

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: P859596

Luminaire Tested: **LX4C75D010 EX4C759050 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859596
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C75D010 EX4C759050 4LBLWW*
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

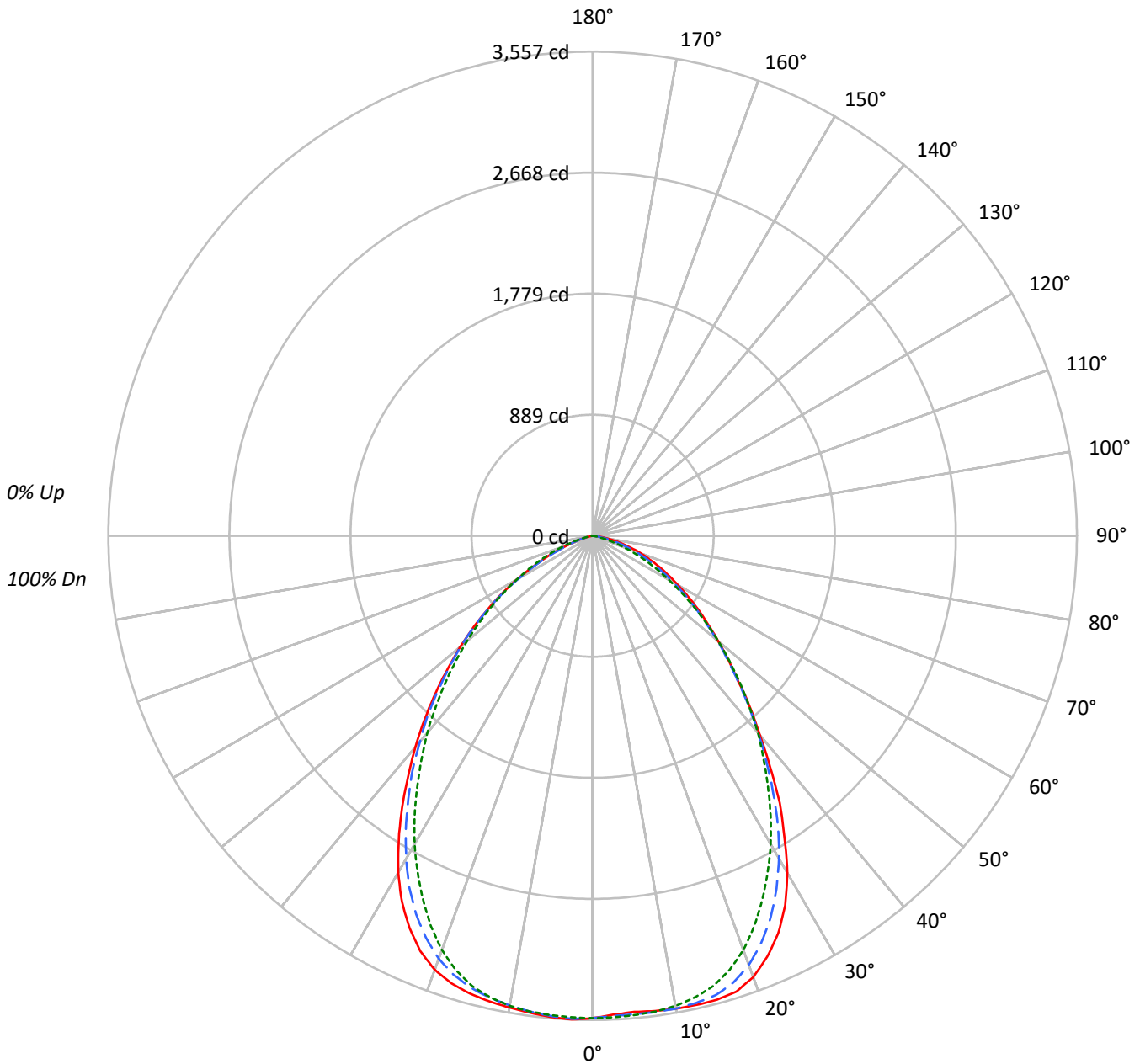
Lumens per Lamp: N/A
Luminaire Lumens: 6794.0 lumens
Efficiency: N/A
Efficacy: 83.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 81.5
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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54																			
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39																			
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36																			
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	435356	435356	435356
5°	432925	435872	437512
10°	440088	437431	439090
15°	448691	435489	442764
20°	450954	423290	443463
25°	437080	399735	431115
30°	405674	370947	404922
35°	359238	336487	366032
40°	306250	303042	324597
45°	263113	266119	282764
50°	229676	230173	242386
55°	202944	194397	200952
60°	177867	158579	157916
65°	157441	123023	109476
70°	134305	84591	65015
75°	108652	45473	29667
80°	74357	11320	7499
85°	22553	3806	3806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.8	5.0
10°-20°	975.0	14.4
20°-30°	1408.8	20.7
30°-40°	1456.4	21.4
40°-50°	1203.4	17.7
50°-60°	830.5	12.2
60°-70°	434.8	6.4
70°-80°	136.9	2.0
80°-90°	11.6	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°	2720.5	40.0
0°-40°	4176.9	61.5
0°-60°	6210.7	91.4
0°-90°	6794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6794.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3544	3544	3544	3544	3544	
5°	3510	3528	3534	3541	3548	336
15°	3528	3494	3424	3440	3481	995
25°	3224	3094	2949	3067	3180	1472
35°	2395	2316	2244	2361	2441	1487
45°	1514	1508	1532	1602	1628	1180
55°	948	918	908	933	938	851
65°	542	491	423	351	377	537
75°	229	180	96	65	62	245
85°	16	8	3	3	3	33
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°	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7
2.5°	3521.1	3522.4	3522.4	3525.1	3525.1	3525.1	3526.4	3526.4	3527.8	3529.1	3530.4
5°	3510.5	3510.5	3513.1	3514.5	3517.1	3518.5	3521.1	3522.4	3525.1	3526.4	3527.8
7.5°	3521.1	3521.1	3522.4	3523.8	3523.8	3525.1	3525.1	3526.4	3527.8	3529.1	3529.1
10°	3527.8	3527.8	3527.8	3527.8	3529.1	3529.1	3529.1	3527.8	3527.8	3527.8	3526.4
12.5°	3530.4	3530.4	3529.1	3527.8	3529.1	3527.8	3527.8	3523.8	3521.1	3518.5	3514.5
15°	3527.8	3527.8	3526.4	3525.1	3523.8	3521.1	3519.8	3513.1	3507.8	3499.8	3494.5
17.5°	3510.5	3507.8	3505.1	3502.5	3497.2	3493.2	3490.5	3478.5	3469.2	3455.9	3441.3
20°	3449.3	3446.6	3442.6	3436.0	3429.3	3424.0	3416.0	3398.7	3389.4	3369.4	3354.8
22.5°	3349.5	3346.8	3348.1	3336.1	3322.8	3314.9	3309.5	3294.9	3278.9	3253.6	3237.7
25°	3224.4	3216.4	3216.4	3197.7	3191.1	3185.8	3179.1	3161.8	3137.9	3115.2	3094.0
27.5°	3062.0	3051.4	3046.0	3043.4	3027.4	3015.4	3006.1	2992.8	2972.9	2952.9	2923.6
30°	2859.7	2858.4	2851.8	2839.8	2827.8	2822.5	2811.8	2789.2	2770.6	2755.9	2737.3
32.5°	2621.5	2620.2	2620.2	2620.2	2612.2	2610.9	2594.9	2583.0	2568.3	2545.7	2533.7
35°	2395.3	2394.0	2395.3	2375.4	2370.0	2366.0	2364.7	2356.7	2336.8	2326.1	2315.5
37.5°	2139.8	2143.8	2141.1	2135.8	2142.5	2130.5	2139.8	2122.5	2114.5	2111.9	2099.9
40°	1909.6	1920.2	1909.6	1910.9	1917.6	1905.6	1905.6	1902.9	1897.6	1895.0	1892.3
42.5°	1712.7	1699.3	1707.3	1700.7	1707.3	1703.3	1696.7	1700.7	1702.0	1696.7	1695.4
45°	1514.4	1517.0	1519.7	1515.7	1515.7	1511.7	1522.4	1515.7	1515.7	1517.0	1507.7
47.5°	1353.4	1349.4	1352.0	1349.4	1350.7	1348.0	1350.7	1352.0	1349.4	1349.4	1341.4
50°	1201.7	1199.0	1208.3	1200.3	1200.3	1199.0	1200.3	1197.7	1193.7	1193.7	1196.3
52.5°	1069.9	1064.6	1063.3	1069.9	1060.6	1060.6	1061.9	1059.3	1053.9	1051.3	1044.6
55°	947.5	946.2	947.5	942.2	939.5	939.5	932.8	930.2	928.9	922.2	918.2
57.5°	833.0	829.0	830.4	829.0	823.7	822.4	817.1	817.1	811.7	806.4	799.8
60°	723.9	723.9	727.9	722.6	718.6	715.9	713.3	710.6	701.3	692.0	684.0
62.5°	626.8	628.1	626.8	622.8	620.1	617.5	614.8	606.8	598.8	593.5	584.2
65°	541.6	540.3	536.3	533.6	527.0	527.0	521.6	517.7	508.3	500.4	491.0
67.5°	453.8	451.1	451.1	451.1	443.1	441.8	439.1	431.2	423.2	412.5	404.5
70°	373.9	376.6	372.6	368.6	364.6	363.3	359.3	351.3	342.0	331.4	324.7
72.5°	298.1	300.7	296.8	295.4	287.4	284.8	283.4	276.8	266.1	259.5	248.8
75°	228.9	230.2	227.6	224.9	219.6	218.2	211.6	206.3	199.6	189.0	179.6
77.5°	165.0	162.3	162.3	157.0	151.7	151.7	150.4	142.4	133.1	125.1	117.1
80°	105.1	103.8	99.8	97.1	93.2	91.8	90.5	83.8	77.2	71.9	66.5
82.5°	53.2	51.9	50.6	49.2	46.6	43.9	45.2	39.9	37.3	31.9	27.9
85°	16.0	17.3	17.3	16.0	14.6	14.6	14.6	13.3	10.6	9.3	8.0
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7
2.5°	3531.8	3533.1	3534.4	3535.8	3535.8	3537.1	3538.4	3539.7	3541.1	3541.1	3542.4
5°	3529.1	3531.8	3531.8	3533.1	3533.1	3533.1	3534.4	3534.4	3534.4	3534.4	3535.8
7.5°	3530.4	3530.4	3530.4	3529.1	3529.1	3527.8	3527.8	3527.8	3525.1	3525.1	3525.1
10°	3523.8	3522.4	3521.1	3518.5	3517.1	3515.8	3513.1	3510.5	3507.8	3506.5	3503.8
12.5°	3510.5	3505.1	3499.8	3494.5	3491.8	3490.5	3485.2	3481.2	3477.2	3473.2	3470.5
15°	3483.9	3475.9	3466.6	3455.9	3453.2	3450.6	3441.3	3433.3	3428.0	3424.0	3417.3
17.5°	3430.6	3414.7	3404.0	3388.0	3381.4	3378.7	3364.1	3356.1	3346.8	3344.1	3338.8
20°	3336.1	3321.5	3301.5	3286.9	3278.9	3270.9	3259.0	3248.3	3237.7	3237.7	3231.0
22.5°	3217.7	3199.1	3173.8	3155.2	3153.8	3137.9	3127.2	3115.2	3111.3	3103.3	3103.3
25°	3068.7	3052.7	3024.8	3008.8	3000.8	2996.8	2979.5	2963.5	2955.6	2948.9	2954.2
27.5°	2903.7	2879.7	2858.4	2838.5	2831.8	2823.8	2807.8	2801.2	2786.6	2785.2	2783.9
30°	2714.7	2690.7	2669.4	2660.1	2646.8	2640.2	2628.2	2620.2	2614.9	2614.9	2612.2
32.5°	2516.4	2495.1	2484.5	2464.5	2457.9	2448.5	2440.6	2432.6	2435.2	2432.6	2433.9
35°	2302.2	2296.8	2276.9	2264.9	2264.9	2263.6	2250.3	2244.9	2242.3	2243.6	2250.3
37.5°	2098.6	2082.6	2069.3	2061.3	2068.0	2060.0	2058.6	2058.6	2066.6	2061.3	2071.9
40°	1881.7	1880.3	1875.0	1877.7	1879.0	1869.7	1872.3	1873.7	1879.0	1889.6	1891.0
42.5°	1692.7	1691.4	1691.4	1691.4	1688.7	1683.4	1688.7	1698.0	1696.7	1704.7	1711.3
45°	1510.4	1507.7	1513.0	1509.1	1517.0	1519.7	1515.7	1518.4	1526.3	1531.7	1542.3
47.5°	1344.0	1344.0	1345.4	1348.0	1340.0	1346.7	1349.4	1354.7	1358.7	1361.3	1366.7
50°	1189.7	1189.7	1187.0	1187.0	1187.0	1191.0	1185.7	1192.3	1193.7	1204.3	1211.0
52.5°	1047.3	1040.6	1044.6	1042.0	1036.6	1034.0	1036.6	1038.0	1046.0	1048.6	1056.6
55°	911.6	911.6	900.9	898.2	902.2	900.9	899.6	899.6	903.6	907.6	914.2
57.5°	791.8	783.8	775.8	774.5	770.5	771.8	771.8	770.5	767.8	769.2	770.5
60°	678.7	673.4	661.4	661.4	660.0	658.7	652.1	650.7	644.1	645.4	640.1
62.5°	574.9	572.2	556.2	550.9	550.9	546.9	540.3	538.9	529.6	529.6	524.3
65°	481.7	473.7	464.4	455.1	455.1	449.8	445.8	433.8	427.2	423.2	415.2
67.5°	396.6	384.6	375.3	367.3	362.0	360.6	351.3	343.3	332.7	326.0	314.1
70°	314.1	304.7	295.4	287.4	282.1	276.8	267.5	255.5	247.5	235.5	227.6
72.5°	236.9	228.9	220.9	210.3	203.6	199.6	190.3	179.6	166.3	158.4	147.7
75°	170.3	161.0	150.4	141.1	137.1	133.1	122.4	114.4	105.1	95.8	85.2
77.5°	110.5	99.8	91.8	81.2	79.8	77.2	66.5	58.6	51.9	46.6	39.9
80°	58.6	53.2	46.6	39.9	37.3	33.3	27.9	24.0	20.0	16.0	13.3
82.5°	25.3	21.3	17.3	14.6	13.3	12.0	9.3	8.0	6.7	6.7	5.3
85°	6.7	5.3	5.3	4.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7
87.5°	0.0	0.0	0.0	0.0	1.3	1.3	1.3	0.0	1.3	1.3	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°	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7
2.5°	3543.7	3545.1	3546.4	3546.4	3547.7	3549.1	3549.1	3550.4	3551.7	3553.1	3553.1
5°	3537.1	3537.1	3537.1	3538.4	3538.4	3538.4	3538.4	3541.1	3541.1	3542.4	3543.7
7.5°	3523.8	3523.8	3523.8	3523.8	3522.4	3523.8	3522.4	3522.4	3525.1	3526.4	3527.8
10°	3502.5	3501.2	3501.2	3499.8	3499.8	3499.8	3501.2	3502.5	3503.8	3505.1	3509.1
12.5°	3469.2	3467.9	3467.9	3466.6	3466.6	3467.9	3469.2	3471.9	3477.2	3479.9	3485.2
15°	3416.0	3414.7	3416.0	3417.3	3420.0	3424.0	3428.0	3432.0	3439.9	3446.6	3453.2
17.5°	3338.8	3340.1	3341.5	3344.1	3348.1	3353.4	3364.1	3374.7	3384.1	3394.7	3405.3
20°	3232.3	3237.7	3239.0	3248.3	3251.0	3263.0	3274.9	3290.9	3305.5	3318.8	3333.5
22.5°	3104.6	3108.6	3113.9	3124.6	3131.2	3147.2	3161.8	3180.4	3196.4	3213.7	3235.0
25°	2959.5	2960.9	2976.8	2976.8	2992.8	3006.1	3023.4	3043.4	3067.3	3090.0	3104.6
27.5°	2794.5	2801.2	2813.2	2818.5	2830.5	2851.8	2866.4	2890.4	2914.3	2934.3	2950.2
30°	2621.5	2626.9	2646.8	2649.5	2658.8	2677.4	2697.4	2720.0	2738.6	2761.3	2775.9
32.5°	2439.2	2453.9	2465.8	2475.2	2477.8	2505.8	2516.4	2532.4	2553.7	2576.3	2590.9
35°	2262.2	2268.9	2286.2	2291.5	2299.5	2315.5	2336.8	2350.1	2360.7	2375.4	2392.7
37.5°	2074.6	2094.6	2098.6	2114.5	2117.2	2131.8	2142.5	2158.4	2171.8	2185.1	2187.7
40°	1900.3	1906.9	1921.6	1925.6	1928.2	1948.2	1961.5	1965.5	1972.1	1984.1	2000.1
42.5°	1723.3	1730.0	1745.9	1741.9	1753.9	1763.2	1769.9	1785.8	1792.5	1796.5	1796.5
45°	1549.0	1551.6	1562.3	1567.6	1574.3	1579.6	1591.6	1599.5	1602.2	1614.2	1618.2
47.5°	1382.6	1385.3	1393.3	1402.6	1399.9	1406.6	1419.9	1423.9	1425.2	1433.2	1437.2
50°	1219.0	1225.6	1236.3	1233.6	1241.6	1245.6	1257.5	1260.2	1260.2	1261.5	1262.9
52.5°	1065.9	1071.2	1073.9	1076.6	1080.6	1087.2	1092.5	1089.9	1095.2	1100.5	1096.5
55°	914.2	918.2	924.9	927.5	927.5	928.9	926.2	938.2	932.8	931.5	932.8
57.5°	775.8	770.5	769.2	775.8	778.5	777.1	773.2	778.5	778.5	775.8	771.8
60°	641.4	637.4	636.1	637.4	632.1	628.1	630.8	628.1	621.5	618.8	620.1
62.5°	519.0	515.0	504.3	504.3	501.7	500.4	489.7	491.0	485.7	477.7	480.4
65°	405.9	395.2	389.9	388.6	379.3	371.3	368.6	359.3	351.3	350.0	351.3
67.5°	304.7	292.8	283.4	279.5	274.1	267.5	258.2	250.2	252.8	251.5	256.8
70°	211.6	203.6	194.3	187.6	190.3	182.3	177.0	177.0	178.3	179.6	182.3
72.5°	141.1	130.4	126.4	122.4	119.8	114.4	117.1	117.1	115.8	117.1	114.4
75°	79.8	74.5	70.5	69.2	66.5	66.5	66.5	66.5	65.2	63.9	63.9
77.5°	35.9	33.3	31.9	30.6	30.6	30.6	29.3	27.9	27.9	27.9	26.6
80°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
82.5°	5.3	5.3	6.7	6.7	6.7	5.3	6.7	6.7	5.3	5.3	6.7
85°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
87.5°	1.3	1.3	1.3	0.0	1.3	1.3	1.3	1.3	0.0	1.3	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: P859596

CATALOG NUMBER: LX4C75D010 EX4C759050 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7	3543.7
2.5°	3554.4	3555.7	3555.7	3555.7	3557.0	3557.0	3557.0	3557.0
5°	3545.1	3546.4	3546.4	3546.4	3547.7	3547.7	3547.7	3547.7
7.5°	3529.1	3530.4	3530.4	3531.8	3531.8	3533.1	3533.1	3534.4
10°	3510.5	3513.1	3514.5	3515.8	3517.1	3518.5	3518.5	3519.8
12.5°	3490.5	3493.2	3494.5	3497.2	3499.8	3501.2	3502.5	3503.8
15°	3461.2	3466.6	3469.2	3470.5	3475.9	3478.5	3479.9	3481.2
17.5°	3414.7	3425.3	3429.3	3432.0	3437.3	3442.6	3446.6	3447.9
20°	3348.1	3360.1	3365.4	3372.1	3380.1	3386.7	3389.4	3392.0
22.5°	3255.0	3268.3	3276.3	3284.2	3290.9	3297.6	3308.2	3304.2
25°	3121.9	3144.5	3153.8	3157.8	3172.5	3180.4	3185.8	3180.4
27.5°	2972.9	2986.2	2994.1	3003.5	3014.1	3022.1	3024.8	3032.7
30°	2793.2	2815.8	2814.5	2823.8	2837.1	2845.1	2847.8	2854.4
32.5°	2606.9	2617.6	2625.5	2624.2	2629.5	2644.2	2638.8	2650.8
35°	2408.6	2410.0	2423.3	2421.9	2432.6	2432.6	2432.6	2440.6
37.5°	2197.0	2213.0	2206.4	2222.3	2217.0	2221.0	2221.0	2223.7
40°	2004.1	2009.4	2009.4	2014.7	2018.7	2014.7	2017.4	2024.0
42.5°	1804.5	1809.8	1811.1	1808.5	1812.5	1824.4	1815.1	1823.1
45°	1618.2	1622.2	1627.5	1623.5	1630.1	1626.2	1630.1	1627.5
47.5°	1442.5	1441.2	1439.9	1450.5	1441.2	1442.5	1447.8	1438.5
50°	1262.9	1270.8	1265.5	1269.5	1272.2	1272.2	1268.2	1268.2
52.5°	1103.2	1101.8	1097.9	1101.8	1099.2	1100.5	1103.2	1100.5
55°	938.2	943.5	940.8	939.5	940.8	940.8	948.8	938.2
57.5°	775.8	773.2	777.1	786.5	777.1	783.8	787.8	789.1
60°	621.5	621.5	629.4	625.4	633.4	640.1	645.4	642.7
62.5°	473.7	480.4	483.1	484.4	492.4	497.7	497.7	496.4
65°	351.3	360.6	360.6	366.0	368.6	368.6	371.3	376.6
67.5°	259.5	259.5	260.8	263.5	262.2	262.2	264.8	266.1
70°	181.0	178.3	182.3	181.0	181.0	179.6	181.0	181.0
72.5°	114.4	114.4	115.8	114.4	111.8	113.1	113.1	115.8
75°	61.2	63.9	61.2	61.2	62.5	59.9	61.2	62.5
77.5°	25.3	25.3	25.3	25.3	25.3	24.0	24.0	24.0
80°	12.0	12.0	12.0	12.0	12.0	12.0	10.6	10.6
82.5°	5.3	6.7	5.3	6.7	5.3	5.3	5.3	5.3
85°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
87.5°	0.0	1.3	0.0	1.3	0.0	0.0	0.0	1.3
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)