

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: P#

Luminaire Tested: **LD4C50D010 EX4C509035 4LBSQLWWLI**

Issue Date: 2/18/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P219529)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C50D010 EX4C509035 4LBSQLWWLI  
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

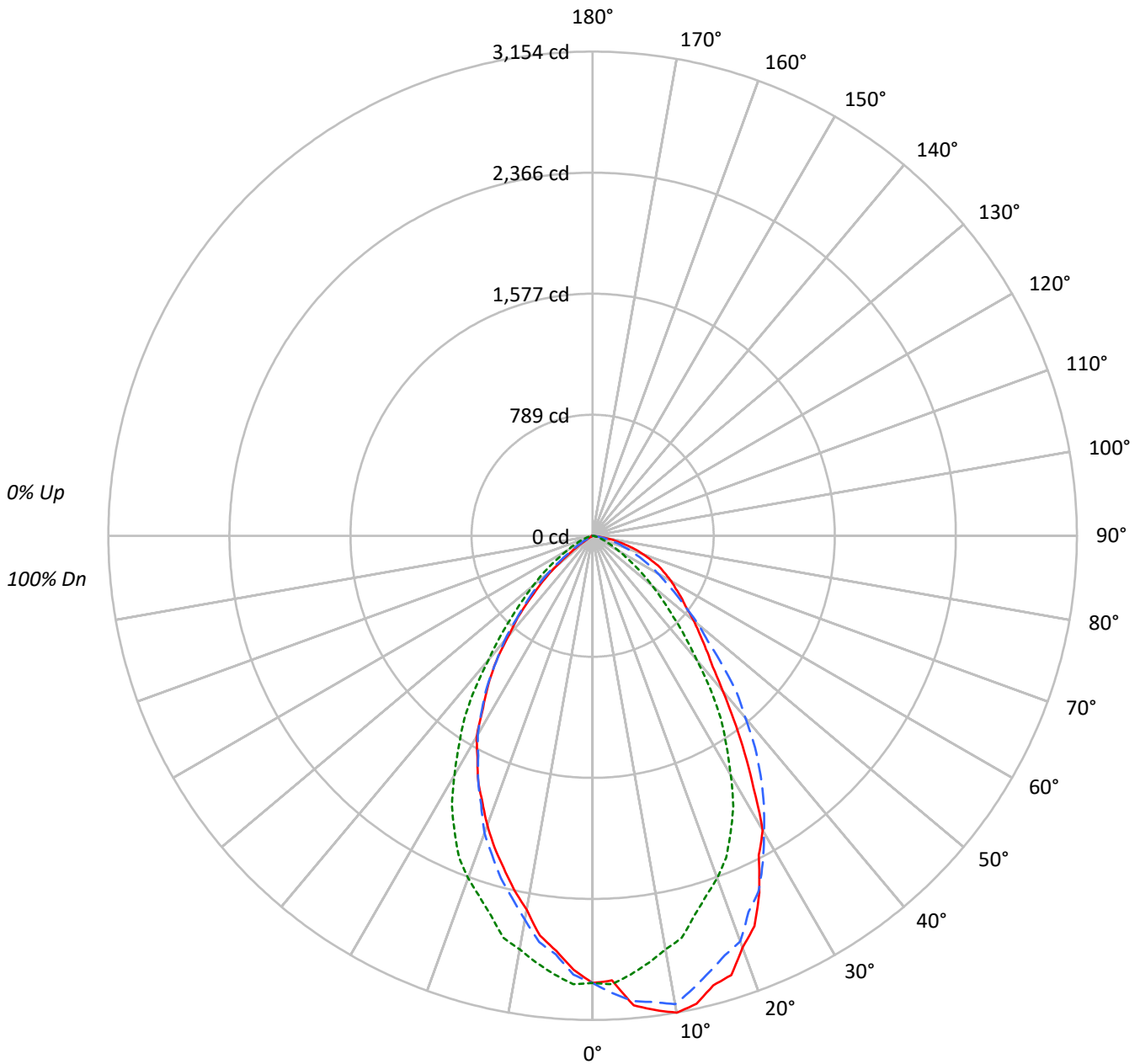
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4176.0 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1 / 1.06  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 58.4  
Input Voltage (V):  
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	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	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	54	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	281101	281101	281101
5°	297401	277787	262900
10°	309060	267988	242308
15°	302885	255775	223670
20°	293053	243550	205886
25°	273356	226480	187813
30°	246764	200437	168138
35°	203260	171586	139488
40°	165886	132444	107353
45°	142528	100582	77220
50°	128990	76571	48771
55°	118698	55228	17630
60°	113934	37746	2702
65°	110046	25525	822
70°	98543	17717	1016
75°	80749	9134	0
80°	50509	3890	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.0	6.5
10°-20°	735.4	17.6
20°-30°	982.0	23.5
30°-40°	932.2	22.3
40°-50°	644.4	15.4
50°-60°	356.0	8.5
60°-70°	176.8	4.2
70°-80°	69.7	1.7
80°-90°	6.6	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°	1990.3	47.7
0°-40°	2922.5	70.0
0°-60°	3922.9	93.9
0°-90°	4176.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4176.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2913	2913	2913	2913	2913	
5°	3070	3043	2868	2739	2714	294
15°	3032	2941	2560	2309	2239	858
25°	2568	2557	2127	1764	1764	1171
35°	1726	1907	1457	1198	1184	1081
45°	1044	1198	737	604	566	815
55°	706	664	328	168	105	635
65°	482	349	112	4	4	468
75°	217	133	24	0	0	231
85°	0	4	0	0	0	20
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°	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3
2.5°	2899.3	2979.6	2986.6	2979.6	2990.2	2986.6	3004.1	2986.6	3007.7	2976.2	2983.2
5°	3070.5	3039.0	3105.4	3070.5	3070.5	3067.1	3056.6	3053.0	3067.1	3021.7	3042.6
7.5°	3116.0	3161.4	3220.8	3147.4	3150.9	3150.9	3129.9	3122.9	3122.9	3039.0	3063.5
10°	3154.4	3126.4	3157.8	3129.9	3154.4	3150.9	3164.8	3119.4	3150.9	3102.0	3098.4
12.5°	3122.9	3112.4	3154.4	3109.0	3095.0	3098.4	3081.1	3070.5	3081.1	3025.1	3021.7
15°	3032.1	3042.6	3105.4	3056.6	3049.6	3042.6	3021.7	2986.6	3014.7	2937.8	2941.3
17.5°	3000.7	2983.2	2993.7	2951.7	2962.3	2955.3	2951.7	2920.4	2913.3	2864.4	2864.4
20°	2854.0	2892.3	2892.3	2864.4	2864.4	2861.0	2815.6	2843.5	2812.0	2798.0	2812.0
22.5°	2752.6	2756.2	2756.2	2731.7	2735.2	2721.3	2696.8	2679.2	2696.8	2679.2	2651.3
25°	2567.6	2574.6	2616.4	2571.0	2564.0	2578.0	2557.0	2546.5	2543.1	2501.2	2557.0
27.5°	2343.9	2413.7	2410.3	2392.8	2413.7	2385.8	2375.4	2378.8	2389.4	2385.8	2399.8
30°	2214.8	2225.2	2235.7	2221.7	2225.2	2214.8	2214.8	2218.2	2246.1	2235.7	2232.1
32.5°	1952.7	1987.6	2015.6	2015.6	2019.1	2029.6	2026.0	2099.4	2116.9	2082.0	2075.0
35°	1725.6	1750.1	1774.5	1778.0	1823.5	1826.9	1830.5	1851.4	1900.3	1910.8	1907.2
37.5°	1509.1	1533.5	1540.5	1571.9	1596.4	1620.8	1648.9	1676.8	1718.6	1753.5	1736.2
40°	1317.0	1327.4	1344.9	1358.9	1407.7	1407.7	1421.7	1477.6	1523.1	1551.0	1547.4
42.5°	1156.3	1159.7	1173.7	1198.2	1243.6	1233.1	1243.6	1282.1	1348.3	1351.9	1390.3
45°	1044.5	1040.9	1051.5	1054.9	1082.9	1096.9	1103.9	1131.8	1187.6	1194.6	1198.2
47.5°	943.2	939.7	957.2	964.2	974.6	988.5	988.5	992.1	1013.0	1030.5	1016.6
50°	859.3	859.3	859.3	866.3	883.8	880.3	883.8	897.8	908.2	901.2	897.8
52.5°	768.5	782.4	792.9	796.5	799.9	799.9	803.5	796.5	792.9	782.4	761.5
55°	705.6	719.6	719.6	719.6	719.6	733.6	716.2	719.6	719.6	691.7	663.8
57.5°	642.8	656.8	667.2	653.2	667.2	653.2	646.2	642.8	635.7	607.8	565.9
60°	590.4	597.4	593.8	590.4	597.4	586.8	579.9	565.9	558.9	520.5	492.5
62.5°	531.0	534.4	538.0	531.0	524.0	520.5	506.5	485.6	471.6	440.1	415.6
65°	482.0	471.6	468.1	464.6	457.6	447.1	436.7	412.2	401.7	373.8	349.3
67.5°	408.7	405.2	412.2	401.7	384.3	384.3	373.8	352.8	328.3	310.9	286.4
70°	349.3	345.8	338.9	328.3	324.9	310.9	310.9	286.4	279.5	248.0	227.0
72.5°	286.4	286.4	275.9	265.5	255.0	248.0	244.6	227.0	216.6	199.1	181.6
75°	216.6	216.6	213.1	202.5	195.6	188.6	185.2	171.2	160.7	143.3	132.8
77.5°	153.7	153.7	139.7	132.8	136.2	129.2	122.2	118.8	115.2	104.8	90.9
80°	90.9	87.3	76.9	80.3	76.9	76.9	73.4	69.8	62.8	55.8	48.9
82.5°	24.5	27.9	27.9	27.9	31.5	24.5	24.5	24.5	27.9	27.9	17.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6	3.6
87.5°	3.6	7.0	14.0	14.0	14.0	14.0	14.0	10.5	10.5	10.5	7.0
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3
2.5°	2948.3	2944.8	2948.3	2923.8	2979.6	2937.8	2930.8	2923.8	2948.3	2923.8	2888.9
5°	3011.1	2976.2	2965.7	2955.3	2986.6	2937.8	2927.4	2930.8	2913.3	2868.0	2871.4
7.5°	3032.1	3000.7	2969.2	2902.9	2930.8	2920.4	2892.3	2871.4	2843.5	2805.0	2798.0
10°	3039.0	3004.1	2958.7	2937.8	2895.9	2881.9	2871.4	2836.5	2801.6	2735.2	2717.7
12.5°	3018.1	2976.2	2920.4	2902.9	2871.4	2826.0	2801.6	2766.6	2735.2	2682.8	2644.3
15°	2927.4	2892.3	2875.0	2815.6	2801.6	2773.5	2724.7	2675.8	2630.4	2560.5	2539.5
17.5°	2822.5	2808.6	2791.1	2745.6	2742.2	2714.3	2668.8	2626.8	2567.6	2459.2	2424.3
20°	2714.3	2714.3	2658.3	2640.9	2675.8	2619.9	2585.0	2546.5	2424.3	2371.9	2309.0
22.5°	2633.9	2595.5	2564.0	2536.1	2539.5	2504.6	2455.8	2378.8	2333.4	2270.6	2197.2
25°	2476.7	2490.7	2420.9	2410.3	2420.9	2340.4	2316.0	2253.1	2186.7	2127.3	2071.5
27.5°	2378.8	2340.4	2295.1	2256.6	2256.6	2225.2	2155.4	2141.4	2040.0	1984.2	1914.2
30°	2232.1	2204.2	2165.8	2109.9	2102.9	2078.4	2022.6	1987.6	1882.9	1799.0	1760.5
32.5°	2047.0	2036.6	2005.1	1942.3	1921.3	1893.3	1823.5	1764.1	1715.2	1620.8	1575.5
35°	1914.2	1875.9	1809.5	1757.1	1739.6	1690.7	1634.8	1592.9	1540.5	1456.7	1397.3
37.5°	1715.2	1676.8	1613.8	1551.0	1551.0	1502.1	1425.2	1383.3	1310.0	1261.0	1212.1
40°	1540.5	1491.6	1428.8	1355.4	1344.9	1275.0	1243.6	1173.7	1128.2	1051.5	1044.5
42.5°	1344.9	1299.5	1243.6	1187.6	1145.8	1110.9	1030.5	978.1	929.3	890.8	880.3
45°	1166.7	1107.3	1058.5	988.5	946.6	904.8	852.3	817.4	779.0	737.1	712.6
47.5°	1013.0	964.2	894.2	831.4	789.5	768.5	709.1	670.7	639.3	611.3	593.8
50°	855.9	796.5	758.1	688.1	681.1	632.3	583.4	551.9	534.4	510.1	485.6
52.5°	737.1	681.1	628.7	576.4	548.4	531.0	485.6	454.1	429.7	412.2	398.3
55°	621.7	572.9	531.0	478.6	461.1	436.7	384.3	377.3	352.8	328.3	310.9
57.5°	534.4	489.0	440.1	405.2	373.8	356.4	314.4	286.4	272.5	251.5	234.0
60°	454.1	405.2	366.8	324.9	310.9	286.4	255.0	230.6	213.1	195.6	178.2
62.5°	380.7	338.9	297.0	261.9	241.0	227.0	202.5	181.6	164.2	150.3	136.2
65°	314.4	275.9	241.0	206.1	195.6	178.2	160.7	143.3	129.2	111.8	97.9
67.5°	258.5	223.6	188.6	164.2	153.7	146.7	125.8	108.3	97.9	87.3	73.4
70°	202.5	178.2	150.3	129.2	118.8	108.3	94.3	83.9	69.8	62.8	52.4
72.5°	157.2	136.2	111.8	94.3	87.3	80.3	66.4	55.8	48.9	41.9	34.9
75°	111.8	94.3	80.3	62.8	59.4	55.8	45.4	38.5	31.5	24.5	20.9
77.5°	76.9	62.8	48.9	41.9	38.5	31.5	27.9	20.9	17.5	14.0	10.5
80°	41.9	31.5	24.5	20.9	17.5	14.0	14.0	10.5	7.0	7.0	3.6
82.5°	14.0	10.5	7.0	3.6	3.6	3.6	3.6	3.6	3.6	0.0	3.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	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: P#

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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3
2.5°	2909.9	2871.4	2881.9	2881.9	2875.0	2875.0	2868.0	2857.4	2861.0	2839.9	2794.6
5°	2878.4	2829.5	2822.5	2829.5	2801.6	2794.6	2780.7	2801.6	2738.6	2763.1	2735.2
7.5°	2787.6	2742.2	2731.7	2756.2	2721.3	2700.2	2696.8	2724.7	2668.8	2640.9	2609.5
10°	2686.2	2668.8	2637.4	2619.9	2609.5	2612.9	2585.0	2550.1	2539.5	2532.5	2504.6
12.5°	2595.5	2557.0	2529.1	2508.2	2501.2	2501.2	2455.8	2448.8	2417.3	2410.3	2368.4
15°	2487.1	2441.8	2424.3	2396.4	2371.9	2385.8	2333.4	2319.5	2309.0	2263.6	2270.6
17.5°	2392.8	2343.9	2302.1	2284.6	2263.6	2242.7	2193.7	2204.2	2179.7	2179.7	2116.9
20°	2270.6	2218.2	2186.7	2151.8	2151.8	2123.9	2089.0	2092.4	2060.9	2029.6	1973.6
22.5°	2141.4	2085.4	2047.0	2033.0	1998.1	1991.1	1949.3	1938.7	1896.8	1900.3	1851.4
25°	2005.1	1949.3	1896.8	1900.3	1868.9	1855.0	1830.5	1781.6	1764.1	1743.1	1729.2
27.5°	1844.4	1806.0	1760.5	1757.1	1697.7	1701.1	1669.8	1655.8	1613.8	1624.4	1592.9
30°	1697.7	1641.9	1599.9	1589.5	1565.0	1558.0	1509.1	1488.0	1495.2	1467.1	1449.7
32.5°	1547.4	1463.7	1446.2	1425.2	1411.3	1393.8	1358.9	1372.8	1341.3	1348.3	1320.4
35°	1348.3	1313.4	1268.0	1268.0	1254.0	1240.1	1215.7	1229.7	1198.2	1184.2	1156.3
37.5°	1180.7	1149.3	1103.9	1117.8	1093.3	1072.4	1051.5	1054.9	1027.0	1023.6	995.5
40°	999.1	981.5	950.2	950.2	932.7	932.7	922.1	911.7	894.2	873.3	841.8
42.5°	827.8	813.9	799.9	803.5	779.0	799.9	772.0	789.5	733.6	730.1	709.1
45°	702.1	670.7	674.2	660.2	646.2	653.2	628.7	635.7	604.4	597.4	576.4
47.5°	569.5	558.9	538.0	531.0	531.0	520.5	510.1	506.5	492.5	475.0	447.1
50°	468.1	429.7	422.6	412.2	405.2	405.2	391.3	370.3	373.8	356.4	328.3
52.5°	366.8	335.3	321.3	317.9	304.0	297.0	279.5	265.5	255.0	248.0	230.6
55°	282.9	255.0	237.6	237.6	216.6	216.6	192.1	181.6	167.6	153.7	143.3
57.5°	213.1	199.1	181.6	167.6	160.7	143.3	129.2	111.8	101.3	80.3	66.4
60°	160.7	146.7	129.2	118.8	111.8	94.3	76.9	62.8	38.5	31.5	27.9
62.5°	118.8	104.8	87.3	80.3	73.4	59.4	41.9	20.9	10.5	10.5	10.5
65°	87.3	69.8	55.8	48.9	41.9	31.5	14.0	7.0	3.6	3.6	3.6
67.5°	59.4	45.4	31.5	27.9	20.9	10.5	3.6	3.6	3.6	3.6	3.6
70°	38.5	27.9	14.0	10.5	7.0	3.6	3.6	3.6	3.6	3.6	3.6
72.5°	24.5	14.0	7.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	14.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	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	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6	3.6	3.6
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: P#

CATALOG NUMBER: LD4C50D010 EX4C509035 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3	2913.3
2.5°	2843.5	2819.0	2832.9	2801.6	2815.6	2839.9	2822.5	2829.5
5°	2745.6	2731.7	2714.3	2668.8	2703.7	2731.7	2717.7	2714.3
7.5°	2640.9	2591.9	2616.4	2602.5	2595.5	2623.4	2591.9	2626.8
10°	2532.5	2497.6	2494.2	2469.7	2469.7	2490.7	2494.2	2473.1
12.5°	2371.9	2354.5	2354.5	2350.9	2347.4	2368.4	2371.9	2361.5
15°	2256.6	2249.7	2232.1	2228.7	2207.8	2239.1	2242.7	2239.1
17.5°	2116.9	2120.3	2102.9	2102.9	2116.9	2127.3	2099.4	2127.3
20°	2022.6	2005.1	1998.1	1966.6	1984.2	2001.7	2001.7	2005.1
22.5°	1886.3	1858.4	1868.9	1851.4	1840.9	1865.4	1865.4	1875.9
25°	1732.6	1732.6	1739.6	1729.2	1736.2	1750.1	1739.6	1764.1
27.5°	1585.9	1599.9	1599.9	1585.9	1592.9	1634.8	1652.3	1624.4
30°	1449.7	1453.1	1463.7	1456.7	1477.6	1491.6	1488.0	1509.1
32.5°	1296.0	1313.4	1320.4	1310.0	1317.0	1348.3	1330.9	1327.4
35°	1177.2	1145.8	1142.3	1145.8	1159.7	1166.7	1159.7	1184.2
37.5°	1006.0	995.5	981.5	985.1	995.5	1009.6	1016.6	1034.0
40°	841.8	827.8	827.8	824.4	813.9	852.3	852.3	852.3
42.5°	698.7	695.1	677.7	677.7	691.7	702.1	695.1	719.6
45°	572.9	558.9	548.4	548.4	558.9	558.9	569.5	565.9
47.5°	450.7	436.7	440.1	429.7	440.1	454.1	436.7	440.1
50°	338.9	338.9	331.9	338.9	335.3	338.9	331.9	324.9
52.5°	230.6	261.9	265.5	251.5	220.1	192.1	174.6	188.6
55°	132.8	118.8	118.8	115.2	108.3	104.8	94.3	104.8
57.5°	66.4	59.4	59.4	59.4	55.8	52.4	45.4	45.4
60°	27.9	24.5	24.5	20.9	17.5	14.0	10.5	14.0
62.5°	10.5	7.0	7.0	7.0	7.0	7.0	7.0	7.0
65°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
67.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
70°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)