

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: P685090

Luminaire Tested: **LX6C55D010 EX6559027 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P685090
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 EX6559027 6LCSWLI
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

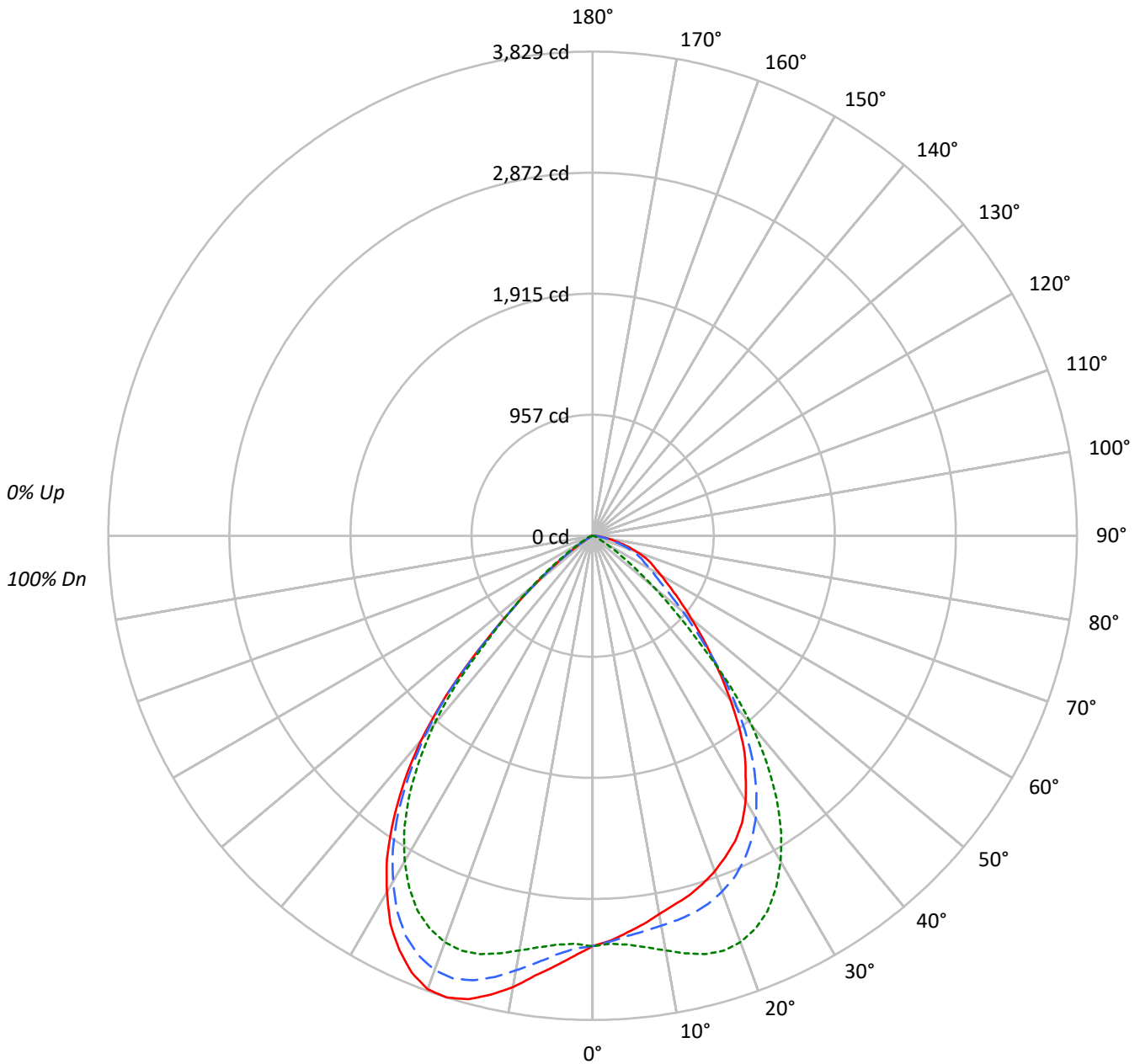
Lumens per Lamp: N/A
Luminaire Lumens: 5932.0 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
RC	80									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°	177908	177908	177908
5°	173294	178587	187976
10°	169079	185312	201722
15°	167101	194394	215347
20°	164707	199459	222625
25°	161205	197987	218632
30°	153188	188149	205823
35°	140150	169637	183751
40°	121227	140098	150754
45°	102228	91886	98615
50°	86795	53184	50011
55°	75323	25500	19268
60°	68032	11907	4758
65°	65999	6836	1608
70°	59177	5482	1491
75°	48631	3961	657
80°	36210	1957	0
85°	31261	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.5	5.3
10°-20°	955.3	16.1
20°-30°	1459.6	24.6
30°-40°	1526.7	25.7
40°-50°	990.4	16.7
50°-60°	393.2	6.6
60°-70°	186.5	3.1
70°-80°	88.7	1.5
80°-90°	18.1	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°	2728.4	46.0
0°-40°	4255.1	71.7
0°-60°	5638.7	95.1
0°-90°	5932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5932.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3245	3245	3245	3245	3245	
5°	3149	3177	3245	3326	3416	297
15°	2944	3087	3425	3639	3794	830
25°	2665	2833	3273	3493	3614	1220
35°	2094	2221	2535	2684	2746	1295
45°	1319	1306	1185	1256	1272	1026
55°	788	670	267	208	202	714
65°	509	422	53	12	12	497
75°	230	186	19	6	3	248
85°	50	31	0	0	0	58
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°	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3
2.5°	3204.9	3211.1	3177.1	3167.7	3192.6	3201.8	3204.9	3195.6	3198.8	3211.1	3211.1
5°	3149.1	3155.3	3124.2	3114.9	3139.7	3146.0	3155.3	3152.2	3161.6	3180.1	3177.1
7.5°	3096.4	3105.7	3071.5	3059.2	3090.2	3105.7	3111.9	3111.9	3124.2	3149.1	3152.2
10°	3037.4	3049.8	3018.8	3012.5	3046.7	3062.2	3065.4	3071.5	3090.2	3124.2	3130.4
12.5°	2987.8	3000.2	2978.5	2969.1	3006.3	3021.9	3028.0	3040.5	3062.2	3105.7	3111.9
15°	2944.3	2953.6	2928.8	2922.6	2959.8	2978.5	2981.5	3000.2	3028.0	3077.7	3087.0
17.5°	2888.5	2894.6	2876.1	2869.9	2907.1	2925.7	2928.8	2950.5	2984.7	3034.3	3049.8
20°	2823.3	2829.6	2810.9	2804.7	2841.9	2863.6	2866.8	2885.4	2925.7	2978.5	2994.0
22.5°	2745.7	2758.2	2736.5	2730.2	2767.5	2786.1	2795.4	2810.9	2851.3	2904.0	2925.7
25°	2665.1	2665.1	2649.6	2646.5	2680.7	2702.3	2699.2	2720.9	2761.2	2814.1	2832.6
27.5°	2559.6	2556.5	2541.0	2537.9	2575.1	2593.8	2587.5	2609.3	2646.5	2699.2	2717.9
30°	2420.0	2426.2	2404.5	2398.2	2429.4	2460.4	2457.2	2478.9	2516.1	2565.8	2578.3
32.5°	2252.5	2258.6	2255.6	2246.3	2274.1	2289.7	2299.0	2314.5	2345.5	2398.2	2410.7
35°	2094.2	2084.9	2072.5	2072.5	2100.4	2125.2	2115.9	2134.6	2165.6	2218.3	2221.4
37.5°	1898.8	1895.6	1889.4	1883.3	1914.3	1920.5	1923.6	1936.0	1964.0	2007.3	2001.2
40°	1694.0	1697.0	1694.0	1681.5	1700.2	1725.0	1721.9	1728.2	1752.9	1783.9	1774.7
42.5°	1501.6	1501.6	1501.6	1489.2	1510.9	1523.4	1529.6	1526.4	1532.6	1560.6	1548.1
45°	1318.6	1321.7	1318.6	1315.5	1318.6	1324.8	1318.6	1315.5	1315.5	1324.8	1306.2
47.5°	1160.4	1160.4	1151.1	1141.7	1151.1	1154.1	1144.9	1135.6	1132.4	1129.4	1098.4
50°	1017.7	1014.5	1011.5	996.0	1005.2	1008.3	996.0	989.7	977.3	961.8	924.6
52.5°	893.6	890.4	887.3	871.8	878.1	881.1	868.8	856.3	840.8	828.4	781.9
55°	788.1	784.9	784.9	775.7	769.4	775.7	763.2	753.9	732.2	716.7	670.2
57.5°	698.0	698.0	691.9	682.5	685.7	685.7	673.3	660.8	642.2	623.6	586.4
60°	620.5	620.5	620.5	611.2	611.2	611.2	605.0	592.6	577.1	558.4	521.3
62.5°	558.4	558.4	555.3	546.1	549.1	549.1	542.9	530.6	515.1	502.6	465.4
65°	508.8	508.8	508.8	499.6	499.6	502.6	496.4	484.1	471.6	456.1	421.9
67.5°	446.7	443.7	443.7	437.4	440.6	443.7	437.4	428.2	412.7	403.4	372.3
70°	369.2	372.3	375.4	366.2	369.2	369.2	366.2	356.8	347.5	338.2	310.3
72.5°	301.0	301.0	297.8	294.8	294.8	297.8	291.6	282.3	276.1	270.0	248.1
75°	229.6	226.5	229.6	223.4	223.4	223.4	217.1	214.1	210.9	201.6	186.1
77.5°	167.6	164.4	164.4	158.2	161.4	161.4	158.2	152.1	145.8	142.7	130.3
80°	114.7	114.7	114.7	111.7	111.7	108.6	108.6	105.5	99.2	96.2	90.0
82.5°	77.5	77.5	77.5	74.5	74.5	74.5	71.4	68.2	65.2	62.0	55.9
85°	49.7	49.7	49.7	46.5	46.5	46.5	43.4	43.4	40.3	37.2	31.0
87.5°	27.9	27.9	27.9	24.8	24.8	24.8	24.8	24.8	21.7	18.7	15.5
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°	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3
2.5°	3232.8	3189.4	3217.3	3217.3	3208.1	3232.8	3248.4	3260.8	3257.6	3229.8	3226.6
5°	3208.1	3170.8	3201.8	3204.9	3195.6	3229.8	3251.5	3267.0	3270.1	3245.3	3248.4
7.5°	3189.4	3158.4	3198.8	3211.1	3208.1	3239.1	3263.9	3288.7	3301.1	3282.5	3285.6
10°	3180.1	3155.3	3198.8	3217.3	3220.4	3254.6	3291.8	3326.0	3341.5	3329.0	3338.3
12.5°	3167.7	3152.2	3201.8	3229.8	3242.1	3276.3	3322.8	3363.2	3388.0	3381.8	3400.4
15°	3155.3	3142.9	3201.8	3242.1	3257.6	3288.7	3341.5	3400.4	3428.4	3425.2	3450.1
17.5°	3124.2	3121.2	3183.2	3226.6	3248.4	3285.6	3335.2	3406.6	3434.5	3440.7	3471.7
20°	3074.7	3074.7	3142.9	3189.4	3214.3	3248.4	3310.5	3378.7	3412.9	3419.0	3453.2
22.5°	3006.3	3012.5	3077.7	3124.2	3161.6	3186.3	3251.5	3322.8	3353.8	3363.2	3400.4
25°	2916.4	2922.6	2984.7	3031.2	3071.5	3099.4	3161.6	3226.6	3263.9	3273.2	3301.1
27.5°	2798.5	2810.9	2869.9	2916.4	2950.5	2969.1	3034.3	3102.5	3130.4	3139.7	3167.7
30°	2662.0	2665.1	2724.0	2764.4	2798.5	2814.1	2869.9	2941.3	2963.0	2972.3	3012.5
32.5°	2494.4	2491.4	2547.2	2584.4	2612.3	2631.0	2689.9	2736.5	2758.2	2773.7	2795.4
35°	2292.8	2289.7	2330.0	2373.5	2395.2	2401.4	2460.4	2509.9	2522.4	2534.8	2562.8
37.5°	2066.3	2066.3	2100.4	2122.2	2146.9	2156.3	2184.2	2240.1	2261.8	2258.6	2280.3
40°	1827.4	1815.0	1839.8	1861.6	1867.8	1870.8	1898.8	1942.2	1957.7	1957.7	1973.2
42.5°	1576.1	1557.5	1560.6	1573.0	1579.1	1557.5	1576.1	1604.0	1594.7	1607.1	1610.3
45°	1309.3	1281.3	1269.0	1241.0	1247.3	1225.5	1213.1	1219.3	1216.3	1185.2	1191.4
47.5°	1092.1	1042.5	1020.7	980.5	971.1	946.3	930.8	902.8	878.1	878.1	862.5
50°	909.1	859.4	815.9	769.4	753.9	732.2	698.0	660.8	642.2	623.6	608.1
52.5°	763.2	710.5	657.7	608.1	586.4	558.4	511.9	474.7	440.6	421.9	403.4
55°	645.3	586.4	530.6	477.8	449.9	421.9	375.4	332.0	291.6	266.8	251.3
57.5°	555.3	499.6	440.6	384.7	359.9	328.8	279.3	232.6	195.4	167.6	152.1
60°	490.2	434.4	381.7	322.7	297.8	266.8	214.1	170.6	133.4	108.6	90.0
62.5°	434.4	384.7	328.8	276.1	251.3	220.3	170.6	127.2	93.1	68.2	52.7
65°	394.0	344.4	297.8	245.1	223.4	192.4	145.8	105.5	74.5	52.7	37.2
67.5°	347.5	304.0	257.5	214.1	192.4	167.6	124.1	90.0	62.0	43.4	31.0
70°	291.6	257.5	217.1	176.9	161.4	139.6	102.4	74.5	49.7	34.2	24.8
72.5°	232.6	204.8	173.8	142.7	130.3	108.6	83.7	59.0	37.2	24.8	18.7
75°	176.9	155.1	130.3	108.6	96.2	83.7	62.0	43.4	27.9	18.7	12.4
77.5°	121.0	111.7	93.1	74.5	68.2	59.0	40.3	27.9	18.7	12.4	6.2
80°	83.7	74.5	62.0	49.7	43.4	37.2	24.8	18.7	9.3	6.2	3.1
82.5°	52.7	43.4	37.2	31.0	27.9	21.7	15.5	9.3	6.2	3.1	3.1
85°	27.9	24.8	21.7	15.5	15.5	12.4	9.3	6.2	3.1	0.0	0.0
87.5°	15.5	12.4	9.3	6.2	6.2	3.1	3.1	3.1	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°	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3
2.5°	3263.9	3263.9	3260.8	3298.0	3254.6	3298.0	3276.3	3298.0	3267.0	3263.9	3267.0
5°	3288.7	3298.0	3301.1	3335.2	3295.0	3347.7	3329.0	3347.7	3326.0	3332.2	3341.5
7.5°	3338.3	3353.8	3350.8	3394.2	3353.8	3412.9	3400.4	3428.4	3406.6	3412.9	3425.2
10°	3394.2	3412.9	3415.9	3459.4	3422.1	3493.4	3477.9	3508.9	3490.4	3499.7	3515.2
12.5°	3459.4	3481.1	3484.2	3533.8	3493.4	3567.9	3558.6	3589.6	3574.1	3583.5	3602.1
15°	3508.9	3540.0	3546.3	3595.8	3552.4	3630.0	3623.8	3664.1	3639.3	3654.8	3670.3
17.5°	3533.8	3561.8	3574.1	3620.7	3583.5	3661.0	3654.8	3689.0	3670.3	3685.8	3704.5
20°	3518.3	3552.4	3561.8	3608.3	3571.1	3648.6	3639.3	3673.5	3654.8	3667.2	3685.8
22.5°	3462.4	3496.6	3508.9	3552.4	3518.3	3589.6	3586.6	3617.6	3592.8	3608.3	3623.8
25°	3363.2	3400.4	3406.6	3446.9	3409.7	3484.2	3477.9	3512.1	3493.4	3502.8	3524.4
27.5°	3220.4	3263.9	3273.2	3307.3	3279.4	3341.5	3341.5	3369.4	3347.7	3347.7	3369.4
30°	3049.8	3093.2	3099.4	3127.4	3102.5	3158.4	3161.6	3189.4	3155.3	3173.9	3177.1
32.5°	2841.9	2869.9	2888.5	2913.3	2876.1	2947.5	2938.1	2959.8	2941.3	2941.3	2956.8
35°	2590.6	2624.8	2634.1	2665.1	2634.1	2689.9	2689.9	2702.3	2683.7	2683.7	2708.5
37.5°	2317.6	2342.5	2345.5	2376.5	2351.7	2398.2	2395.2	2404.5	2385.9	2398.2	2398.2
40°	1998.0	2016.7	2022.8	2038.4	2035.3	2069.4	2066.3	2072.5	2063.2	2066.3	2072.5
42.5°	1625.8	1650.5	1663.0	1675.3	1656.8	1703.3	1694.0	1703.3	1700.2	1703.3	1712.7
45°	1197.6	1216.3	1225.5	1228.6	1222.4	1250.3	1272.0	1253.5	1256.5	1250.3	1262.8
47.5°	865.6	868.8	862.5	881.1	865.6	878.1	884.3	887.3	868.8	865.6	878.1
50°	592.6	608.1	586.4	595.6	592.6	605.0	598.8	601.9	583.3	592.6	586.4
52.5°	394.0	390.9	384.7	387.8	381.7	381.7	381.7	387.8	375.4	369.2	363.0
55°	238.9	232.6	220.3	217.1	217.1	220.3	214.1	207.9	207.9	204.8	204.8
57.5°	139.6	130.3	124.1	121.0	114.7	111.7	108.6	108.6	102.4	102.4	102.4
60°	77.5	68.2	62.0	55.9	55.9	52.7	49.7	46.5	46.5	46.5	43.4
62.5°	40.3	34.2	27.9	24.8	24.8	21.7	18.7	18.7	18.7	18.7	15.5
65°	27.9	21.7	18.7	15.5	15.5	12.4	12.4	12.4	12.4	12.4	12.4
67.5°	21.7	18.7	15.5	12.4	12.4	12.4	9.3	9.3	9.3	9.3	9.3
70°	18.7	12.4	12.4	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
72.5°	12.4	12.4	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
75°	9.3	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
77.5°	3.1	3.1	3.1	3.1	3.1	3.1	0.0	0.0	0.0	0.0	0.0
80°	3.1	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: P685090

CATALOG NUMBER: LX6C55D010 EX6559027 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3	3245.3
2.5°	3295.0	3291.8	3295.0	3301.1	3288.7	3326.0	3307.3	3326.0
5°	3366.3	3369.4	3372.5	3381.8	3366.3	3412.9	3388.0	3415.9
7.5°	3459.4	3462.4	3465.6	3474.9	3465.6	3512.1	3484.2	3508.9
10°	3555.6	3561.8	3561.8	3577.3	3567.9	3611.3	3592.8	3623.8
12.5°	3645.5	3651.7	3658.0	3667.2	3661.0	3707.5	3692.0	3716.9
15°	3716.9	3729.2	3732.4	3744.7	3738.5	3788.2	3769.6	3794.4
17.5°	3751.0	3763.4	3763.4	3778.9	3772.7	3825.4	3800.6	3828.6
20°	3732.4	3741.7	3744.7	3760.4	3754.1	3806.9	3782.0	3816.1
22.5°	3673.5	3676.5	3679.7	3695.2	3692.0	3738.5	3716.9	3738.5
25°	3564.8	3574.1	3571.1	3583.5	3583.5	3620.7	3595.8	3614.5
27.5°	3409.7	3419.0	3419.0	3434.5	3422.1	3459.4	3434.5	3462.4
30°	3220.4	3229.8	3223.6	3236.0	3223.6	3260.8	3242.1	3251.5
32.5°	2994.0	2994.0	2997.0	3000.2	2994.0	3028.0	3009.5	3028.0
35°	2724.0	2730.2	2733.4	2736.5	2730.2	2755.0	2733.4	2745.7
37.5°	2420.0	2435.5	2432.4	2435.5	2426.2	2457.2	2438.6	2444.9
40°	2094.2	2094.2	2091.1	2097.4	2088.0	2112.9	2100.4	2106.6
42.5°	1715.7	1725.0	1712.7	1728.2	1703.3	1737.4	1725.0	1715.7
45°	1287.6	1275.1	1272.0	1275.1	1265.8	1269.0	1278.3	1272.0
47.5°	878.1	878.1	871.8	862.5	874.9	878.1	865.6	865.6
50°	589.5	589.5	583.3	580.1	586.4	583.3	577.1	586.4
52.5°	375.4	363.0	363.0	369.2	363.0	356.8	366.2	359.9
55°	204.8	198.6	198.6	204.8	198.6	198.6	195.4	201.6
57.5°	99.2	102.4	99.2	99.2	99.2	99.2	96.2	99.2
60°	43.4	43.4	43.4	43.4	43.4	43.4	43.4	43.4
62.5°	18.7	18.7	15.5	15.5	15.5	15.5	15.5	15.5
65°	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
67.5°	9.3	9.3	9.3	9.3	9.3	12.4	9.3	9.3
70°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3
72.5°	9.3	9.3	12.4	12.4	12.4	12.4	12.4	12.4
75°	6.2	6.2	6.2	3.1	3.1	3.1	3.1	3.1
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)