

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: P859158

Luminaire Tested: **LX4C55D010 EX4C559050 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P859158
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C55D010 EX4C559050 4LBSWNH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

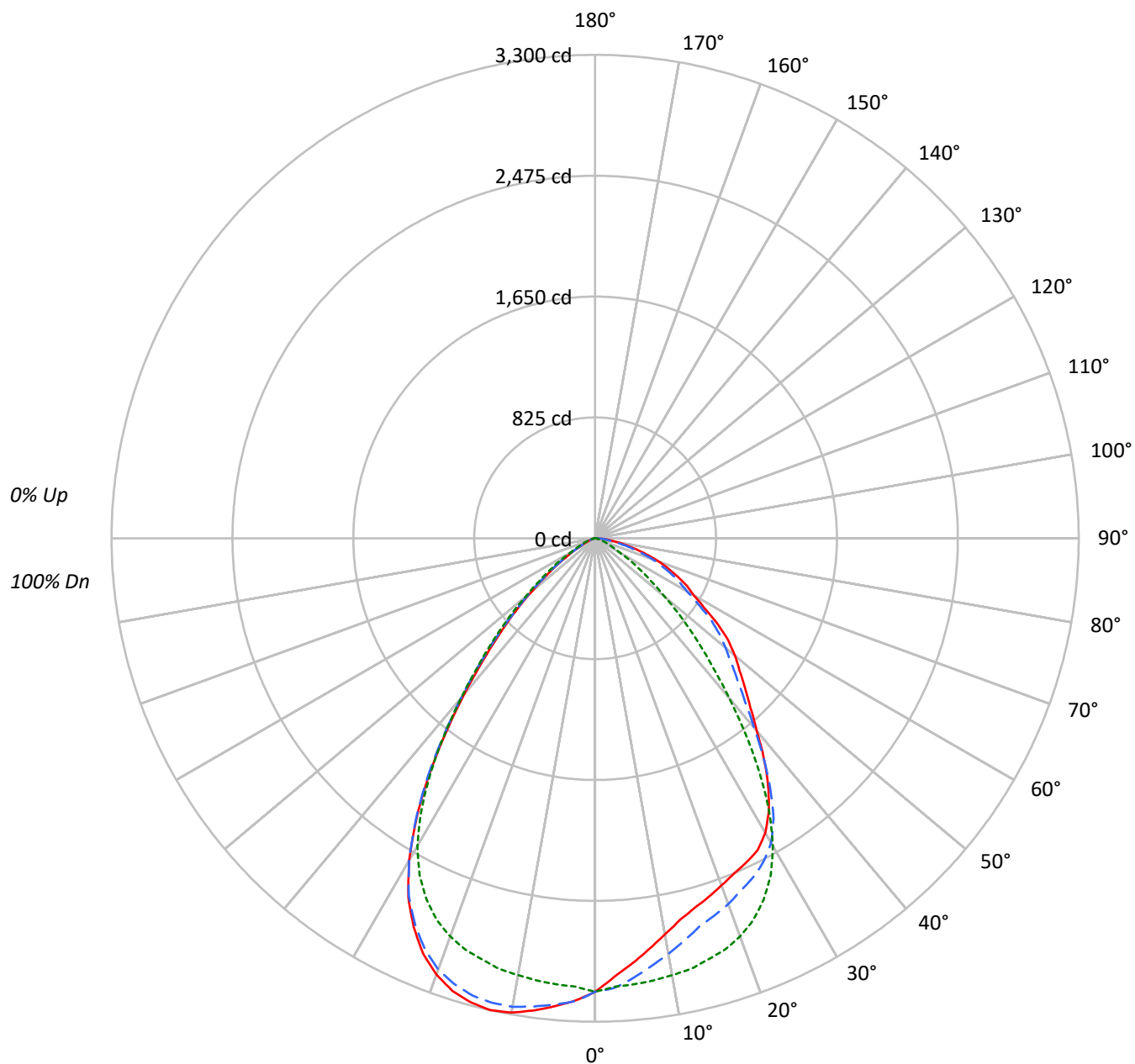
Lumens per Lamp: N/A
Luminaire Lumens: 5427.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89		
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79		
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70		
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62		
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56		
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50		
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46		
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38		
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	380354	380354	380354
5°	359165	376887	395582
10°	342423	377752	410111
15°	332366	378560	417111
20°	329643	378173	414152
25°	330982	368842	396956
30°	329397	344107	359953
35°	308741	293804	296788
40°	275121	227795	222679
45°	251612	169832	159425
50°	237914	118976	107528
55°	218772	80321	67491
60°	191135	47028	37225
65°	180958	30145	20872
70°	164837	21516	12931
75°	136373	15142	9493
80°	107184	8490	5660
85°	95711	5779	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.5	5.4
10°-20°	839.2	15.5
20°-30°	1244.0	22.9
30°-40°	1245.7	23.0
40°-50°	870.6	16.0
50°-60°	518.1	9.5
60°-70°	270.4	5.0
70°-80°	120.2	2.2
80°-90°	26.2	0.5
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°	2375.7	43.8
0°-40°	3621.5	66.7
0°-60°	5010.2	92.3
0°-90°	5427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5427.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3096	3096	3096	3096	3096	
5°	2912	3012	3056	3196	3208	273
15°	2613	2745	2976	3232	3280	740
25°	2442	2554	2721	2908	2928	1125
35°	2059	2083	1959	1995	1979	1276
45°	1448	1376	978	946	918	1124
55°	1021	958	375	327	315	906
65°	622	570	104	76	72	616
75°	287	251	32	20	20	311
85°	68	52	4	4	0	76
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°	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0
2.5°	2996.2	3032.2	2996.2	3008.3	3056.1	3012.2	3036.1	3036.1	3024.2	3052.1	3072.1
5°	2912.4	2948.4	2912.4	2928.4	2980.3	2936.3	2964.3	2956.4	2960.4	2984.4	3012.2
7.5°	2828.7	2856.6	2824.7	2844.7	2892.6	2856.6	2880.5	2880.5	2884.6	2920.4	2944.5
10°	2744.9	2768.8	2744.9	2760.9	2812.8	2780.9	2796.8	2800.7	2812.8	2844.7	2880.5
12.5°	2669.1	2689.1	2665.2	2689.1	2732.9	2701.0	2721.0	2724.9	2736.9	2772.9	2812.8
15°	2613.2	2633.2	2609.3	2629.2	2669.1	2645.1	2661.1	2669.1	2677.0	2708.9	2744.9
17.5°	2569.4	2585.4	2565.4	2589.3	2621.2	2593.4	2617.3	2617.3	2629.2	2661.1	2701.0
20°	2521.4	2537.4	2521.4	2541.4	2577.4	2553.5	2573.3	2573.3	2585.4	2621.2	2657.2
22.5°	2477.6	2485.6	2477.6	2493.6	2529.4	2509.5	2521.4	2525.5	2537.4	2569.4	2601.3
25°	2441.7	2457.6	2449.6	2465.6	2489.5	2469.7	2481.5	2485.6	2497.5	2525.5	2553.5
27.5°	2401.8	2409.8	2401.8	2421.8	2441.7	2425.7	2437.8	2433.7	2441.7	2465.6	2489.5
30°	2322.0	2330.0	2330.0	2341.9	2358.0	2350.0	2361.9	2350.0	2358.0	2377.9	2401.8
32.5°	2206.3	2210.4	2214.3	2226.3	2238.2	2226.3	2234.3	2234.3	2234.3	2250.2	2266.2
35°	2058.6	2066.6	2062.7	2070.7	2082.6	2078.7	2078.7	2074.6	2066.6	2074.6	2082.6
37.5°	1891.1	1879.1	1879.1	1891.1	1899.1	1883.2	1891.1	1883.2	1883.2	1887.1	1887.1
40°	1715.5	1703.6	1715.5	1719.6	1723.5	1715.5	1711.6	1703.6	1691.6	1695.6	1687.7
42.5°	1568.0	1559.9	1564.0	1564.0	1568.0	1559.9	1564.0	1548.0	1536.0	1528.0	1516.1
45°	1448.2	1436.3	1448.2	1440.3	1440.3	1436.3	1432.3	1424.3	1408.3	1396.5	1376.4
47.5°	1336.6	1336.6	1340.5	1340.5	1340.5	1332.5	1332.5	1316.5	1300.6	1284.6	1256.8
50°	1244.8	1236.8	1252.7	1252.7	1240.8	1236.8	1240.8	1220.8	1208.9	1188.9	1160.9
52.5°	1145.0	1145.0	1149.0	1149.0	1145.0	1137.0	1141.1	1125.1	1113.1	1093.2	1065.2
55°	1021.4	1013.4	1025.3	1025.3	1021.4	1017.4	1021.4	1009.4	997.5	981.5	957.5
57.5°	881.8	877.7	885.7	889.7	881.8	881.8	885.7	873.8	869.7	853.8	829.8
60°	777.9	774.0	782.0	786.0	777.9	777.9	777.9	762.0	754.0	738.0	722.1
62.5°	706.1	702.2	710.2	706.1	702.2	698.2	702.2	686.3	678.3	662.3	646.4
65°	622.5	626.4	630.4	630.4	626.4	622.5	622.5	614.5	606.5	590.6	570.5
67.5°	542.5	542.5	546.6	550.5	546.6	546.6	546.6	534.6	526.6	514.7	490.8
70°	458.9	454.8	466.8	466.8	458.9	462.8	458.9	454.8	446.8	430.9	411.0
72.5°	371.0	371.0	375.0	375.0	371.0	371.0	371.0	367.1	355.0	347.0	327.2
75°	287.3	287.3	291.2	295.3	287.3	287.3	291.2	283.2	275.3	263.4	251.3
77.5°	215.5	211.4	215.5	215.5	211.4	211.4	211.4	207.5	203.5	191.4	179.5
80°	151.5	147.6	151.5	151.5	151.5	147.6	147.6	143.6	143.6	135.6	123.7
82.5°	103.7	99.8	103.7	103.7	103.7	99.8	99.8	99.8	95.7	91.8	83.8
85°	67.9	63.8	63.8	67.9	63.8	63.8	63.8	63.8	59.9	55.8	51.9
87.5°	31.9	31.9	31.9	31.9	31.9	31.9	31.9	28.0	28.0	28.0	23.9
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°	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0
2.5°	3056.1	3048.2	3072.1	3064.1	3068.0	3048.2	3080.1	3064.1	3084.0	3064.1	3104.0
5°	3004.2	2996.2	3032.2	3028.1	3032.2	3016.3	3052.1	3048.2	3072.1	3056.1	3099.9
7.5°	2948.4	2940.4	2980.3	2984.4	2992.3	2976.4	3024.2	3024.2	3048.2	3044.1	3092.0
10°	2884.6	2888.5	2928.4	2936.3	2952.5	2944.5	2988.3	3000.3	3032.2	3028.1	3088.0
12.5°	2824.7	2824.7	2876.6	2892.6	2904.4	2900.5	2952.5	2968.4	3004.2	3012.2	3068.0
15°	2764.9	2768.8	2816.7	2840.6	2856.6	2852.7	2908.5	2928.4	2972.3	2976.4	3044.1
17.5°	2716.9	2713.0	2764.9	2784.8	2808.7	2804.8	2864.6	2888.5	2932.4	2944.5	3008.3
20°	2677.0	2673.1	2721.0	2744.9	2760.9	2757.0	2816.7	2844.7	2884.6	2892.6	2956.4
22.5°	2629.2	2621.2	2669.1	2689.1	2705.0	2701.0	2752.9	2772.9	2812.8	2820.8	2880.5
25°	2573.3	2565.4	2609.3	2621.2	2633.2	2625.3	2669.1	2681.1	2713.0	2721.0	2780.9
27.5°	2509.5	2489.5	2525.5	2525.5	2533.5	2521.4	2553.5	2565.4	2593.4	2593.4	2649.2
30°	2409.8	2381.9	2401.8	2397.9	2401.8	2385.8	2405.8	2409.8	2429.8	2425.7	2465.6
32.5°	2270.1	2230.2	2242.3	2230.2	2218.3	2194.4	2218.3	2210.4	2226.3	2210.4	2246.2
35°	2078.7	2038.8	2034.7	2018.8	2006.9	1986.9	1986.9	1967.0	1970.9	1959.0	1983.0
37.5°	1871.1	1819.4	1811.4	1779.5	1759.5	1735.5	1735.5	1719.6	1699.6	1691.6	1711.6
40°	1667.7	1611.8	1592.0	1540.0	1520.0	1496.1	1480.1	1460.3	1452.3	1420.4	1436.3
42.5°	1492.2	1432.3	1388.5	1332.5	1312.6	1276.7	1252.7	1228.8	1216.9	1180.9	1196.9
45°	1344.5	1272.8	1224.9	1153.0	1125.1	1085.2	1049.3	1021.4	993.4	977.5	969.5
47.5°	1220.8	1145.0	1081.2	1001.4	957.5	921.6	873.8	845.8	810.0	790.0	777.9
50°	1117.1	1033.3	961.5	869.7	825.9	786.0	730.1	686.3	654.4	622.5	614.5
52.5°	1025.3	937.6	857.8	754.0	702.2	654.4	594.5	546.6	518.6	482.8	478.7
55°	917.6	841.9	754.0	646.4	594.5	546.6	482.8	434.9	399.0	375.0	367.1
57.5°	802.0	730.1	646.4	538.6	486.7	434.9	375.0	331.1	299.2	279.3	275.3
60°	694.2	626.4	546.6	438.8	386.9	343.1	279.3	235.4	207.5	191.4	183.5
62.5°	614.5	550.5	474.8	375.0	327.2	283.2	223.5	183.5	159.5	143.6	135.6
65°	538.6	474.8	406.9	315.1	275.3	235.4	179.5	143.6	119.6	103.7	95.7
67.5°	458.9	403.0	339.1	263.4	223.5	191.4	143.6	111.7	91.8	79.8	71.8
70°	378.9	327.2	275.3	211.4	183.5	151.5	111.7	87.7	67.9	59.9	51.9
72.5°	299.2	259.3	215.5	163.6	139.7	119.6	87.7	63.8	51.9	43.9	36.0
75°	223.5	195.5	159.5	123.7	103.7	87.7	63.8	47.9	39.9	31.9	28.0
77.5°	159.5	135.6	111.7	83.8	75.9	63.8	43.9	36.0	28.0	20.0	16.0
80°	107.8	95.7	75.9	59.9	47.9	43.9	31.9	23.9	16.0	12.0	12.0
82.5°	71.8	59.9	47.9	36.0	31.9	28.0	20.0	16.0	12.0	8.0	8.0
85°	43.9	36.0	28.0	20.0	20.0	16.0	12.0	8.0	4.1	4.1	4.1
87.5°	20.0	16.0	12.0	8.0	8.0	4.1	4.1	4.1	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0
2.5°	3135.9	3112.0	3096.0	3115.9	3123.9	3112.0	3123.9	3143.9	3163.9	3167.8	3112.0
5°	3140.0	3115.9	3107.9	3131.8	3135.9	3131.8	3143.9	3171.9	3195.8	3203.8	3147.9
7.5°	3140.0	3123.9	3120.0	3147.9	3151.9	3147.9	3167.8	3199.7	3223.6	3239.6	3183.8
10°	3131.8	3123.9	3127.9	3151.9	3159.8	3159.8	3187.8	3223.6	3247.6	3263.5	3207.7
12.5°	3120.0	3120.0	3120.0	3147.9	3155.9	3159.8	3183.8	3231.6	3247.6	3271.5	3215.7
15°	3099.9	3099.9	3099.9	3127.9	3140.0	3140.0	3167.8	3211.8	3231.6	3255.5	3199.7
17.5°	3064.1	3064.1	3068.0	3092.0	3104.0	3104.0	3131.8	3179.9	3191.7	3219.7	3163.9
20°	3012.2	3012.2	3016.3	3040.2	3052.1	3044.1	3080.1	3120.0	3131.8	3155.9	3099.9
22.5°	2936.3	2936.3	2936.3	2960.4	2968.4	2964.3	3000.3	3036.1	3036.1	3068.0	3008.3
25°	2824.7	2832.7	2824.7	2848.6	2856.6	2852.7	2884.6	2916.5	2908.5	2944.5	2884.6
27.5°	2689.1	2685.0	2685.0	2705.0	2705.0	2701.0	2724.9	2760.9	2752.9	2776.8	2721.0
30°	2501.6	2513.4	2493.6	2521.4	2509.5	2501.6	2517.5	2549.4	2537.4	2557.4	2513.4
32.5°	2286.0	2270.1	2270.1	2270.1	2278.1	2258.2	2274.2	2290.1	2278.1	2298.1	2250.2
35°	2002.8	2006.9	1994.8	1998.9	2002.8	1978.9	1994.8	2010.8	1994.8	2006.9	1962.9
37.5°	1719.6	1723.5	1695.6	1711.6	1695.6	1687.7	1703.6	1711.6	1695.6	1707.5	1659.7
40°	1436.3	1428.4	1424.3	1424.3	1428.4	1408.3	1420.4	1432.3	1420.4	1428.4	1384.4
42.5°	1188.9	1185.0	1177.0	1180.9	1168.9	1165.0	1168.9	1180.9	1168.9	1177.0	1145.0
45°	973.4	965.4	953.5	957.5	957.5	937.6	949.5	957.5	945.6	949.5	921.6
47.5°	774.0	762.0	762.0	758.1	758.1	750.1	762.0	758.1	746.0	754.0	726.1
50°	602.4	594.5	594.5	594.5	594.5	582.4	586.5	594.5	582.4	582.4	566.5
52.5°	470.8	458.9	450.9	450.9	450.9	446.8	446.8	450.9	438.8	438.8	434.9
55°	355.0	351.1	339.1	339.1	339.1	327.2	331.1	331.1	327.2	327.2	315.1
57.5°	263.4	251.3	243.4	243.4	235.4	235.4	231.5	235.4	227.4	227.4	219.4
60°	175.5	167.5	163.6	159.5	159.5	155.6	159.5	155.6	155.6	151.5	147.6
62.5°	127.6	119.6	111.7	111.7	111.7	107.8	107.8	107.8	107.8	107.8	103.7
65°	91.8	83.8	83.8	79.8	79.8	75.9	75.9	75.9	75.9	75.9	71.8
67.5°	63.8	59.9	55.8	55.8	55.8	55.8	55.8	55.8	51.9	51.9	51.9
70°	47.9	43.9	39.9	39.9	39.9	39.9	39.9	36.0	39.9	39.9	36.0
72.5°	31.9	31.9	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
75°	23.9	23.9	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
77.5°	16.0	16.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
80°	12.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
82.5°	8.0	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	0.0
87.5°	0.0	0.0	0.0	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	0.0	0.0	0.0



TEST NUMBER: P859158

CATALOG NUMBER: LX4C55D010 EX4C559050 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0	3096.0
2.5°	3171.9	3167.8	3159.8	3171.9	3140.0	3127.9	3123.9	3159.8
5°	3215.7	3207.7	3207.7	3219.7	3183.8	3175.8	3167.8	3207.7
7.5°	3255.5	3247.6	3247.6	3259.6	3227.7	3219.7	3211.8	3251.6
10°	3279.5	3279.5	3279.5	3287.5	3259.6	3251.6	3247.6	3287.5
12.5°	3291.5	3291.5	3287.5	3303.4	3267.6	3267.6	3259.6	3299.5
15°	3275.6	3275.6	3275.6	3287.5	3255.5	3247.6	3247.6	3279.5
17.5°	3235.7	3235.7	3231.6	3243.7	3207.7	3207.7	3203.8	3239.6
20°	3175.8	3175.8	3167.8	3183.8	3147.9	3135.9	3131.8	3167.8
22.5°	3080.1	3076.0	3072.1	3080.1	3048.2	3040.2	3036.1	3068.0
25°	2956.4	2952.5	2944.5	2952.5	2916.5	2904.4	2904.4	2928.4
27.5°	2780.9	2780.9	2768.8	2780.9	2740.8	2736.9	2732.9	2760.9
30°	2565.4	2549.4	2541.4	2557.4	2517.5	2517.5	2509.5	2537.4
32.5°	2298.1	2282.1	2278.1	2286.0	2250.2	2238.2	2254.1	2270.1
35°	1990.9	1994.8	1978.9	1978.9	1947.0	1950.9	1955.0	1978.9
37.5°	1695.6	1687.7	1683.6	1687.7	1663.7	1655.8	1647.8	1671.7
40°	1420.4	1400.4	1396.5	1396.5	1376.4	1372.5	1376.4	1388.5
42.5°	1160.9	1157.0	1141.1	1149.0	1129.0	1137.0	1133.1	1133.1
45°	937.6	941.5	925.6	937.6	921.6	909.6	909.6	917.6
47.5°	742.1	742.1	738.0	738.0	726.1	730.1	722.1	734.1
50°	574.4	574.4	566.5	570.5	562.6	562.6	558.5	562.6
52.5°	438.8	434.9	434.9	430.9	422.9	427.0	430.9	422.9
55°	319.2	323.1	315.1	319.2	311.2	315.1	311.2	315.1
57.5°	219.4	223.5	215.5	223.5	215.5	219.4	215.5	215.5
60°	151.5	151.5	147.6	151.5	147.6	147.6	143.6	151.5
62.5°	103.7	103.7	103.7	103.7	103.7	99.8	103.7	103.7
65°	75.9	71.8	71.8	71.8	71.8	71.8	71.8	71.8
67.5°	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
70°	36.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
72.5°	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
75°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
77.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
80°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
82.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	4.1	4.1	4.1	0.0	4.1	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)