

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: P685030

Luminaire Tested: **LX6C45D010 EX6459040 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685030
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C45D010 EX6459040 6LCSWLI
Description: 6 INCH 4500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

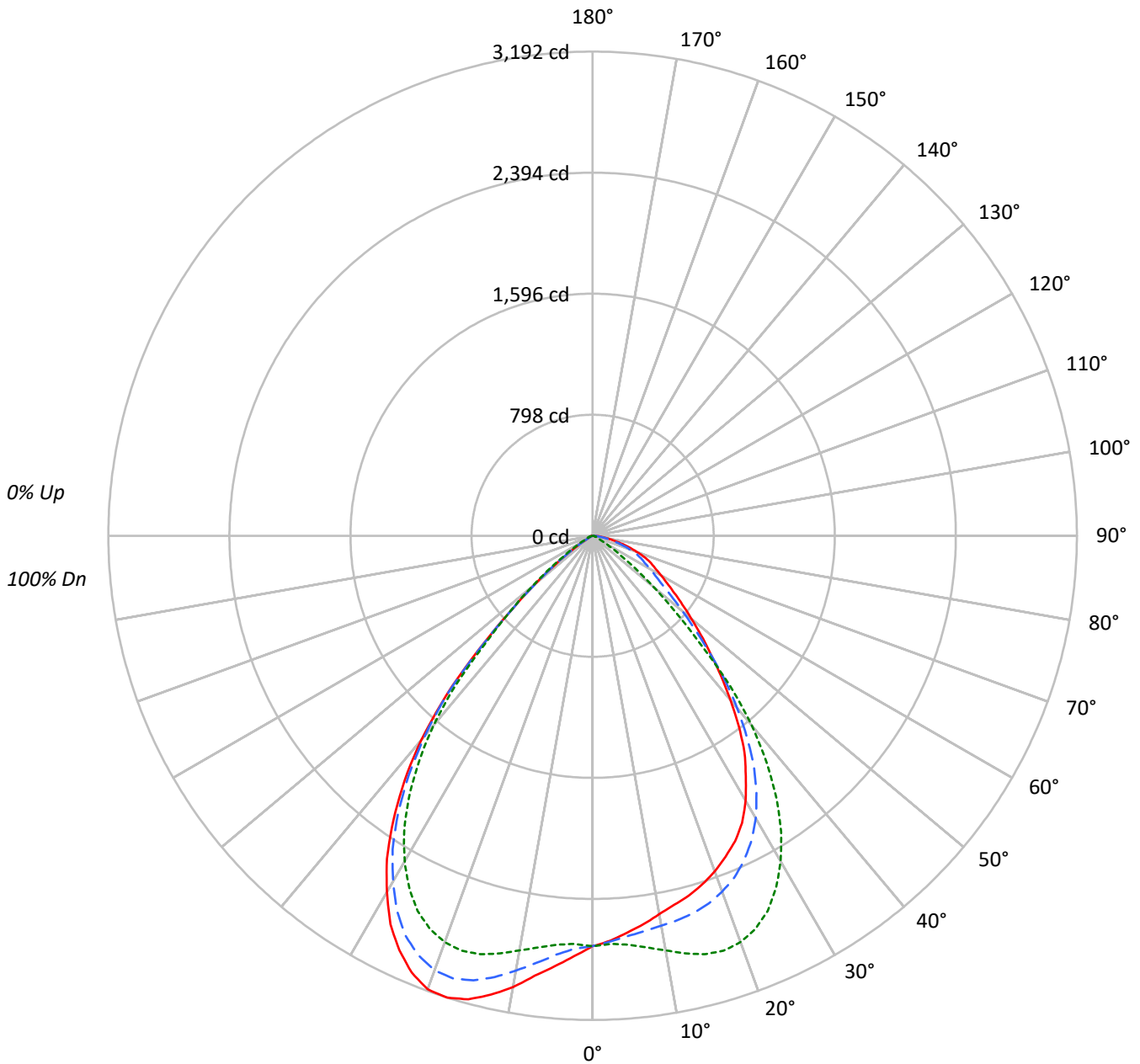
Lumens per Lamp: N/A
Luminaire Lumens: 4946.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
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				20				
RC	80				70				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			100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65			65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	148338	148338	148338
5°	144486	148905	156730
10°	140974	154512	168194
15°	139325	162084	179553
20°	137329	166305	185621
25°	134409	165076	182291
30°	127729	156872	171609
35°	116854	141435	153207
40°	101075	116812	125693
45°	85241	76613	82226
50°	72364	44348	41704
55°	62803	21266	16066
60°	56728	9922	3969
65°	55025	5695	1336
70°	49335	4568	1250
75°	40540	3304	551
80°	30212	1642	0
85°	26040	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.4	5.3
10°-20°	796.5	16.1
20°-30°	1217.0	24.6
30°-40°	1272.9	25.7
40°-50°	825.7	16.7
50°-60°	327.9	6.6
60°-70°	155.5	3.1
70°-80°	74.0	1.5
80°-90°	15.1	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°	2274.9	46.0
0°-40°	3547.8	71.7
0°-60°	4701.4	95.1
0°-90°	4946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4946.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2706	2706	2706	2706	2706	
5°	2626	2649	2706	2773	2848	248
15°	2455	2574	2856	3034	3164	692
25°	2222	2362	2729	2913	3014	1018
35°	1746	1852	2113	2238	2289	1080
45°	1100	1089	988	1048	1061	855
55°	657	559	222	173	168	595
65°	424	352	44	10	10	414
75°	191	155	16	5	3	206
85°	41	26	0	0	0	48
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°	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9
2.5°	2672.2	2677.4	2649.0	2641.2	2661.9	2669.6	2672.2	2664.4	2667.1	2677.4	2677.4
5°	2625.6	2630.8	2604.9	2597.2	2617.9	2623.1	2630.8	2628.3	2636.1	2651.5	2649.0
7.5°	2581.7	2589.5	2561.0	2550.7	2576.5	2589.5	2594.6	2594.6	2604.9	2625.6	2628.3
10°	2532.5	2542.9	2517.0	2511.8	2540.3	2553.2	2555.8	2561.0	2576.5	2604.9	2610.1
12.5°	2491.2	2501.5	2483.4	2475.6	2506.6	2519.6	2524.7	2535.1	2553.2	2589.5	2594.6
15°	2454.9	2462.7	2442.0	2436.8	2467.8	2483.4	2485.9	2501.5	2524.7	2566.1	2573.9
17.5°	2408.3	2413.5	2398.0	2392.9	2423.9	2439.4	2442.0	2460.1	2488.6	2530.0	2542.9
20°	2354.0	2359.2	2343.7	2338.5	2369.5	2387.6	2390.3	2405.8	2439.4	2483.4	2496.3
22.5°	2289.3	2299.7	2281.7	2276.4	2307.5	2323.0	2330.8	2343.7	2377.3	2421.3	2439.4
25°	2222.1	2222.1	2209.2	2206.6	2235.1	2253.2	2250.5	2268.6	2302.3	2346.3	2361.8
27.5°	2134.2	2131.5	2118.6	2116.1	2147.1	2162.6	2157.4	2175.6	2206.6	2250.5	2266.1
30°	2017.8	2022.9	2004.8	1999.6	2025.6	2051.4	2048.8	2066.9	2097.9	2139.3	2149.7
32.5°	1878.1	1883.2	1880.7	1872.9	1896.1	1909.1	1916.9	1929.8	1955.6	1999.6	2010.0
35°	1746.1	1738.3	1728.0	1728.0	1751.3	1772.0	1764.2	1779.8	1805.6	1849.6	1852.2
37.5°	1583.2	1580.5	1575.4	1570.2	1596.1	1601.3	1603.9	1614.2	1637.5	1673.7	1668.5
40°	1412.4	1415.0	1412.4	1402.0	1417.6	1438.3	1435.7	1440.9	1461.5	1487.4	1479.7
42.5°	1252.0	1252.0	1252.0	1241.7	1259.8	1270.2	1275.3	1272.7	1277.9	1301.2	1290.8
45°	1099.5	1102.0	1099.5	1096.8	1099.5	1104.6	1099.5	1096.8	1096.8	1104.6	1089.1
47.5°	967.5	967.5	959.7	952.0	959.7	962.3	954.6	946.8	944.2	941.7	915.8
50°	848.5	845.9	843.4	830.4	838.1	840.7	830.4	825.2	814.9	801.9	770.9
52.5°	745.1	742.4	739.8	726.9	732.1	734.7	724.3	713.9	701.0	690.7	651.9
55°	657.1	654.4	654.4	646.8	641.5	646.8	636.4	628.6	610.5	597.6	558.8
57.5°	582.0	582.0	576.9	569.1	571.7	571.7	561.4	551.0	535.4	520.0	489.0
60°	517.4	517.4	517.4	509.6	509.6	509.6	504.4	494.1	481.2	465.6	434.6
62.5°	465.6	465.6	463.0	455.3	457.8	457.8	452.7	442.4	429.5	419.1	388.0
65°	424.2	424.2	424.2	416.5	416.5	419.1	413.9	403.6	393.2	380.3	351.8
67.5°	372.5	370.0	370.0	364.7	367.3	370.0	364.7	357.0	344.1	336.3	310.4
70°	307.8	310.4	313.0	305.3	307.8	307.8	305.3	297.5	289.7	282.0	258.7
72.5°	250.9	250.9	248.3	245.8	245.8	248.3	243.2	235.4	230.2	225.1	206.9
75°	191.4	188.8	191.4	186.3	186.3	186.3	181.0	178.5	175.9	168.1	155.2
77.5°	139.7	137.1	137.1	131.9	134.6	134.6	131.9	126.8	121.5	119.0	108.6
80°	95.7	95.7	95.7	93.1	93.1	90.5	90.5	88.0	82.7	80.2	75.1
82.5°	64.7	64.7	64.7	62.1	62.1	62.1	59.5	56.9	54.4	51.7	46.6
85°	41.4	41.4	41.4	38.8	38.8	38.8	36.2	36.2	33.6	31.0	25.9
87.5°	23.2	23.2	23.2	20.7	20.7	20.7	20.7	20.7	18.1	15.6	12.9
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°	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9
2.5°	2695.5	2659.3	2682.5	2682.5	2674.8	2695.5	2708.5	2718.8	2716.2	2692.9	2690.3
5°	2674.8	2643.7	2669.6	2672.2	2664.4	2692.9	2711.0	2723.9	2726.6	2705.9	2708.5
7.5°	2659.3	2633.4	2667.1	2677.4	2674.8	2700.7	2721.4	2742.0	2752.4	2736.9	2739.5
10°	2651.5	2630.8	2667.1	2682.5	2685.2	2713.6	2744.7	2773.1	2786.1	2775.7	2783.4
12.5°	2641.2	2628.3	2669.6	2692.9	2703.2	2731.7	2770.5	2804.2	2824.9	2819.7	2835.2
15°	2630.8	2620.5	2669.6	2703.2	2716.2	2742.0	2786.1	2835.2	2858.5	2855.9	2876.6
17.5°	2604.9	2602.4	2654.1	2690.3	2708.5	2739.5	2780.8	2840.3	2863.7	2868.8	2894.7
20°	2563.6	2563.6	2620.5	2659.3	2680.0	2708.5	2760.2	2817.1	2845.6	2850.7	2879.2
22.5°	2506.6	2511.8	2566.1	2604.9	2636.1	2656.7	2711.0	2770.5	2796.4	2804.2	2835.2
25°	2431.7	2436.8	2488.6	2527.3	2561.0	2584.2	2636.1	2690.3	2721.4	2729.1	2752.4
27.5°	2333.4	2343.7	2392.9	2431.7	2460.1	2475.6	2530.0	2586.9	2610.1	2617.9	2641.2
30°	2219.5	2222.1	2271.3	2304.9	2333.4	2346.3	2392.9	2452.4	2470.5	2478.2	2511.8
32.5°	2079.8	2077.3	2123.9	2154.9	2178.1	2193.7	2242.8	2281.7	2299.7	2312.7	2330.8
35°	1911.7	1909.1	1942.7	1979.0	1997.1	2002.2	2051.4	2092.7	2103.1	2113.4	2136.8
37.5°	1722.9	1722.9	1751.3	1769.5	1790.1	1797.8	1821.2	1867.8	1885.8	1883.2	1901.3
40°	1523.7	1513.4	1534.0	1552.2	1557.3	1559.8	1583.2	1619.3	1632.3	1632.3	1645.2
42.5°	1314.1	1298.6	1301.2	1311.5	1316.7	1298.6	1314.1	1337.4	1329.6	1340.0	1342.6
45°	1091.7	1068.3	1058.0	1034.7	1040.0	1021.8	1011.5	1016.6	1014.1	988.2	993.4
47.5°	910.5	869.2	851.0	817.5	809.7	789.0	776.1	752.7	732.1	732.1	719.1
50°	758.0	716.6	680.3	641.5	628.6	610.5	582.0	551.0	535.4	520.0	507.0
52.5°	636.4	592.4	548.4	507.0	489.0	465.6	426.8	395.8	367.3	351.8	336.3
55°	538.1	489.0	442.4	398.3	375.1	351.8	313.0	276.8	243.2	222.5	209.5
57.5°	463.0	416.5	367.3	320.8	300.0	274.2	232.9	194.0	163.0	139.7	126.8
60°	408.7	362.2	318.2	269.0	248.3	222.5	178.5	142.2	111.2	90.5	75.1
62.5°	362.2	320.8	274.2	230.2	209.5	183.7	142.2	106.1	77.6	56.9	43.9
65°	328.5	287.1	248.3	204.4	186.3	160.4	121.5	88.0	62.1	43.9	31.0
67.5°	289.7	253.5	214.7	178.5	160.4	139.7	103.5	75.1	51.7	36.2	25.9
70°	243.2	214.7	181.0	147.5	134.6	116.4	85.4	62.1	41.4	28.5	20.7
72.5°	194.0	170.7	144.9	119.0	108.6	90.5	69.8	49.2	31.0	20.7	15.6
75°	147.5	129.3	108.6	90.5	80.2	69.8	51.7	36.2	23.2	15.6	10.3
77.5°	100.9	93.1	77.6	62.1	56.9	49.2	33.6	23.2	15.6	10.3	5.2
80°	69.8	62.1	51.7	41.4	36.2	31.0	20.7	15.6	7.8	5.2	2.6
82.5°	43.9	36.2	31.0	25.9	23.2	18.1	12.9	7.8	5.2	2.6	2.6
85°	23.2	20.7	18.1	12.9	12.9	10.3	7.8	5.2	2.6	0.0	0.0
87.5°	12.9	10.3	7.8	5.2	5.2	2.6	2.6	2.6	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°	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9
2.5°	2721.4	2721.4	2718.8	2749.8	2713.6	2749.8	2731.7	2749.8	2723.9	2721.4	2723.9
5°	2742.0	2749.8	2752.4	2780.8	2747.3	2791.2	2775.7	2791.2	2773.1	2778.3	2786.1
7.5°	2783.4	2796.4	2793.9	2830.0	2796.4	2845.6	2835.2	2858.5	2840.3	2845.6	2855.9
10°	2830.0	2845.6	2848.1	2884.4	2853.3	2912.8	2899.8	2925.7	2910.2	2918.0	2930.9
12.5°	2884.4	2902.5	2905.1	2946.4	2912.8	2974.9	2967.1	2993.0	2980.0	2987.8	3003.4
15°	2925.7	2951.6	2956.8	2998.1	2962.0	3026.6	3021.5	3055.1	3034.4	3047.3	3060.3
17.5°	2946.4	2969.7	2980.0	3018.8	2987.8	3052.5	3047.3	3075.8	3060.3	3073.2	3088.7
20°	2933.5	2962.0	2969.7	3008.5	2977.5	3042.2	3034.4	3062.9	3047.3	3057.6	3073.2
22.5°	2886.9	2915.4	2925.7	2962.0	2933.5	2993.0	2990.4	3016.3	2995.6	3008.5	3021.5
25°	2804.2	2835.2	2840.3	2874.0	2843.0	2905.1	2899.8	2928.3	2912.8	2920.5	2938.6
27.5°	2685.2	2721.4	2729.1	2757.6	2734.3	2786.1	2786.1	2809.3	2791.2	2791.2	2809.3
30°	2542.9	2579.1	2584.2	2607.6	2586.9	2633.4	2636.1	2659.3	2630.8	2646.4	2649.0
32.5°	2369.5	2392.9	2408.3	2429.1	2398.0	2457.5	2449.8	2467.8	2452.4	2452.4	2465.3
35°	2160.0	2188.5	2196.3	2222.1	2196.3	2242.8	2242.8	2253.2	2237.6	2237.6	2258.3
37.5°	1932.4	1953.1	1955.6	1981.5	1960.8	1999.6	1997.1	2004.8	1989.3	1999.6	1999.6
40°	1665.9	1681.5	1686.6	1699.5	1697.0	1725.4	1722.9	1728.0	1720.3	1722.9	1728.0
42.5°	1355.6	1376.2	1386.6	1396.9	1381.4	1420.2	1412.4	1420.2	1417.6	1420.2	1428.0
45°	998.5	1014.1	1021.8	1024.4	1019.2	1042.5	1060.6	1045.1	1047.6	1042.5	1052.9
47.5°	721.7	724.3	719.1	734.7	721.7	732.1	737.3	739.8	724.3	721.7	732.1
50°	494.1	507.0	489.0	496.6	494.1	504.4	499.3	501.9	486.3	494.1	489.0
52.5°	328.5	325.9	320.8	323.4	318.2	318.2	318.2	323.4	313.0	307.8	302.7
55°	199.2	194.0	183.7	181.0	181.0	183.7	178.5	173.4	173.4	170.7	170.7
57.5°	116.4	108.6	103.5	100.9	95.7	93.1	90.5	90.5	85.4	85.4	85.4
60°	64.7	56.9	51.7	46.6	46.6	43.9	41.4	38.8	38.8	38.8	36.2
62.5°	33.6	28.5	23.2	20.7	20.7	18.1	15.6	15.6	15.6	15.6	12.9
65°	23.2	18.1	15.6	12.9	12.9	10.3	10.3	10.3	10.3	10.3	10.3
67.5°	18.1	15.6	12.9	10.3	10.3	10.3	7.8	7.8	7.8	7.8	7.8
70°	15.6	10.3	10.3	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
72.5°	10.3	10.3	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
75°	7.8	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	0.0	0.0	0.0	0.0	0.0
80°	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P685030

CATALOG NUMBER: LX6C45D010 EX6459040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9	2705.9
2.5°	2747.3	2744.7	2747.3	2752.4	2742.0	2773.1	2757.6	2773.1
5°	2806.8	2809.3	2811.9	2819.7	2806.8	2845.6	2824.9	2848.1
7.5°	2884.4	2886.9	2889.5	2897.3	2889.5	2928.3	2905.1	2925.7
10°	2964.6	2969.7	2969.7	2982.7	2974.9	3011.1	2995.6	3021.5
12.5°	3039.5	3044.7	3050.0	3057.6	3052.5	3091.3	3078.3	3099.1
15°	3099.1	3109.4	3112.0	3122.3	3117.1	3158.6	3143.0	3163.7
17.5°	3127.5	3137.8	3137.8	3150.8	3145.6	3189.6	3168.9	3192.2
20°	3112.0	3119.8	3122.3	3135.3	3130.1	3174.1	3153.4	3181.8
22.5°	3062.9	3065.4	3068.0	3081.0	3078.3	3117.1	3099.1	3117.1
25°	2972.3	2980.0	2977.5	2987.8	2987.8	3018.8	2998.1	3013.7
27.5°	2843.0	2850.7	2850.7	2863.7	2853.3	2884.4	2863.7	2886.9
30°	2685.2	2692.9	2687.8	2698.1	2687.8	2718.8	2703.2	2711.0
32.5°	2496.3	2496.3	2498.9	2501.5	2496.3	2524.7	2509.3	2524.7
35°	2271.3	2276.4	2279.0	2281.7	2276.4	2297.1	2279.0	2289.3
37.5°	2017.8	2030.7	2028.1	2030.7	2022.9	2048.8	2033.2	2038.5
40°	1746.1	1746.1	1743.5	1748.7	1741.0	1761.7	1751.3	1756.4
42.5°	1430.5	1438.3	1428.0	1440.9	1420.2	1448.6	1438.3	1430.5
45°	1073.6	1063.2	1060.6	1063.2	1055.4	1058.0	1065.8	1060.6
47.5°	732.1	732.1	726.9	719.1	729.5	732.1	721.7	721.7
50°	491.5	491.5	486.3	483.7	489.0	486.3	481.2	489.0
52.5°	313.0	302.7	302.7	307.8	302.7	297.5	305.3	300.0
55°	170.7	165.6	165.6	170.7	165.6	165.6	163.0	168.1
57.5°	82.7	85.4	82.7	82.7	82.7	82.7	80.2	82.7
60°	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
62.5°	15.6	15.6	12.9	12.9	12.9	12.9	12.9	12.9
65°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
67.5°	7.8	7.8	7.8	7.8	7.8	10.3	7.8	7.8
70°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
72.5°	7.8	7.8	10.3	10.3	10.3	10.3	10.3	10.3
75°	5.2	5.2	5.2	2.6	2.6	2.6	2.6	2.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	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)