

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: P859095

Luminaire Tested: **LX4C55D010 EX4C559030 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P859095
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 EX4C559030 4LBSWNH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

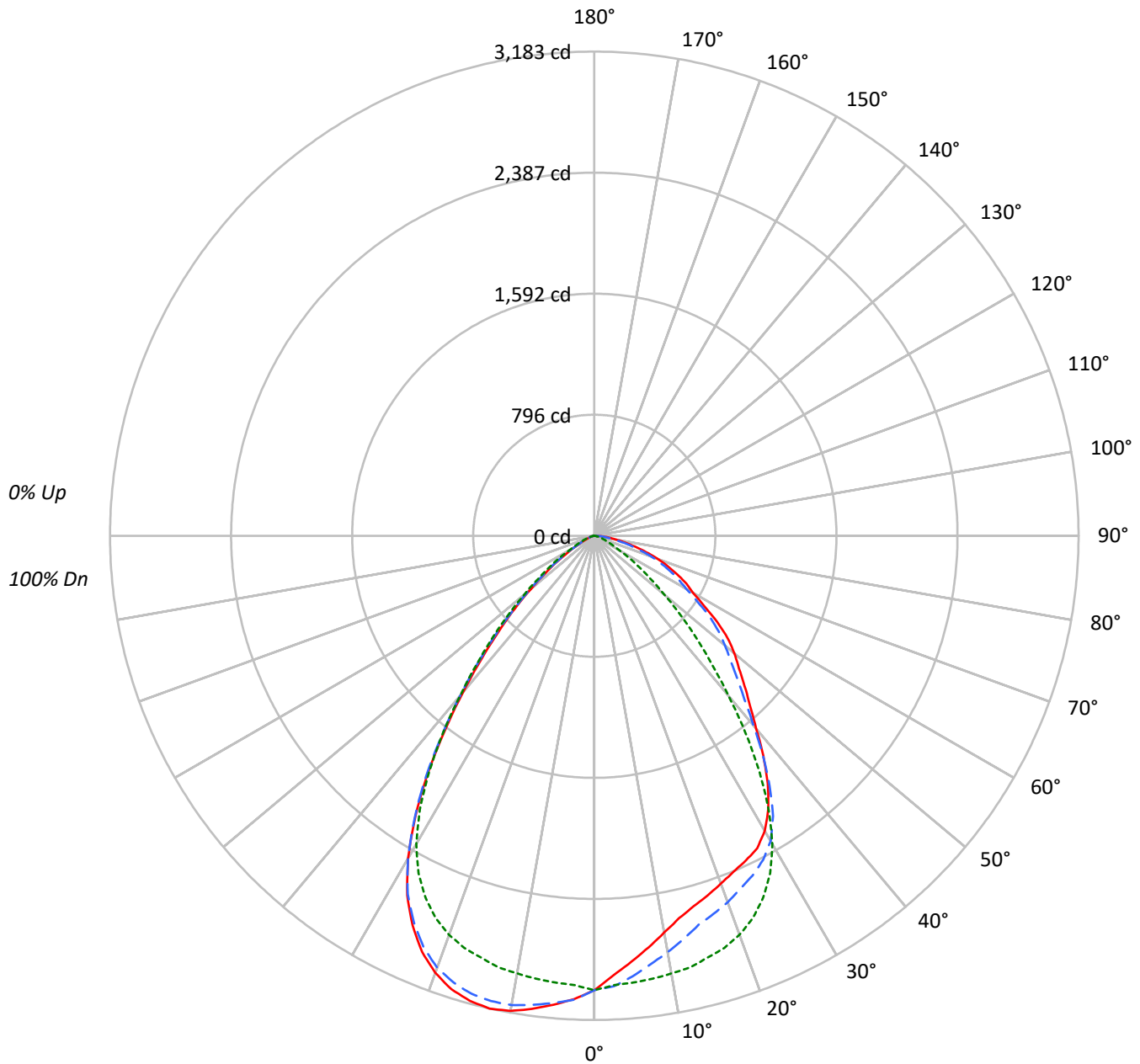
Lumens per Lamp: N/A
Luminaire Lumens: 5236.0 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P859095

CATALOG NUMBER: LX4C55D010 EX4C559030 4LBSWNH

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°	366976	366976	366976
5°	346525	363629	381659
10°	330372	364466	395678
15°	320677	365231	402433
20°	318046	364863	399574
25°	319324	355856	382980
30°	317807	331993	347285
35°	297883	283470	286335
40°	265435	219776	214837
45°	242768	163855	153813
50°	229542	114790	103743
55°	211083	77493	65113
60°	184403	45382	35922
65°	174592	29070	20145
70°	159018	20762	12464
75°	131578	14620	9161
80°	103434	8207	5448
85°	92328	5497	0



TEST NUMBER: P859095

CATALOG NUMBER: LX4C55D010 EX4C559030 4LBSWNH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.2	5.4
10°-20°	809.7	15.5
20°-30°	1200.3	22.9
30°-40°	1201.9	23.0
40°-50°	840.0	16.0
50°-60°	499.8	9.5
60°-70°	260.9	5.0
70°-80°	116.0	2.2
80°-90°	25.3	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°	2292.1	43.8
0°-40°	3494.0	66.7
0°-60°	4833.8	92.3
0°-90°	5236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5236.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2987	2987	2987	2987	2987	
5°	2810	2906	2949	3083	3095	263
15°	2521	2648	2872	3118	3164	714
25°	2356	2464	2625	2806	2825	1085
35°	1986	2009	1890	1925	1909	1231
45°	1397	1328	943	912	885	1085
55°	986	924	362	316	304	874
65°	601	550	100	73	69	594
75°	277	242	31	19	19	300
85°	66	50	4	4	0	73
90°	0	0	0	0	0	



TEST NUMBER: P859095

CATALOG NUMBER: LX4C55D010 EX4C559030 4LBSWNH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1
2.5°	2890.8	2925.5	2890.8	2902.4	2948.6	2906.2	2929.3	2929.3	2917.8	2944.7	2964.0
5°	2809.9	2844.6	2809.9	2825.3	2875.4	2833.0	2860.0	2852.3	2856.2	2879.3	2906.2
7.5°	2729.2	2756.0	2725.3	2744.6	2790.8	2756.0	2779.1	2779.1	2783.1	2817.6	2840.8
10°	2648.3	2671.4	2648.3	2663.7	2713.8	2683.0	2698.4	2702.2	2713.8	2744.6	2779.1
12.5°	2575.1	2594.4	2571.4	2594.4	2636.7	2605.9	2625.2	2629.0	2640.6	2675.3	2713.8
15°	2521.3	2540.6	2517.5	2536.6	2575.1	2552.0	2567.4	2575.1	2582.8	2613.6	2648.3
17.5°	2479.0	2494.4	2475.1	2498.2	2529.0	2502.1	2525.2	2525.2	2536.6	2567.4	2605.9
20°	2432.7	2448.1	2432.7	2452.0	2486.7	2463.6	2482.8	2482.8	2494.4	2529.0	2563.7
22.5°	2390.4	2398.1	2390.4	2405.8	2440.4	2421.2	2432.7	2436.6	2448.1	2479.0	2509.8
25°	2355.7	2371.1	2363.4	2378.8	2401.9	2382.7	2394.2	2398.1	2409.6	2436.6	2463.6
27.5°	2317.3	2324.9	2317.3	2336.6	2355.7	2340.3	2352.0	2348.0	2355.7	2378.8	2401.9
30°	2240.3	2248.0	2248.0	2259.5	2275.0	2267.3	2278.8	2267.3	2275.0	2294.2	2317.3
32.5°	2128.6	2132.6	2136.3	2147.9	2159.4	2147.9	2155.6	2155.6	2155.6	2171.0	2186.4
35°	1986.2	1993.9	1990.1	1997.8	2009.3	2005.5	2005.5	2001.6	1993.9	2001.6	2009.3
37.5°	1824.6	1813.0	1813.0	1824.6	1832.3	1816.9	1824.6	1816.9	1816.9	1820.7	1820.7
40°	1655.1	1643.7	1655.1	1659.1	1662.8	1655.1	1651.4	1643.7	1632.0	1636.0	1628.3
42.5°	1512.8	1505.0	1508.9	1508.9	1512.8	1505.0	1508.9	1493.5	1481.9	1474.2	1462.7
45°	1397.3	1385.8	1397.3	1389.6	1389.6	1385.8	1381.9	1374.2	1358.8	1347.3	1328.0
47.5°	1289.5	1289.5	1293.3	1293.3	1293.3	1285.6	1285.6	1270.2	1254.8	1239.4	1212.6
50°	1201.0	1193.3	1208.6	1208.6	1197.2	1193.3	1197.2	1177.9	1166.4	1147.1	1120.1
52.5°	1104.7	1104.7	1108.6	1108.6	1104.7	1097.0	1100.9	1085.5	1073.9	1054.7	1027.7
55°	985.5	977.8	989.2	989.2	985.5	981.6	985.5	973.9	962.4	947.0	923.8
57.5°	850.7	846.8	854.5	858.4	850.7	850.7	854.5	843.0	839.1	823.7	800.6
60°	750.5	746.8	754.5	758.4	750.5	750.5	750.5	735.1	727.5	712.1	696.7
62.5°	681.3	677.5	685.2	681.3	677.5	673.6	677.5	662.1	654.4	639.0	623.6
65°	600.6	604.3	608.2	608.2	604.3	600.6	600.6	592.9	585.2	569.8	550.5
67.5°	523.4	523.4	527.4	531.1	527.4	527.4	527.4	515.7	508.1	496.6	473.5
70°	442.7	438.8	450.4	450.4	442.7	446.5	442.7	438.8	431.1	415.7	396.5
72.5°	357.9	357.9	361.8	361.8	357.9	357.9	357.9	354.1	342.5	334.8	315.7
75°	277.2	277.2	281.0	284.9	277.2	277.2	281.0	273.3	265.6	254.1	242.5
77.5°	207.9	204.0	207.9	207.9	204.0	204.0	204.0	200.2	196.3	184.7	173.2
80°	146.2	142.4	146.2	146.2	146.2	142.4	142.4	138.5	138.5	130.8	119.4
82.5°	100.0	96.3	100.0	100.0	100.0	96.3	96.3	96.3	92.3	88.6	80.9
85°	65.5	61.6	61.6	65.5	61.6	61.6	61.6	61.6	57.8	53.9	50.1
87.5°	30.8	30.8	30.8	30.8	30.8	30.8	30.8	27.0	27.0	27.0	23.1
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: P859095

CATALOG NUMBER: LX4C55D010 EX4C559030 4LBSWNH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1
2.5°	2948.6	2940.9	2964.0	2956.3	2960.1	2940.9	2971.7	2956.3	2975.4	2956.3	2994.8
5°	2898.5	2890.8	2925.5	2921.6	2925.5	2910.1	2944.7	2940.9	2964.0	2948.6	2990.8
7.5°	2844.6	2836.9	2875.4	2879.3	2887.0	2871.6	2917.8	2917.8	2940.9	2937.0	2983.1
10°	2783.1	2786.8	2825.3	2833.0	2848.5	2840.8	2883.1	2894.7	2925.5	2921.6	2979.4
12.5°	2725.3	2725.3	2775.4	2790.8	2802.2	2798.4	2848.5	2863.9	2898.5	2906.2	2960.1
15°	2667.6	2671.4	2717.6	2740.7	2756.0	2752.3	2806.1	2825.3	2867.7	2871.6	2937.0
17.5°	2621.3	2617.5	2667.6	2686.8	2709.9	2706.1	2763.7	2786.8	2829.2	2840.8	2902.4
20°	2582.8	2579.0	2625.2	2648.3	2663.7	2659.9	2717.6	2744.6	2783.1	2790.8	2852.3
22.5°	2536.6	2529.0	2575.1	2594.4	2609.8	2605.9	2656.0	2675.3	2713.8	2721.5	2779.1
25°	2482.8	2475.1	2517.5	2529.0	2540.6	2532.9	2575.1	2586.7	2617.5	2625.2	2683.0
27.5°	2421.2	2401.9	2436.6	2436.6	2444.3	2432.7	2463.6	2475.1	2502.1	2502.1	2556.0
30°	2324.9	2298.1	2317.3	2313.5	2317.3	2301.9	2321.2	2324.9	2344.3	2340.3	2378.8
32.5°	2190.2	2151.7	2163.3	2151.7	2140.3	2117.2	2140.3	2132.6	2147.9	2132.6	2167.1
35°	2005.5	1967.0	1963.1	1947.7	1936.2	1916.9	1916.9	1897.8	1901.5	1890.1	1913.2
37.5°	1805.3	1755.3	1747.6	1716.9	1697.5	1674.5	1674.5	1659.1	1639.7	1632.0	1651.4
40°	1609.0	1555.1	1535.9	1485.8	1466.5	1443.4	1428.0	1408.9	1401.2	1370.4	1385.8
42.5°	1439.7	1381.9	1339.6	1285.6	1266.4	1231.7	1208.6	1185.6	1174.1	1139.4	1154.8
45°	1297.2	1228.0	1181.8	1112.4	1085.5	1047.0	1012.3	985.5	958.5	943.1	935.4
47.5°	1177.9	1104.7	1043.1	966.2	923.8	889.2	843.0	816.0	781.5	762.2	750.5
50°	1077.8	996.9	927.7	839.1	796.9	758.4	704.4	662.1	631.3	600.6	592.9
52.5°	989.2	904.6	827.6	727.5	677.5	631.3	573.5	527.4	500.4	465.8	461.9
55°	885.3	812.3	727.5	623.6	573.5	527.4	465.8	419.6	384.9	361.8	354.1
57.5°	773.8	704.4	623.6	519.7	469.6	419.6	361.8	319.4	288.7	269.5	265.6
60°	669.8	604.3	527.4	423.4	373.3	331.1	269.5	227.1	200.2	184.7	177.0
62.5°	592.9	531.1	458.1	361.8	315.7	273.3	215.6	177.0	153.9	138.5	130.8
65°	519.7	458.1	392.6	304.0	265.6	227.1	173.2	138.5	115.4	100.0	92.3
67.5°	442.7	388.8	327.1	254.1	215.6	184.7	138.5	107.7	88.6	77.0	69.3
70°	365.6	315.7	265.6	204.0	177.0	146.2	107.7	84.7	65.5	57.8	50.1
72.5°	288.7	250.2	207.9	157.8	134.7	115.4	84.7	61.6	50.1	42.4	34.7
75°	215.6	188.6	153.9	119.4	100.0	84.7	61.6	46.2	38.5	30.8	27.0
77.5°	153.9	130.8	107.7	80.9	73.2	61.6	42.4	34.7	27.0	19.3	15.4
80°	104.0	92.3	73.2	57.8	46.2	42.4	30.8	23.1	15.4	11.6	11.6
82.5°	69.3	57.8	46.2	34.7	30.8	27.0	19.3	15.4	11.6	7.7	7.7
85°	42.4	34.7	27.0	19.3	19.3	15.4	11.6	7.7	3.9	3.9	3.9
87.5°	19.3	15.4	11.6	7.7	7.7	3.9	3.9	3.9	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: P859095

CATALOG NUMBER: LX4C55D010 EX4C559030 4LBSWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1
2.5°	3025.5	3002.5	2987.1	3006.2	3013.9	3002.5	3013.9	3033.2	3052.5	3056.3	3002.5
5°	3029.5	3006.2	2998.5	3021.6	3025.5	3021.6	3033.2	3060.2	3083.3	3091.0	3037.2
7.5°	3029.5	3013.9	3010.1	3037.2	3040.9	3037.2	3056.3	3087.1	3110.2	3125.6	3071.7
10°	3021.6	3013.9	3017.8	3040.9	3048.6	3048.6	3075.6	3110.2	3133.3	3148.7	3094.8
12.5°	3010.1	3010.1	3010.1	3037.2	3044.9	3048.6	3071.7	3117.9	3133.3	3156.4	3102.5
15°	2990.8	2990.8	2990.8	3017.8	3029.5	3029.5	3056.3	3098.7	3117.9	3141.0	3087.1
17.5°	2956.3	2956.3	2960.1	2983.1	2994.8	2994.8	3021.6	3067.9	3079.4	3106.4	3052.5
20°	2906.2	2906.2	2910.1	2933.2	2944.7	2937.0	2971.7	3010.1	3021.6	3044.9	2990.8
22.5°	2833.0	2833.0	2833.0	2856.2	2863.9	2860.0	2894.7	2929.3	2929.3	2960.1	2902.4
25°	2725.3	2733.0	2725.3	2748.3	2756.0	2752.3	2783.1	2813.8	2806.1	2840.8	2783.1
27.5°	2594.4	2590.5	2590.5	2609.8	2609.8	2605.9	2629.0	2663.7	2656.0	2679.1	2625.2
30°	2413.5	2425.0	2405.8	2432.7	2421.2	2413.5	2428.9	2459.7	2448.1	2467.4	2425.0
32.5°	2205.6	2190.2	2190.2	2190.2	2197.9	2178.7	2194.1	2209.5	2197.9	2217.2	2171.0
35°	1932.3	1936.2	1924.6	1928.6	1932.3	1909.2	1924.6	1940.0	1924.6	1936.2	1893.8
37.5°	1659.1	1662.8	1636.0	1651.4	1636.0	1628.3	1643.7	1651.4	1636.0	1647.4	1601.3
40°	1385.8	1378.1	1374.2	1374.2	1378.1	1358.8	1370.4	1381.9	1370.4	1378.1	1335.7
42.5°	1147.1	1143.3	1135.6	1139.4	1127.8	1124.0	1127.8	1139.4	1127.8	1135.6	1104.7
45°	939.2	931.5	920.0	923.8	923.8	904.6	916.1	923.8	912.3	916.1	889.2
47.5°	746.8	735.1	735.1	731.4	731.4	723.7	735.1	731.4	719.8	727.5	700.6
50°	581.2	573.5	573.5	573.5	573.5	561.9	565.8	573.5	561.9	561.9	546.5
52.5°	454.2	442.7	435.0	435.0	435.0	431.1	431.1	435.0	423.4	423.4	419.6
55°	342.5	338.8	327.1	327.1	327.1	315.7	319.4	319.4	315.7	315.7	304.0
57.5°	254.1	242.5	234.8	234.8	227.1	227.1	223.3	227.1	219.4	219.4	211.7
60°	169.3	161.6	157.8	153.9	153.9	150.1	153.9	150.1	150.1	146.2	142.4
62.5°	123.1	115.4	107.7	107.7	107.7	104.0	104.0	104.0	104.0	104.0	100.0
65°	88.6	80.9	80.9	77.0	77.0	73.2	73.2	73.2	73.2	73.2	69.3
67.5°	61.6	57.8	53.9	53.9	53.9	53.9	53.9	53.9	50.1	50.1	50.1
70°	46.2	42.4	38.5	38.5	38.5	38.5	38.5	34.7	38.5	38.5	34.7
72.5°	30.8	30.8	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
75°	23.1	23.1	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
77.5°	15.4	15.4	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
80°	11.6	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
82.5°	7.7	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	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: P859095

CATALOG NUMBER: LX4C55D010 EX4C559030 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1	2987.1
2.5°	3060.2	3056.3	3048.6	3060.2	3029.5	3017.8	3013.9	3048.6
5°	3102.5	3094.8	3094.8	3106.4	3071.7	3064.0	3056.3	3094.8
7.5°	3141.0	3133.3	3133.3	3144.9	3114.1	3106.4	3098.7	3137.2
10°	3164.1	3164.1	3164.1	3171.8	3144.9	3137.2	3133.3	3171.8
12.5°	3175.7	3175.7	3171.8	3187.1	3152.6	3152.6	3144.9	3183.4
15°	3160.3	3160.3	3160.3	3171.8	3141.0	3133.3	3133.3	3164.1
17.5°	3121.8	3121.8	3117.9	3129.5	3094.8	3094.8	3091.0	3125.6
20°	3064.0	3064.0	3056.3	3071.7	3037.2	3025.5	3021.6	3056.3
22.5°	2971.7	2967.7	2964.0	2971.7	2940.9	2933.2	2929.3	2960.1
25°	2852.3	2848.5	2840.8	2848.5	2813.8	2802.2	2802.2	2825.3
27.5°	2683.0	2683.0	2671.4	2683.0	2644.4	2640.6	2636.7	2663.7
30°	2475.1	2459.7	2452.0	2467.4	2428.9	2428.9	2421.2	2448.1
32.5°	2217.2	2201.8	2197.9	2205.6	2171.0	2159.4	2174.8	2190.2
35°	1920.9	1924.6	1909.2	1909.2	1878.5	1882.2	1886.2	1909.2
37.5°	1636.0	1628.3	1624.4	1628.3	1605.2	1597.5	1589.8	1612.9
40°	1370.4	1351.1	1347.3	1347.3	1328.0	1324.2	1328.0	1339.6
42.5°	1120.1	1116.3	1100.9	1108.6	1089.3	1097.0	1093.2	1093.2
45°	904.6	908.4	893.0	904.6	889.2	877.6	877.6	885.3
47.5°	716.0	716.0	712.1	712.1	700.6	704.4	696.7	708.3
50°	554.2	554.2	546.5	550.5	542.8	542.8	538.8	542.8
52.5°	423.4	419.6	419.6	415.7	408.0	411.9	415.7	408.0
55°	308.0	311.7	304.0	308.0	300.3	304.0	300.3	304.0
57.5°	211.7	215.6	207.9	215.6	207.9	211.7	207.9	207.9
60°	146.2	146.2	142.4	146.2	142.4	142.4	138.5	146.2
62.5°	100.0	100.0	100.0	100.0	100.0	96.3	100.0	100.0
65°	73.2	69.3	69.3	69.3	69.3	69.3	69.3	69.3
67.5°	50.1	50.1	50.1	50.1	50.1	50.1	50.1	50.1
70°	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
72.5°	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
75°	19.3	19.3	19.3	19.3	19.3	19.3	19.3	19.3
77.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
80°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
85°	3.9	3.9	3.9	0.0	3.9	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)