
42.5°	1027.2	1057.9	1093.6	1132.0	1173.0	1212.6	1261.2	1306.0	1346.9	1384.0	1416.0
45°	789.2	836.5	890.3	945.2	1000.3	1057.9	1116.7	1171.7	1220.3	1259.9	1293.2
47.5°	615.3	667.7	736.8	804.5	871.1	938.8	1004.1	1061.7	1102.6	1141.0	1170.4
50°	487.3	547.5	622.9	701.0	773.9	845.5	914.6	968.3	1009.2	1040.0	1061.7
52.5°	377.3	449.0	525.7	607.6	685.6	763.6	827.6	877.5	910.7	937.6	954.2
55°	281.4	351.8	433.6	518.0	597.4	672.8	732.9	776.4	805.9	821.2	830.2
57.5°	203.3	267.4	349.2	433.6	505.2	576.9	625.5	665.2	681.8	690.8	694.6
60°	148.4	207.3	280.1	353.0	420.8	478.4	520.6	547.5	560.3	565.3	564.1
62.5°	108.7	159.9	222.5	283.9	339.0	386.3	419.6	437.4	443.9	446.4	442.6
65°	83.2	122.7	176.6	223.9	266.0	300.5	324.9	336.4	340.2	339.0	336.4
67.5°	61.4	92.1	131.7	167.6	198.3	225.1	237.9	248.2	250.7	246.8	243.0
70°	43.5	67.8	96.0	120.3	143.3	158.6	172.6	174.0	174.0	172.6	170.2
72.5°	30.7	47.3	65.2	81.8	96.0	107.4	112.5	116.4	115.1	113.8	111.3
75°	20.5	29.4	47.3	51.1	63.9	67.8	73.0	73.0	74.2	70.4	70.4
77.5°	12.8	20.5	28.1	33.3	38.3	43.5	46.1	46.1	47.3	46.1	46.1
80°	7.6	12.8	15.4	23.0	23.0	26.9	28.1	29.4	26.9	30.7	26.9
82.5°	5.2	7.6	11.5	11.5	14.1	16.6	16.6	17.9	17.9	16.6	16.6
85°	3.8	5.2	6.4	7.6	7.6	9.0	7.6	7.6	9.0	10.2	9.0
87.5°	1.2	2.6	1.2	2.6	2.6	5.2	3.8	3.8	3.8	5.2	5.2
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: P245525

CATALOG NUMBER: LSR8B50D010 EC8B50930 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2409.9	2409.9	2409.9	2409.9
2.5°	2412.5	2413.7	2412.5	2412.5
5°	2423.9	2422.7	2423.9	2421.4
7.5°	2432.9	2432.9	2431.7	2431.7
10°	2432.9	2427.9	2427.9	2427.9
12.5°	2413.7	2407.3	2403.5	2401.0
15°	2380.4	2369.0	2363.9	2362.5
17.5°	2336.9	2326.7	2320.4	2316.5
20°	2287.1	2276.9	2269.2	2270.5
22.5°	2243.6	2232.1	2227.0	2224.4
25°	2200.1	2186.1	2182.3	2179.7
27.5°	2129.8	2122.1	2118.2	2114.4
30°	2022.3	2018.5	2012.1	2021.1
32.5°	1898.3	1891.8	1886.8	1890.6
35°	1761.4	1757.5	1761.4	1758.8
37.5°	1636.0	1639.8	1645.0	1647.5
40°	1537.6	1551.6	1556.7	1559.2
42.5°	1439.0	1455.6	1465.9	1472.3
45°	1317.5	1334.1	1345.6	1353.4
47.5°	1192.2	1206.2	1217.7	1216.5
50°	1078.3	1086.0	1091.1	1096.2
52.5°	963.2	963.2	964.5	964.5
55°	832.7	830.2	828.9	830.2
57.5°	689.4	686.9	685.6	681.8
60°	559.0	551.3	546.2	546.2
62.5°	437.4	428.6	424.6	423.4
65°	328.7	327.4	319.8	318.5
67.5°	237.9	232.8	227.7	229.0
70°	167.6	159.9	159.9	157.4
72.5°	108.7	104.9	103.6	103.6
75°	67.8	67.8	65.2	70.4
77.5°	44.7	44.7	43.5	44.7
80°	26.9	26.9	26.9	25.6
82.5°	16.6	17.9	16.6	16.6
85°	9.0	10.2	7.6	11.5
87.5°	5.2	6.4	5.2	6.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)