

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: P859074

Luminaire Tested: **LX4C55D010 EX4C559027 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P859074
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 EX4C559027 4LBSWNH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

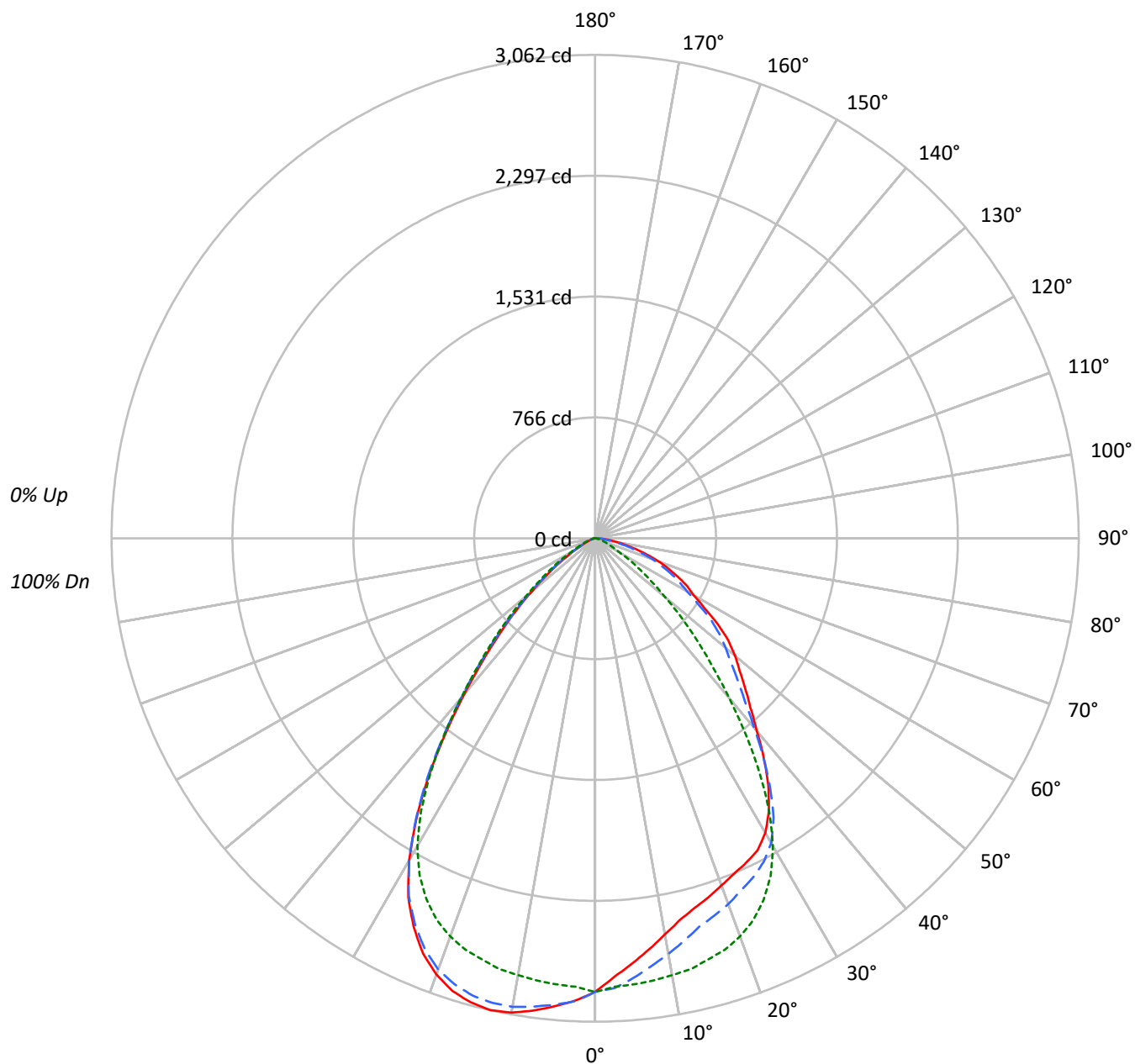
Lumens per Lamp: N/A
Luminaire Lumens: 5036.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	352958	352958	352958
5°	333292	349743	367083
10°	317760	350544	380558
15°	308429	351279	387056
20°	305901	350927	384317
25°	307124	342260	368354
30°	305664	319310	334021
35°	286500	272642	275402
40°	255299	211389	206642
45°	233491	157601	147941
50°	220770	110394	99768
55°	203008	74538	62629
60°	177376	43638	34546
65°	167906	27965	19360
70°	152947	19971	11997
75°	126547	14050	8829
80°	99472	7924	5235
85°	88804	5356	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.4	5.4
10°-20°	778.7	15.5
20°-30°	1154.4	22.9
30°-40°	1156.0	23.0
40°-50°	807.9	16.0
50°-60°	480.7	9.5
60°-70°	250.9	5.0
70°-80°	111.6	2.2
80°-90°	24.3	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°	2204.6	43.8
0°-40°	3360.6	66.7
0°-60°	4649.2	92.3
0°-90°	5036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5036.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2873	2873	2873	2873	2873	
5°	2703	2795	2836	2966	2977	253
15°	2425	2547	2762	2999	3043	687
25°	2266	2370	2525	2699	2717	1044
35°	1910	1932	1818	1851	1836	1184
45°	1344	1277	907	877	852	1043
55°	948	888	348	304	292	841
65°	578	529	96	70	67	571
75°	267	233	30	19	19	288
85°	63	48	4	4	0	70
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°	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0
2.5°	2780.4	2813.8	2780.4	2791.5	2836.0	2795.2	2817.4	2817.4	2806.3	2832.2	2850.8
5°	2702.6	2736.0	2702.6	2717.4	2765.6	2724.8	2750.8	2743.4	2747.1	2769.3	2795.2
7.5°	2624.9	2650.8	2621.2	2639.7	2684.2	2650.8	2673.0	2673.0	2676.7	2710.0	2732.3
10°	2547.2	2569.4	2547.2	2562.0	2610.1	2580.5	2595.3	2599.0	2610.1	2639.7	2673.0
12.5°	2476.8	2495.3	2473.1	2495.3	2536.0	2506.4	2524.9	2528.6	2539.7	2573.1	2610.1
15°	2425.0	2443.5	2421.3	2439.8	2476.8	2454.6	2469.4	2476.8	2484.2	2513.8	2547.2
17.5°	2384.3	2399.1	2380.5	2402.7	2432.4	2406.5	2428.7	2428.7	2439.8	2469.4	2506.4
20°	2339.8	2354.6	2339.8	2358.3	2391.7	2369.5	2387.9	2387.9	2399.1	2432.4	2465.7
22.5°	2299.1	2306.5	2299.1	2313.9	2347.2	2328.7	2339.8	2343.5	2354.6	2384.3	2413.9
25°	2265.7	2280.5	2273.1	2288.0	2310.2	2291.7	2302.8	2306.5	2317.6	2343.5	2369.5
27.5°	2228.7	2236.1	2228.7	2247.3	2265.7	2250.9	2262.1	2258.3	2265.7	2288.0	2310.2
30°	2154.7	2162.1	2162.1	2173.2	2188.1	2180.7	2191.7	2180.7	2188.1	2206.5	2228.7
32.5°	2047.3	2051.1	2054.7	2065.9	2076.9	2065.9	2073.3	2073.3	2073.3	2088.1	2102.9
35°	1910.3	1917.7	1914.1	1921.5	1932.5	1928.9	1928.9	1925.1	1917.7	1925.1	1932.5
37.5°	1754.9	1743.7	1743.7	1754.9	1762.3	1747.5	1754.9	1747.5	1747.5	1751.1	1751.1
40°	1591.9	1580.9	1591.9	1595.7	1599.3	1591.9	1588.3	1580.9	1569.7	1573.5	1566.1
42.5°	1455.1	1447.5	1451.3	1451.3	1455.1	1447.5	1451.3	1436.5	1425.3	1417.9	1406.9
45°	1343.9	1332.9	1343.9	1336.5	1336.5	1332.9	1329.1	1321.7	1306.9	1295.9	1277.3
47.5°	1240.3	1240.3	1243.9	1243.9	1243.9	1236.5	1236.5	1221.7	1206.9	1192.1	1166.3
50°	1155.1	1147.7	1162.5	1162.5	1151.4	1147.7	1151.4	1132.9	1121.8	1103.3	1077.3
52.5°	1062.5	1062.5	1066.3	1066.3	1062.5	1055.1	1058.9	1044.1	1032.9	1014.4	988.5
55°	947.8	940.4	951.5	951.5	947.8	944.1	947.8	936.7	925.6	910.8	888.5
57.5°	818.2	814.5	821.9	825.6	818.2	818.2	821.9	810.8	807.1	792.3	770.1
60°	721.9	718.2	725.6	729.4	721.9	721.9	721.9	707.1	699.7	684.9	670.1
62.5°	655.3	651.6	659.0	655.3	651.6	647.9	651.6	636.8	629.4	614.6	599.8
65°	577.6	581.2	585.0	585.0	581.2	577.6	577.6	570.2	562.8	548.0	529.4
67.5°	503.5	503.5	507.2	510.9	507.2	507.2	507.2	496.0	488.6	477.6	455.4
70°	425.8	422.0	433.2	433.2	425.8	429.4	425.8	422.0	414.6	399.8	381.4
72.5°	344.2	344.2	348.0	348.0	344.2	344.2	344.2	340.6	329.4	322.0	303.6
75°	266.6	266.6	270.2	274.0	266.6	266.6	270.2	262.8	255.4	244.4	233.2
77.5°	200.0	196.2	200.0	200.0	196.2	196.2	196.2	192.6	188.8	177.6	166.6
80°	140.6	137.0	140.6	140.6	140.6	137.0	137.0	133.2	133.2	125.8	114.8
82.5°	96.2	92.6	96.2	96.2	96.2	92.6	92.6	92.6	88.8	85.2	77.8
85°	63.0	59.2	59.2	63.0	59.2	59.2	59.2	59.2	55.6	51.8	48.2
87.5°	29.6	29.6	29.6	29.6	29.6	29.6	29.6	26.0	26.0	26.0	22.2
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°	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0
2.5°	2836.0	2828.6	2850.8	2843.4	2847.0	2828.6	2858.2	2843.4	2861.8	2843.4	2880.4
5°	2787.8	2780.4	2813.8	2810.0	2813.8	2798.9	2832.2	2828.6	2850.8	2836.0	2876.6
7.5°	2736.0	2728.6	2765.6	2769.3	2776.7	2761.9	2806.3	2806.3	2828.6	2824.8	2869.2
10°	2676.7	2680.4	2717.4	2724.8	2739.7	2732.3	2773.0	2784.1	2813.8	2810.0	2865.6
12.5°	2621.2	2621.2	2669.3	2684.2	2695.2	2691.6	2739.7	2754.5	2787.8	2795.2	2847.0
15°	2565.7	2569.4	2613.8	2636.0	2650.8	2647.1	2699.0	2717.4	2758.2	2761.9	2824.8
17.5°	2521.2	2517.5	2565.7	2584.2	2606.4	2602.7	2658.2	2680.4	2721.2	2732.3	2791.5
20°	2484.2	2480.5	2524.9	2547.2	2562.0	2558.3	2613.8	2639.7	2676.7	2684.2	2743.4
22.5°	2439.8	2432.4	2476.8	2495.3	2510.1	2506.4	2554.6	2573.1	2610.1	2617.5	2673.0
25°	2387.9	2380.5	2421.3	2432.4	2443.5	2436.1	2476.8	2487.9	2517.5	2524.9	2580.5
27.5°	2328.7	2310.2	2343.5	2343.5	2350.9	2339.8	2369.5	2380.5	2406.5	2406.5	2458.3
30°	2236.1	2210.3	2228.7	2225.1	2228.7	2213.9	2232.5	2236.1	2254.7	2250.9	2288.0
32.5°	2106.5	2069.5	2080.7	2069.5	2058.5	2036.3	2058.5	2051.1	2065.9	2051.1	2084.3
35°	1928.9	1891.9	1888.1	1873.3	1862.3	1843.7	1843.7	1825.3	1828.9	1817.9	1840.1
37.5°	1736.3	1688.3	1680.9	1651.3	1632.7	1610.5	1610.5	1595.7	1577.1	1569.7	1588.3
40°	1547.5	1495.7	1477.3	1429.1	1410.5	1388.3	1373.5	1355.1	1347.7	1318.1	1332.9
42.5°	1384.7	1329.1	1288.5	1236.5	1218.1	1184.7	1162.5	1140.3	1129.2	1095.9	1110.7
45°	1247.7	1181.1	1136.6	1069.9	1044.1	1007.0	973.7	947.8	921.9	907.1	899.7
47.5°	1132.9	1062.5	1003.3	929.3	888.5	855.2	810.8	784.9	751.6	733.0	721.9
50°	1036.7	958.9	892.2	807.1	766.4	729.4	677.5	636.8	607.2	577.6	570.2
52.5°	951.5	870.0	796.0	699.7	651.6	607.2	551.6	507.2	481.2	448.0	444.2
55°	851.5	781.2	699.7	599.8	551.6	507.2	448.0	403.6	370.2	348.0	340.6
57.5°	744.2	677.5	599.8	499.8	451.6	403.6	348.0	307.2	277.6	259.2	255.4
60°	644.2	581.2	507.2	407.2	359.0	318.4	259.2	218.4	192.6	177.6	170.2
62.5°	570.2	510.9	440.6	348.0	303.6	262.8	207.4	170.2	148.0	133.2	125.8
65°	499.8	440.6	377.6	292.4	255.4	218.4	166.6	133.2	111.0	96.2	88.8
67.5°	425.8	374.0	314.6	244.4	207.4	177.6	133.2	103.6	85.2	74.0	66.6
70°	351.6	303.6	255.4	196.2	170.2	140.6	103.6	81.4	63.0	55.6	48.2
72.5°	277.6	240.6	200.0	151.8	129.6	111.0	81.4	59.2	48.2	40.8	33.4
75°	207.4	181.4	148.0	114.8	96.2	81.4	59.2	44.4	37.0	29.6	26.0
77.5°	148.0	125.8	103.6	77.8	70.4	59.2	40.8	33.4	26.0	18.6	14.8
80°	100.0	88.8	70.4	55.6	44.4	40.8	29.6	22.2	14.8	11.2	11.2
82.5°	66.6	55.6	44.4	33.4	29.6	26.0	18.6	14.8	11.2	7.4	7.4
85°	40.8	33.4	26.0	18.6	18.6	14.8	11.2	7.4	3.8	3.8	3.8
87.5°	18.6	14.8	11.2	7.4	7.4	3.8	3.8	3.8	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°	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0
2.5°	2910.0	2887.8	2873.0	2891.4	2898.8	2887.8	2898.8	2917.4	2935.9	2939.6	2887.8
5°	2913.7	2891.4	2884.0	2906.2	2910.0	2906.2	2917.4	2943.4	2965.6	2973.0	2921.1
7.5°	2913.7	2898.8	2895.2	2921.1	2924.8	2921.1	2939.6	2969.2	2991.4	3006.2	2954.4
10°	2906.2	2898.8	2902.6	2924.8	2932.2	2932.2	2958.2	2991.4	3013.6	3028.4	2976.6
12.5°	2895.2	2895.2	2895.2	2921.1	2928.5	2932.2	2954.4	2998.8	3013.6	3035.8	2984.0
15°	2876.6	2876.6	2876.6	2902.6	2913.7	2913.7	2939.6	2980.4	2998.8	3021.0	2969.2
17.5°	2843.4	2843.4	2847.0	2869.2	2880.4	2880.4	2906.2	2950.8	2961.8	2987.8	2935.9
20°	2795.2	2795.2	2798.9	2821.2	2832.2	2824.8	2858.2	2895.2	2906.2	2928.5	2876.6
22.5°	2724.8	2724.8	2724.8	2747.1	2754.5	2750.8	2784.1	2817.4	2817.4	2847.0	2791.5
25°	2621.2	2628.6	2621.2	2643.4	2650.8	2647.1	2676.7	2706.4	2699.0	2732.3	2676.7
27.5°	2495.3	2491.6	2491.6	2510.1	2510.1	2506.4	2528.6	2562.0	2554.6	2576.8	2524.9
30°	2321.3	2332.4	2313.9	2339.8	2328.7	2321.3	2336.1	2365.7	2354.6	2373.1	2332.4
32.5°	2121.3	2106.5	2106.5	2106.5	2113.9	2095.5	2110.3	2125.1	2113.9	2132.5	2088.1
35°	1858.5	1862.3	1851.1	1854.9	1858.5	1836.3	1851.1	1865.9	1851.1	1862.3	1821.5
37.5°	1595.7	1599.3	1573.5	1588.3	1573.5	1566.1	1580.9	1588.3	1573.5	1584.5	1540.1
40°	1332.9	1325.5	1321.7	1321.7	1325.5	1306.9	1318.1	1329.1	1318.1	1325.5	1284.7
42.5°	1103.3	1099.6	1092.2	1095.9	1084.7	1081.1	1084.7	1095.9	1084.7	1092.2	1062.5
45°	903.3	895.9	884.8	888.5	888.5	870.0	881.1	888.5	877.4	881.1	855.2
47.5°	718.2	707.1	707.1	703.4	703.4	696.0	707.1	703.4	692.3	699.7	673.8
50°	559.0	551.6	551.6	551.6	551.6	540.5	544.2	551.6	540.5	540.5	525.7
52.5°	436.8	425.8	418.4	418.4	418.4	414.6	414.6	418.4	407.2	407.2	403.6
55°	329.4	325.8	314.6	314.6	314.6	303.6	307.2	307.2	303.6	303.6	292.4
57.5°	244.4	233.2	225.8	225.8	218.4	218.4	214.8	218.4	211.0	211.0	203.6
60°	162.8	155.4	151.8	148.0	148.0	144.4	148.0	144.4	144.4	140.6	137.0
62.5°	118.4	111.0	103.6	103.6	103.6	100.0	100.0	100.0	100.0	100.0	96.2
65°	85.2	77.8	77.8	74.0	74.0	70.4	70.4	70.4	70.4	70.4	66.6
67.5°	59.2	55.6	51.8	51.8	51.8	51.8	51.8	51.8	48.2	48.2	48.2
70°	44.4	40.8	37.0	37.0	37.0	37.0	37.0	33.4	37.0	37.0	33.4
72.5°	29.6	29.6	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
75°	22.2	22.2	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
77.5°	14.8	14.8	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
80°	11.2	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
82.5°	7.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
85°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	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: P859074

CATALOG NUMBER: LX4C55D010 EX4C559027 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0	2873.0
2.5°	2943.4	2939.6	2932.2	2943.4	2913.7	2902.6	2898.8	2932.2
5°	2984.0	2976.6	2976.6	2987.8	2954.4	2947.0	2939.6	2976.6
7.5°	3021.0	3013.6	3013.6	3024.8	2995.2	2987.8	2980.4	3017.4
10°	3043.2	3043.2	3043.2	3050.6	3024.8	3017.4	3013.6	3050.6
12.5°	3054.4	3054.4	3050.6	3065.4	3032.2	3032.2	3024.8	3061.8
15°	3039.6	3039.6	3039.6	3050.6	3021.0	3013.6	3013.6	3043.2
17.5°	3002.6	3002.6	2998.8	3010.0	2976.6	2976.6	2973.0	3006.2
20°	2947.0	2947.0	2939.6	2954.4	2921.1	2910.0	2906.2	2939.6
22.5°	2858.2	2854.4	2850.8	2858.2	2828.6	2821.2	2817.4	2847.0
25°	2743.4	2739.7	2732.3	2739.7	2706.4	2695.2	2695.2	2717.4
27.5°	2580.5	2580.5	2569.4	2580.5	2543.4	2539.7	2536.0	2562.0
30°	2380.5	2365.7	2358.3	2373.1	2336.1	2336.1	2328.7	2354.6
32.5°	2132.5	2117.7	2113.9	2121.3	2088.1	2076.9	2091.7	2106.5
35°	1847.5	1851.1	1836.3	1836.3	1806.7	1810.3	1814.1	1836.3
37.5°	1573.5	1566.1	1562.3	1566.1	1543.9	1536.5	1529.1	1551.3
40°	1318.1	1299.5	1295.9	1295.9	1277.3	1273.6	1277.3	1288.5
42.5°	1077.3	1073.7	1058.9	1066.3	1047.7	1055.1	1051.5	1051.5
45°	870.0	873.7	858.9	870.0	855.2	844.1	844.1	851.5
47.5°	688.6	688.6	684.9	684.9	673.8	677.5	670.1	681.2
50°	533.1	533.1	525.7	529.4	522.0	522.0	518.3	522.0
52.5°	407.2	403.6	403.6	399.8	392.4	396.2	399.8	392.4
55°	296.2	299.8	292.4	296.2	288.8	292.4	288.8	292.4
57.5°	203.6	207.4	200.0	207.4	200.0	203.6	200.0	200.0
60°	140.6	140.6	137.0	140.6	137.0	137.0	133.2	140.6
62.5°	96.2	96.2	96.2	96.2	96.2	92.6	96.2	96.2
65°	70.4	66.6	66.6	66.6	66.6	66.6	66.6	66.6
67.5°	48.2	48.2	48.2	48.2	48.2	48.2	48.2	48.2
70°	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4
72.5°	26.0	26.0	26.0	26.0	26.0	26.0	26.0	26.0
75°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
77.5°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
80°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
82.5°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
85°	3.8	3.8	3.8	0.0	3.8	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)