

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: P685095

Luminaire Tested: **LX6C55D010 EX6559030 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685095
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: LX6C55D010 EX6559030 6LCSWLI
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

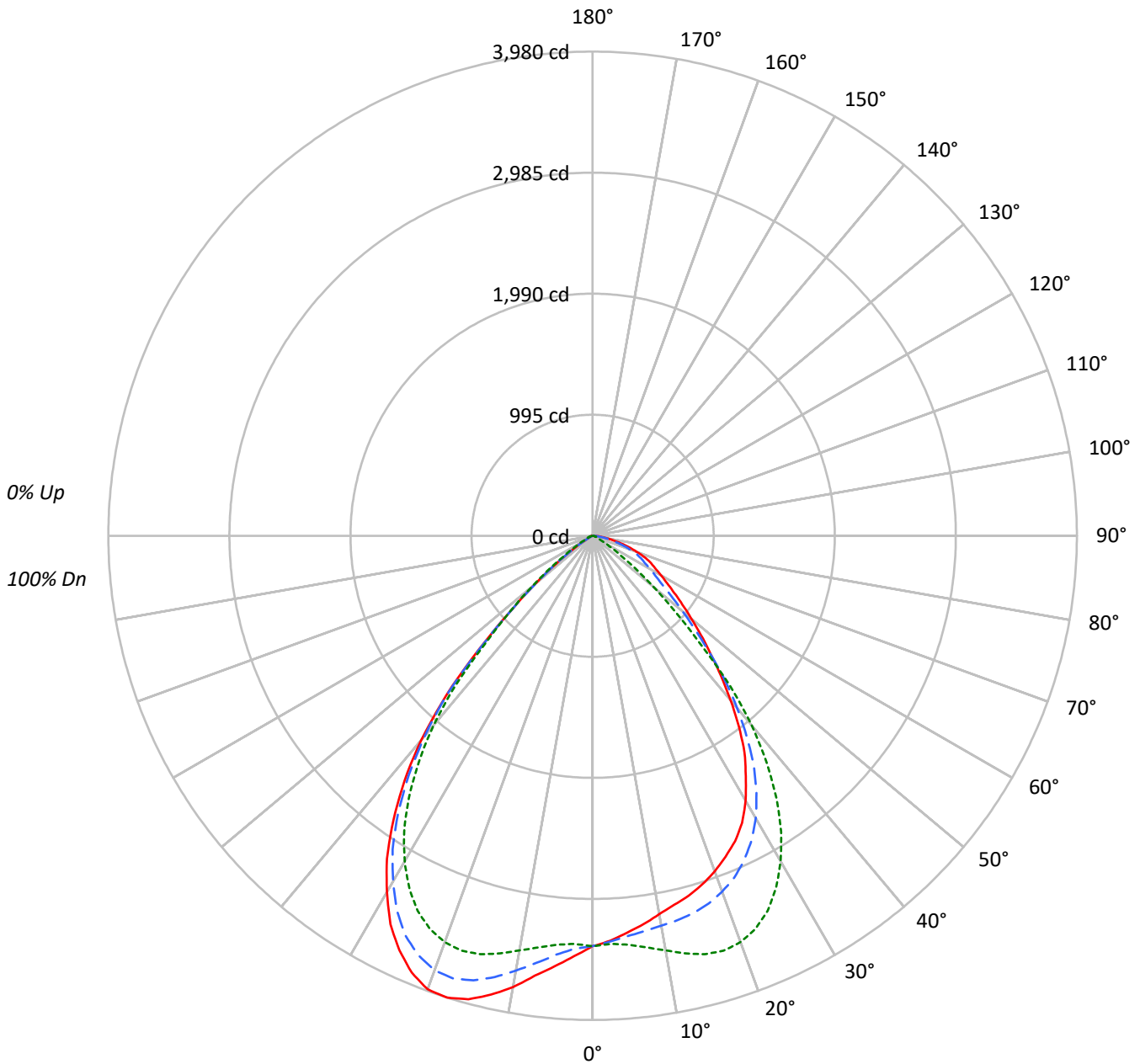
Lumens per Lamp: N/A
Luminaire Lumens: 6167.0 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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								
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90								
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80								
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72								
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65								
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58								
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53								
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48								
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44								
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40								
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	184952	184952	184952
5°	180156	185659	195421
10°	175776	192654	209716
15°	173718	202095	223878
20°	171229	207364	231446
25°	167592	205826	227293
30°	159259	195600	213976
35°	145705	176356	191032
40°	126029	145644	156722
45°	106282	95529	102522
50°	90232	55290	51998
55°	78305	26513	20033
60°	70729	12378	4945
65°	68607	7108	1673
70°	61517	5690	1555
75°	50559	4109	699
80°	37663	2020	0
85°	32456	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.9	5.3
10°-20°	993.2	16.1
20°-30°	1517.5	24.6
30°-40°	1587.1	25.7
40°-50°	1029.6	16.7
50°-60°	408.8	6.6
60°-70°	193.9	3.1
70°-80°	92.2	1.5
80°-90°	18.8	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°	2836.5	46.0
0°-40°	4423.7	71.7
0°-60°	5862.0	95.1
0°-90°	6167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6167.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3374	3374	3374	3374	3374	
5°	3274	3303	3374	3458	3551	309
15°	3061	3209	3561	3784	3945	863
25°	2771	2945	3403	3632	3758	1269
35°	2177	2309	2635	2790	2854	1346
45°	1371	1358	1232	1306	1322	1067
55°	819	697	277	216	210	742
65°	529	439	55	13	13	517
75°	239	194	19	6	3	257
85°	52	32	0	0	0	60
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°	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8
2.5°	3331.9	3338.3	3302.9	3293.2	3319.0	3328.6	3331.9	3322.2	3325.5	3338.3	3338.3
5°	3273.8	3280.3	3248.0	3238.3	3264.1	3270.7	3280.3	3277.1	3286.8	3306.1	3302.9
7.5°	3219.0	3228.7	3193.2	3180.4	3212.6	3228.7	3235.2	3235.2	3248.0	3273.8	3277.1
10°	3157.7	3170.7	3138.4	3131.9	3167.4	3183.5	3186.8	3193.2	3212.6	3248.0	3254.4
12.5°	3106.2	3119.0	3096.5	3086.8	3125.4	3141.6	3148.0	3161.0	3183.5	3228.7	3235.2
15°	3060.9	3070.6	3044.8	3038.4	3077.1	3096.5	3099.6	3119.0	3148.0	3199.6	3209.3
17.5°	3002.9	3009.3	2990.0	2983.6	3022.3	3041.6	3044.8	3067.4	3102.9	3154.5	3170.7
20°	2935.1	2941.7	2922.3	2915.8	2954.5	2977.1	2980.3	2999.7	3041.6	3096.5	3112.6
22.5°	2854.5	2867.5	2844.9	2838.4	2877.2	2896.4	2906.1	2922.3	2964.2	3019.0	3041.6
25°	2770.7	2770.7	2754.6	2751.3	2786.8	2809.4	2806.1	2828.7	2870.6	2925.5	2944.8
27.5°	2661.0	2657.7	2641.6	2638.5	2677.1	2696.5	2690.0	2712.7	2751.3	2806.1	2825.5
30°	2515.9	2522.3	2499.8	2493.2	2525.6	2557.8	2554.6	2577.1	2615.8	2667.4	2680.4
32.5°	2341.7	2348.1	2345.0	2335.3	2364.2	2380.4	2390.1	2406.2	2438.4	2493.2	2506.2
35°	2177.2	2167.5	2154.6	2154.6	2183.6	2209.4	2199.7	2219.1	2251.4	2306.2	2309.4
37.5°	1974.0	1970.7	1964.3	1957.9	1990.1	1996.5	1999.8	2012.7	2041.8	2086.9	2080.4
40°	1761.1	1764.3	1761.1	1748.1	1767.5	1793.4	1790.1	1796.6	1822.3	1854.6	1845.0
42.5°	1561.1	1561.1	1561.1	1548.2	1570.8	1583.8	1590.2	1586.9	1593.3	1622.4	1609.5
45°	1370.9	1374.0	1370.9	1367.6	1370.9	1377.3	1370.9	1367.6	1367.6	1377.3	1357.9
47.5°	1206.4	1206.4	1196.7	1187.0	1196.7	1199.8	1190.2	1180.5	1177.3	1174.1	1141.9
50°	1058.0	1054.7	1051.6	1035.4	1045.0	1048.3	1035.4	1028.9	1016.0	999.9	961.2
52.5°	929.0	925.7	922.4	906.3	912.9	916.0	903.2	890.2	874.1	861.2	812.9
55°	819.3	816.0	816.0	806.4	799.9	806.4	793.5	783.8	761.2	745.1	696.7
57.5°	725.7	725.7	719.3	709.6	712.8	712.8	700.0	687.0	667.6	648.3	609.7
60°	645.1	645.1	645.1	635.4	635.4	635.4	628.9	616.1	600.0	580.6	541.9
62.5°	580.6	580.6	577.3	567.7	570.9	570.9	564.4	551.6	535.5	522.5	483.8
65°	528.9	528.9	528.9	519.4	519.4	522.5	516.1	503.2	490.3	474.1	438.6
67.5°	464.4	461.3	461.3	454.7	458.0	461.3	454.7	445.2	429.0	419.3	387.1
70°	383.8	387.1	390.2	380.7	383.8	383.8	380.7	371.0	361.3	351.6	322.6
72.5°	312.9	312.9	309.6	306.5	306.5	309.6	303.2	293.5	287.1	280.6	258.0
75°	238.7	235.4	238.7	232.3	232.3	232.3	225.7	222.6	219.3	209.6	193.5
77.5°	174.2	170.9	170.9	164.5	167.8	167.8	164.5	158.1	151.5	148.4	135.4
80°	119.3	119.3	119.3	116.1	116.1	112.9	112.9	109.7	103.2	100.0	93.6
82.5°	80.6	80.6	80.6	77.5	77.5	77.5	74.2	70.9	67.8	64.5	58.1
85°	51.6	51.6	51.6	48.4	48.4	48.4	45.1	45.1	41.9	38.7	32.2
87.5°	29.0	29.0	29.0	25.8	25.8	25.8	25.8	25.8	22.5	19.4	16.1
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°	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8
2.5°	3360.9	3315.8	3344.8	3344.8	3335.2	3360.9	3377.1	3390.0	3386.7	3357.7	3354.4
5°	3335.2	3296.4	3328.6	3331.9	3322.2	3357.7	3380.3	3396.4	3399.7	3373.8	3377.1
7.5°	3315.8	3283.5	3325.5	3338.3	3335.2	3367.4	3393.2	3418.9	3431.9	3412.5	3415.8
10°	3306.1	3280.3	3325.5	3344.8	3348.0	3383.5	3422.2	3457.7	3473.9	3460.9	3470.6
12.5°	3293.2	3277.1	3328.6	3357.7	3370.6	3406.1	3454.5	3496.4	3522.2	3515.8	3535.1
15°	3280.3	3267.4	3328.6	3370.6	3386.7	3418.9	3473.9	3535.1	3564.2	3560.9	3586.7
17.5°	3248.0	3244.9	3309.4	3354.4	3377.1	3415.8	3467.3	3541.5	3570.6	3577.0	3609.3
20°	3196.5	3196.5	3267.4	3315.8	3341.6	3377.1	3441.6	3512.5	3548.1	3554.5	3590.0
22.5°	3125.4	3131.9	3199.6	3248.0	3286.8	3312.5	3380.3	3454.5	3486.7	3496.4	3535.1
25°	3032.0	3038.4	3102.9	3151.3	3193.2	3222.2	3286.8	3354.4	3393.2	3402.8	3431.9
27.5°	2909.4	2922.3	2983.6	3032.0	3067.4	3086.8	3154.5	3225.5	3254.4	3264.1	3293.2
30°	2767.5	2770.7	2831.9	2873.9	2909.4	2925.5	2983.6	3057.8	3080.3	3090.0	3131.9
32.5°	2593.2	2590.1	2648.2	2686.8	2715.8	2735.2	2796.4	2844.9	2867.5	2883.6	2906.1
35°	2383.6	2380.4	2422.3	2467.5	2490.1	2496.5	2557.8	2609.4	2622.3	2635.2	2664.3
37.5°	2148.2	2148.2	2183.6	2206.3	2232.0	2241.7	2270.8	2328.8	2351.4	2348.1	2370.7
40°	1899.8	1887.0	1912.7	1935.3	1941.7	1944.9	1974.0	2019.1	2035.2	2035.2	2051.3
42.5°	1638.6	1619.2	1622.4	1635.3	1641.7	1619.2	1638.6	1667.5	1657.8	1670.8	1674.1
45°	1361.2	1332.1	1319.2	1290.1	1296.7	1274.0	1261.2	1267.6	1264.4	1232.2	1238.6
47.5°	1135.3	1083.8	1061.1	1019.3	1009.6	983.8	967.7	938.6	912.9	912.9	896.6
50°	945.1	893.5	848.2	799.9	783.8	761.2	725.7	687.0	667.6	648.3	632.2
52.5°	793.5	738.7	683.7	632.2	609.7	580.6	532.2	493.5	458.0	438.6	419.3
55°	670.9	609.7	551.6	496.7	467.7	438.6	390.2	345.1	303.2	277.4	261.3
57.5°	577.3	519.4	458.0	399.9	374.1	341.9	290.3	241.9	203.2	174.2	158.1
60°	509.7	451.6	396.8	335.4	309.6	277.4	222.6	177.4	138.7	112.9	93.6
62.5°	451.6	399.9	341.9	287.1	261.3	229.0	177.4	132.3	96.7	70.9	54.8
65°	409.6	358.0	309.6	254.8	232.3	200.0	151.5	109.7	77.5	54.8	38.7
67.5°	361.3	316.0	267.7	222.6	200.0	174.2	129.0	93.6	64.5	45.1	32.2
70°	303.2	267.7	225.7	183.9	167.8	145.1	106.4	77.5	51.6	35.5	25.8
72.5°	241.9	212.9	180.6	148.4	135.4	112.9	87.0	61.3	38.7	25.8	19.4
75°	183.9	161.2	135.4	112.9	100.0	87.0	64.5	45.1	29.0	19.4	12.9
77.5°	125.8	116.1	96.7	77.5	70.9	61.3	41.9	29.0	19.4	12.9	6.4
80°	87.0	77.5	64.5	51.6	45.1	38.7	25.8	19.4	9.7	6.4	3.3
82.5°	54.8	45.1	38.7	32.2	29.0	22.5	16.1	9.7	6.4	3.3	3.3
85°	29.0	25.8	22.5	16.1	16.1	12.9	9.7	6.4	3.3	0.0	0.0
87.5°	16.1	12.9	9.7	6.4	6.4	3.3	3.3	3.3	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°	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8
2.5°	3393.2	3393.2	3390.0	3428.6	3383.5	3428.6	3406.1	3428.6	3396.4	3393.2	3396.4
5°	3418.9	3428.6	3431.9	3467.3	3425.5	3480.3	3460.9	3480.3	3457.7	3464.2	3473.9
7.5°	3470.6	3486.7	3483.6	3528.7	3486.7	3548.1	3535.1	3564.2	3541.5	3548.1	3560.9
10°	3528.7	3548.1	3551.2	3596.4	3557.6	3631.8	3615.7	3647.9	3628.7	3638.4	3654.5
12.5°	3596.4	3619.0	3622.2	3673.8	3631.8	3709.3	3699.6	3731.8	3715.7	3725.4	3744.8
15°	3647.9	3680.2	3686.7	3738.3	3693.2	3773.8	3767.4	3809.3	3783.5	3799.6	3815.7
17.5°	3673.8	3702.9	3715.7	3764.1	3725.4	3806.0	3799.6	3835.1	3815.7	3831.9	3851.3
20°	3657.6	3693.2	3702.9	3751.2	3712.6	3793.2	3783.5	3819.0	3799.6	3812.5	3831.9
22.5°	3599.6	3635.1	3647.9	3693.2	3657.6	3731.8	3728.7	3760.9	3735.1	3751.2	3767.4
25°	3496.4	3535.1	3541.5	3583.5	3544.8	3622.2	3615.7	3651.2	3631.8	3641.5	3664.1
27.5°	3348.0	3393.2	3402.8	3438.3	3409.4	3473.9	3473.9	3502.8	3480.3	3480.3	3502.8
30°	3170.7	3215.8	3222.2	3251.3	3225.5	3283.5	3286.8	3315.8	3280.3	3299.7	3302.9
32.5°	2954.5	2983.6	3002.9	3028.7	2990.0	3064.2	3054.5	3077.1	3057.8	3057.8	3073.9
35°	2693.3	2728.8	2738.5	2770.7	2738.5	2796.4	2796.4	2809.4	2790.0	2790.0	2815.8
37.5°	2409.5	2435.3	2438.4	2470.7	2444.9	2493.2	2490.1	2499.8	2480.4	2493.2	2493.2
40°	2077.2	2096.6	2103.0	2119.1	2116.0	2151.4	2148.2	2154.6	2144.9	2148.2	2154.6
42.5°	1690.2	1715.9	1728.9	1741.7	1722.4	1770.8	1761.1	1770.8	1767.5	1770.8	1780.5
45°	1245.0	1264.4	1274.0	1277.3	1270.9	1299.8	1322.4	1303.1	1306.3	1299.8	1312.8
47.5°	899.9	903.2	896.6	916.0	899.9	912.9	919.3	922.4	903.2	899.9	912.9
50°	616.1	632.2	609.7	619.2	616.1	628.9	622.5	625.8	606.4	616.1	609.7
52.5°	409.6	406.4	399.9	403.2	396.8	396.8	396.8	403.2	390.2	383.8	377.4
55°	248.4	241.9	229.0	225.7	225.7	229.0	222.6	216.2	216.2	212.9	212.9
57.5°	145.1	135.4	129.0	125.8	119.3	116.1	112.9	112.9	106.4	106.4	106.4
60°	80.6	70.9	64.5	58.1	58.1	54.8	51.6	48.4	48.4	48.4	45.1
62.5°	41.9	35.5	29.0	25.8	25.8	22.5	19.4	19.4	19.4	19.4	16.1
65°	29.0	22.5	19.4	16.1	16.1	12.9	12.9	12.9	12.9	12.9	12.9
67.5°	22.5	19.4	16.1	12.9	12.9	12.9	9.7	9.7	9.7	9.7	9.7
70°	19.4	12.9	12.9	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
72.5°	12.9	12.9	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
75°	9.7	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	0.0	0.0	0.0	0.0	0.0
80°	3.3	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: P685095

CATALOG NUMBER: LX6C55D010 EX6559030 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8	3373.8
2.5°	3425.5	3422.2	3425.5	3431.9	3418.9	3457.7	3438.3	3457.7
5°	3499.7	3502.8	3506.1	3515.8	3499.7	3548.1	3522.2	3551.2
7.5°	3596.4	3599.6	3602.8	3612.5	3602.8	3651.2	3622.2	3647.9
10°	3696.4	3702.9	3702.9	3719.0	3709.3	3754.4	3735.1	3767.4
12.5°	3789.9	3796.3	3802.9	3812.5	3806.0	3854.4	3838.3	3864.1
15°	3864.1	3877.0	3880.2	3893.1	3886.7	3938.3	3918.9	3944.7
17.5°	3899.6	3912.5	3912.5	3928.6	3922.2	3977.0	3951.1	3980.2
20°	3880.2	3889.9	3893.1	3909.3	3902.8	3957.7	3931.9	3967.3
22.5°	3819.0	3822.2	3825.4	3841.6	3838.3	3886.7	3864.1	3886.7
25°	3706.0	3715.7	3712.6	3725.4	3725.4	3764.1	3738.3	3757.7
27.5°	3544.8	3554.5	3554.5	3570.6	3557.6	3596.4	3570.6	3599.6
30°	3348.0	3357.7	3351.3	3364.1	3351.3	3390.0	3370.6	3380.3
32.5°	3112.6	3112.6	3115.7	3119.0	3112.6	3148.0	3128.7	3148.0
35°	2831.9	2838.4	2841.6	2844.9	2838.4	2864.2	2841.6	2854.5
37.5°	2515.9	2532.0	2528.7	2532.0	2522.3	2554.6	2535.2	2541.7
40°	2177.2	2177.2	2173.9	2180.5	2170.8	2196.6	2183.6	2190.0
42.5°	1783.7	1793.4	1780.5	1796.6	1770.8	1806.2	1793.4	1783.7
45°	1338.6	1325.7	1322.4	1325.7	1316.0	1319.2	1328.9	1322.4
47.5°	912.9	912.9	906.3	896.6	909.6	912.9	899.9	899.9
50°	612.8	612.8	606.4	603.1	609.7	606.4	600.0	609.7
52.5°	390.2	377.4	377.4	383.8	377.4	371.0	380.7	374.1
55°	212.9	206.5	206.5	212.9	206.5	206.5	203.2	209.6
57.5°	103.2	106.4	103.2	103.2	103.2	103.2	100.0	103.2
60°	45.1	45.1	45.1	45.1	45.1	45.1	45.1	45.1
62.5°	19.4	19.4	16.1	16.1	16.1	16.1	16.1	16.1
65°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
67.5°	9.7	9.7	9.7	9.7	9.7	12.9	9.7	9.7
70°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
72.5°	9.7	9.7	12.9	12.9	12.9	12.9	12.9	12.9
75°	6.4	6.4	6.4	3.3	3.3	3.3	3.3	3.3
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)