

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: P684438

Luminaire Tested: **LX6C55D010 EX6C559050 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684438
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: LX6C55D010 EX6C559050 6LCSWH
Description: 6 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

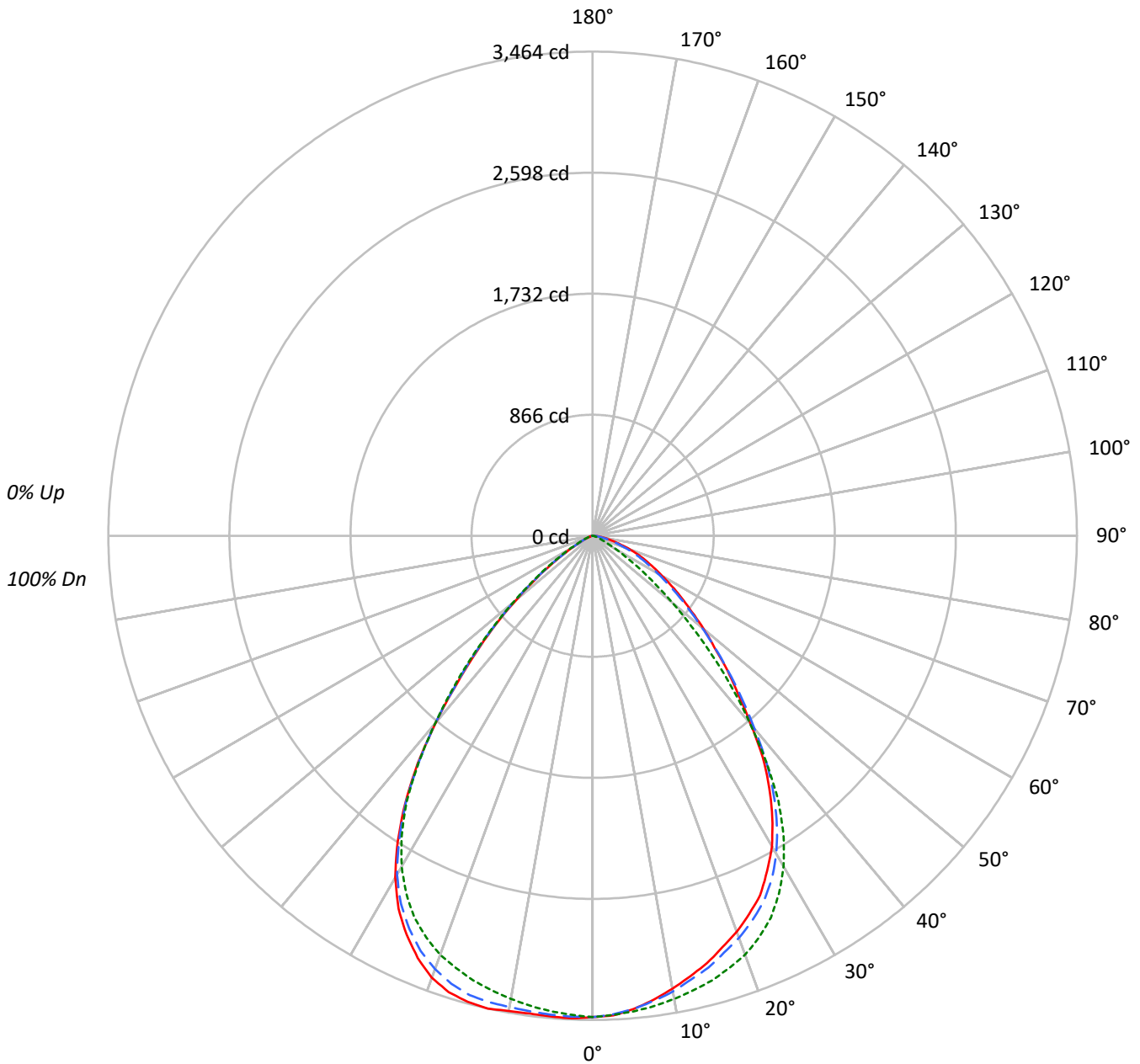
Lumens per Lamp: N/A
Luminaire Lumens: 5777.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	188773	188773	188773
5°	186974	187887	189951
10°	183118	187282	192147
15°	179615	186931	195904
20°	175890	186082	196274
25°	171560	182369	190420
30°	162430	172957	178743
35°	147505	155021	156413
40°	125893	125292	124698
45°	105747	93816	90924
50°	88321	63486	60297
55°	74329	38947	35382
60°	62923	20525	17784
65°	54494	10792	8626
70°	45312	6668	4664
75°	33487	4406	2648
80°	26266	2620	1326
85°	20945	2642	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.5	5.6
10°-20°	929.2	16.1
20°-30°	1372.1	23.8
30°-40°	1414.1	24.5
40°-50°	976.7	16.9
50°-60°	481.4	8.3
60°-70°	195.1	3.4
70°-80°	69.5	1.2
80°-90°	14.4	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°	2625.8	45.5
0°-40°	4039.9	69.9
0°-60°	5498.0	95.2
0°-90°	5777.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5777.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3444	3444	3444	3444	3444	
5°	3398	3398	3414	3439	3452	321
15°	3165	3198	3294	3402	3452	891
25°	2836	2890	3015	3102	3148	1297
35°	2204	2258	2316	2329	2337	1366
45°	1364	1372	1210	1194	1173	1054
55°	778	749	408	383	370	703
65°	420	378	83	66	66	417
75°	158	133	21	12	12	177
85°	33	25	4	0	0	41
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°	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5
2.5°	3435.1	3422.7	3431.0	3414.3	3435.1	3414.3	3418.5	3422.7	3418.5	3422.7	3426.8
5°	3397.7	3385.2	3397.7	3376.9	3397.7	3385.2	3385.2	3389.4	3389.4	3393.5	3397.7
7.5°	3347.8	3335.3	3347.8	3327.0	3351.9	3339.5	3339.5	3347.8	3343.6	3347.8	3356.1
10°	3289.6	3272.9	3285.4	3272.9	3297.9	3281.2	3289.6	3289.6	3289.6	3302.0	3310.4
12.5°	3227.2	3210.5	3227.2	3206.4	3231.3	3218.9	3223.0	3235.5	3239.6	3248.0	3252.1
15°	3164.8	3144.0	3152.3	3139.8	3164.8	3152.3	3156.5	3173.1	3173.1	3185.6	3198.1
17.5°	3085.9	3069.1	3085.9	3069.1	3089.9	3081.6	3089.9	3102.4	3102.4	3114.9	3127.3
20°	3015.0	2998.4	3010.9	2998.4	3023.5	3010.9	3015.0	3031.7	3035.8	3048.3	3060.8
22.5°	2927.7	2915.2	2923.5	2911.2	2936.0	2927.7	2932.0	2948.5	2952.8	2961.1	2981.9
25°	2836.3	2811.2	2823.7	2815.5	2840.5	2828.0	2836.3	2852.8	2861.3	2873.6	2890.4
27.5°	2703.2	2690.7	2698.9	2698.9	2719.7	2707.4	2711.5	2728.2	2740.5	2753.1	2773.9
30°	2566.0	2545.2	2553.5	2557.6	2574.3	2566.0	2574.3	2590.9	2595.1	2611.7	2628.3
32.5°	2391.3	2382.9	2399.6	2391.3	2399.6	2399.6	2403.7	2416.2	2424.5	2432.9	2453.7
35°	2204.1	2187.6	2204.1	2195.8	2216.6	2204.1	2216.6	2229.2	2229.2	2245.7	2258.2
37.5°	2000.4	1979.6	1987.8	1987.8	1996.1	1992.1	1992.1	2012.9	2016.9	2029.4	2042.0
40°	1759.2	1750.8	1767.5	1763.3	1767.5	1767.5	1771.6	1784.1	1792.4	1796.6	1800.8
42.5°	1542.9	1547.0	1551.2	1551.2	1551.2	1551.2	1551.2	1567.8	1563.7	1576.2	1580.3
45°	1364.0	1347.4	1355.7	1351.7	1364.0	1351.7	1364.0	1376.5	1368.2	1380.8	1372.3
47.5°	1181.0	1181.0	1181.0	1177.0	1185.3	1181.0	1189.3	1193.6	1193.6	1193.6	1189.3
50°	1035.6	1023.1	1027.2	1027.2	1031.4	1027.2	1035.6	1039.7	1039.7	1031.4	1014.8
52.5°	894.1	890.0	890.0	898.3	898.3	894.1	894.1	894.1	894.1	881.7	873.3
55°	777.7	769.4	773.5	773.5	773.5	773.5	777.7	773.5	773.5	761.0	748.6
57.5°	673.7	665.4	665.4	665.4	669.5	665.4	665.4	665.4	661.2	648.7	632.1
60°	573.9	569.7	573.9	573.9	578.0	573.9	573.9	573.9	565.7	553.1	536.4
62.5°	490.7	490.7	490.7	494.8	494.8	490.7	490.7	486.5	482.5	465.7	449.1
65°	420.1	415.8	420.1	420.1	424.1	424.1	420.1	415.8	411.8	395.0	378.5
67.5°	349.4	345.1	349.4	349.4	353.4	349.4	349.4	349.4	336.9	328.6	311.8
70°	282.7	278.7	278.7	278.7	282.7	274.5	278.7	278.7	270.4	257.9	241.2
72.5°	216.3	216.3	216.3	216.3	216.3	216.3	212.1	212.1	203.8	191.3	183.0
75°	158.1	158.1	162.2	162.2	158.1	158.1	158.1	153.9	149.7	141.4	133.1
77.5°	116.5	116.5	116.5	116.5	112.3	112.3	112.3	108.1	104.0	99.8	91.5
80°	83.2	83.2	83.2	79.0	83.2	79.0	79.0	79.0	70.7	66.5	62.4
82.5°	58.2	54.1	54.1	54.1	54.1	54.1	54.1	49.9	49.9	45.8	41.6
85°	33.3	33.3	33.3	33.3	33.3	33.3	33.3	33.3	29.1	25.0	25.0
87.5°	16.6	20.8	20.8	20.8	20.8	20.8	20.8	16.6	16.6	16.6	12.5
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°	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5
2.5°	3426.8	3426.8	3435.1	3422.7	3443.5	3431.0	3426.8	3447.6	3435.1	3431.0	3439.3
5°	3397.7	3401.9	3406.0	3397.7	3418.5	3406.0	3406.0	3426.8	3418.5	3414.3	3426.8
7.5°	3360.3	3364.4	3372.7	3368.6	3385.2	3376.9	3381.1	3401.9	3393.5	3393.5	3406.0
10°	3314.5	3322.8	3331.2	3331.2	3351.9	3343.6	3343.6	3368.6	3360.3	3364.4	3381.1
12.5°	3260.4	3272.9	3285.4	3289.6	3310.4	3297.9	3302.0	3331.2	3327.0	3331.2	3347.8
15°	3202.2	3218.9	3231.3	3231.3	3256.3	3243.8	3256.3	3285.4	3277.1	3293.7	3314.5
17.5°	3135.7	3152.3	3168.9	3173.1	3198.1	3189.7	3206.4	3235.5	3235.5	3243.8	3268.8
20°	3073.3	3094.1	3102.4	3114.9	3139.8	3135.7	3144.0	3177.3	3177.3	3189.7	3214.7
22.5°	2990.1	3010.9	3027.5	3040.0	3060.8	3060.8	3073.3	3102.4	3102.4	3110.7	3135.7
25°	2898.7	2923.5	2936.0	2948.5	2969.3	2965.1	2977.6	3002.7	3006.7	3015.0	3040.0
27.5°	2782.1	2802.9	2819.7	2828.0	2857.1	2840.5	2852.8	2882.1	2877.9	2886.1	2906.9
30°	2636.7	2657.5	2674.1	2674.1	2698.9	2698.9	2711.5	2724.0	2724.0	2732.3	2749.0
32.5°	2466.1	2491.1	2491.1	2503.6	2520.2	2503.6	2520.2	2536.8	2528.5	2541.0	2553.5
35°	2270.6	2283.1	2287.3	2287.3	2299.8	2295.6	2291.4	2303.9	2295.6	2316.4	2328.9
37.5°	2033.7	2050.2	2042.0	2050.2	2046.0	2033.7	2033.7	2054.5	2037.7	2042.0	2054.5
40°	1804.9	1804.9	1800.8	1780.0	1784.1	1771.6	1767.5	1771.6	1755.0	1750.8	1767.5
42.5°	1567.8	1563.7	1551.2	1522.1	1526.2	1505.4	1488.8	1488.8	1480.5	1476.3	1480.5
45°	1355.7	1343.2	1322.4	1289.3	1280.8	1264.2	1230.9	1222.6	1210.1	1210.1	1214.4
47.5°	1160.2	1143.7	1110.4	1073.0	1052.2	1031.4	998.1	985.6	964.8	956.5	964.8
50°	998.1	969.0	927.4	873.3	852.5	827.6	794.3	773.5	752.7	744.4	740.2
52.5°	848.4	806.8	765.2	698.7	682.0	657.1	611.3	590.5	569.7	553.1	553.1
55°	719.4	682.0	623.8	561.4	536.4	511.5	465.7	436.6	415.8	407.5	399.3
57.5°	603.0	561.4	507.3	440.9	415.8	391.0	345.1	316.1	295.3	282.7	274.5
60°	507.3	461.7	407.5	349.4	320.3	295.3	249.6	220.4	199.6	187.2	178.8
62.5°	415.8	378.5	324.3	270.4	245.4	220.4	183.0	153.9	133.1	124.8	112.3
65°	349.4	311.8	262.0	216.3	195.5	170.5	137.3	112.3	95.7	83.2	74.9
67.5°	282.7	253.7	212.1	170.5	149.7	133.1	104.0	83.2	66.5	58.2	54.1
70°	224.6	195.5	162.2	128.9	116.5	99.8	79.0	58.2	49.9	41.6	37.4
72.5°	166.4	145.6	120.6	95.7	83.2	74.9	54.1	45.8	33.3	29.1	25.0
75°	120.6	104.0	87.3	66.5	58.2	54.1	41.6	29.1	25.0	20.8	16.6
77.5°	83.2	74.9	58.2	45.8	41.6	37.4	29.1	20.8	16.6	12.5	12.5
80°	54.1	45.8	37.4	29.1	29.1	25.0	16.6	12.5	12.5	8.3	8.3
82.5°	33.3	29.1	25.0	20.8	16.6	16.6	12.5	8.3	8.3	4.2	4.2
85°	20.8	16.6	12.5	12.5	8.3	8.3	8.3	4.2	4.2	4.2	4.2
87.5°	8.3	8.3	8.3	4.2	4.2	4.2	4.2	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°	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5
2.5°	3439.3	3439.3	3447.6	3435.1	3443.5	3443.5	3451.8	3435.1	3443.5	3447.6	3455.9
5°	3422.7	3426.8	3435.1	3431.0	3435.1	3435.1	3443.5	3422.7	3439.3	3439.3	3451.8
7.5°	3406.0	3406.0	3414.3	3410.2	3418.5	3422.7	3431.0	3414.3	3431.0	3431.0	3443.5
10°	3385.2	3385.2	3397.7	3393.5	3406.0	3410.2	3422.7	3406.0	3422.7	3426.8	3439.3
12.5°	3356.1	3360.3	3372.7	3372.7	3385.2	3393.5	3406.0	3397.7	3418.5	3422.7	3439.3
15°	3322.8	3331.2	3347.8	3343.6	3356.1	3368.6	3385.2	3372.7	3401.9	3410.2	3426.8
17.5°	3281.2	3289.6	3302.0	3302.0	3314.5	3322.8	3343.6	3335.3	3360.3	3364.4	3385.2
20°	3218.9	3231.3	3248.0	3243.8	3256.3	3264.6	3281.2	3272.9	3297.9	3306.2	3327.0
22.5°	3144.0	3152.3	3164.8	3164.8	3177.3	3185.6	3202.2	3189.7	3214.7	3218.9	3235.5
25°	3044.3	3052.5	3060.8	3065.1	3077.4	3081.6	3089.9	3081.6	3102.4	3106.7	3127.3
27.5°	2915.2	2919.5	2932.0	2932.0	2940.3	2944.3	2956.8	2940.3	2969.3	2969.3	2981.9
30°	2761.3	2757.3	2773.9	2765.6	2773.9	2773.9	2786.4	2778.1	2798.9	2790.6	2802.9
32.5°	2557.6	2566.0	2566.0	2557.6	2574.3	2570.1	2570.1	2561.8	2574.3	2578.4	2586.7
35°	2320.6	2333.0	2333.0	2337.2	2341.4	2328.9	2333.0	2308.1	2328.9	2333.0	2337.2
37.5°	2062.8	2050.2	2058.5	2046.0	2066.8	2042.0	2042.0	2025.4	2042.0	2042.0	2046.0
40°	1767.5	1763.3	1771.6	1763.3	1759.2	1755.0	1746.7	1734.2	1750.8	1742.5	1755.0
42.5°	1488.8	1484.6	1484.6	1476.3	1472.2	1472.2	1463.9	1455.5	1451.4	1451.4	1472.2
45°	1201.8	1210.1	1201.8	1197.8	1206.1	1197.8	1201.8	1185.3	1193.6	1185.3	1193.6
47.5°	960.7	964.8	956.5	948.2	960.7	948.2	948.2	935.7	952.4	952.4	944.0
50°	744.4	740.2	731.9	740.2	736.1	736.1	736.1	723.6	731.9	719.4	727.8
52.5°	548.9	544.9	544.9	540.6	544.9	540.6	540.6	536.4	536.4	532.3	536.4
55°	399.3	395.0	386.7	386.7	386.7	391.0	386.7	382.7	382.7	378.5	382.7
57.5°	270.4	262.0	262.0	262.0	262.0	257.9	257.9	253.7	257.9	253.7	257.9
60°	174.7	174.7	166.4	166.4	166.4	166.4	166.4	162.2	166.4	166.4	166.4
62.5°	108.1	108.1	104.0	99.8	104.0	99.8	99.8	99.8	104.0	99.8	104.0
65°	70.7	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
67.5°	49.9	45.8	45.8	45.8	45.8	45.8	45.8	41.6	45.8	45.8	45.8
70°	33.3	33.3	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
72.5°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
75°	16.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
77.5°	12.5	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
80°	8.3	8.3	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	4.2	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	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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: P684438

CATALOG NUMBER: LX6C55D010 EX6C559050 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5	3443.5
2.5°	3443.5	3447.6	3439.3	3443.5	3435.1	3443.5	3447.6	3455.9
5°	3435.1	3439.3	3431.0	3439.3	3431.0	3439.3	3443.5	3451.8
7.5°	3426.8	3435.1	3426.8	3435.1	3426.8	3435.1	3439.3	3447.6
10°	3426.8	3439.3	3431.0	3443.5	3431.0	3439.3	3447.6	3451.8
12.5°	3426.8	3439.3	3435.1	3443.5	3439.3	3447.6	3455.9	3464.2
15°	3418.5	3431.0	3422.7	3435.1	3431.0	3435.1	3451.8	3451.8
17.5°	3372.7	3385.2	3385.2	3393.5	3393.5	3406.0	3414.3	3422.7
20°	3314.5	3327.0	3322.8	3335.3	3335.3	3347.8	3356.1	3364.4
22.5°	3227.2	3243.8	3239.6	3252.1	3248.0	3256.3	3272.9	3268.8
25°	3114.9	3135.7	3131.5	3139.8	3135.7	3135.7	3144.0	3148.1
27.5°	2977.6	2990.1	2985.9	2994.4	2985.9	2994.4	3002.7	3006.7
30°	2798.9	2807.2	2802.9	2807.2	2802.9	2811.2	2815.5	2823.7
32.5°	2582.6	2595.1	2582.6	2590.9	2586.7	2586.7	2603.4	2595.1
35°	2324.7	2328.9	2333.0	2333.0	2324.7	2328.9	2337.2	2337.2
37.5°	2037.7	2058.5	2033.7	2046.0	2042.0	2042.0	2042.0	2054.5
40°	1738.4	1742.5	1734.2	1734.2	1734.2	1730.0	1746.7	1742.5
42.5°	1455.5	1459.7	1455.5	1443.1	1447.2	1447.2	1459.7	1443.1
45°	1181.0	1189.3	1185.3	1185.3	1177.0	1177.0	1181.0	1172.8
47.5°	935.7	944.0	931.6	935.7	927.4	935.7	931.6	939.9
50°	711.1	719.4	715.3	719.4	719.4	711.1	723.6	707.0
52.5°	532.3	536.4	532.3	528.1	524.1	524.1	532.3	528.1
55°	378.5	374.2	374.2	374.2	378.5	378.5	374.2	370.2
57.5°	253.7	253.7	249.6	249.6	253.7	245.4	249.6	245.4
60°	162.2	162.2	162.2	162.2	158.1	162.2	162.2	162.2
62.5°	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
65°	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
67.5°	41.6	45.8	45.8	45.8	41.6	41.6	41.6	41.6
70°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
72.5°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
75°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
77.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
80°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	4.2	4.2	4.2	4.2	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)