

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: P685080

Luminaire Tested: **LX6C50D010 EX6509040 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685080
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: LX6C50D010 EX6509040 6LCSWLI
Description: 6 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

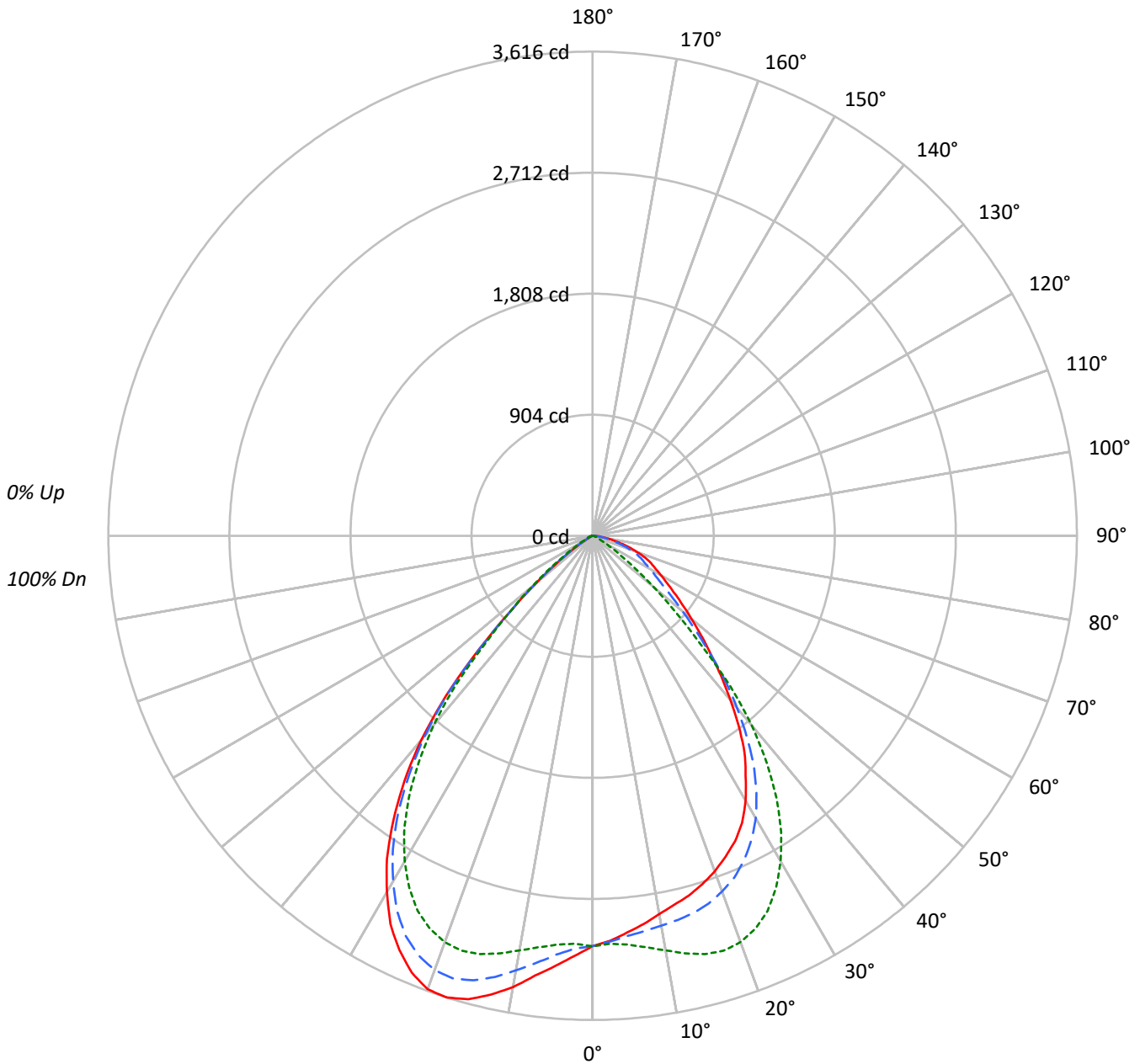
Lumens per Lamp: N/A
Luminaire Lumens: 5602.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	168007	168007	168007
5°	163652	168649	177520
10°	159672	175002	190500
15°	157805	183582	203367
20°	155542	188363	210240
25°	152241	186972	206468
30°	144668	177679	194372
35°	132354	160200	173532
40°	114486	132305	142367
45°	96545	86776	93126
50°	81967	50224	47231
55°	71128	24085	18198
60°	64249	11238	4495
65°	62328	6460	1518
70°	55891	5177	1410
75°	45920	3728	635
80°	34222	1831	0
85°	29500	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.0	5.3
10°-20°	902.2	16.1
20°-30°	1378.4	24.6
30°-40°	1441.7	25.7
40°-50°	935.3	16.7
50°-60°	371.3	6.6
60°-70°	176.2	3.1
70°-80°	83.8	1.5
80°-90°	17.1	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°	2576.6	46.0
0°-40°	4018.4	71.7
0°-60°	5325.0	95.1
0°-90°	5602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5602.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3065	3065	3065	3065	3065	
5°	2974	3000	3065	3141	3226	281
15°	2780	2915	3235	3437	3583	784
25°	2517	2675	3091	3299	3413	1153
35°	1978	2098	2394	2534	2593	1223
45°	1245	1234	1119	1187	1201	969
55°	744	633	252	196	190	674
65°	480	398	50	12	12	469
75°	217	176	18	6	3	234
85°	47	29	0	0	0	55
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°	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7
2.5°	3026.6	3032.5	3000.3	2991.5	3015.0	3023.7	3026.6	3017.8	3020.8	3032.5	3032.5
5°	2973.9	2979.7	2950.4	2941.6	2965.1	2971.0	2979.7	2976.9	2985.7	3003.2	3000.3
7.5°	2924.1	2932.9	2900.7	2889.0	2918.3	2932.9	2938.8	2938.8	2950.4	2973.9	2976.9
10°	2868.4	2880.2	2850.9	2844.9	2877.2	2891.9	2894.8	2900.7	2918.3	2950.4	2956.3
12.5°	2821.6	2833.3	2812.8	2804.0	2839.1	2853.7	2859.6	2871.4	2891.9	2932.9	2938.8
15°	2780.5	2789.3	2765.9	2760.0	2795.2	2812.8	2815.6	2833.3	2859.6	2906.5	2915.3
17.5°	2727.8	2733.6	2716.1	2710.3	2745.4	2762.9	2765.9	2786.4	2818.6	2865.5	2880.2
20°	2666.2	2672.2	2654.5	2648.7	2683.8	2704.3	2707.3	2724.9	2762.9	2812.8	2827.4
22.5°	2593.0	2604.8	2584.3	2578.3	2613.6	2631.1	2639.9	2654.5	2692.6	2742.4	2762.9
25°	2516.9	2516.9	2502.2	2499.3	2531.5	2552.0	2549.0	2569.5	2607.6	2657.5	2675.0
27.5°	2417.2	2414.2	2399.6	2396.7	2431.9	2449.5	2443.5	2464.1	2499.3	2549.0	2566.7
30°	2285.4	2291.2	2270.8	2264.8	2294.2	2323.5	2320.5	2341.0	2376.1	2423.1	2434.8
32.5°	2127.2	2133.0	2130.1	2121.3	2147.6	2162.3	2171.1	2185.7	2215.0	2264.8	2276.6
35°	1977.7	1968.9	1957.2	1957.2	1983.5	2007.0	1998.2	2015.8	2045.1	2094.9	2097.9
37.5°	1793.1	1790.2	1784.3	1778.5	1807.8	1813.6	1816.6	1828.3	1854.7	1895.7	1889.8
40°	1599.8	1602.6	1599.8	1588.0	1605.6	1629.1	1626.1	1632.0	1655.4	1684.7	1676.0
42.5°	1418.1	1418.1	1418.1	1406.4	1426.9	1438.7	1444.5	1441.5	1447.4	1473.8	1462.0
45°	1245.3	1248.1	1245.3	1242.3	1245.3	1251.1	1245.3	1242.3	1242.3	1251.1	1233.5
47.5°	1095.8	1095.8	1087.0	1078.2	1087.0	1089.9	1081.2	1072.4	1069.4	1066.5	1037.3
50°	961.1	958.1	955.2	940.6	949.3	952.2	940.6	934.6	922.9	908.3	873.2
52.5°	843.9	840.9	837.9	823.3	829.2	832.1	820.4	808.6	794.0	782.3	738.4
55°	744.2	741.2	741.2	732.5	726.6	732.5	720.8	712.0	691.5	676.8	632.9
57.5°	659.2	659.2	653.4	644.6	647.5	647.5	635.9	624.1	606.5	588.9	553.8
60°	586.0	586.0	586.0	577.2	577.2	577.2	571.3	559.6	545.0	527.4	492.3
62.5°	527.4	527.4	524.4	515.7	518.6	518.6	512.7	501.1	486.4	474.6	439.5
65°	480.5	480.5	480.5	471.8	471.8	474.6	468.8	457.1	445.3	430.7	398.4
67.5°	421.9	419.0	419.0	413.1	416.0	419.0	413.1	404.4	389.7	380.9	351.6
70°	348.7	351.6	354.5	345.8	348.7	348.7	345.8	337.0	328.2	319.4	293.0
72.5°	284.2	284.2	281.3	278.4	278.4	281.3	275.4	266.6	260.8	254.9	234.3
75°	216.8	213.9	216.8	211.0	211.0	211.0	205.1	202.2	199.2	190.4	175.8
77.5°	158.2	155.3	155.3	149.4	152.4	152.4	149.4	143.6	137.7	134.8	123.0
80°	108.4	108.4	108.4	105.5	105.5	102.5	102.5	99.7	93.7	90.9	85.0
82.5°	73.2	73.2	73.2	70.4	70.4	70.4	67.4	64.4	61.6	58.6	52.7
85°	46.9	46.9	46.9	43.9	43.9	43.9	41.0	41.0	38.1	35.1	29.3
87.5°	26.3	26.3	26.3	23.5	23.5	23.5	23.5	23.5	20.5	17.6	14.6
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°	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7
2.5°	3053.0	3012.0	3038.3	3038.3	3029.6	3053.0	3067.7	3079.4	3076.4	3050.1	3047.1
5°	3029.6	2994.4	3023.7	3026.6	3017.8	3050.1	3070.6	3085.2	3088.2	3064.7	3067.7
7.5°	3012.0	2982.7	3020.8	3032.5	3029.6	3058.9	3082.4	3105.7	3117.5	3099.9	3102.8
10°	3003.2	2979.7	3020.8	3038.3	3041.3	3073.6	3108.7	3141.0	3155.6	3143.8	3152.6
12.5°	2991.5	2976.9	3023.7	3050.1	3061.8	3094.0	3138.0	3176.1	3199.5	3193.7	3211.2
15°	2979.7	2968.1	3023.7	3061.8	3076.4	3105.7	3155.6	3211.2	3237.6	3234.7	3258.1
17.5°	2950.4	2947.6	3006.2	3047.1	3067.7	3102.8	3149.7	3217.0	3243.5	3249.3	3278.6
20°	2903.6	2903.6	2968.1	3012.0	3035.5	3067.7	3126.3	3190.7	3223.0	3228.8	3261.1
22.5°	2839.1	2844.9	2906.5	2950.4	2985.7	3009.0	3070.6	3138.0	3167.3	3176.1	3211.2
25°	2754.2	2760.0	2818.6	2862.6	2900.7	2927.0	2985.7	3047.1	3082.4	3091.1	3117.5
27.5°	2642.9	2654.5	2710.3	2754.2	2786.4	2804.0	2865.5	2930.0	2956.3	2965.1	2991.5
30°	2513.9	2516.9	2572.5	2610.6	2642.9	2657.5	2710.3	2777.7	2798.1	2806.9	2844.9
32.5°	2355.7	2352.8	2405.5	2440.7	2467.0	2484.6	2540.2	2584.3	2604.8	2619.4	2639.9
35°	2165.3	2162.3	2200.4	2241.5	2261.9	2267.8	2323.5	2370.3	2382.1	2393.8	2420.2
37.5°	1951.4	1951.4	1983.5	2004.1	2027.5	2036.3	2062.7	2115.5	2136.0	2133.0	2153.5
40°	1725.7	1714.1	1737.4	1758.0	1763.9	1766.7	1793.1	1834.1	1848.8	1848.8	1863.4
42.5°	1488.4	1470.8	1473.8	1485.5	1491.3	1470.8	1488.4	1514.8	1505.9	1517.7	1520.7
45°	1236.5	1210.0	1198.4	1171.9	1177.9	1157.3	1145.6	1151.5	1148.6	1119.3	1125.1
47.5°	1031.3	984.5	963.9	925.9	917.1	893.7	879.0	852.6	829.2	829.2	814.5
50°	858.5	811.6	770.5	726.6	712.0	691.5	659.2	624.1	606.5	588.9	574.3
52.5°	720.8	671.0	621.1	574.3	553.8	527.4	483.4	448.3	416.0	398.4	380.9
55°	609.4	553.8	501.1	451.2	424.9	398.4	354.5	313.5	275.4	252.0	237.3
57.5°	524.4	471.8	416.0	363.3	339.8	310.5	263.7	219.7	184.6	158.2	143.6
60°	463.0	410.2	360.4	304.7	281.3	252.0	202.2	161.1	126.0	102.5	85.0
62.5°	410.2	363.3	310.5	260.8	237.3	208.0	161.1	120.1	87.9	64.4	49.8
65°	372.1	325.2	281.3	231.5	211.0	181.7	137.7	99.7	70.4	49.8	35.1
67.5°	328.2	287.1	243.2	202.2	181.7	158.2	117.2	85.0	58.6	41.0	29.3
70°	275.4	243.2	205.1	167.1	152.4	131.8	96.7	70.4	46.9	32.3	23.5
72.5°	219.7	193.4	164.1	134.8	123.0	102.5	79.1	55.7	35.1	23.5	17.6
75°	167.1	146.5	123.0	102.5	90.9	79.1	58.6	41.0	26.3	17.6	11.7
77.5°	114.3	105.5	87.9	70.4	64.4	55.7	38.1	26.3	17.6	11.7	5.8
80°	79.1	70.4	58.6	46.9	41.0	35.1	23.5	17.6	8.8	5.8	3.0
82.5°	49.8	41.0	35.1	29.3	26.3	20.5	14.6	8.8	5.8	3.0	3.0
85°	26.3	23.5	20.5	14.6	14.6	11.7	8.8	5.8	3.0	0.0	0.0
87.5°	14.6	11.7	8.8	5.8	5.8	3.0	3.0	3.0	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°	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7
2.5°	3082.4	3082.4	3079.4	3114.5	3073.6	3114.5	3094.0	3114.5	3085.2	3082.4	3085.2
5°	3105.7	3114.5	3117.5	3149.7	3111.7	3161.4	3143.8	3161.4	3141.0	3146.8	3155.6
7.5°	3152.6	3167.3	3164.4	3205.4	3167.3	3223.0	3211.2	3237.6	3217.0	3223.0	3234.7
10°	3205.4	3223.0	3225.9	3266.9	3231.7	3299.1	3284.4	3313.7	3296.2	3305.0	3319.7
12.5°	3266.9	3287.4	3290.4	3337.2	3299.1	3369.5	3360.6	3389.9	3375.3	3384.1	3401.7
15°	3313.7	3343.0	3349.0	3395.8	3354.8	3428.0	3422.2	3460.3	3436.9	3451.5	3466.1
17.5°	3337.2	3363.6	3375.3	3419.2	3384.1	3457.3	3451.5	3483.8	3466.1	3480.8	3498.4
20°	3322.5	3354.8	3363.6	3407.6	3372.4	3445.7	3436.9	3469.1	3451.5	3463.2	3480.8
22.5°	3269.8	3302.1	3313.7	3354.8	3322.5	3389.9	3387.1	3416.4	3392.9	3407.6	3422.2
25°	3176.1	3211.2	3217.0	3255.1	3220.0	3290.4	3284.4	3316.7	3299.1	3307.9	3328.4
27.5°	3041.3	3082.4	3091.1	3123.3	3097.0	3155.6	3155.6	3181.9	3161.4	3161.4	3181.9
30°	2880.2	2921.1	2927.0	2953.4	2930.0	2982.7	2985.7	3012.0	2979.7	2997.3	3000.3
32.5°	2683.8	2710.3	2727.8	2751.2	2716.1	2783.5	2774.7	2795.2	2777.7	2777.7	2792.3
35°	2446.5	2478.8	2487.6	2516.9	2487.6	2540.2	2540.2	2552.0	2534.4	2534.4	2557.8
37.5°	2188.7	2212.2	2215.0	2244.3	2220.9	2264.8	2261.9	2270.8	2253.1	2264.8	2264.8
40°	1886.9	1904.5	1910.3	1925.0	1922.1	1954.3	1951.4	1957.2	1948.4	1951.4	1957.2
42.5°	1535.3	1558.7	1570.5	1582.1	1564.6	1608.6	1599.8	1608.6	1605.6	1608.6	1617.4
45°	1131.0	1148.6	1157.3	1160.3	1154.4	1180.7	1201.2	1183.7	1186.6	1180.7	1192.5
47.5°	817.4	820.4	814.5	832.1	817.4	829.2	835.1	837.9	820.4	817.4	829.2
50°	559.6	574.3	553.8	562.5	559.6	571.3	565.5	568.5	550.8	559.6	553.8
52.5°	372.1	369.1	363.3	366.3	360.4	360.4	360.4	366.3	354.5	348.7	342.8
55°	225.6	219.7	208.0	205.1	205.1	208.0	202.2	196.4	196.4	193.4	193.4
57.5°	131.8	123.0	117.2	114.3	108.4	105.5	102.5	102.5	96.7	96.7	96.7
60°	73.2	64.4	58.6	52.7	52.7	49.8	46.9	43.9	43.9	43.9	41.0
62.5°	38.1	32.3	26.3	23.5	23.5	20.5	17.6	17.6	17.6	17.6	14.6
65°	26.3	20.5	17.6	14.6	14.6	11.7	11.7	11.7	11.7	11.7	11.7
67.5°	20.5	17.6	14.6	11.7	11.7	11.7	8.8	8.8	8.8	8.8	8.8
70°	17.6	11.7	11.7	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
72.5°	11.7	11.7	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
75°	8.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0
80°	3.0	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: P685080

CATALOG NUMBER: LX6C50D010 EX6509040 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7	3064.7
2.5°	3111.7	3108.7	3111.7	3117.5	3105.7	3141.0	3123.3	3141.0
5°	3179.1	3181.9	3184.9	3193.7	3179.1	3223.0	3199.5	3225.9
7.5°	3266.9	3269.8	3272.8	3281.6	3272.8	3316.7	3290.4	3313.7
10°	3357.8	3363.6	3363.6	3378.3	3369.5	3410.4	3392.9	3422.2
12.5°	3442.7	3448.5	3454.5	3463.2	3457.3	3501.3	3486.6	3510.1
15°	3510.1	3521.8	3524.7	3536.4	3530.6	3577.5	3559.9	3583.3
17.5°	3542.4	3554.0	3554.0	3568.7	3562.8	3612.6	3589.2	3615.6
20°	3524.7	3533.5	3536.4	3551.2	3545.2	3595.1	3571.6	3603.8
22.5°	3469.1	3472.0	3475.0	3489.6	3486.6	3530.6	3510.1	3530.6
25°	3366.5	3375.3	3372.4	3384.1	3384.1	3419.2	3395.8	3413.4
27.5°	3220.0	3228.8	3228.8	3243.5	3231.7	3266.9	3243.5	3269.8
30°	3041.3	3050.1	3044.3	3055.9	3044.3	3079.4	3061.8	3070.6
32.5°	2827.4	2827.4	2830.3	2833.3	2827.4	2859.6	2842.1	2859.6
35°	2572.5	2578.3	2581.3	2584.3	2578.3	2601.8	2581.3	2593.0
37.5°	2285.4	2300.0	2297.1	2300.0	2291.2	2320.5	2302.9	2308.9
40°	1977.7	1977.7	1974.7	1980.7	1971.9	1995.3	1983.5	1989.4
42.5°	1620.3	1629.1	1617.4	1632.0	1608.6	1640.7	1629.1	1620.3
45°	1216.0	1204.2	1201.2	1204.2	1195.4	1198.4	1207.2	1201.2
47.5°	829.2	829.2	823.3	814.5	826.3	829.2	817.4	817.4
50°	556.7	556.7	550.8	547.9	553.8	550.8	545.0	553.8
52.5°	354.5	342.8	342.8	348.7	342.8	337.0	345.8	339.8
55°	193.4	187.5	187.5	193.4	187.5	187.5	184.6	190.4
57.5°	93.7	96.7	93.7	93.7	93.7	93.7	90.9	93.7
60°	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0
62.5°	17.6	17.6	14.6	14.6	14.6	14.6	14.6	14.6
65°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
67.5°	8.8	8.8	8.8	8.8	8.8	11.7	8.8	8.8
70°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
72.5°	8.8	8.8	11.7	11.7	11.7	11.7	11.7	11.7
75°	5.8	5.8	5.8	3.0	3.0	3.0	3.0	3.0
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)