

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: P685115

Luminaire Tested: **LX6C60D010 EX6609027 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685115
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: LX6C60D010 EX6609027 6LCSWLI
Description: 6 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

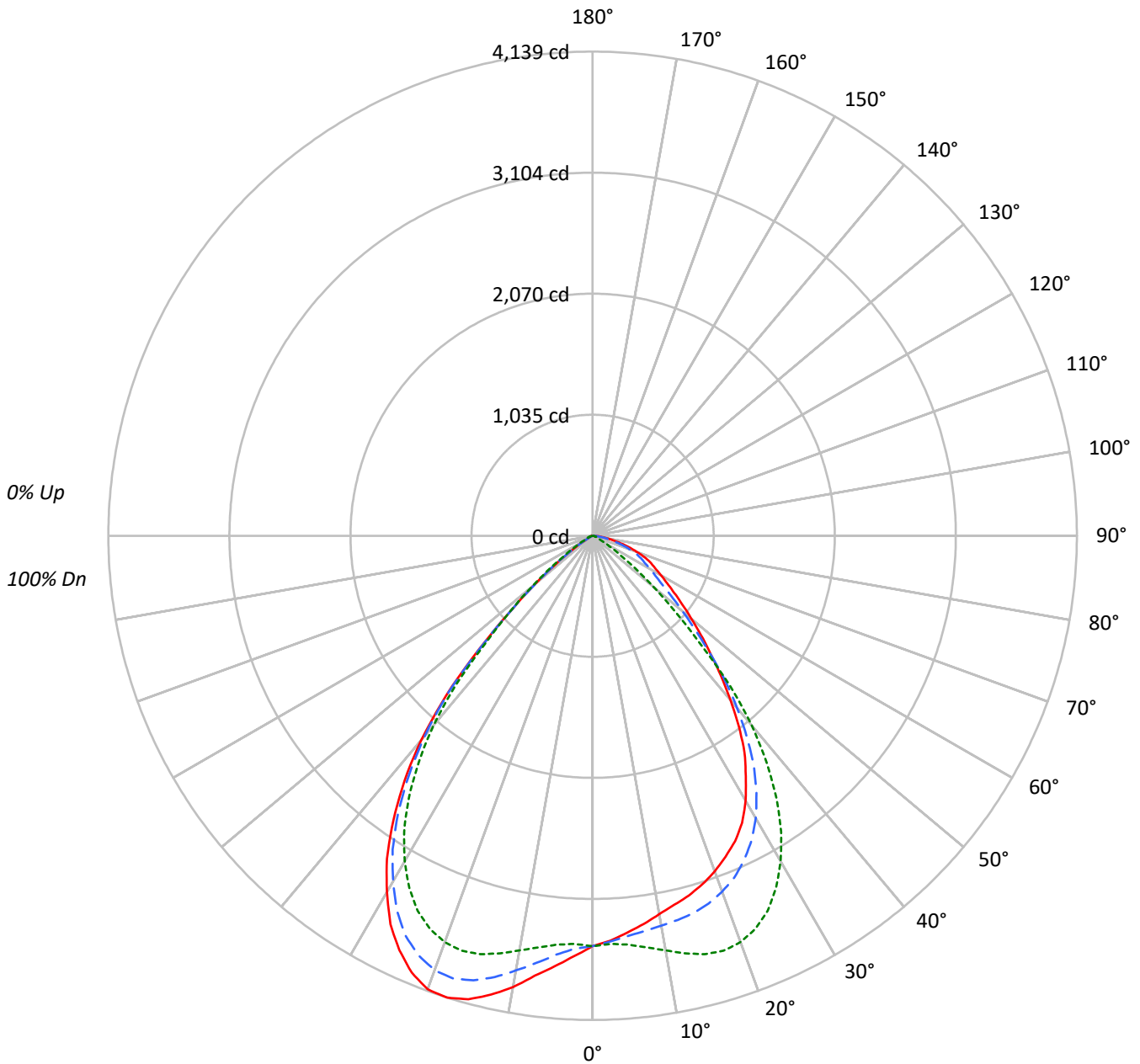
Lumens per Lamp: N/A
Luminaire Lumens: 6413.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 72
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	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°	192331	192331	192331
5°	187343	193066	203219
10°	182790	200336	218077
15°	180648	210154	232811
20°	178060	215636	240675
25°	174276	214041	236360
30°	165614	203405	222509
35°	151514	183389	198654
40°	131060	151455	162977
45°	110523	99336	106608
50°	93831	57499	54071
55°	81431	27564	20836
60°	73547	12872	5142
65°	71344	7394	1738
70°	63969	5914	1619
75°	52571	4279	720
80°	39146	2115	0
85°	33777	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.9	5.3
10°-20°	1032.8	16.1
20°-30°	1578.0	24.6
30°-40°	1650.4	25.7
40°-50°	1070.7	16.7
50°-60°	425.1	6.6
60°-70°	201.7	3.1
70°-80°	95.9	1.5
80°-90°	19.6	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°	2949.7	46.0
0°-40°	4600.1	71.7
0°-60°	6095.9	95.1
0°-90°	6413.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6413.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3508	3508	3508	3508	3508	
5°	3404	3435	3508	3596	3693	321
15°	3183	3337	3703	3934	4102	897
25°	2881	3062	3539	3777	3908	1319
35°	2264	2402	2740	2901	2968	1400
45°	1426	1412	1281	1358	1375	1109
55°	852	724	288	225	218	772
65°	550	456	57	13	13	537
75°	248	201	20	7	3	268
85°	54	34	0	0	0	62
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°	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4
2.5°	3464.8	3471.5	3434.7	3424.6	3451.4	3461.4	3464.8	3454.7	3458.1	3471.5	3471.5
5°	3404.4	3411.1	3377.6	3367.5	3394.3	3401.1	3411.1	3407.8	3417.9	3438.0	3434.7
7.5°	3347.4	3357.5	3320.6	3307.2	3340.8	3357.5	3364.2	3364.2	3377.6	3404.4	3407.8
10°	3283.7	3297.1	3263.6	3256.8	3293.7	3310.5	3313.9	3320.6	3340.8	3377.6	3384.3
12.5°	3230.1	3243.4	3220.0	3209.9	3250.1	3266.9	3273.6	3287.1	3310.5	3357.5	3364.2
15°	3183.0	3193.1	3166.3	3159.6	3199.8	3220.0	3223.3	3243.4	3273.6	3327.3	3337.4
17.5°	3122.7	3129.3	3109.3	3102.6	3142.8	3162.9	3166.3	3189.7	3226.7	3280.4	3297.1
20°	3052.2	3059.0	3038.8	3032.1	3072.4	3095.8	3099.2	3119.4	3162.9	3220.0	3236.8
22.5°	2968.4	2981.8	2958.4	2951.6	2991.9	3012.0	3022.1	3038.8	3082.4	3139.4	3162.9
25°	2881.2	2881.2	2864.5	2861.1	2898.0	2921.5	2918.1	2941.5	2985.1	3042.2	3062.3
27.5°	2767.2	2763.8	2747.0	2743.7	2783.9	2804.1	2797.3	2820.9	2861.1	2918.1	2938.2
30°	2616.3	2622.9	2599.5	2592.7	2626.3	2659.9	2656.5	2679.9	2720.1	2773.8	2787.3
32.5°	2435.1	2441.8	2438.5	2428.4	2458.5	2475.3	2485.4	2502.2	2535.7	2592.7	2606.2
35°	2264.0	2253.9	2240.6	2240.6	2270.7	2297.6	2287.5	2307.6	2341.2	2398.2	2401.6
37.5°	2052.7	2049.3	2042.7	2036.0	2069.5	2076.2	2079.6	2093.0	2123.2	2170.1	2163.4
40°	1831.4	1834.6	1831.4	1817.9	1838.0	1864.9	1861.5	1868.3	1895.0	1928.6	1918.6
42.5°	1623.4	1623.4	1623.4	1610.0	1633.4	1646.9	1653.6	1650.2	1656.9	1687.1	1673.7
45°	1425.6	1428.8	1425.6	1422.2	1425.6	1432.2	1425.6	1422.2	1422.2	1432.2	1412.1
47.5°	1254.5	1254.5	1244.4	1234.3	1244.4	1247.7	1237.7	1227.6	1224.2	1221.0	1187.4
50°	1100.2	1096.8	1093.5	1076.7	1086.7	1090.1	1076.7	1069.9	1056.6	1039.8	999.6
52.5°	966.0	962.6	959.2	942.5	949.3	952.6	939.2	925.7	908.9	895.6	845.3
55°	852.0	848.6	848.6	838.6	831.8	838.6	825.1	815.0	791.6	774.8	724.5
57.5°	754.6	754.6	748.0	737.9	741.3	741.3	727.9	714.4	694.2	674.2	634.0
60°	670.8	670.8	670.8	660.7	660.7	660.7	654.0	640.7	623.9	603.7	563.5
62.5°	603.7	603.7	600.3	590.4	593.6	593.6	587.0	573.6	556.8	543.3	503.1
65°	550.0	550.0	550.0	540.1	540.1	543.3	536.7	523.3	509.8	493.0	456.1
67.5°	483.0	479.7	479.7	472.9	476.3	479.7	472.9	462.9	446.1	436.1	402.5
70°	399.1	402.5	405.8	395.8	399.1	399.1	395.8	385.8	375.7	365.6	335.5
72.5°	325.4	325.4	322.0	318.7	318.7	322.0	315.3	305.2	298.5	291.8	268.3
75°	248.2	244.8	248.2	241.5	241.5	241.5	234.7	231.5	228.1	218.0	201.2
77.5°	181.2	177.8	177.8	171.1	174.5	174.5	171.1	164.4	157.6	154.3	140.8
80°	124.0	124.0	124.0	120.8	120.8	117.4	117.4	114.1	107.3	104.0	97.3
82.5°	83.8	83.8	83.8	80.6	80.6	80.6	77.2	73.7	70.5	67.1	60.4
85°	53.7	53.7	53.7	50.3	50.3	50.3	46.9	46.9	43.6	40.2	33.5
87.5°	30.1	30.1	30.1	26.9	26.9	26.9	26.9	26.9	23.4	20.2	16.8
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°	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4
2.5°	3494.9	3448.0	3478.2	3478.2	3468.2	3494.9	3511.8	3525.2	3521.8	3491.7	3488.3
5°	3468.2	3427.9	3461.4	3464.8	3454.7	3491.7	3515.1	3531.9	3535.3	3508.4	3511.8
7.5°	3448.0	3414.5	3458.1	3471.5	3468.2	3501.7	3528.6	3555.3	3568.8	3548.6	3552.0
10°	3438.0	3411.1	3458.1	3478.2	3481.6	3518.5	3558.7	3595.7	3612.4	3598.9	3609.0
12.5°	3424.6	3407.8	3461.4	3491.7	3505.0	3542.0	3592.3	3635.9	3662.7	3656.1	3676.1
15°	3411.1	3397.7	3461.4	3505.0	3521.8	3555.3	3612.4	3676.1	3706.4	3702.9	3729.8
17.5°	3377.6	3374.3	3441.4	3488.3	3511.8	3552.0	3605.6	3682.8	3713.0	3719.7	3753.2
20°	3324.0	3324.0	3397.7	3448.0	3474.9	3511.8	3578.9	3652.6	3689.6	3696.3	3733.2
22.5°	3250.1	3256.8	3327.3	3377.6	3417.9	3444.6	3515.1	3592.3	3625.8	3635.9	3676.1
25°	3152.9	3159.6	3226.7	3277.0	3320.6	3350.7	3417.9	3488.3	3528.6	3538.6	3568.8
27.5°	3025.5	3038.8	3102.6	3152.9	3189.7	3209.9	3280.4	3354.1	3384.3	3394.3	3424.6
30°	2877.8	2881.2	2944.9	2988.5	3025.5	3042.2	3102.6	3179.8	3203.2	3213.3	3256.8
32.5°	2696.7	2693.4	2753.8	2794.0	2824.1	2844.3	2908.0	2958.4	2981.8	2998.6	3022.1
35°	2478.7	2475.3	2518.9	2566.0	2589.4	2596.1	2659.9	2713.5	2726.9	2740.3	2770.6
37.5°	2233.9	2233.9	2270.7	2294.3	2321.0	2331.1	2361.3	2421.7	2445.2	2441.8	2465.2
40°	1975.6	1962.2	1988.9	2012.5	2019.2	2022.5	2052.7	2099.6	2116.4	2116.4	2133.2
42.5°	1703.9	1683.7	1687.1	1700.5	1707.2	1683.7	1703.9	1734.0	1724.0	1737.4	1740.9
45°	1415.5	1385.2	1371.9	1341.6	1348.4	1324.8	1311.5	1318.2	1314.9	1281.3	1288.0
47.5°	1180.6	1127.0	1103.5	1060.0	1049.9	1023.0	1006.3	976.0	949.3	949.3	932.4
50°	982.8	929.1	882.1	831.8	815.0	791.6	754.6	714.4	694.2	674.2	657.4
52.5°	825.1	768.1	711.0	657.4	634.0	603.7	553.4	513.2	476.3	456.1	436.1
55°	697.7	634.0	573.6	516.5	486.4	456.1	405.8	358.9	315.3	288.4	271.7
57.5°	600.3	540.1	476.3	415.9	389.0	355.5	301.9	251.5	211.3	181.2	164.4
60°	530.0	469.6	412.6	348.8	322.0	288.4	231.5	184.4	144.2	117.4	97.3
62.5°	469.6	415.9	355.5	298.5	271.7	238.1	184.4	137.5	100.6	73.7	57.0
65°	426.0	372.3	322.0	265.0	241.5	208.0	157.6	114.1	80.6	57.0	40.2
67.5°	375.7	328.7	278.4	231.5	208.0	181.2	134.1	97.3	67.1	46.9	33.5
70°	315.3	278.4	234.7	191.2	174.5	150.9	110.7	80.6	53.7	36.9	26.9
72.5°	251.5	221.4	187.8	154.3	140.8	117.4	90.5	63.8	40.2	26.9	20.2
75°	191.2	167.7	140.8	117.4	104.0	90.5	67.1	46.9	30.1	20.2	13.4
77.5°	130.9	120.8	100.6	80.6	73.7	63.8	43.6	30.1	20.2	13.4	6.7
80°	90.5	80.6	67.1	53.7	46.9	40.2	26.9	20.2	10.1	6.7	3.4
82.5°	57.0	46.9	40.2	33.5	30.1	23.4	16.8	10.1	6.7	3.4	3.4
85°	30.1	26.9	23.4	16.8	16.8	13.4	10.1	6.7	3.4	0.0	0.0
87.5°	16.8	13.4	10.1	6.7	6.7	3.4	3.4	3.4	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°	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4
2.5°	3528.6	3528.6	3525.2	3565.4	3518.5	3565.4	3542.0	3565.4	3531.9	3528.6	3531.9
5°	3555.3	3565.4	3568.8	3605.6	3562.1	3619.1	3598.9	3619.1	3595.7	3602.3	3612.4
7.5°	3609.0	3625.8	3622.5	3669.4	3625.8	3689.6	3676.1	3706.4	3682.8	3689.6	3702.9
10°	3669.4	3689.6	3692.9	3739.9	3699.5	3776.7	3759.9	3793.5	3773.4	3783.5	3800.3
12.5°	3739.9	3763.3	3766.7	3820.3	3776.7	3857.3	3847.2	3880.7	3863.9	3874.0	3894.2
15°	3793.5	3827.0	3833.8	3887.4	3840.5	3924.3	3917.6	3961.3	3934.4	3951.2	3967.9
17.5°	3820.3	3850.6	3863.9	3914.2	3874.0	3957.9	3951.2	3988.1	3967.9	3984.7	4004.9
20°	3803.5	3840.5	3850.6	3900.9	3860.7	3944.5	3934.4	3971.3	3951.2	3964.5	3984.7
22.5°	3743.2	3780.1	3793.5	3840.5	3803.5	3880.7	3877.4	3911.0	3884.1	3900.9	3917.6
25°	3635.9	3676.1	3682.8	3726.4	3686.2	3766.7	3759.9	3796.9	3776.7	3786.8	3810.2
27.5°	3481.6	3528.6	3538.6	3575.5	3545.4	3612.4	3612.4	3642.6	3619.1	3619.1	3642.6
30°	3297.1	3344.0	3350.7	3381.0	3354.1	3414.5	3417.9	3448.0	3411.1	3431.3	3434.7
32.5°	3072.4	3102.6	3122.7	3149.5	3109.3	3186.5	3176.4	3199.8	3179.8	3179.8	3196.5
35°	2800.7	2837.6	2847.7	2881.2	2847.7	2908.0	2908.0	2921.5	2901.3	2901.3	2928.1
37.5°	2505.6	2532.4	2535.7	2569.2	2542.4	2592.7	2589.4	2599.5	2579.3	2592.7	2592.7
40°	2160.0	2180.2	2186.9	2203.6	2200.4	2237.2	2233.9	2240.6	2230.5	2233.9	2240.6
42.5°	1757.6	1784.3	1797.8	1811.2	1791.2	1841.5	1831.4	1841.5	1838.0	1841.5	1851.5
45°	1294.7	1314.9	1324.8	1328.2	1321.6	1351.7	1375.1	1355.1	1358.4	1351.7	1365.2
47.5°	935.8	939.2	932.4	952.6	935.8	949.3	956.0	959.2	939.2	935.8	949.3
50°	640.7	657.4	634.0	643.9	640.7	654.0	647.4	650.8	630.6	640.7	634.0
52.5°	426.0	422.6	415.9	419.3	412.6	412.6	412.6	419.3	405.8	399.1	392.4
55°	258.3	251.5	238.1	234.7	234.7	238.1	231.5	224.8	224.8	221.4	221.4
57.5°	150.9	140.8	134.1	130.9	124.0	120.8	117.4	117.4	110.7	110.7	110.7
60°	83.8	73.7	67.1	60.4	60.4	57.0	53.7	50.3	50.3	50.3	46.9
62.5°	43.6	36.9	30.1	26.9	26.9	23.4	20.2	20.2	20.2	20.2	16.8
65°	30.1	23.4	20.2	16.8	16.8	13.4	13.4	13.4	13.4	13.4	13.4
67.5°	23.4	20.2	16.8	13.4	13.4	13.4	10.1	10.1	10.1	10.1	10.1
70°	20.2	13.4	13.4	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
72.5°	13.4	13.4	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
75°	10.1	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	0.0	0.0	0.0	0.0	0.0
80°	3.4	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: P685115

CATALOG NUMBER: LX6C60D010 EX6609027 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4	3508.4
2.5°	3562.1	3558.7	3562.1	3568.8	3555.3	3595.7	3575.5	3595.7
5°	3639.3	3642.6	3646.0	3656.1	3639.3	3689.6	3662.7	3692.9
7.5°	3739.9	3743.2	3746.6	3756.7	3746.6	3796.9	3766.7	3793.5
10°	3843.9	3850.6	3850.6	3867.3	3857.3	3904.1	3884.1	3917.6
12.5°	3941.1	3947.8	3954.6	3964.5	3957.9	4008.2	3991.4	4018.2
15°	4018.2	4031.6	4035.0	4048.4	4041.7	4095.4	4075.2	4102.1
17.5°	4055.2	4068.5	4068.5	4085.3	4078.6	4135.6	4108.8	4139.0
20°	4035.0	4045.1	4048.4	4065.3	4058.5	4115.6	4088.7	4125.5
22.5°	3971.3	3974.6	3978.0	3994.8	3991.4	4041.7	4018.2	4041.7
25°	3853.8	3863.9	3860.7	3874.0	3874.0	3914.2	3887.4	3907.6
27.5°	3686.2	3696.3	3696.3	3713.0	3699.5	3739.9	3713.0	3743.2
30°	3481.6	3491.7	3485.0	3498.3	3485.0	3525.2	3505.0	3515.1
32.5°	3236.8	3236.8	3240.0	3243.4	3236.8	3273.6	3253.5	3273.6
35°	2944.9	2951.6	2955.0	2958.4	2951.6	2978.4	2955.0	2968.4
37.5°	2616.3	2633.0	2629.6	2633.0	2622.9	2656.5	2636.3	2643.1
40°	2264.0	2264.0	2260.6	2267.4	2257.3	2284.2	2270.7	2277.4
42.5°	1854.8	1864.9	1851.5	1868.3	1841.5	1878.3	1864.9	1854.8
45°	1392.0	1378.5	1375.1	1378.5	1368.5	1371.9	1381.9	1375.1
47.5°	949.3	949.3	942.5	932.4	945.9	949.3	935.8	935.8
50°	637.3	637.3	630.6	627.2	634.0	630.6	623.9	634.0
52.5°	405.8	392.4	392.4	399.1	392.4	385.8	395.8	389.0
55°	221.4	214.7	214.7	221.4	214.7	214.7	211.3	218.0
57.5°	107.3	110.7	107.3	107.3	107.3	107.3	104.0	107.3
60°	46.9	46.9	46.9	46.9	46.9	46.9	46.9	46.9
62.5°	20.2	20.2	16.8	16.8	16.8	16.8	16.8	16.8
65°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4
67.5°	10.1	10.1	10.1	10.1	10.1	13.4	10.1	10.1
70°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1
72.5°	10.1	10.1	13.4	13.4	13.4	13.4	13.4	13.4
75°	6.7	6.7	6.7	3.4	3.4	3.4	3.4	3.4
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)