

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: P859137

Luminaire Tested: **LX4C55D010 EX4C559040 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P859137
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 EX4C559040 4LBSWNH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

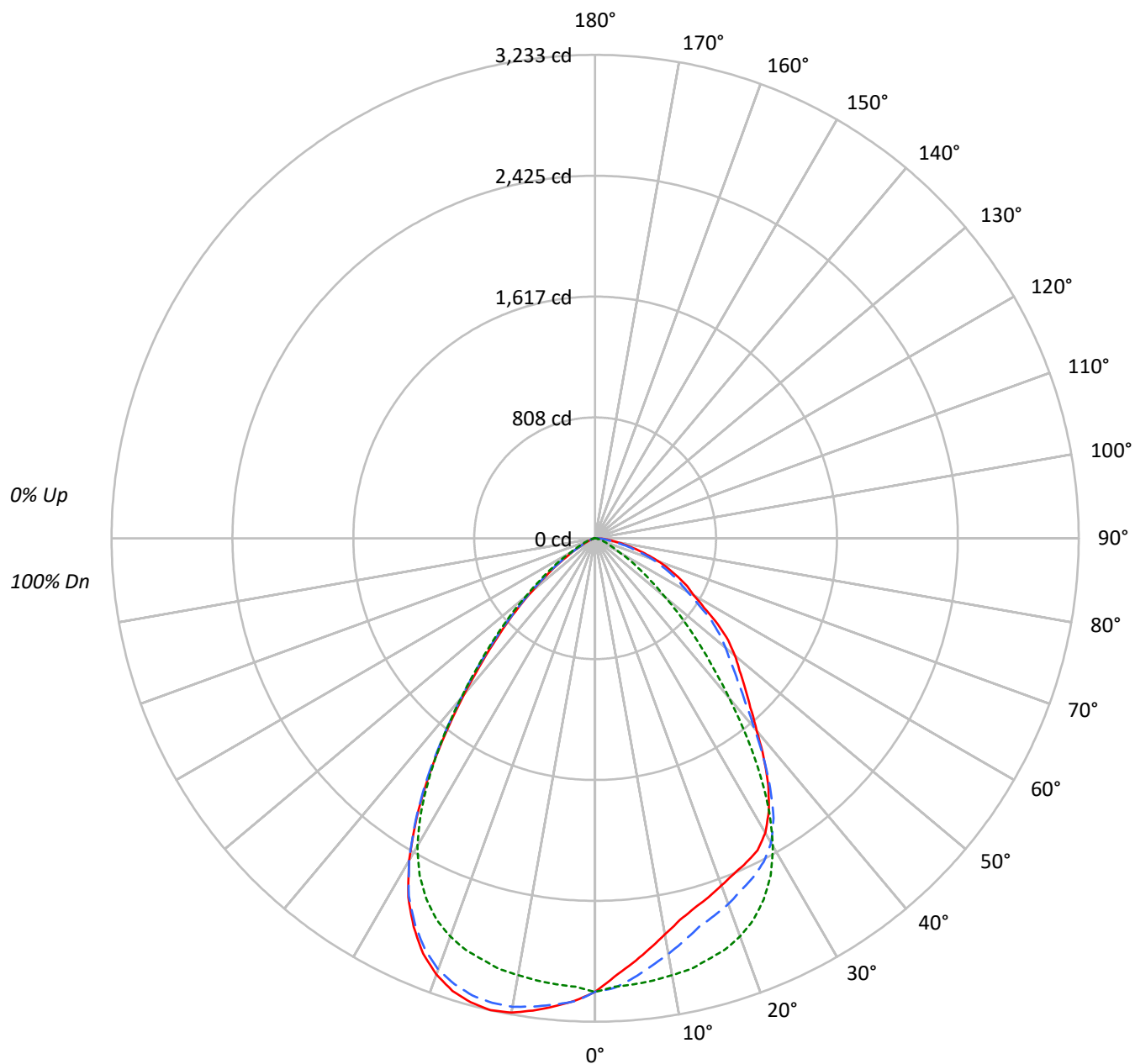
Lumens per Lamp: N/A
Luminaire Lumens: 5317.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101	109	106	103	100		101	99	97		98	96	94		94	93	91
2	104	97	92	87	101	95	90	86		92	88	84		89	85	82		86	83	81
3	96	88	81	76	94	86	80	75		83	78	74		81	76	73		78	75	72
4	90	80	72	67	88	78	72	66		76	70	66		74	69	65		72	68	64
5	83	73	65	60	82	72	65	59		70	63	59		68	62	58		66	61	58
6	78	67	59	53	76	66	59	53		64	58	53		62	57	52		61	56	52
7	73	61	54	48	71	61	53	48		59	53	48		58	52	48		56	51	47
8	68	57	49	44	67	56	49	44		55	48	44		54	48	43		52	47	43
9	64	52	45	40	63	52	45	40		51	44	40		50	44	40		49	44	40
10	61	49	42	37	59	48	42	37		47	41	37		47	41	37		46	40	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	372651	372651	372651
5°	351889	369253	387566
10°	335487	370104	401791
15°	325638	370891	408653
20°	322962	370498	405758
25°	324272	361359	388904
30°	322729	337128	352647
35°	302487	287850	290774
40°	269540	223176	218157
45°	246521	166392	156193
50°	233078	116549	105349
55°	214338	78693	66141
60°	187253	46070	36487
65°	177266	29535	20436
70°	161496	21085	12644
75°	133619	14857	9304
80°	105062	8348	5518
85°	93737	5638	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.6	5.4
10°-20°	822.2	15.5
20°-30°	1218.8	22.9
30°-40°	1220.5	23.0
40°-50°	853.0	16.0
50°-60°	507.6	9.5
60°-70°	264.9	5.0
70°-80°	117.8	2.2
80°-90°	25.7	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°	2327.6	43.8
0°-40°	3548.1	66.7
0°-60°	4908.6	92.3
0°-90°	5317.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5317.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3033	3033	3033	3033	3033	
5°	2853	2951	2994	3131	3143	268
15°	2560	2689	2916	3166	3213	725
25°	2392	2502	2666	2850	2869	1102
35°	2017	2040	1919	1954	1939	1250
45°	1419	1348	958	926	899	1102
55°	1001	938	367	320	309	888
65°	610	559	102	74	70	603
75°	282	246	31	20	20	304
85°	66	51	4	4	0	74
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°	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3
2.5°	2935.5	2970.8	2935.5	2947.3	2994.2	2951.1	2974.6	2974.6	2962.9	2990.2	3009.8
5°	2853.4	2888.6	2853.4	2869.0	2919.9	2876.8	2904.3	2896.4	2900.4	2923.9	2951.1
7.5°	2771.4	2798.7	2767.4	2787.0	2833.9	2798.7	2822.1	2822.1	2826.1	2861.2	2884.8
10°	2689.3	2712.7	2689.3	2704.9	2755.8	2724.5	2740.1	2744.0	2755.8	2787.0	2822.1
12.5°	2615.0	2634.6	2611.1	2634.6	2677.5	2646.2	2665.8	2669.7	2681.5	2716.7	2755.8
15°	2560.3	2579.9	2556.4	2575.9	2615.0	2591.5	2607.1	2615.0	2622.8	2654.0	2689.3
17.5°	2517.4	2533.0	2513.4	2536.8	2568.1	2540.8	2564.2	2564.2	2575.9	2607.1	2646.2
20°	2470.3	2485.9	2470.3	2489.9	2525.2	2501.7	2521.2	2521.2	2533.0	2568.1	2603.3
22.5°	2427.4	2435.2	2427.4	2443.0	2478.1	2458.7	2470.3	2474.3	2485.9	2517.4	2548.6
25°	2392.2	2407.8	2400.0	2415.6	2439.1	2419.6	2431.2	2435.2	2446.9	2474.3	2501.7
27.5°	2353.1	2360.9	2353.1	2372.7	2392.2	2376.5	2388.3	2384.4	2392.2	2415.6	2439.1
30°	2275.0	2282.8	2282.8	2294.4	2310.2	2302.4	2314.0	2302.4	2310.2	2329.7	2353.1
32.5°	2161.6	2165.5	2169.4	2181.2	2192.8	2181.2	2189.0	2189.0	2189.0	2204.6	2220.3
35°	2016.9	2024.7	2020.9	2028.7	2040.4	2036.5	2036.5	2032.5	2024.7	2032.5	2040.4
37.5°	1852.8	1841.0	1841.0	1852.8	1860.6	1845.0	1852.8	1845.0	1845.0	1848.8	1848.8
40°	1680.7	1669.1	1680.7	1684.7	1688.6	1680.7	1676.9	1669.1	1657.3	1661.3	1653.5
42.5°	1536.2	1528.3	1532.3	1532.3	1536.2	1528.3	1532.3	1516.6	1504.8	1497.0	1485.4
45°	1418.9	1407.2	1418.9	1411.1	1411.1	1407.2	1403.2	1395.4	1379.8	1368.2	1348.5
47.5°	1309.5	1309.5	1313.3	1313.3	1313.3	1305.5	1305.5	1289.9	1274.2	1258.6	1231.3
50°	1219.5	1211.7	1227.3	1227.3	1215.7	1211.7	1215.7	1196.1	1184.4	1164.8	1137.4
52.5°	1121.8	1121.8	1125.8	1125.8	1121.8	1114.0	1117.9	1102.3	1090.5	1071.1	1043.6
55°	1000.7	992.9	1004.6	1004.6	1000.7	996.7	1000.7	988.9	977.3	961.6	938.1
57.5°	863.9	859.9	867.7	871.7	863.9	863.9	867.7	856.1	852.1	836.5	813.0
60°	762.1	758.3	766.1	770.1	762.1	762.1	762.1	746.5	738.7	723.1	707.4
62.5°	691.8	688.0	695.8	691.8	688.0	684.0	688.0	672.4	664.5	648.9	633.3
65°	609.8	613.7	617.7	617.7	613.7	609.8	609.8	602.0	594.2	578.6	559.0
67.5°	531.5	531.5	535.5	539.4	535.5	535.5	535.5	523.7	515.9	504.3	480.8
70°	449.6	445.6	457.4	457.4	449.6	453.4	449.6	445.6	437.8	422.1	402.7
72.5°	363.5	363.5	367.4	367.4	363.5	363.5	363.5	359.6	347.8	340.0	320.5
75°	281.5	281.5	285.3	289.3	281.5	281.5	285.3	277.5	269.7	258.0	246.2
77.5°	211.1	207.2	211.1	211.1	207.2	207.2	207.2	203.3	199.3	187.5	175.9
80°	148.5	144.6	148.5	148.5	148.5	144.6	144.6	140.7	140.7	132.8	121.2
82.5°	101.6	97.8	101.6	101.6	101.6	97.8	97.8	97.8	93.8	89.9	82.1
85°	66.5	62.5	62.5	66.5	62.5	62.5	62.5	62.5	58.7	54.7	50.9
87.5°	31.3	31.3	31.3	31.3	31.3	31.3	31.3	27.4	27.4	27.4	23.4
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°	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3
2.5°	2994.2	2986.4	3009.8	3002.0	3005.8	2986.4	3017.6	3002.0	3021.5	3002.0	3041.1
5°	2943.3	2935.5	2970.8	2966.8	2970.8	2955.1	2990.2	2986.4	3009.8	2994.2	3037.1
7.5°	2888.6	2880.8	2919.9	2923.9	2931.7	2916.1	2962.9	2962.9	2986.4	2982.4	3029.3
10°	2826.1	2829.9	2869.0	2876.8	2892.6	2884.8	2927.7	2939.5	2970.8	2966.8	3025.5
12.5°	2767.4	2767.4	2818.3	2833.9	2845.6	2841.7	2892.6	2908.2	2943.3	2951.1	3005.8
15°	2708.9	2712.7	2759.6	2783.1	2798.7	2794.8	2849.6	2869.0	2912.1	2916.1	2982.4
17.5°	2661.8	2658.0	2708.9	2728.3	2751.8	2748.0	2806.5	2829.9	2873.0	2884.8	2947.3
20°	2622.8	2618.9	2665.8	2689.3	2704.9	2701.1	2759.6	2787.0	2826.1	2833.9	2896.4
22.5°	2575.9	2568.1	2615.0	2634.6	2650.2	2646.2	2697.1	2716.7	2755.8	2763.6	2822.1
25°	2521.2	2513.4	2556.4	2568.1	2579.9	2572.1	2615.0	2626.8	2658.0	2665.8	2724.5
27.5°	2458.7	2439.1	2474.3	2474.3	2482.1	2470.3	2501.7	2513.4	2540.8	2540.8	2595.5
30°	2360.9	2333.6	2353.1	2349.3	2353.1	2337.5	2357.1	2360.9	2380.5	2376.5	2415.6
32.5°	2224.1	2185.0	2196.8	2185.0	2173.4	2149.9	2173.4	2165.5	2181.2	2165.5	2200.6
35°	2036.5	1997.5	1993.5	1977.8	1966.2	1946.6	1946.6	1927.1	1931.0	1919.3	1942.8
37.5°	1833.2	1782.5	1774.7	1743.4	1723.8	1700.4	1700.4	1684.7	1665.1	1657.3	1676.9
40°	1633.9	1579.2	1559.7	1508.8	1489.2	1465.8	1450.1	1430.7	1422.9	1391.6	1407.2
42.5°	1461.9	1403.2	1360.3	1305.5	1286.0	1250.8	1227.3	1203.9	1192.3	1157.0	1172.6
45°	1317.3	1247.0	1200.1	1129.6	1102.3	1063.2	1028.0	1000.7	973.3	957.7	949.9
47.5°	1196.1	1121.8	1059.3	981.1	938.1	903.0	856.1	828.6	793.6	773.9	762.1
50°	1094.5	1012.4	942.0	852.1	809.2	770.1	715.3	672.4	641.1	609.8	602.0
52.5°	1004.6	918.6	840.4	738.7	688.0	641.1	582.4	535.5	508.1	473.0	469.0
55°	899.0	824.8	738.7	633.3	582.4	535.5	473.0	426.1	390.9	367.4	359.6
57.5°	785.7	715.3	633.3	527.7	476.8	426.1	367.4	324.4	293.1	273.7	269.7
60°	680.2	613.7	535.5	430.0	379.1	336.2	273.7	230.6	203.3	187.5	179.7
62.5°	602.0	539.4	465.2	367.4	320.5	277.5	219.0	179.7	156.3	140.7	132.8
65°	527.7	465.2	398.7	308.8	269.7	230.6	175.9	140.7	117.2	101.6	93.8
67.5°	449.6	394.9	332.2	258.0	219.0	187.5	140.7	109.4	89.9	78.1	70.3
70°	371.3	320.5	269.7	207.2	179.7	148.5	109.4	86.0	66.5	58.7	50.9
72.5°	293.1	254.0	211.1	160.3	136.8	117.2	86.0	62.5	50.9	43.1	35.2
75°	219.0	191.5	156.3	121.2	101.6	86.0	62.5	46.9	39.1	31.3	27.4
77.5°	156.3	132.8	109.4	82.1	74.3	62.5	43.1	35.2	27.4	19.6	15.6
80°	105.6	93.8	74.3	58.7	46.9	43.1	31.3	23.4	15.6	11.8	11.8
82.5°	70.3	58.7	46.9	35.2	31.3	27.4	19.6	15.6	11.8	7.8	7.8
85°	43.1	35.2	27.4	19.6	19.6	15.6	11.8	7.8	4.0	4.0	4.0
87.5°	19.6	15.6	11.8	7.8	7.8	4.0	4.0	4.0	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3
2.5°	3072.3	3048.9	3033.3	3052.7	3060.5	3048.9	3060.5	3080.2	3099.8	3103.6	3048.9
5°	3076.3	3052.7	3044.9	3068.4	3072.3	3068.4	3080.2	3107.6	3131.0	3138.8	3084.1
7.5°	3076.3	3060.5	3056.7	3084.1	3088.0	3084.1	3103.6	3134.9	3158.3	3173.9	3119.2
10°	3068.4	3060.5	3064.5	3088.0	3095.8	3095.8	3123.2	3158.3	3181.7	3197.4	3142.7
12.5°	3056.7	3056.7	3056.7	3084.1	3092.0	3095.8	3119.2	3166.1	3181.7	3205.2	3150.5
15°	3037.1	3037.1	3037.1	3064.5	3076.3	3076.3	3103.6	3146.7	3166.1	3189.6	3134.9
17.5°	3002.0	3002.0	3005.8	3029.3	3041.1	3041.1	3068.4	3115.4	3127.0	3154.5	3099.8
20°	2951.1	2951.1	2955.1	2978.6	2990.2	2982.4	3017.6	3056.7	3068.4	3092.0	3037.1
22.5°	2876.8	2876.8	2876.8	2900.4	2908.2	2904.3	2939.5	2974.6	2974.6	3005.8	2947.3
25°	2767.4	2775.2	2767.4	2790.9	2798.7	2794.8	2826.1	2857.4	2849.6	2884.8	2826.1
27.5°	2634.6	2630.6	2630.6	2650.2	2650.2	2646.2	2669.7	2704.9	2697.1	2720.5	2665.8
30°	2450.9	2462.5	2443.0	2470.3	2458.7	2450.9	2466.5	2497.7	2485.9	2505.6	2462.5
32.5°	2239.7	2224.1	2224.1	2224.1	2231.9	2212.4	2228.1	2243.7	2231.9	2251.5	2204.6
35°	1962.2	1966.2	1954.4	1958.4	1962.2	1938.8	1954.4	1970.0	1954.4	1966.2	1923.1
37.5°	1684.7	1688.6	1661.3	1676.9	1661.3	1653.5	1669.1	1676.9	1661.3	1672.9	1626.0
40°	1407.2	1399.4	1395.4	1395.4	1399.4	1379.8	1391.6	1403.2	1391.6	1399.4	1356.4
42.5°	1164.8	1161.0	1153.2	1157.0	1145.2	1141.4	1145.2	1157.0	1145.2	1153.2	1121.8
45°	953.7	945.9	934.2	938.1	938.1	918.6	930.2	938.1	926.4	930.2	903.0
47.5°	758.3	746.5	746.5	742.7	742.7	734.9	746.5	742.7	730.9	738.7	711.4
50°	590.2	582.4	582.4	582.4	582.4	570.6	574.6	582.4	570.6	570.6	555.0
52.5°	461.2	449.6	441.8	441.8	441.8	437.8	437.8	441.8	430.0	430.0	426.1
55°	347.8	344.0	332.2	332.2	332.2	320.5	324.4	324.4	320.5	320.5	308.8
57.5°	258.0	246.2	238.4	238.4	230.6	230.6	226.8	230.6	222.8	222.8	215.0
60°	171.9	164.1	160.3	156.3	156.3	152.5	156.3	152.5	152.5	148.5	144.6
62.5°	125.0	117.2	109.4	109.4	109.4	105.6	105.6	105.6	105.6	105.6	101.6
65°	89.9	82.1	82.1	78.1	78.1	74.3	74.3	74.3	74.3	74.3	70.3
67.5°	62.5	58.7	54.7	54.7	54.7	54.7	54.7	54.7	50.9	50.9	50.9
70°	46.9	43.1	39.1	39.1	39.1	39.1	39.1	35.2	39.1	39.1	35.2
72.5°	31.3	31.3	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
75°	23.4	23.4	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
77.5°	15.6	15.6	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
80°	11.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
82.5°	7.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
85°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	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: P859137

CATALOG NUMBER: LX4C55D010 EX4C559040 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3
2.5°	3107.6	3103.6	3095.8	3107.6	3076.3	3064.5	3060.5	3095.8
5°	3150.5	3142.7	3142.7	3154.5	3119.2	3111.4	3103.6	3142.7
7.5°	3189.6	3181.7	3181.7	3193.5	3162.3	3154.5	3146.7	3185.7
10°	3213.0	3213.0	3213.0	3220.8	3193.5	3185.7	3181.7	3220.8
12.5°	3224.8	3224.8	3220.8	3236.4	3201.4	3201.4	3193.5	3232.6
15°	3209.2	3209.2	3209.2	3220.8	3189.6	3181.7	3181.7	3213.0
17.5°	3170.1	3170.1	3166.1	3177.9	3142.7	3142.7	3138.8	3173.9
20°	3111.4	3111.4	3103.6	3119.2	3084.1	3072.3	3068.4	3103.6
22.5°	3017.6	3013.7	3009.8	3017.6	2986.4	2978.6	2974.6	3005.8
25°	2896.4	2892.6	2884.8	2892.6	2857.4	2845.6	2845.6	2869.0
27.5°	2724.5	2724.5	2712.7	2724.5	2685.3	2681.5	2677.5	2704.9
30°	2513.4	2497.7	2489.9	2505.6	2466.5	2466.5	2458.7	2485.9
32.5°	2251.5	2235.9	2231.9	2239.7	2204.6	2192.8	2208.5	2224.1
35°	1950.6	1954.4	1938.8	1938.8	1907.5	1911.3	1915.3	1938.8
37.5°	1661.3	1653.5	1649.5	1653.5	1630.0	1622.2	1614.4	1637.8
40°	1391.6	1372.0	1368.2	1368.2	1348.5	1344.7	1348.5	1360.3
42.5°	1137.4	1133.6	1117.9	1125.8	1106.1	1114.0	1110.1	1110.1
45°	918.6	922.4	906.8	918.6	903.0	891.2	891.2	899.0
47.5°	727.1	727.1	723.1	723.1	711.4	715.3	707.4	719.2
50°	562.8	562.8	555.0	559.0	551.2	551.2	547.2	551.2
52.5°	430.0	426.1	426.1	422.1	414.3	418.3	422.1	414.3
55°	312.7	316.6	308.8	312.7	304.9	308.8	304.9	308.8
57.5°	215.0	219.0	211.1	219.0	211.1	215.0	211.1	211.1
60°	148.5	148.5	144.6	148.5	144.6	144.6	140.7	148.5
62.5°	101.6	101.6	101.6	101.6	101.6	97.8	101.6	101.6
65°	74.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
67.5°	50.9	50.9	50.9	50.9	50.9	50.9	50.9	50.9
70°	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
72.5°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
75°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
77.5°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
80°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
82.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
85°	4.0	4.0	4.0	0.0	4.0	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)