

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 EX4C559040 4LBSQLWWH**

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: LD4C55D010 EX4C559040 4LBSQLWWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBSQLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

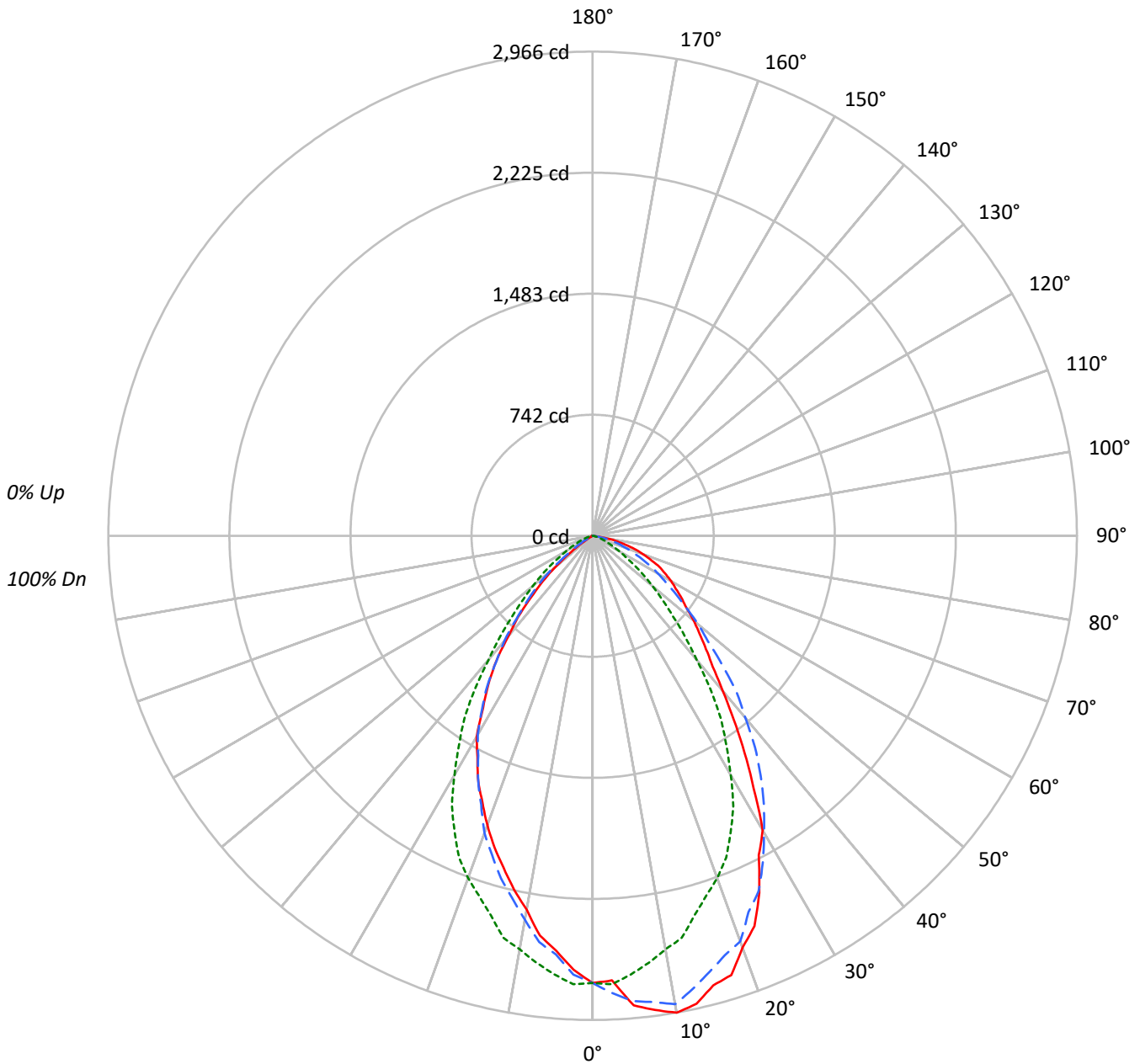
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3927.0 lumens
Efficiency: N/A
Efficacy: 61.5 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): 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 EX4C559040 4LBSQLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P#

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	264341	264341	264341
5°	279666	261225	247219
10°	290630	252008	227866
15°	284824	240522	210334
20°	275576	229020	193606
25°	257057	212981	176613
30°	232046	188482	158110
35°	191140	161350	131172
40°	155986	124547	100955
45°	134027	94591	72622
50°	121304	72008	45859
55°	111633	51931	16587
60°	107141	35489	2528
65°	103494	23996	753
70°	92646	16673	931
75°	75940	8575	0
80°	47509	3667	0
85°	0	0	0



TEST NUMBER: P#

CATALOG NUMBER: LD4C55D010 EX4C559040 4LBSQLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.7	6.5
10°-20°	691.5	17.6
20°-30°	923.4	23.5
30°-40°	876.6	22.3
40°-50°	605.9	15.4
50°-60°	334.8	8.5
60°-70°	166.3	4.2
70°-80°	65.5	1.7
80°-90°	6.2	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°	1871.7	47.7
0°-40°	2748.3	70.0
0°-60°	3689.0	93.9
0°-90°	3927.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3927.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2740	2740	2740	2740	2740	
5°	2887	2861	2697	2575	2552	276
15°	2851	2766	2408	2171	2106	807
25°	2414	2405	2000	1659	1659	1101
35°	1623	1794	1370	1127	1114	1017
45°	982	1127	693	568	532	766
55°	664	624	309	158	99	597
65°	453	328	105	3	3	440
75°	204	125	23	0	0	217
85°	0	3	0	0	0	19
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: LD4C55D010 EX4C559040 4LBSQLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6
2.5°	2726.4	2802.0	2808.5	2802.0	2811.9	2808.5	2825.0	2808.5	2828.4	2798.8	2805.3
5°	2887.4	2857.8	2920.3	2887.4	2887.4	2884.2	2874.3	2871.0	2884.2	2841.5	2861.2
7.5°	2930.2	2972.9	3028.7	2959.8	2963.0	2963.0	2943.3	2936.7	2936.7	2857.8	2880.9
10°	2966.3	2939.9	2969.5	2943.3	2966.3	2963.0	2976.1	2933.4	2963.0	2917.0	2913.7
12.5°	2936.7	2926.8	2966.3	2923.6	2910.5	2913.7	2897.3	2887.4	2897.3	2844.7	2841.5
15°	2851.3	2861.2	2920.3	2874.3	2867.7	2861.2	2841.5	2808.5	2834.9	2762.6	2765.9
17.5°	2821.8	2805.3	2815.2	2775.7	2785.6	2779.1	2775.7	2746.3	2739.6	2693.6	2693.6
20°	2683.8	2719.9	2719.9	2693.6	2693.6	2690.4	2647.7	2673.9	2644.3	2631.2	2644.3
22.5°	2588.5	2591.8	2591.8	2568.8	2572.1	2559.0	2536.0	2519.5	2536.0	2519.5	2493.2
25°	2414.5	2421.0	2460.4	2417.7	2411.1	2424.3	2404.6	2394.7	2391.4	2352.1	2404.6
27.5°	2204.2	2269.8	2266.6	2250.1	2269.8	2243.6	2233.8	2237.0	2246.9	2243.6	2256.7
30°	2082.7	2092.5	2102.4	2089.3	2092.5	2082.7	2082.7	2085.9	2112.2	2102.4	2099.0
32.5°	1836.2	1869.1	1895.4	1895.4	1898.7	1908.6	1905.2	1974.2	1990.7	1957.9	1951.3
35°	1622.7	1645.8	1668.7	1672.0	1714.8	1718.0	1721.3	1741.0	1787.0	1796.9	1793.5
37.5°	1419.1	1442.0	1448.6	1478.2	1501.2	1524.2	1550.5	1576.8	1616.2	1649.0	1632.6
40°	1238.4	1248.2	1264.7	1277.8	1323.8	1323.8	1336.9	1389.5	1432.3	1458.5	1455.2
42.5°	1087.4	1090.6	1103.7	1126.7	1169.5	1159.6	1169.5	1205.6	1267.9	1271.3	1307.4
45°	982.2	978.9	988.8	992.0	1018.4	1031.5	1038.1	1064.3	1116.8	1123.4	1126.7
47.5°	887.0	883.6	900.1	906.7	916.4	929.6	929.6	932.9	952.6	969.1	956.0
50°	808.1	808.1	808.1	814.6	831.1	827.8	831.1	844.2	854.0	847.5	844.2
52.5°	722.6	735.8	745.7	749.0	752.2	752.2	755.6	749.0	745.7	735.8	716.1
55°	663.6	676.7	676.7	676.7	676.7	689.8	673.5	676.7	676.7	650.4	624.2
57.5°	604.5	617.6	627.4	614.3	627.4	614.3	607.7	604.5	597.8	571.5	532.2
60°	555.2	561.8	558.4	555.2	561.8	551.9	545.3	532.2	525.6	489.4	463.2
62.5°	499.3	502.6	505.9	499.3	492.8	489.4	476.3	456.6	443.5	413.9	390.9
65°	453.3	443.5	440.1	436.9	430.4	420.5	410.7	387.6	377.7	351.5	328.4
67.5°	384.3	381.1	387.6	377.7	361.4	361.4	351.5	331.8	308.7	292.4	269.4
70°	328.4	325.2	318.7	308.7	305.5	292.4	292.4	269.4	262.8	233.2	213.5
72.5°	269.4	269.4	259.5	249.7	239.8	233.2	230.0	213.5	203.7	187.3	170.8
75°	203.7	203.7	200.4	190.5	183.9	177.3	174.1	161.0	151.1	134.7	124.8
77.5°	144.5	144.5	131.4	124.8	128.1	121.5	114.9	111.7	108.4	98.6	85.5
80°	85.5	82.1	72.3	75.5	72.3	72.3	69.0	65.6	59.1	52.5	45.9
82.5°	23.0	26.3	26.3	26.3	29.6	23.0	23.0	23.0	26.3	26.3	16.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3
87.5°	3.3	6.6	13.1	13.1	13.1	13.1	13.1	9.9	9.9	9.9	6.6
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: LD4C55D010 EX4C559040 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6
2.5°	2772.5	2769.2	2772.5	2749.5	2802.0	2762.6	2756.0	2749.5	2772.5	2749.5	2716.7
5°	2831.6	2798.8	2788.9	2779.1	2808.5	2762.6	2752.8	2756.0	2739.6	2697.0	2700.2
7.5°	2851.3	2821.8	2792.2	2729.8	2756.0	2746.3	2719.9	2700.2	2673.9	2637.8	2631.2
10°	2857.8	2825.0	2782.3	2762.6	2723.2	2710.1	2700.2	2667.4	2634.5	2572.1	2555.7
12.5°	2838.1	2798.8	2746.3	2729.8	2700.2	2657.5	2634.5	2601.6	2572.1	2522.8	2486.7
15°	2752.8	2719.9	2703.5	2647.7	2634.5	2608.2	2562.2	2516.3	2473.5	2407.8	2388.1
17.5°	2654.2	2641.1	2624.6	2581.9	2578.7	2552.4	2509.7	2470.2	2414.5	2312.5	2279.7
20°	2552.4	2552.4	2499.8	2483.5	2516.3	2463.6	2430.8	2394.7	2279.7	2230.4	2171.4
22.5°	2476.9	2440.7	2411.1	2384.9	2388.1	2355.3	2309.3	2237.0	2194.3	2135.2	2066.2
25°	2329.0	2342.1	2276.5	2266.6	2276.5	2200.8	2177.9	2118.7	2056.3	2000.5	1948.0
27.5°	2237.0	2200.8	2158.2	2122.1	2122.1	2092.5	2026.8	2013.7	1918.4	1865.8	1800.1
30°	2099.0	2072.8	2036.6	1984.1	1977.6	1954.5	1902.0	1869.1	1770.6	1691.7	1655.6
32.5°	1924.9	1915.1	1885.5	1826.5	1806.8	1780.4	1714.8	1658.9	1613.0	1524.2	1481.6
35°	1800.1	1764.0	1701.6	1652.3	1635.9	1589.9	1537.3	1497.9	1448.6	1369.8	1314.0
37.5°	1613.0	1576.8	1517.6	1458.5	1458.5	1412.6	1340.2	1300.9	1231.9	1185.8	1139.9
40°	1448.6	1402.7	1343.6	1274.6	1264.7	1198.9	1169.5	1103.7	1061.0	988.8	982.2
42.5°	1264.7	1222.0	1169.5	1116.8	1077.4	1044.6	969.1	919.8	873.9	837.7	827.8
45°	1097.1	1041.3	995.3	929.6	890.2	850.8	801.5	768.7	732.5	693.2	670.1
47.5°	952.6	906.7	840.9	781.8	742.5	722.6	666.8	630.7	601.1	574.9	558.4
50°	804.9	749.0	712.9	647.1	640.5	594.6	548.6	519.0	502.6	479.7	456.6
52.5°	693.2	640.5	591.2	542.1	515.7	499.3	456.6	427.0	404.1	387.6	374.5
55°	584.7	538.7	499.3	450.1	433.6	410.7	361.4	354.8	331.8	308.7	292.4
57.5°	502.6	459.8	413.9	381.1	351.5	335.1	295.6	269.4	256.2	236.5	220.1
60°	427.0	381.1	344.9	305.5	292.4	269.4	239.8	216.9	200.4	183.9	167.6
62.5°	358.0	318.7	279.3	246.3	226.6	213.5	190.5	170.8	154.4	141.3	128.1
65°	295.6	259.5	226.6	193.8	183.9	167.6	151.1	134.7	121.5	105.1	92.0
67.5°	243.1	210.3	177.3	154.4	144.5	138.0	118.3	101.8	92.0	82.1	69.0
70°	190.5	167.6	141.3	121.5	111.7	101.8	88.7	78.9	65.6	59.1	49.3
72.5°	147.9	128.1	105.1	88.7	82.1	75.5	62.4	52.5	45.9	39.4	32.8
75°	105.1	88.7	75.5	59.1	55.9	52.5	42.7	36.2	29.6	23.0	19.7
77.5°	72.3	59.1	45.9	39.4	36.2	29.6	26.3	19.7	16.5	13.1	9.9
80°	39.4	29.6	23.0	19.7	16.5	13.1	13.1	9.9	6.6	6.6	3.3
82.5°	13.1	9.9	6.6	3.3	3.3	3.3	3.3	3.3	3.3	0.0	3.3
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°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	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 EX4C559040 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6
2.5°	2736.3	2700.2	2710.1	2710.1	2703.5	2703.5	2697.0	2687.1	2690.4	2670.6	2628.0
5°	2706.7	2660.8	2654.2	2660.8	2634.5	2628.0	2614.9	2634.5	2575.3	2598.4	2572.1
7.5°	2621.4	2578.7	2568.8	2591.8	2559.0	2539.2	2536.0	2562.2	2509.7	2483.5	2453.9
10°	2526.1	2509.7	2480.1	2463.6	2453.9	2457.1	2430.8	2398.0	2388.1	2381.5	2355.3
12.5°	2440.7	2404.6	2378.3	2358.6	2352.1	2352.1	2309.3	2302.8	2273.2	2266.6	2227.2
15°	2338.8	2296.2	2279.7	2253.5	2230.4	2243.6	2194.3	2181.2	2171.4	2128.6	2135.2
17.5°	2250.1	2204.2	2164.8	2148.3	2128.6	2109.0	2062.9	2072.8	2049.8	2049.8	1990.7
20°	2135.2	2085.9	2056.3	2023.5	2023.5	1997.2	1964.4	1967.6	1938.0	1908.6	1855.9
22.5°	2013.7	1961.1	1924.9	1911.8	1879.0	1872.4	1833.0	1823.1	1783.7	1787.0	1741.0
25°	1885.5	1833.0	1783.7	1787.0	1757.5	1744.4	1721.3	1675.4	1658.9	1639.2	1626.1
27.5°	1734.4	1698.3	1655.6	1652.3	1596.5	1599.7	1570.2	1557.1	1517.6	1527.5	1497.9
30°	1596.5	1544.0	1504.5	1494.7	1471.6	1465.1	1419.1	1399.3	1406.0	1379.6	1363.3
32.5°	1455.2	1376.4	1359.9	1340.2	1327.1	1310.6	1277.8	1291.0	1261.4	1267.9	1241.7
35°	1267.9	1235.1	1192.4	1192.4	1179.2	1166.1	1143.2	1156.3	1126.7	1113.6	1087.4
37.5°	1110.3	1080.8	1038.1	1051.2	1028.2	1008.5	988.8	992.0	965.7	962.5	936.1
40°	939.5	923.0	893.5	893.5	877.1	877.1	867.2	857.4	840.9	821.2	791.6
42.5°	778.5	765.4	752.2	755.6	732.5	752.2	726.0	742.5	689.8	686.6	666.8
45°	660.2	630.7	634.0	620.8	607.7	614.3	591.2	597.8	568.3	561.8	542.1
47.5°	535.5	525.6	505.9	499.3	499.3	489.4	479.7	476.3	463.2	446.7	420.5
50°	440.1	404.1	397.4	387.6	381.1	381.1	367.9	348.3	351.5	335.1	308.7
52.5°	344.9	315.3	302.2	299.0	285.8	279.3	262.8	249.7	239.8	233.2	216.9
55°	266.0	239.8	223.4	223.4	203.7	203.7	180.7	170.8	157.7	144.5	134.7
57.5°	200.4	187.3	170.8	157.7	151.1	134.7	121.5	105.1	95.2	75.5	62.4
60°	151.1	138.0	121.5	111.7	105.1	88.7	72.3	59.1	36.2	29.6	26.3
62.5°	111.7	98.6	82.1	75.5	69.0	55.9	39.4	19.7	9.9	9.9	9.9
65°	82.1	65.6	52.5	45.9	39.4	29.6	13.1	6.6	3.3	3.3	3.3
67.5°	55.9	42.7	29.6	26.3	19.7	9.9	3.3	3.3	3.3	3.3	3.3
70°	36.2	26.3	13.1	9.9	6.6	3.3	3.3	3.3	3.3	3.3	3.3
72.5°	23.0	13.1	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.1	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	6.6	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	3.3	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	3.3	3.3	3.3
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 EX4C559040 4LBSQLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6	2739.6
2.5°	2673.9	2650.9	2664.0	2634.5	2647.7	2670.6	2654.2	2660.8
5°	2581.9	2568.8	2552.4	2509.7	2542.5	2568.8	2555.7	2552.4
7.5°	2483.5	2437.4	2460.4	2447.3	2440.7	2467.0	2437.4	2470.2
10°	2381.5	2348.7	2345.5	2322.5	2322.5	2342.1	2345.5	2325.7
12.5°	2230.4	2214.1	2214.1	2210.8	2207.4	2227.2	2230.4	2220.7
15°	2122.1	2115.5	2099.0	2095.8	2076.1	2105.6	2109.0	2105.6
17.5°	1990.7	1993.9	1977.6	1977.6	1990.7	2000.5	1974.2	2000.5
20°	1902.0	1885.5	1879.0	1849.4	1865.8	1882.3	1882.3	1885.5
22.5°	1773.8	1747.6	1757.5	1741.0	1731.1	1754.1	1754.1	1764.0
25°	1629.3	1629.3	1635.9	1626.1	1632.6	1645.8	1635.9	1658.9
27.5°	1491.3	1504.5	1504.5	1491.3	1497.9	1537.3	1553.8	1527.5
30°	1363.3	1366.5	1376.4	1369.8	1389.5	1402.7	1399.3	1419.1
32.5°	1218.8	1235.1	1241.7	1231.9	1238.4	1267.9	1251.6	1248.2
35°	1107.0	1077.4	1074.2	1077.4	1090.6	1097.1	1090.6	1113.6
37.5°	946.0	936.1	923.0	926.4	936.1	949.4	956.0	972.3
40°	791.6	778.5	778.5	775.3	765.4	801.5	801.5	801.5
42.5°	657.0	653.7	637.3	637.3	650.4	660.2	653.7	676.7
45°	538.7	525.6	515.7	515.7	525.6	525.6	535.5	532.2
47.5°	423.8	410.7	413.9	404.1	413.9	427.0	410.7	413.9
50°	318.7	318.7	312.1	318.7	315.3	318.7	312.1	305.5
52.5°	216.9	246.3	249.7	236.5	206.9	180.7	164.2	177.3
55°	124.8	111.7	111.7	108.4	101.8	98.6	88.7	98.6
57.5°	62.4	55.9	55.9	55.9	52.5	49.3	42.7	42.7
60°	26.3	23.0	23.0	19.7	16.5	13.1	9.9	13.1
62.5°	9.9	6.6	6.6	6.6	6.6	6.6	6.6	6.6
65°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
67.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
70°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
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)