

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: P859305

Luminaire Tested: **LX4C60D010 EX4C609030 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P859305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C60D010 EX4C609030 4LBLWWH
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

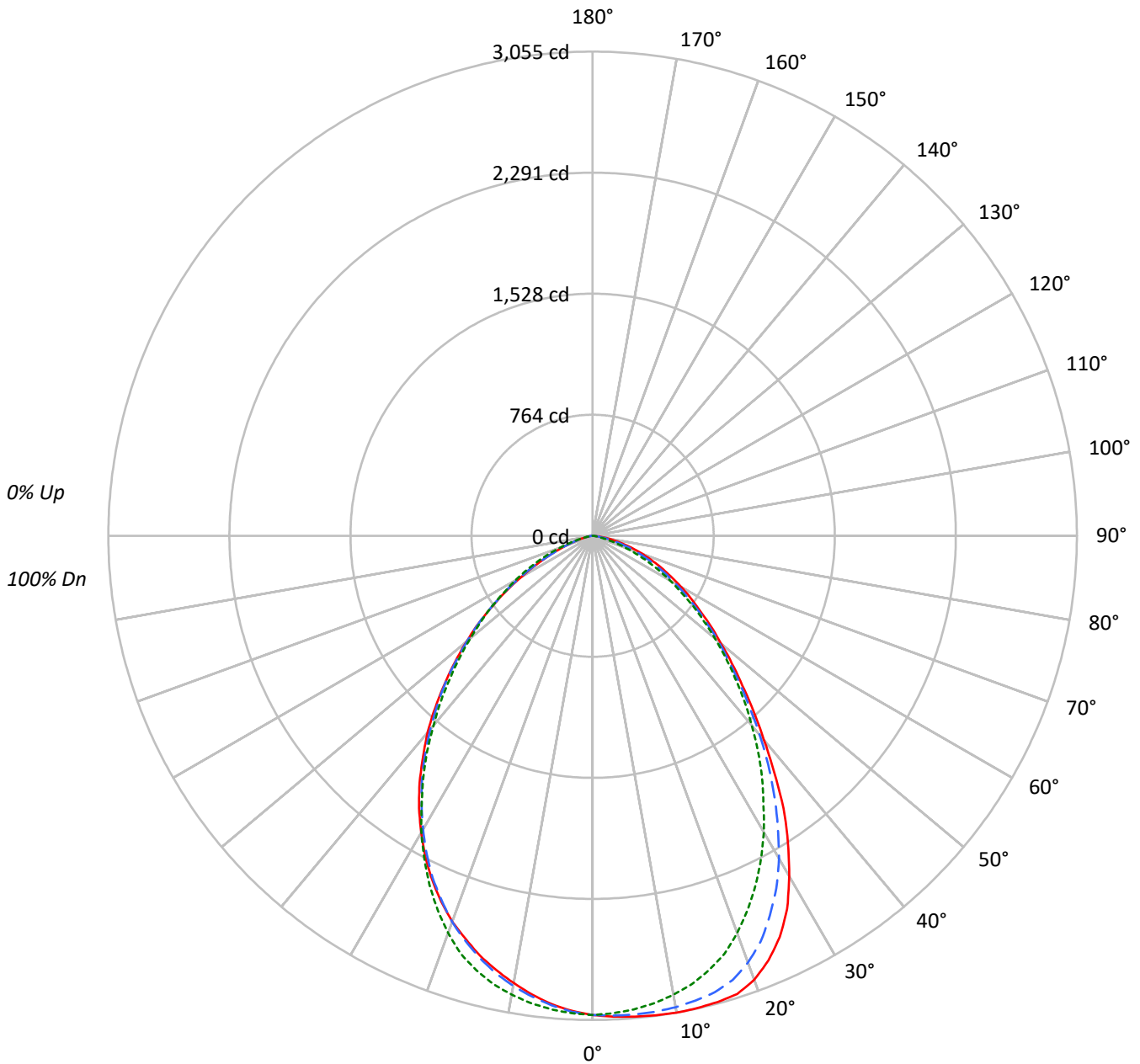
Lumens per Lamp: N/A
Luminaire Lumens: 5698.0 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 97.5
Input Voltage (V):
Input Current (A_{in}): 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68																			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60																			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39																			
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35																			
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	371447	371447	371447
5°	375592	369857	365849
10°	381095	366736	357455
15°	387362	360881	348913
20°	389808	348613	338585
25°	378629	329775	324733
30°	351867	306486	306671
35°	314980	279406	285345
40°	269669	250472	259613
45°	232135	220842	229112
50°	201810	192254	198026
55°	177584	165396	163876
60°	158014	138014	127178
65°	138604	110552	91947
70°	119039	78126	62213
75°	96595	45236	36407
80°	69121	19810	18112
85°	26218	8317	8317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.0	5.0
10°-20°	806.6	14.2
20°-30°	1151.8	20.2
30°-40°	1204.9	21.1
40°-50°	1009.6	17.7
50°-60°	706.6	12.4
60°-70°	384.7	6.8
70°-80°	133.5	2.3
80°-90°	15.4	0.3
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°	2243.3	39.4
0°-40°	3448.2	60.5
0°-60°	5164.4	90.6
0°-90°	5698.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5698.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3024	3024	3024	3024	3024	
5°	3046	3032	2999	2974	2967	291
15°	3046	2982	2837	2756	2743	860
25°	2793	2644	2433	2385	2396	1275
35°	2100	1997	1863	1877	1903	1302
45°	1336	1306	1271	1313	1319	1039
55°	829	801	772	772	765	749
65°	477	435	380	320	316	475
75°	204	165	95	77	77	219
85°	19	10	6	6	6	33
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°	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5
2.5°	3037.5	3033.9	3035.1	3035.1	3035.1	3033.9	3035.1	3033.9	3033.9	3032.8	3030.4
5°	3045.6	3043.3	3043.3	3043.3	3042.1	3040.9	3040.9	3039.8	3037.5	3036.2	3031.6
7.5°	3051.4	3049.1	3049.1	3047.8	3046.8	3045.6	3044.5	3040.9	3037.5	3035.1	3029.2
10°	3054.9	3051.4	3051.4	3049.1	3046.8	3045.6	3043.3	3038.6	3033.9	3028.1	3020.1
12.5°	3052.5	3049.1	3047.8	3045.6	3040.9	3038.6	3036.2	3030.4	3022.4	3014.2	3003.8
15°	3045.6	3043.3	3040.9	3037.5	3031.6	3028.1	3025.9	3016.5	3006.1	2994.4	2981.6
17.5°	3031.6	3028.1	3023.5	3018.8	3010.7	3007.3	3001.5	2989.8	2974.6	2958.4	2938.6
20°	2981.6	2979.3	2974.6	2966.6	2953.7	2949.0	2940.9	2925.9	2906.0	2886.3	2865.4
22.5°	2899.0	2895.6	2888.6	2881.6	2869.9	2861.9	2854.9	2833.9	2811.8	2791.0	2771.3
25°	2793.2	2789.8	2780.4	2771.3	2759.5	2745.6	2738.6	2722.3	2700.2	2673.4	2644.4
27.5°	2657.1	2645.5	2642.1	2631.7	2614.1	2609.5	2599.0	2578.1	2557.1	2533.9	2509.5
30°	2480.4	2480.4	2473.5	2468.8	2452.6	2447.9	2436.2	2414.2	2402.5	2370.0	2351.4
32.5°	2293.3	2290.9	2285.0	2281.6	2272.3	2264.1	2252.5	2240.8	2215.4	2199.1	2173.5
35°	2100.2	2086.2	2088.5	2081.5	2075.8	2066.4	2065.2	2052.5	2029.2	2020.0	1996.7
37.5°	1880.4	1874.6	1882.7	1872.3	1866.4	1867.6	1858.3	1850.1	1840.9	1824.6	1820.0
40°	1681.5	1686.2	1685.1	1675.7	1680.4	1674.5	1665.3	1657.1	1652.4	1642.1	1638.5
42.5°	1503.6	1496.6	1494.3	1494.3	1495.5	1495.5	1490.8	1485.0	1485.0	1474.5	1464.1
45°	1336.1	1336.1	1333.8	1340.8	1330.4	1330.4	1326.8	1325.7	1321.0	1318.7	1306.0
47.5°	1192.0	1190.8	1189.7	1188.5	1187.3	1187.3	1180.4	1174.5	1173.4	1166.4	1159.4
50°	1055.9	1062.9	1060.5	1054.8	1052.5	1053.6	1048.9	1045.5	1044.3	1032.7	1033.9
52.5°	941.9	940.7	943.0	939.6	933.8	935.0	930.3	925.7	921.0	915.3	910.6
55°	829.1	835.0	832.7	829.1	828.0	825.7	822.1	816.4	815.2	802.4	801.1
57.5°	734.9	733.8	731.5	725.6	724.4	720.9	720.9	716.4	709.4	702.4	696.6
60°	643.1	643.1	639.6	638.5	633.8	632.6	631.5	626.8	618.7	612.9	603.5
62.5°	554.7	557.0	554.7	551.2	547.7	543.0	540.7	537.3	530.3	524.4	516.3
65°	476.8	475.6	474.4	469.7	468.6	463.9	462.9	455.9	448.9	444.2	435.0
67.5°	402.4	398.9	398.9	396.5	394.2	390.7	388.4	381.5	373.3	368.6	359.4
70°	331.4	329.1	329.1	329.1	323.4	319.8	318.7	315.1	303.5	298.9	289.5
72.5°	266.2	265.2	264.1	260.5	257.0	257.0	252.4	245.5	239.6	233.8	226.8
75°	203.5	205.9	203.5	198.9	197.7	195.3	191.8	186.1	180.2	173.2	165.2
77.5°	148.8	146.6	144.2	144.2	141.9	137.2	136.0	131.3	124.5	119.8	111.6
80°	97.7	96.5	94.2	91.9	90.6	89.5	88.4	83.7	76.7	73.2	66.3
82.5°	53.5	52.3	52.3	51.2	47.7	47.7	46.6	41.9	38.3	36.0	32.6
85°	18.6	18.6	18.6	17.4	17.4	17.4	16.3	15.1	13.9	12.7	10.4
87.5°	2.3	1.2	2.3	1.2	2.3	1.2	1.2	1.2	1.2	1.2	1.2
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°	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5
2.5°	3028.1	3025.9	3024.7	3023.5	3022.4	3021.2	3020.1	3017.7	3016.5	3015.4	3013.0
5°	3028.1	3023.5	3021.2	3017.7	3015.4	3013.0	3009.5	3006.1	3002.6	2999.1	2995.6
7.5°	3023.5	3016.5	3011.8	3004.9	3002.6	2999.1	2992.1	2987.5	2981.6	2974.6	2966.6
10°	3011.8	3003.8	2994.4	2985.2	2981.6	2975.8	2966.6	2958.4	2949.0	2939.8	2931.6
12.5°	2993.2	2980.5	2968.8	2956.0	2949.0	2943.3	2930.5	2918.9	2907.3	2896.7	2882.8
15°	2965.3	2950.2	2935.1	2917.6	2909.5	2902.6	2884.0	2869.9	2851.3	2837.4	2823.5
17.5°	2920.0	2896.7	2878.2	2856.0	2844.4	2836.3	2820.0	2797.9	2780.4	2765.4	2749.1
20°	2842.1	2820.0	2794.4	2770.0	2757.1	2746.7	2723.5	2700.2	2682.8	2666.5	2649.1
22.5°	2739.7	2711.9	2693.1	2663.0	2652.6	2639.7	2611.9	2590.9	2571.2	2554.8	2538.5
25°	2615.3	2590.9	2565.4	2537.4	2524.6	2509.5	2486.2	2464.2	2451.4	2432.8	2413.0
27.5°	2472.3	2452.6	2421.1	2396.6	2383.9	2372.3	2350.2	2330.4	2311.8	2299.0	2280.4
30°	2321.0	2298.0	2270.0	2244.4	2237.4	2223.4	2203.7	2188.5	2168.8	2160.5	2152.5
32.5°	2154.8	2128.1	2107.1	2090.9	2076.9	2065.2	2054.8	2030.4	2026.9	2005.9	2003.6
35°	1973.4	1961.9	1942.0	1928.0	1916.4	1908.3	1890.9	1879.3	1866.4	1863.0	1854.8
37.5°	1802.5	1788.4	1769.9	1757.1	1749.0	1747.8	1735.0	1728.0	1718.8	1714.1	1704.8
40°	1623.5	1617.6	1601.3	1598.9	1586.2	1585.0	1578.1	1569.8	1561.8	1561.8	1562.9
42.5°	1458.3	1451.2	1444.3	1436.2	1429.3	1429.3	1425.7	1423.4	1421.0	1417.6	1423.4
45°	1303.6	1294.3	1289.7	1281.5	1285.0	1278.0	1275.7	1275.7	1272.2	1271.1	1279.1
47.5°	1159.4	1148.9	1144.2	1141.9	1141.9	1143.1	1132.7	1136.1	1134.9	1137.2	1140.8
50°	1028.0	1018.6	1011.7	1011.7	1012.9	1008.2	1003.6	1007.0	1003.6	1005.9	1014.0
52.5°	905.9	896.7	893.1	893.1	886.1	885.0	887.3	882.6	883.7	885.0	889.6
55°	793.1	787.2	781.4	775.7	776.8	774.5	769.8	768.7	771.0	772.2	778.1
57.5°	691.9	683.8	675.6	673.3	670.9	670.9	665.1	663.9	666.3	660.6	660.6
60°	595.4	590.8	580.3	576.9	576.9	571.0	566.3	568.6	562.8	561.7	562.8
62.5°	505.9	502.4	495.4	488.4	486.0	483.7	478.0	475.6	473.3	468.6	461.7
65°	427.9	419.8	411.7	407.0	403.5	397.7	394.2	389.6	382.7	380.3	373.3
67.5°	350.0	341.9	333.7	330.2	326.7	323.4	317.5	311.7	303.5	294.2	286.0
70°	281.5	270.9	266.2	257.0	254.7	250.0	241.9	236.1	227.9	217.5	209.2
72.5°	215.1	208.1	201.2	193.0	187.3	183.8	176.8	167.5	158.2	152.3	144.2
75°	154.6	151.2	141.9	132.5	130.2	125.6	117.5	111.6	104.7	95.3	88.4
77.5°	104.7	97.7	91.9	83.7	81.4	76.7	72.0	66.3	61.6	55.8	51.2
80°	61.6	55.8	52.3	46.6	44.2	41.9	38.3	33.7	30.2	28.0	26.8
82.5°	30.2	25.6	24.4	21.0	19.7	18.6	16.3	15.1	12.7	12.7	12.7
85°	10.4	8.1	8.1	7.0	5.9	5.9	5.9	5.9	5.9	5.9	5.9
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	1.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5
2.5°	3011.8	3010.7	3009.5	3008.4	3008.4	3007.3	3007.3	3006.1	3006.1	3004.9	3004.9
5°	2990.9	2987.5	2985.2	2982.8	2982.8	2979.3	2976.9	2974.6	2973.5	2973.5	2971.1
7.5°	2961.9	2957.2	2952.5	2949.0	2947.9	2942.1	2937.5	2937.5	2932.8	2930.5	2928.2
10°	2923.5	2915.3	2908.4	2904.9	2900.2	2896.7	2890.9	2887.5	2884.0	2878.2	2876.9
12.5°	2871.1	2865.4	2854.9	2850.2	2848.0	2840.9	2831.6	2827.0	2825.9	2821.2	2817.6
15°	2811.8	2799.0	2789.8	2784.0	2784.0	2772.3	2767.7	2760.7	2756.0	2752.5	2751.4
17.5°	2735.0	2722.3	2713.0	2704.8	2702.5	2693.1	2686.3	2684.0	2678.1	2680.4	2674.6
20°	2636.2	2625.8	2618.8	2608.4	2608.4	2602.5	2600.2	2594.4	2592.1	2589.8	2592.1
22.5°	2530.5	2517.6	2506.0	2504.9	2504.9	2496.6	2495.5	2494.5	2489.8	2493.3	2492.1
25°	2406.0	2396.6	2389.7	2388.6	2388.6	2383.9	2379.2	2381.6	2385.0	2383.9	2387.4
27.5°	2277.0	2267.6	2265.3	2264.1	2261.7	2260.6	2263.0	2263.0	2266.4	2271.1	2275.8
30°	2137.4	2135.1	2131.5	2130.4	2128.1	2133.9	2136.2	2139.8	2138.6	2145.5	2150.2
32.5°	1997.9	1993.2	1992.0	1994.3	1997.9	1996.7	2003.6	2005.9	2008.3	2016.5	2020.0
35°	1857.1	1856.0	1853.6	1853.6	1854.8	1864.0	1864.0	1872.3	1876.9	1879.3	1888.5
37.5°	1706.0	1710.5	1712.9	1716.4	1717.5	1721.1	1723.4	1731.5	1736.2	1740.8	1745.5
40°	1567.6	1565.3	1575.6	1568.6	1571.0	1581.5	1586.2	1585.0	1591.9	1598.9	1603.6
42.5°	1419.9	1423.4	1425.7	1428.0	1433.8	1435.0	1440.9	1449.0	1451.2	1459.4	1461.7
45°	1276.8	1278.0	1282.7	1287.4	1290.8	1300.1	1302.4	1306.0	1312.8	1312.8	1316.4
47.5°	1141.9	1146.6	1146.6	1153.6	1159.4	1158.2	1166.4	1168.8	1167.5	1173.4	1175.7
50°	1012.9	1019.8	1018.6	1023.3	1025.6	1026.9	1033.9	1036.1	1031.5	1037.2	1038.5
52.5°	889.6	893.1	897.7	898.9	896.7	902.4	900.0	904.7	903.6	908.3	903.6
55°	776.8	775.7	775.7	778.1	775.7	778.1	780.2	775.7	772.2	776.8	775.7
57.5°	663.9	663.9	661.6	665.1	661.6	658.2	657.1	653.6	650.1	650.1	648.9
60°	558.2	555.9	551.2	550.0	550.0	544.2	542.0	537.3	537.3	532.6	527.9
62.5°	459.4	453.6	450.0	450.0	447.7	442.0	431.4	424.4	422.1	415.1	414.0
65°	366.3	360.5	357.0	350.0	344.2	341.9	331.4	323.4	319.8	312.8	314.0
67.5°	281.5	272.1	261.7	257.0	253.5	245.5	241.9	236.1	232.5	232.5	232.5
70°	202.4	194.2	183.8	180.2	177.9	170.9	167.5	166.3	169.8	168.6	169.8
72.5°	136.0	128.0	123.3	120.9	118.6	115.1	117.5	118.6	116.3	117.5	118.6
75°	82.6	80.3	76.7	75.6	75.6	76.7	75.6	75.6	76.7	76.7	77.9
77.5°	47.7	45.4	45.4	44.2	46.6	45.4	45.4	45.4	46.6	46.6	46.6
80°	25.6	25.6	25.6	25.6	26.8	25.6	26.8	26.8	26.8	26.8	26.8
82.5°	12.7	12.7	12.7	13.9	13.9	13.9	13.9	13.9	13.9	13.9	12.7
85°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
87.5°	1.2	2.3	2.3	2.3	2.3	2.3	1.2	1.2	1.2	1.2	1.2
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: P859305

CATALOG NUMBER: LX4C60D010 EX4C609030 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5	3023.5
2.5°	3002.6	3002.6	3002.6	3000.2	3001.5	3001.5	3000.2	3000.2
5°	2969.9	2968.8	2966.6	2966.6	2964.2	2966.6	2965.3	2966.6
7.5°	2925.9	2925.9	2922.3	2922.3	2921.2	2920.0	2918.9	2920.0
10°	2873.5	2873.5	2871.1	2869.9	2871.1	2866.6	2866.6	2865.4
12.5°	2815.3	2813.0	2810.7	2811.8	2810.7	2807.3	2806.0	2807.3
15°	2748.0	2744.4	2745.6	2742.1	2742.1	2740.9	2743.3	2743.3
17.5°	2673.4	2671.2	2668.8	2670.0	2667.7	2668.8	2667.7	2666.5
20°	2590.9	2589.8	2589.8	2585.1	2586.2	2585.1	2586.2	2589.8
22.5°	2495.5	2494.5	2495.5	2492.1	2494.5	2494.5	2497.8	2497.8
25°	2390.9	2389.7	2392.0	2393.3	2394.4	2397.8	2394.4	2395.6
27.5°	2274.7	2278.1	2281.6	2282.7	2287.4	2283.9	2281.6	2285.0
30°	2157.2	2157.2	2156.1	2160.5	2164.1	2167.7	2161.8	2161.8
32.5°	2022.2	2028.1	2028.1	2029.2	2032.8	2032.8	2032.8	2037.5
35°	1893.2	1896.7	1897.9	1893.2	1895.6	1894.3	1902.6	1902.6
37.5°	1749.0	1749.0	1750.1	1758.3	1758.3	1754.8	1757.1	1757.1
40°	1611.8	1612.9	1608.2	1610.5	1616.4	1614.1	1616.4	1618.8
42.5°	1461.7	1469.9	1465.3	1467.6	1466.4	1467.6	1468.7	1468.7
45°	1318.7	1321.0	1321.0	1322.2	1324.5	1326.8	1319.8	1318.7
47.5°	1179.1	1180.4	1183.8	1177.9	1184.9	1177.9	1184.9	1176.8
50°	1038.5	1043.1	1039.6	1041.9	1038.5	1038.5	1037.2	1036.1
52.5°	904.7	903.6	903.6	902.4	902.4	904.7	902.4	905.9
55°	771.0	772.2	769.8	768.7	767.5	771.0	767.5	765.1
57.5°	644.2	646.5	641.9	644.2	636.2	639.6	640.8	641.9
60°	526.7	523.2	523.2	518.7	518.7	522.2	517.6	517.6
62.5°	408.1	410.4	407.0	411.7	411.7	416.3	414.0	416.3
65°	312.8	314.0	315.1	315.1	315.1	322.1	319.8	316.3
67.5°	236.1	237.2	238.4	237.2	240.8	238.4	238.4	239.6
70°	170.9	172.1	173.2	173.2	172.1	173.2	173.2	173.2
72.5°	118.6	119.8	118.6	119.8	120.9	119.8	119.8	120.9
75°	77.9	77.9	76.7	76.7	76.7	76.7	77.9	76.7
77.5°	45.4	46.6	45.4	46.6	46.6	46.6	46.6	46.6
80°	26.8	26.8	26.8	25.6	26.8	26.8	26.8	25.6
82.5°	13.9	13.9	12.7	12.7	13.9	13.9	13.9	13.9
85°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)