

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: **LD4C55D010 EX4C559050 4LBSQLWWH**

Issue Date: 2/18/2022



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: LD4C55D010 EX4C559050 4LBSQLWWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

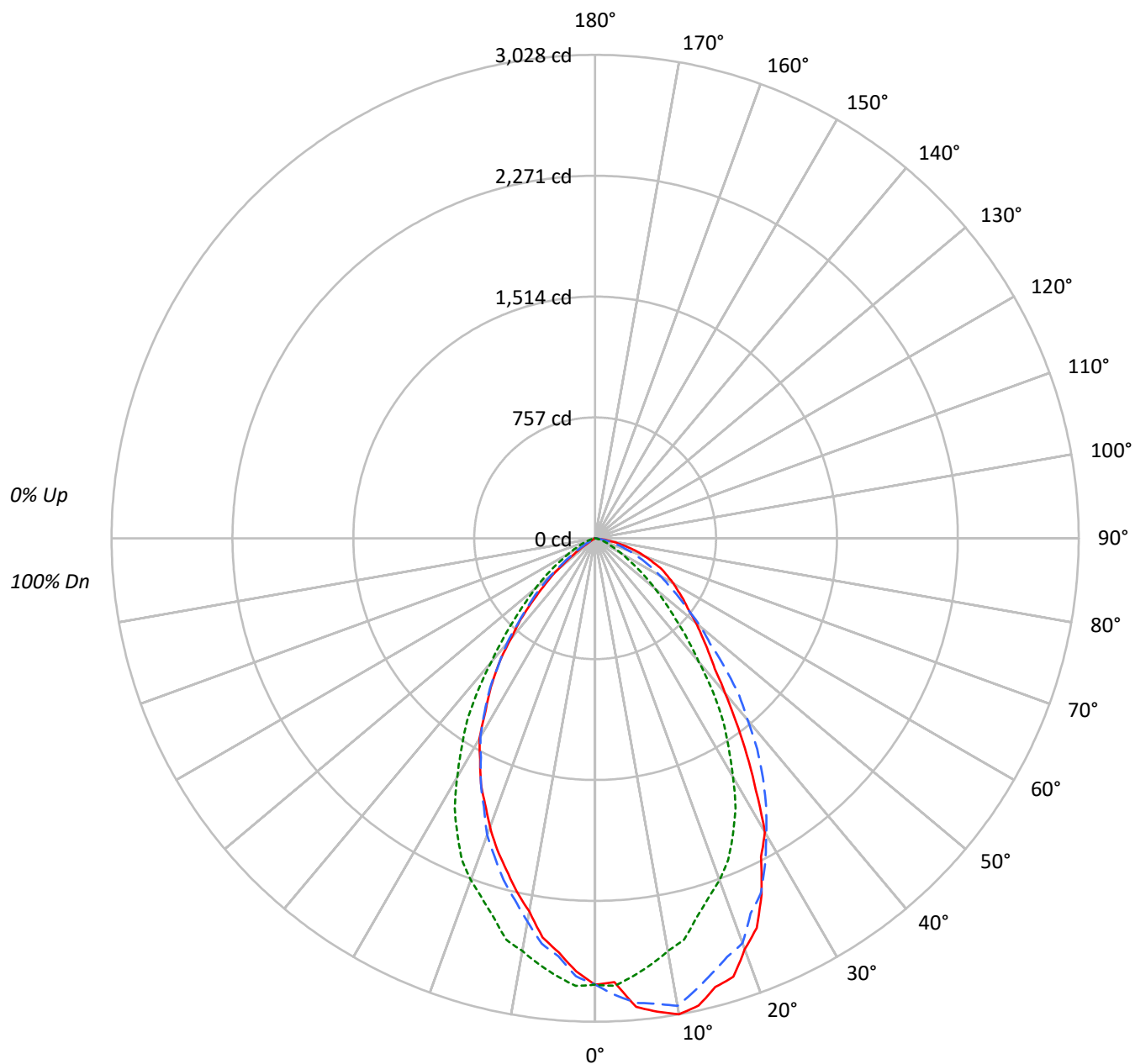
Lumens per Lamp: N/A
Luminaire Lumens: 4008.0 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1 / 1.06
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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

TEST NUMBER: P#

CATALOG NUMBER: LD4C55D010 EX4C559050 4LBSQLWWH

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80
4	91	81	74	69	89	80	74	69	78	72	68		76	71	67		74
5	85	75	67	62	83	74	67	62	72	66	61		70	65	60		68
6	80	69	61	56	78	68	61	56	66	60	55		65	59	55		63
7	75	63	56	51	73	63	56	51	61	55	50		60	54	50		59
8	70	59	52	47	69	58	51	46	57	51	46		56	50	46		55
9	66	55	48	43	65	54	47	43	53	47	43		52	46	42		51
10	62	51	44	40	61	51	44	40	50	44	39		49	43	39		48

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	269793	269793	269793
5°	285439	266610	252323
10°	296627	257210	232559
15°	290698	245476	214669
20°	281265	233744	197600
25°	262359	217367	180254
30°	236837	192370	161375
35°	195086	164684	133881
40°	159210	127116	103046
45°	136797	96543	74109
50°	123811	73479	46804
55°	113921	53007	16923
60°	109341	36222	2586
65°	105617	24498	776
70°	94565	17012	959
75°	77506	8761	0
80°	48453	3723	0
85°	0	0	0



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CATALOG NUMBER: LD4C55D010 EX4C559050 4LBSQLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.0	6.5
10°-20°	705.8	17.6
20°-30°	942.5	23.5
30°-40°	894.7	22.3
40°-50°	618.4	15.4
50°-60°	341.7	8.5
60°-70°	169.7	4.2
70°-80°	66.8	1.7
80°-90°	6.4	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°	1910.3	47.7
0°-40°	2804.9	70.0
0°-60°	3765.1	93.9
0°-90°	4008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4008.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2796	2796	2796	2796	2796	
5°	2947	2920	2753	2628	2605	282
15°	2910	2823	2457	2216	2149	823
25°	2464	2454	2042	1693	1693	1123
35°	1656	1830	1398	1150	1137	1038
45°	1002	1150	708	580	543	782
55°	677	637	315	161	101	610
65°	463	335	107	3	3	449
75°	208	127	24	0	0	222
85°	0	3	0	0	0	19
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°	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1
2.5°	2782.7	2859.8	2866.5	2859.8	2869.9	2866.5	2883.3	2866.5	2886.7	2856.5	2863.2
5°	2947.0	2916.8	2980.5	2947.0	2947.0	2943.7	2933.6	2930.2	2943.7	2900.1	2920.2
7.5°	2990.6	3034.2	3091.2	3020.8	3024.1	3024.1	3004.0	2997.3	2997.3	2916.8	2940.3
10°	3027.5	3000.6	3030.8	3004.0	3027.5	3024.1	3037.5	2993.9	3024.1	2977.2	2973.8
12.5°	2997.3	2987.2	3027.5	2983.9	2970.5	2973.8	2957.1	2947.0	2957.1	2903.4	2900.1
15°	2910.1	2920.2	2980.5	2933.6	2926.9	2920.2	2900.1	2866.5	2893.4	2819.6	2823.0
17.5°	2880.0	2863.2	2873.3	2833.0	2843.1	2836.4	2833.0	2802.9	2796.1	2749.2	2749.2
20°	2739.2	2776.0	2776.0	2749.2	2749.2	2745.9	2702.3	2729.1	2698.9	2685.5	2698.9
22.5°	2641.9	2645.3	2645.3	2621.8	2625.2	2611.8	2588.3	2571.5	2588.3	2571.5	2544.7
25°	2464.3	2471.0	2511.2	2467.6	2460.9	2474.3	2454.2	2444.1	2440.8	2400.6	2454.2
27.5°	2249.7	2316.6	2313.4	2296.5	2316.6	2289.8	2279.9	2283.1	2293.3	2289.8	2303.2
30°	2125.7	2135.6	2145.8	2132.4	2135.6	2125.7	2125.7	2128.9	2155.7	2145.8	2142.3
32.5°	1874.1	1907.6	1934.5	1934.5	1937.8	1947.9	1944.5	2014.9	2031.7	1998.2	1991.5
35°	1656.2	1679.7	1703.1	1706.5	1750.1	1753.4	1756.8	1776.9	1823.8	1833.9	1830.5
37.5°	1448.4	1471.8	1478.5	1508.7	1532.2	1555.6	1582.5	1609.3	1649.5	1683.0	1666.3
40°	1264.0	1274.0	1290.8	1304.2	1351.1	1351.1	1364.5	1418.2	1461.8	1488.6	1485.2
42.5°	1109.8	1113.1	1126.5	1150.0	1193.6	1183.5	1193.6	1230.5	1294.1	1297.5	1334.4
45°	1002.5	999.1	1009.2	1012.5	1039.4	1052.8	1059.5	1086.3	1139.9	1146.6	1150.0
47.5°	905.3	901.9	918.7	925.4	935.4	948.7	948.7	952.2	972.3	989.1	975.7
50°	824.8	824.8	824.8	831.5	848.3	844.9	848.3	861.7	871.6	864.9	861.7
52.5°	737.5	750.9	761.0	764.5	767.7	767.7	771.2	764.5	761.0	750.9	730.8
55°	677.2	690.6	690.6	690.6	690.6	704.0	687.4	690.6	690.6	663.8	637.1
57.5°	617.0	630.4	640.3	626.9	640.3	626.9	620.2	617.0	610.1	583.3	543.1
60°	566.6	573.3	569.9	566.6	573.3	563.2	556.5	543.1	536.4	499.5	472.7
62.5°	509.6	512.9	516.3	509.6	502.9	499.5	486.1	466.0	452.6	422.4	398.9
65°	462.6	452.6	449.2	445.9	439.2	429.1	419.1	395.6	385.5	358.7	335.2
67.5°	392.2	388.9	395.6	385.5	368.8	368.8	358.7	338.6	315.1	298.4	274.9
70°	335.2	331.9	325.2	315.1	311.8	298.4	298.4	274.9	268.2	238.0	217.9
72.5°	274.9	274.9	264.8	254.8	244.7	238.0	234.7	217.9	207.9	191.1	174.3
75°	207.9	207.9	204.5	194.4	187.7	181.0	177.7	164.3	154.2	137.5	127.4
77.5°	147.5	147.5	134.1	127.4	130.7	124.0	117.3	114.0	110.6	100.6	87.2
80°	87.2	83.8	73.8	77.1	73.8	73.8	70.4	67.0	60.3	53.6	46.9
82.5°	23.5	26.8	26.8	26.8	30.2	23.5	23.5	23.5	26.8	26.8	16.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	3.4	3.4
87.5°	3.4	6.7	13.4	13.4	13.4	13.4	13.4	10.1	10.1	10.1	6.7
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: LD4C55D010 EX4C559050 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1
2.5°	2829.7	2826.3	2829.7	2806.2	2859.8	2819.6	2812.9	2806.2	2829.7	2806.2	2772.7
5°	2890.0	2856.5	2846.4	2836.4	2866.5	2819.6	2809.6	2812.9	2796.1	2752.6	2755.9
7.5°	2910.1	2880.0	2849.8	2786.1	2812.9	2802.9	2776.0	2755.9	2729.1	2692.2	2685.5
10°	2916.8	2883.3	2839.7	2819.6	2779.4	2766.0	2755.9	2722.4	2688.9	2625.2	2608.4
12.5°	2896.7	2856.5	2802.9	2786.1	2755.9	2712.3	2688.9	2655.3	2625.2	2574.9	2538.0
15°	2809.6	2776.0	2759.3	2702.3	2688.9	2662.0	2615.1	2568.2	2524.6	2457.4	2437.4
17.5°	2709.0	2695.6	2678.8	2635.2	2631.9	2605.1	2561.5	2521.2	2464.3	2360.2	2326.8
20°	2605.1	2605.1	2551.4	2534.7	2568.2	2514.5	2481.0	2444.1	2326.8	2276.4	2216.2
22.5°	2528.0	2491.1	2460.9	2434.1	2437.4	2403.9	2357.0	2283.1	2239.5	2179.2	2108.8
25°	2377.1	2390.5	2323.5	2313.4	2323.5	2246.2	2222.9	2162.4	2098.7	2041.7	1988.1
27.5°	2283.1	2246.2	2202.8	2165.8	2165.8	2135.6	2068.6	2055.3	1957.9	1904.3	1837.2
30°	2142.3	2115.5	2078.6	2025.0	2018.3	1994.8	1941.2	1907.6	1807.1	1726.6	1689.7
32.5°	1964.6	1954.6	1924.4	1864.1	1844.0	1817.1	1750.1	1693.1	1646.2	1555.6	1512.1
35°	1837.2	1800.4	1736.7	1686.4	1669.6	1622.7	1569.0	1528.8	1478.5	1398.1	1341.1
37.5°	1646.2	1609.3	1548.9	1488.6	1488.6	1441.7	1367.9	1327.7	1257.3	1210.3	1163.4
40°	1478.5	1431.6	1371.3	1300.9	1290.8	1223.7	1193.6	1126.5	1082.9	1009.2	1002.5
42.5°	1290.8	1247.2	1193.6	1139.9	1099.7	1066.2	989.1	938.8	891.9	855.0	844.9
45°	1119.8	1062.8	1015.9	948.7	908.6	868.4	818.1	784.6	747.7	707.5	683.9
47.5°	972.3	925.4	858.2	798.0	757.8	737.5	680.5	643.8	613.5	586.7	569.9
50°	821.5	764.5	727.6	660.4	653.7	606.8	560.0	529.7	512.9	489.5	466.0
52.5°	707.5	653.7	603.4	553.3	526.3	509.6	466.0	435.8	412.4	395.6	382.2
55°	596.7	549.8	509.6	459.3	442.5	419.1	368.8	362.1	338.6	315.1	298.4
57.5°	512.9	469.3	422.4	388.9	358.7	342.0	301.7	274.9	261.5	241.4	224.6
60°	435.8	388.9	352.0	311.8	298.4	274.9	244.7	221.3	204.5	187.7	171.0
62.5°	365.4	325.2	285.0	251.4	231.3	217.9	194.4	174.3	157.6	144.2	130.7
65°	301.7	264.8	231.3	197.8	187.7	171.0	154.2	137.5	124.0	107.3	93.9
67.5°	248.1	214.6	181.0	157.6	147.5	140.8	120.7	103.9	93.9	83.8	70.4
70°	194.4	171.0	144.2	124.0	114.0	103.9	90.5	80.5	67.0	60.3	50.3
72.5°	150.9	130.7	107.3	90.5	83.8	77.1	63.7	53.6	46.9	40.2	33.5
75°	107.3	90.5	77.1	60.3	57.0	53.6	43.6	36.9	30.2	23.5	20.1
77.5°	73.8	60.3	46.9	40.2	36.9	30.2	26.8	20.1	16.8	13.4	10.1
80°	40.2	30.2	23.5	20.1	16.8	13.4	13.4	10.1	6.7	6.7	3.4
82.5°	13.4	10.1	6.7	3.4	3.4	3.4	3.4	3.4	3.4	0.0	3.4
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°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	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#

CATALOG NUMBER: LD4C55D010 EX4C559050 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1
2.5°	2792.8	2755.9	2766.0	2766.0	2759.3	2759.3	2752.6	2742.5	2745.9	2725.7	2682.2
5°	2762.6	2715.7	2709.0	2715.7	2688.9	2682.2	2668.8	2688.9	2628.5	2652.0	2625.2
7.5°	2675.5	2631.9	2621.8	2645.3	2611.8	2591.6	2588.3	2615.1	2561.5	2534.7	2504.5
10°	2578.2	2561.5	2531.3	2514.5	2504.5	2507.8	2481.0	2447.5	2437.4	2430.7	2403.9
12.5°	2491.1	2454.2	2427.4	2407.3	2400.6	2400.6	2357.0	2350.3	2320.1	2313.4	2273.2
15°	2387.0	2343.6	2326.8	2300.0	2276.4	2289.8	2239.5	2226.1	2216.2	2172.5	2179.2
17.5°	2296.5	2249.7	2209.5	2192.6	2172.5	2152.5	2105.4	2115.5	2092.0	2092.0	2031.7
20°	2179.2	2128.9	2098.7	2065.2	2065.2	2038.4	2004.9	2008.2	1978.0	1947.9	1894.2
22.5°	2055.3	2001.5	1964.6	1951.2	1917.7	1911.0	1870.8	1860.7	1820.5	1823.8	1776.9
25°	1924.4	1870.8	1820.5	1823.8	1793.7	1780.3	1756.8	1709.9	1693.1	1673.0	1659.6
27.5°	1770.2	1733.3	1689.7	1686.4	1629.4	1632.7	1602.6	1589.2	1548.9	1559.0	1528.8
30°	1629.4	1575.8	1535.5	1525.5	1502.0	1495.3	1448.4	1428.2	1435.0	1408.1	1391.4
32.5°	1485.2	1404.8	1388.0	1367.9	1354.5	1337.7	1304.2	1317.6	1287.4	1294.1	1267.3
35°	1294.1	1260.6	1217.0	1217.0	1203.6	1190.2	1166.8	1180.2	1150.0	1136.6	1109.8
37.5°	1133.2	1103.1	1059.5	1072.9	1049.4	1029.3	1009.2	1012.5	985.7	982.4	955.4
40°	958.9	942.1	912.0	912.0	895.2	895.2	885.0	875.1	858.2	838.2	807.9
42.5°	794.5	781.1	767.7	771.2	747.7	767.7	741.0	757.8	704.0	700.8	680.5
45°	673.8	643.8	647.0	633.6	620.2	626.9	603.4	610.1	580.0	573.3	553.3
47.5°	546.6	536.4	516.3	509.6	509.6	499.5	489.5	486.1	472.7	455.9	429.1
50°	449.2	412.4	405.6	395.6	388.9	388.9	375.5	355.4	358.7	342.0	315.1
52.5°	352.0	321.8	308.4	305.1	291.7	285.0	268.2	254.8	244.7	238.0	221.3
55°	271.5	244.7	228.0	228.0	207.9	207.9	184.4	174.3	160.9	147.5	137.5
57.5°	204.5	191.1	174.3	160.9	154.2	137.5	124.0	107.3	97.2	77.1	63.7
60°	154.2	140.8	124.0	114.0	107.3	90.5	73.8	60.3	36.9	30.2	26.8
62.5°	114.0	100.6	83.8	77.1	70.4	57.0	40.2	20.1	10.1	10.1	10.1
65°	83.8	67.0	53.6	46.9	40.2	30.2	13.4	6.7	3.4	3.4	3.4
67.5°	57.0	43.6	30.2	26.8	20.1	10.1	3.4	3.4	3.4	3.4	3.4
70°	36.9	26.8	13.4	10.1	6.7	3.4	3.4	3.4	3.4	3.4	3.4
72.5°	23.5	13.4	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.4	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.4	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	3.4	3.4	3.4
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: LD4C55D010 EX4C559050 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1	2796.1
2.5°	2729.1	2705.6	2719.0	2688.9	2702.3	2725.7	2709.0	2715.7
5°	2635.2	2621.8	2605.1	2561.5	2595.0	2621.8	2608.4	2605.1
7.5°	2534.7	2487.7	2511.2	2497.8	2491.1	2517.9	2487.7	2521.2
10°	2430.7	2397.2	2393.9	2370.4	2370.4	2390.5	2393.9	2373.6
12.5°	2276.4	2259.8	2259.8	2256.4	2252.9	2273.2	2276.4	2266.5
15°	2165.8	2159.2	2142.3	2139.1	2119.0	2149.0	2152.5	2149.0
17.5°	2031.7	2035.0	2018.3	2018.3	2031.7	2041.7	2014.9	2041.7
20°	1941.2	1924.4	1917.7	1887.5	1904.3	1921.1	1921.1	1924.4
22.5°	1810.4	1783.6	1793.7	1776.9	1766.8	1790.3	1790.3	1800.4
25°	1662.9	1662.9	1669.6	1659.6	1666.3	1679.7	1669.6	1693.1
27.5°	1522.1	1535.5	1535.5	1522.1	1528.8	1569.0	1585.8	1559.0
30°	1391.4	1394.7	1404.8	1398.1	1418.2	1431.6	1428.2	1448.4
32.5°	1243.9	1260.6	1267.3	1257.3	1264.0	1294.1	1277.4	1274.0
35°	1129.9	1099.7	1096.4	1099.7	1113.1	1119.8	1113.1	1136.6
37.5°	965.6	955.4	942.1	945.5	955.4	969.0	975.7	992.4
40°	807.9	794.5	794.5	791.3	781.1	818.1	818.1	818.1
42.5°	670.5	667.1	650.5	650.5	663.8	673.8	667.1	690.6
45°	549.8	536.4	526.3	526.3	536.4	536.4	546.6	543.1
47.5°	432.5	419.1	422.4	412.4	422.4	435.8	419.1	422.4
50°	325.2	325.2	318.5	325.2	321.8	325.2	318.5	311.8
52.5°	221.3	251.4	254.8	241.4	211.2	184.4	167.6	181.0
55°	127.4	114.0	114.0	110.6	103.9	100.6	90.5	100.6
57.5°	63.7	57.0	57.0	57.0	53.6	50.3	43.6	43.6
60°	26.8	23.5	23.5	20.1	16.8	13.4	10.1	13.4
62.5°	10.1	6.7	6.7	6.7	6.7	6.7	6.7	6.7
65°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
67.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
70°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)