

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: P859116

Luminaire Tested: **LX4C55D010 EX4C559035 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P859116
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 EX4C559035 4LBSWNH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

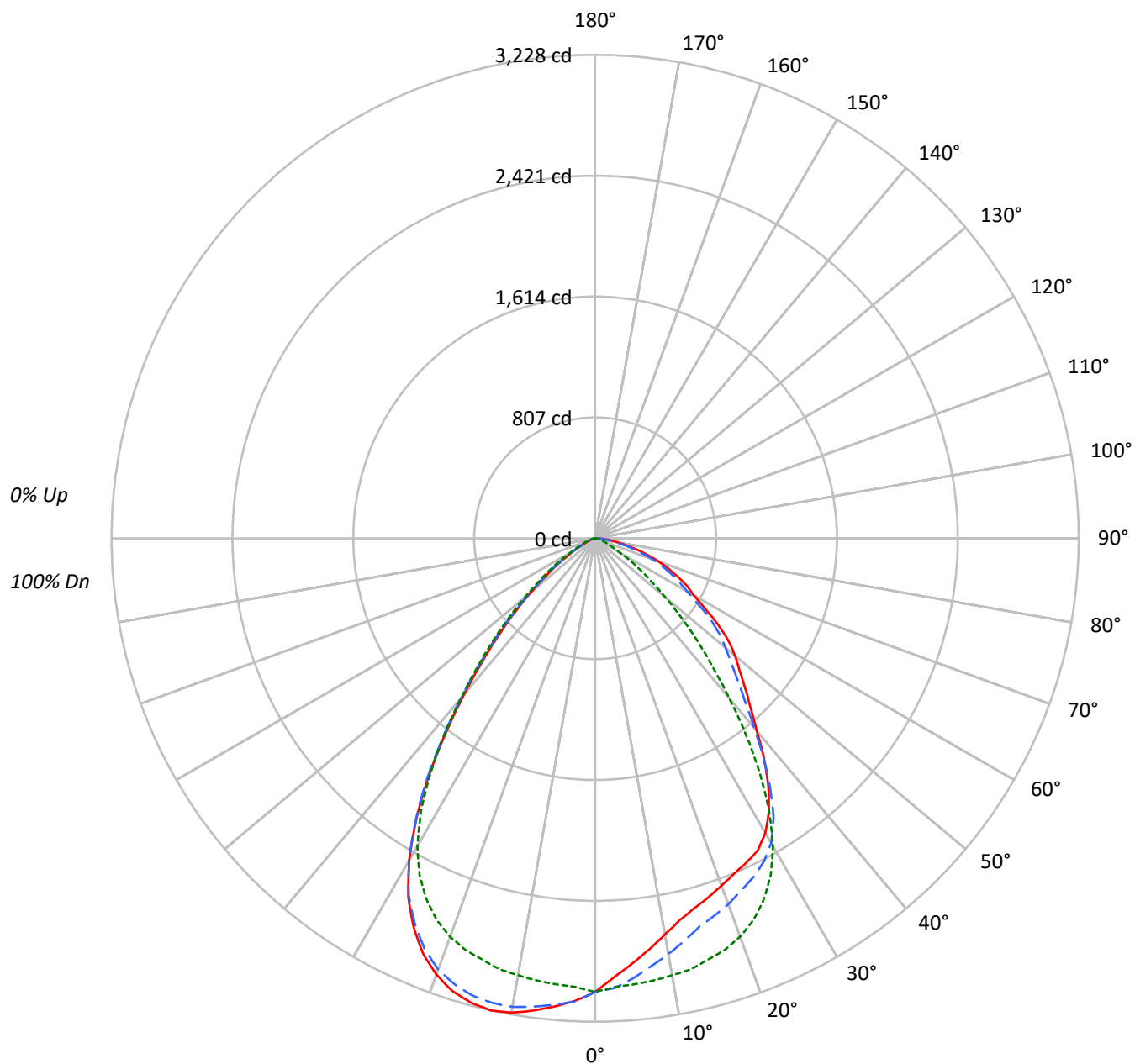
Lumens per Lamp: N/A
Luminaire Lumens: 5310.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	372160	372160	372160
5°	351421	368772	387048
10°	335038	369618	401267
15°	325205	370395	408119
20°	322544	370015	405222
25°	323838	360885	388389
30°	322304	336688	352193
35°	302097	287475	290384
40°	269187	222888	217884
45°	246191	166166	155985
50°	232772	116396	105196
55°	214060	78607	66034
60°	187008	46021	36438
65°	177034	29506	20407
70°	161281	21049	12644
75°	133430	14810	9304
80°	104920	8348	5518
85°	93596	5638	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.2	5.4
10°-20°	821.1	15.5
20°-30°	1217.2	22.9
30°-40°	1218.9	23.0
40°-50°	851.9	16.0
50°-60°	506.9	9.5
60°-70°	264.5	5.0
70°-80°	117.6	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°	2324.5	43.8
0°-40°	3543.4	66.7
0°-60°	4902.2	92.3
0°-90°	5310.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5310.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3029	3029	3029	3029	3029	
5°	2850	2947	2990	3127	3138	267
15°	2557	2686	2912	3162	3209	724
25°	2389	2498	2662	2846	2865	1101
35°	2014	2038	1917	1952	1936	1249
45°	1417	1347	956	925	898	1100
55°	999	937	367	320	308	887
65°	609	558	102	74	70	602
75°	281	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°	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3
2.5°	2931.6	2966.8	2931.6	2943.4	2990.3	2947.3	2970.7	2970.7	2959.0	2986.3	3005.9
5°	2849.6	2884.8	2849.6	2865.2	2916.0	2873.0	2900.4	2892.6	2896.6	2920.0	2947.3
7.5°	2767.8	2795.0	2763.8	2783.4	2830.2	2795.0	2818.4	2818.4	2822.4	2857.4	2881.0
10°	2685.7	2709.1	2685.7	2701.3	2752.1	2720.9	2736.5	2740.4	2752.1	2783.4	2818.4
12.5°	2611.5	2631.1	2607.7	2631.1	2674.0	2642.7	2662.3	2666.1	2677.9	2713.1	2752.1
15°	2556.9	2576.5	2553.1	2572.5	2611.5	2588.1	2603.7	2611.5	2619.3	2650.5	2685.7
17.5°	2514.0	2529.7	2510.1	2533.5	2564.7	2537.5	2560.9	2560.9	2572.5	2603.7	2642.7
20°	2467.1	2482.7	2467.1	2486.7	2521.8	2498.4	2517.9	2517.9	2529.7	2564.7	2599.9
22.5°	2424.2	2432.0	2424.2	2439.8	2474.9	2455.4	2467.1	2471.0	2482.7	2514.0	2545.3
25°	2389.0	2404.6	2396.8	2412.4	2435.8	2416.4	2428.0	2432.0	2443.7	2471.0	2498.4
27.5°	2350.0	2357.8	2350.0	2369.6	2389.0	2373.4	2385.2	2381.2	2389.0	2412.4	2435.8
30°	2272.0	2279.8	2279.8	2291.4	2307.2	2299.3	2311.0	2299.3	2307.2	2326.6	2350.0
32.5°	2158.7	2162.7	2166.5	2178.3	2189.9	2178.3	2186.1	2186.1	2186.1	2201.7	2217.3
35°	2014.3	2022.1	2018.2	2026.0	2037.7	2033.9	2033.9	2029.9	2022.1	2029.9	2037.7
37.5°	1850.4	1838.6	1838.6	1850.4	1858.2	1842.6	1850.4	1842.6	1842.6	1846.4	1846.4
40°	1678.5	1666.9	1678.5	1682.5	1686.3	1678.5	1674.7	1666.9	1655.1	1659.1	1651.3
42.5°	1534.2	1526.3	1530.2	1530.2	1534.2	1526.3	1530.2	1514.6	1502.9	1495.1	1483.4
45°	1417.0	1405.4	1417.0	1409.2	1409.2	1405.4	1401.4	1393.6	1378.0	1366.4	1346.8
47.5°	1307.7	1307.7	1311.6	1311.6	1311.6	1303.8	1303.8	1288.2	1272.6	1256.9	1229.7
50°	1217.9	1210.1	1225.7	1225.7	1214.1	1210.1	1214.1	1194.5	1182.9	1163.3	1135.9
52.5°	1120.3	1120.3	1124.3	1124.3	1120.3	1112.5	1116.5	1100.9	1089.1	1069.6	1042.3
55°	999.4	991.6	1003.2	1003.2	999.4	995.4	999.4	987.6	976.0	960.4	936.8
57.5°	862.8	858.8	866.6	870.6	862.8	862.8	866.6	854.9	851.0	835.4	811.9
60°	761.1	757.3	765.1	769.1	761.1	761.1	761.1	745.5	737.7	722.1	706.5
62.5°	690.9	687.1	694.9	690.9	687.1	683.1	687.1	671.5	663.7	648.1	632.5
65°	609.0	612.9	616.8	616.8	612.9	609.0	609.0	601.2	593.4	577.8	558.2
67.5°	530.8	530.8	534.8	538.6	534.8	534.8	534.8	523.0	515.2	503.6	480.2
70°	449.0	445.0	456.8	456.8	449.0	452.8	449.0	445.0	437.2	421.6	402.1
72.5°	363.0	363.0	367.0	367.0	363.0	363.0	363.0	359.1	347.4	339.6	320.1
75°	281.1	281.1	284.9	288.9	281.1	281.1	284.9	277.1	269.3	257.7	245.9
77.5°	210.9	206.9	210.9	210.9	206.9	206.9	206.9	203.1	199.1	187.3	175.7
80°	148.3	144.5	148.3	148.3	148.3	144.5	144.5	140.5	140.5	132.7	121.0
82.5°	101.5	97.6	101.5	101.5	101.5	97.6	97.6	97.6	93.7	89.8	82.0
85°	66.4	62.4	62.4	66.4	62.4	62.4	62.4	62.4	58.6	54.6	50.8
87.5°	31.2	31.2	31.2	31.2	31.2	31.2	31.2	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°	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3
2.5°	2990.3	2982.5	3005.9	2998.1	3001.9	2982.5	3013.7	2998.1	3017.5	2998.1	3037.1
5°	2939.5	2931.6	2966.8	2962.9	2966.8	2951.2	2986.3	2982.5	3005.9	2990.3	3033.1
7.5°	2884.8	2877.0	2916.0	2920.0	2927.8	2912.2	2959.0	2959.0	2982.5	2978.5	3025.3
10°	2822.4	2826.2	2865.2	2873.0	2888.8	2881.0	2923.8	2935.6	2966.8	2962.9	3021.5
12.5°	2763.8	2763.8	2814.6	2830.2	2841.8	2838.0	2888.8	2904.4	2939.5	2947.3	3001.9
15°	2705.3	2709.1	2756.0	2779.4	2795.0	2791.2	2845.8	2865.2	2908.2	2912.2	2978.5
17.5°	2658.3	2654.5	2705.3	2724.8	2748.2	2744.3	2802.8	2826.2	2869.2	2881.0	2943.4
20°	2619.3	2615.5	2662.3	2685.7	2701.3	2697.5	2756.0	2783.4	2822.4	2830.2	2892.6
22.5°	2572.5	2564.7	2611.5	2631.1	2646.7	2642.7	2693.5	2713.1	2752.1	2760.0	2818.4
25°	2517.9	2510.1	2553.1	2564.7	2576.5	2568.7	2611.5	2623.3	2654.5	2662.3	2720.9
27.5°	2455.4	2435.8	2471.0	2471.0	2478.8	2467.1	2498.4	2510.1	2537.5	2537.5	2592.1
30°	2357.8	2330.6	2350.0	2346.2	2350.0	2334.4	2354.0	2357.8	2377.4	2373.4	2412.4
32.5°	2221.2	2182.1	2193.9	2182.1	2170.5	2147.1	2170.5	2162.7	2178.3	2162.7	2197.7
35°	2033.9	1994.8	1990.9	1975.2	1963.6	1944.0	1944.0	1924.6	1928.4	1916.8	1940.2
37.5°	1830.8	1780.1	1772.3	1741.1	1721.5	1698.1	1698.1	1682.5	1662.9	1655.1	1674.7
40°	1631.7	1577.1	1557.6	1506.8	1487.2	1463.8	1448.2	1428.8	1421.0	1389.8	1405.4
42.5°	1460.0	1401.4	1358.6	1303.8	1284.3	1249.1	1225.7	1202.3	1190.7	1155.5	1171.1
45°	1315.6	1245.3	1198.5	1128.1	1100.9	1061.8	1026.6	999.4	972.0	956.4	948.6
47.5°	1194.5	1120.3	1057.9	979.8	936.8	901.8	854.9	827.6	792.5	772.9	761.1
50°	1093.1	1011.0	940.8	851.0	808.1	769.1	714.3	671.5	640.3	609.0	601.2
52.5°	1003.2	917.4	839.3	737.7	687.1	640.3	581.6	534.8	507.4	472.4	468.4
55°	897.8	823.7	737.7	632.5	581.6	534.8	472.4	425.6	390.4	367.0	359.1
57.5°	784.7	714.3	632.5	527.0	476.2	425.6	367.0	324.0	292.7	273.3	269.3
60°	679.3	612.9	534.8	429.4	378.6	335.7	273.3	230.3	203.1	187.3	179.5
62.5°	601.2	538.6	464.6	367.0	320.1	277.1	218.7	179.5	156.1	140.5	132.7
65°	527.0	464.6	398.2	308.3	269.3	230.3	175.7	140.5	117.1	101.5	93.7
67.5°	449.0	394.3	331.8	257.7	218.7	187.3	140.5	109.3	89.8	78.0	70.2
70°	370.8	320.1	269.3	206.9	179.5	148.3	109.3	85.8	66.4	58.6	50.8
72.5°	292.7	253.7	210.9	160.1	136.7	117.1	85.8	62.4	50.8	43.0	35.2
75°	218.7	191.3	156.1	121.0	101.5	85.8	62.4	46.8	39.0	31.2	27.4
77.5°	156.1	132.7	109.3	82.0	74.2	62.4	43.0	35.2	27.4	19.6	15.6
80°	105.4	93.7	74.2	58.6	46.8	43.0	31.2	23.4	15.6	11.8	11.8
82.5°	70.2	58.6	46.8	35.2	31.2	27.4	19.6	15.6	11.8	7.8	7.8
85°	43.0	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°	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3
2.5°	3068.3	3044.9	3029.3	3048.7	3056.5	3044.9	3056.5	3076.1	3095.7	3099.5	3044.9
5°	3072.3	3048.7	3040.9	3064.3	3068.3	3064.3	3076.1	3103.5	3126.9	3134.7	3080.1
7.5°	3072.3	3056.5	3052.7	3080.1	3083.9	3080.1	3099.5	3130.7	3154.1	3169.8	3115.1
10°	3064.3	3056.5	3060.5	3083.9	3091.7	3091.7	3119.1	3154.1	3177.6	3193.2	3138.5
12.5°	3052.7	3052.7	3052.7	3080.1	3087.9	3091.7	3115.1	3161.9	3177.6	3201.0	3146.3
15°	3033.1	3033.1	3033.1	3060.5	3072.3	3072.3	3099.5	3142.5	3161.9	3185.4	3130.7
17.5°	2998.1	2998.1	3001.9	3025.3	3037.1	3037.1	3064.3	3111.3	3122.9	3150.3	3095.7
20°	2947.3	2947.3	2951.2	2974.6	2986.3	2978.5	3013.7	3052.7	3064.3	3087.9	3033.1
22.5°	2873.0	2873.0	2873.0	2896.6	2904.4	2900.4	2935.6	2970.7	2970.7	3001.9	2943.4
25°	2763.8	2771.6	2763.8	2787.2	2795.0	2791.2	2822.4	2853.6	2845.8	2881.0	2822.4
27.5°	2631.1	2627.1	2627.1	2646.7	2646.7	2642.7	2666.1	2701.3	2693.5	2717.0	2662.3
30°	2447.6	2459.3	2439.8	2467.1	2455.4	2447.6	2463.2	2494.5	2482.7	2502.3	2459.3
32.5°	2236.8	2221.2	2221.2	2221.2	2229.0	2209.5	2225.1	2240.7	2229.0	2248.5	2201.7
35°	1959.6	1963.6	1951.8	1955.8	1959.6	1936.2	1951.8	1967.4	1951.8	1963.6	1920.6
37.5°	1682.5	1686.3	1659.1	1674.7	1659.1	1651.3	1666.9	1674.7	1659.1	1670.7	1623.9
40°	1405.4	1397.6	1393.6	1393.6	1397.6	1378.0	1389.8	1401.4	1389.8	1397.6	1354.6
42.5°	1163.3	1159.5	1151.7	1155.5	1143.7	1139.9	1143.7	1155.5	1143.7	1151.7	1120.3
45°	952.4	944.6	933.0	936.8	936.8	917.4	929.0	936.8	925.2	929.0	901.8
47.5°	757.3	745.5	745.5	741.7	741.7	733.9	745.5	741.7	729.9	737.7	710.5
50°	589.5	581.6	581.6	581.6	581.6	569.9	573.8	581.6	569.9	569.9	554.3
52.5°	460.6	449.0	441.2	441.2	441.2	437.2	437.2	441.2	429.4	429.4	425.6
55°	347.4	343.5	331.8	331.8	331.8	320.1	324.0	324.0	320.1	320.1	308.3
57.5°	257.7	245.9	238.1	238.1	230.3	230.3	226.5	230.3	222.5	222.5	214.7
60°	171.7	163.9	160.1	156.1	156.1	152.3	156.1	152.3	152.3	148.3	144.5
62.5°	124.9	117.1	109.3	109.3	109.3	105.4	105.4	105.4	105.4	105.4	101.5
65°	89.8	82.0	82.0	78.0	78.0	74.2	74.2	74.2	74.2	74.2	70.2
67.5°	62.4	58.6	54.6	54.6	54.6	54.6	54.6	54.6	50.8	50.8	50.8
70°	46.8	43.0	39.0	39.0	39.0	39.0	39.0	35.2	39.0	39.0	35.2
72.5°	31.2	31.2	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: P859116

CATALOG NUMBER: LX4C55D010 EX4C559035 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3	3029.3
2.5°	3103.5	3099.5	3091.7	3103.5	3072.3	3060.5	3056.5	3091.7
5°	3146.3	3138.5	3138.5	3150.3	3115.1	3107.3	3099.5	3138.5
7.5°	3185.4	3177.6	3177.6	3189.3	3158.1	3150.3	3142.5	3181.5
10°	3208.8	3208.8	3208.8	3216.6	3189.3	3181.5	3177.6	3216.6
12.5°	3220.6	3220.6	3216.6	3232.2	3197.1	3197.1	3189.3	3228.4
15°	3204.9	3204.9	3204.9	3216.6	3185.4	3177.6	3177.6	3208.8
17.5°	3165.9	3165.9	3161.9	3173.7	3138.5	3138.5	3134.7	3169.8
20°	3107.3	3107.3	3099.5	3115.1	3080.1	3068.3	3064.3	3099.5
22.5°	3013.7	3009.7	3005.9	3013.7	2982.5	2974.6	2970.7	3001.9
25°	2892.6	2888.8	2881.0	2888.8	2853.6	2841.8	2841.8	2865.2
27.5°	2720.9	2720.9	2709.1	2720.9	2681.8	2677.9	2674.0	2701.3
30°	2510.1	2494.5	2486.7	2502.3	2463.2	2463.2	2455.4	2482.7
32.5°	2248.5	2232.9	2229.0	2236.8	2201.7	2189.9	2205.5	2221.2
35°	1948.0	1951.8	1936.2	1936.2	1905.0	1908.8	1912.8	1936.2
37.5°	1659.1	1651.3	1647.3	1651.3	1627.9	1620.1	1612.3	1635.7
40°	1389.8	1370.2	1366.4	1366.4	1346.8	1342.9	1346.8	1358.6
42.5°	1135.9	1132.1	1116.5	1124.3	1104.7	1112.5	1108.7	1108.7
45°	917.4	921.2	905.6	917.4	901.8	890.0	890.0	897.8
47.5°	726.1	726.1	722.1	722.1	710.5	714.3	706.5	718.3
50°	562.1	562.1	554.3	558.2	550.4	550.4	546.5	550.4
52.5°	429.4	425.6	425.6	421.6	413.8	417.8	421.6	413.8
55°	312.3	316.1	308.3	312.3	304.5	308.3	304.5	308.3
57.5°	214.7	218.7	210.9	218.7	210.9	214.7	210.9	210.9
60°	148.3	148.3	144.5	148.3	144.5	144.5	140.5	148.3
62.5°	101.5	101.5	101.5	101.5	101.5	97.6	101.5	101.5
65°	74.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
67.5°	50.8	50.8	50.8	50.8	50.8	50.8	50.8	50.8
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)