

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: P684385

Luminaire Tested: **LX6C50D010 EX6C509035 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684385
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C50D010 EX6C509035 6LCSWH
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

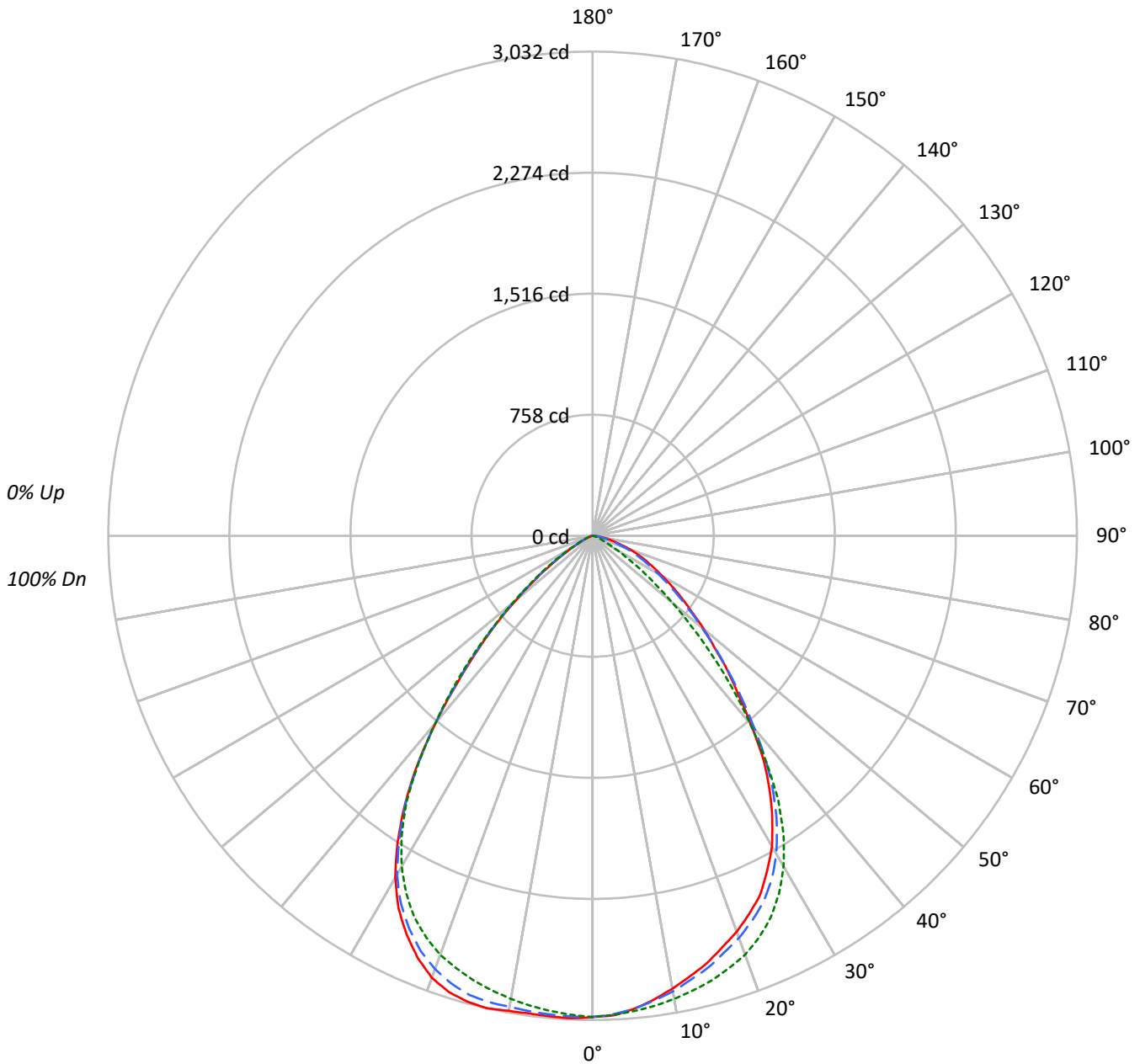
Lumens per Lamp: N/A
Luminaire Lumens: 5056.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80			80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58			58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40			40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	165212	165212	165212
5°	163636	164434	166244
10°	160268	163908	168167
15°	157197	163599	171454
20°	153938	162857	171777
25°	150148	159608	166655
30°	142161	151371	156435
35°	129095	135673	136891
40°	110185	109655	109133
45°	92552	82109	79574
50°	77302	55563	52774
55°	65059	34092	30967
60°	55072	17959	15558
65°	47683	9443	7549
70°	39670	5834	4087
75°	29314	3855	2309
80°	22983	2305	1168
85°	18367	2327	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.0	5.6
10°-20°	813.2	16.1
20°-30°	1200.9	23.8
30°-40°	1237.6	24.5
40°-50°	854.8	16.9
50°-60°	421.3	8.3
60°-70°	170.7	3.4
70°-80°	60.9	1.2
80°-90°	12.6	0.2
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°	2298.1	45.5
0°-40°	3535.7	69.9
0°-60°	4811.8	95.2
0°-90°	5056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5056.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3014	3014	3014	3014	3014	
5°	2974	2974	2988	3010	3021	281
15°	2770	2799	2883	2977	3021	780
25°	2482	2530	2639	2715	2755	1135
35°	1929	1976	2027	2038	2046	1195
45°	1194	1201	1059	1045	1026	923
55°	681	655	357	335	324	615
65°	368	331	73	58	58	365
75°	138	116	18	11	11	155
85°	29	22	4	0	0	36
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°	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7
2.5°	3006.4	2995.5	3002.8	2988.1	3006.4	2988.1	2991.8	2995.5	2991.8	2995.5	2999.1
5°	2973.6	2962.7	2973.6	2955.4	2973.6	2962.7	2962.7	2966.4	2966.4	2969.9	2973.6
7.5°	2930.0	2919.0	2930.0	2911.8	2933.5	2922.7	2922.7	2930.0	2926.3	2930.0	2937.2
10°	2879.1	2864.4	2875.4	2864.4	2886.3	2871.7	2879.1	2879.1	2879.1	2889.9	2897.3
12.5°	2824.5	2809.8	2824.5	2806.2	2828.0	2817.2	2820.8	2831.7	2835.3	2842.7	2846.2
15°	2769.8	2751.6	2758.9	2747.9	2769.8	2758.9	2762.6	2777.1	2777.1	2788.0	2799.0
17.5°	2700.7	2686.1	2700.7	2686.1	2704.3	2697.0	2704.3	2715.2	2715.2	2726.2	2737.0
20°	2638.7	2624.2	2635.2	2624.2	2646.1	2635.2	2638.7	2653.4	2656.9	2667.9	2678.8
22.5°	2562.3	2551.4	2558.6	2547.8	2569.6	2562.3	2566.0	2580.5	2584.2	2591.5	2609.7
25°	2482.3	2460.4	2471.3	2464.1	2486.0	2475.0	2482.3	2496.8	2504.2	2515.0	2529.6
27.5°	2365.8	2354.8	2362.1	2362.1	2380.3	2369.5	2373.1	2387.7	2398.5	2409.5	2427.7
30°	2245.8	2227.6	2234.8	2238.4	2253.0	2245.8	2253.0	2267.5	2271.2	2285.7	2300.2
32.5°	2092.9	2085.5	2100.1	2092.9	2100.1	2100.1	2103.7	2114.6	2121.9	2129.3	2147.5
35°	1929.0	1914.5	1929.0	1921.8	1940.0	1929.0	1940.0	1950.9	1950.9	1965.5	1976.4
37.5°	1750.7	1732.5	1739.8	1739.8	1747.0	1743.5	1743.5	1761.7	1765.2	1776.2	1787.1
40°	1539.7	1532.3	1546.9	1543.2	1546.9	1546.9	1550.5	1561.4	1568.7	1572.4	1576.1
42.5°	1350.4	1353.9	1357.6	1357.6	1357.6	1357.6	1357.6	1372.1	1368.6	1379.5	1383.1
45°	1193.8	1179.3	1186.5	1183.0	1193.8	1183.0	1193.8	1204.7	1197.5	1208.4	1201.0
47.5°	1033.6	1033.6	1033.6	1030.1	1037.3	1033.6	1040.9	1044.6	1044.6	1044.6	1040.9
50°	906.4	895.4	899.0	899.0	902.7	899.0	906.4	909.9	909.9	902.7	888.1
52.5°	782.5	778.9	778.9	786.2	786.2	782.5	782.5	782.5	782.5	771.7	764.3
55°	680.7	673.4	677.0	677.0	677.0	677.0	680.7	677.0	677.0	666.0	655.2
57.5°	589.6	582.4	582.4	582.4	585.9	582.4	582.4	582.4	578.7	567.7	553.2
60°	502.3	498.6	502.3	502.3	505.9	502.3	502.3	502.3	495.1	484.1	469.5
62.5°	429.5	429.5	429.5	433.1	433.1	429.5	429.5	425.8	422.2	407.6	393.1
65°	367.6	363.9	367.6	367.6	371.2	371.2	367.6	363.9	360.4	345.7	331.2
67.5°	305.8	302.1	305.8	305.8	309.3	305.8	305.8	305.8	294.8	287.6	272.9
70°	247.5	243.9	243.9	243.9	247.5	240.2	243.9	243.9	236.6	225.7	211.1
72.5°	189.3	189.3	189.3	189.3	189.3	189.3	185.6	185.6	178.3	167.4	160.1
75°	138.4	138.4	141.9	141.9	138.4	138.4	138.4	134.7	131.0	123.7	116.5
77.5°	102.0	102.0	102.0	102.0	98.3	98.3	98.3	94.6	91.0	87.3	80.1
80°	72.8	72.8	72.8	69.1	72.8	69.1	69.1	69.1	61.9	58.2	54.6
82.5°	50.9	47.4	47.4	47.4	47.4	47.4	47.4	43.7	43.7	40.1	36.4
85°	29.2	29.2	29.2	29.2	29.2	29.2	29.2	29.2	25.5	21.9	21.9
87.5°	14.5	18.2	18.2	18.2	18.2	18.2	18.2	14.5	14.5	14.5	10.9
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°	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7
2.5°	2999.1	2999.1	3006.4	2995.5	3013.7	3002.8	2999.1	3017.3	3006.4	3002.8	3010.0
5°	2973.6	2977.3	2980.9	2973.6	2991.8	2980.9	2980.9	2999.1	2991.8	2988.1	2999.1
7.5°	2940.9	2944.5	2951.7	2948.2	2962.7	2955.4	2959.1	2977.3	2969.9	2969.9	2980.9
10°	2900.8	2908.1	2915.5	2915.5	2933.5	2926.3	2926.3	2948.2	2940.9	2944.5	2959.1
12.5°	2853.5	2864.4	2875.4	2879.1	2897.3	2886.3	2889.9	2915.5	2911.8	2915.5	2930.0
15°	2802.6	2817.2	2828.0	2828.0	2849.9	2839.0	2849.9	2875.4	2868.1	2882.6	2900.8
17.5°	2744.4	2758.9	2773.4	2777.1	2799.0	2791.6	2806.2	2831.7	2831.7	2839.0	2860.9
20°	2689.8	2708.0	2715.2	2726.2	2747.9	2744.4	2751.6	2780.8	2780.8	2791.6	2813.5
22.5°	2617.0	2635.2	2649.7	2660.6	2678.8	2678.8	2689.8	2715.2	2715.2	2722.5	2744.4
25°	2536.9	2558.6	2569.6	2580.5	2598.8	2595.1	2606.0	2627.9	2631.5	2638.7	2660.6
27.5°	2434.9	2453.1	2467.8	2475.0	2500.5	2486.0	2496.8	2522.4	2518.7	2525.9	2544.1
30°	2307.6	2325.8	2340.3	2340.3	2362.1	2362.1	2373.1	2384.0	2384.0	2391.3	2405.9
32.5°	2158.3	2180.2	2180.2	2191.2	2205.7	2191.2	2205.7	2220.2	2212.9	2223.9	2234.8
35°	1987.2	1998.2	2001.9	2001.9	2012.8	2009.1	2005.4	2016.4	2009.1	2027.3	2038.3
37.5°	1779.9	1794.4	1787.1	1794.4	1790.7	1779.9	1779.9	1798.1	1783.4	1787.1	1798.1
40°	1579.6	1579.6	1576.1	1557.9	1561.4	1550.5	1546.9	1550.5	1536.0	1532.3	1546.9
42.5°	1372.1	1368.6	1357.6	1332.2	1335.7	1317.5	1303.0	1303.0	1295.7	1292.1	1295.7
45°	1186.5	1175.6	1157.4	1128.4	1121.0	1106.5	1077.3	1070.1	1059.1	1059.1	1062.8
47.5°	1015.4	1000.9	971.8	939.1	920.9	902.7	873.5	862.6	844.4	837.1	844.4
50°	873.5	848.0	811.6	764.3	746.1	724.3	695.2	677.0	658.8	651.5	647.8
52.5°	742.5	706.1	669.7	611.5	596.9	575.1	535.0	516.8	498.6	484.1	484.1
55°	629.6	596.9	546.0	491.4	469.5	447.7	407.6	382.1	363.9	356.7	349.4
57.5°	527.8	491.4	444.0	385.8	363.9	342.2	302.1	276.6	258.4	247.5	240.2
60°	444.0	404.0	356.7	305.8	280.3	258.4	218.4	192.8	174.6	163.8	156.4
62.5°	363.9	331.2	283.9	236.6	214.7	192.8	160.1	134.7	116.5	109.2	98.3
65°	305.8	272.9	229.3	189.3	171.1	149.2	120.2	98.3	83.8	72.8	65.6
67.5°	247.5	222.0	185.6	149.2	131.0	116.5	91.0	72.8	58.2	50.9	47.4
70°	196.5	171.1	141.9	112.8	102.0	87.3	69.1	50.9	43.7	36.4	32.7
72.5°	145.6	127.4	105.5	83.8	72.8	65.6	47.4	40.1	29.2	25.5	21.9
75°	105.5	91.0	76.4	58.2	50.9	47.4	36.4	25.5	21.9	18.2	14.5
77.5°	72.8	65.6	50.9	40.1	36.4	32.7	25.5	18.2	14.5	10.9	10.9
80°	47.4	40.1	32.7	25.5	25.5	21.9	14.5	10.9	10.9	7.3	7.3
82.5°	29.2	25.5	21.9	18.2	14.5	14.5	10.9	7.3	7.3	3.7	3.7
85°	18.2	14.5	10.9	10.9	7.3	7.3	7.3	3.7	3.7	3.7	3.7
87.5°	7.3	7.3	7.3	3.7	3.7	3.7	3.7	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7
2.5°	3010.0	3010.0	3017.3	3006.4	3013.7	3013.7	3021.0	3006.4	3013.7	3017.3	3024.6
5°	2995.5	2999.1	3006.4	3002.8	3006.4	3006.4	3013.7	2995.5	3010.0	3010.0	3021.0
7.5°	2980.9	2980.9	2988.1	2984.6	2991.8	2995.5	3002.8	2988.1	3002.8	3002.8	3013.7
10°	2962.7	2962.7	2973.6	2969.9	2980.9	2984.6	2995.5	2980.9	2995.5	2999.1	3010.0
12.5°	2937.2	2940.9	2951.7	2951.7	2962.7	2969.9	2980.9	2973.6	2991.8	2995.5	3010.0
15°	2908.1	2915.5	2930.0	2926.3	2937.2	2948.2	2962.7	2951.7	2977.3	2984.6	2999.1
17.5°	2871.7	2879.1	2889.9	2889.9	2900.8	2908.1	2926.3	2919.0	2940.9	2944.5	2962.7
20°	2817.2	2828.0	2842.7	2839.0	2849.9	2857.2	2871.7	2864.4	2886.3	2893.6	2911.8
22.5°	2751.6	2758.9	2769.8	2769.8	2780.8	2788.0	2802.6	2791.6	2813.5	2817.2	2831.7
25°	2664.3	2671.6	2678.8	2682.5	2693.3	2697.0	2704.3	2697.0	2715.2	2718.9	2737.0
27.5°	2551.4	2555.1	2566.0	2566.0	2573.3	2576.9	2587.8	2573.3	2598.8	2598.8	2609.7
30°	2416.7	2413.2	2427.7	2420.4	2427.7	2427.7	2438.6	2431.4	2449.6	2442.3	2453.1
32.5°	2238.4	2245.8	2245.8	2238.4	2253.0	2249.3	2249.3	2242.1	2253.0	2256.6	2263.8
35°	2031.0	2041.8	2041.8	2045.5	2049.2	2038.3	2041.8	2020.1	2038.3	2041.8	2045.5
37.5°	1805.3	1794.4	1801.6	1790.7	1808.9	1787.1	1787.1	1772.6	1787.1	1787.1	1790.7
40°	1546.9	1543.2	1550.5	1543.2	1539.7	1536.0	1528.7	1517.8	1532.3	1525.0	1536.0
42.5°	1303.0	1299.3	1299.3	1292.1	1288.5	1288.5	1281.2	1273.8	1270.3	1270.3	1288.5
45°	1051.8	1059.1	1051.8	1048.3	1055.5	1048.3	1051.8	1037.3	1044.6	1037.3	1044.6
47.5°	840.8	844.4	837.1	829.8	840.8	829.8	829.8	818.9	833.5	833.5	826.1
50°	651.5	647.8	640.6	647.8	644.2	644.2	644.2	633.3	640.6	629.6	637.0
52.5°	480.4	476.9	476.9	473.2	476.9	473.2	473.2	469.5	469.5	465.9	469.5
55°	349.4	345.7	338.5	338.5	338.5	342.2	338.5	334.9	334.9	331.2	334.9
57.5°	236.6	229.3	229.3	229.3	229.3	225.7	225.7	222.0	225.7	222.0	225.7
60°	152.9	152.9	145.6	145.6	145.6	145.6	145.6	141.9	145.6	145.6	145.6
62.5°	94.6	94.6	91.0	87.3	91.0	87.3	87.3	87.3	91.0	87.3	91.0
65°	61.9	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
67.5°	43.7	40.1	40.1	40.1	40.1	40.1	40.1	36.4	40.1	40.1	40.1
70°	29.2	29.2	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
72.5°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
75°	14.5	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
77.5°	10.9	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
80°	7.3	7.3	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
85°	3.7	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	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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: P684385

CATALOG NUMBER: LX6C50D010 EX6C509035 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7	3013.7
2.5°	3013.7	3017.3	3010.0	3013.7	3006.4	3013.7	3017.3	3024.6
5°	3006.4	3010.0	3002.8	3010.0	3002.8	3010.0	3013.7	3021.0
7.5°	2999.1	3006.4	2999.1	3006.4	2999.1	3006.4	3010.0	3017.3
10°	2999.1	3010.0	3002.8	3013.7	3002.8	3010.0	3017.3	3021.0
12.5°	2999.1	3010.0	3006.4	3013.7	3010.0	3017.3	3024.6	3031.8
15°	2991.8	3002.8	2995.5	3006.4	3002.8	3006.4	3021.0	3021.0
17.5°	2951.7	2962.7	2962.7	2969.9	2969.9	2980.9	2988.1	2995.5
20°	2900.8	2911.8	2908.1	2919.0	2919.0	2930.0	2937.2	2944.5
22.5°	2824.5	2839.0	2835.3	2846.2	2842.7	2849.9	2864.4	2860.9
25°	2726.2	2744.4	2740.7	2747.9	2744.4	2744.4	2751.6	2755.2
27.5°	2606.0	2617.0	2613.3	2620.7	2613.3	2620.7	2627.9	2631.5
30°	2449.6	2456.8	2453.1	2456.8	2453.1	2460.4	2464.1	2471.3
32.5°	2260.3	2271.2	2260.3	2267.5	2263.8	2263.8	2278.5	2271.2
35°	2034.6	2038.3	2041.8	2041.8	2034.6	2038.3	2045.5	2045.5
37.5°	1783.4	1801.6	1779.9	1790.7	1787.1	1787.1	1787.1	1798.1
40°	1521.4	1525.0	1517.8	1517.8	1517.8	1514.1	1528.7	1525.0
42.5°	1273.8	1277.5	1273.8	1263.0	1266.6	1266.6	1277.5	1263.0
45°	1033.6	1040.9	1037.3	1037.3	1030.1	1030.1	1033.6	1026.4
47.5°	818.9	826.1	815.3	818.9	811.6	818.9	815.3	822.6
50°	622.3	629.6	626.0	629.6	629.6	622.3	633.3	618.8
52.5°	465.9	469.5	465.9	462.2	458.7	458.7	465.9	462.2
55°	331.2	327.5	327.5	327.5	331.2	331.2	327.5	324.0
57.5°	222.0	222.0	218.4	218.4	222.0	214.7	218.4	214.7
60°	141.9	141.9	141.9	141.9	138.4	141.9	141.9	141.9
62.5°	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
65°	58.2	58.2	58.2	58.2	58.2	58.2	58.2	58.2
67.5°	36.4	40.1	40.1	40.1	36.4	36.4	36.4	36.4
70°	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
72.5°	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.2
75°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
77.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
80°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
82.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	3.7	3.7	3.7	3.7	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)