

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: P859569

Luminaire Tested: **LX4C75D010 EX4C759035 4LBLWWH**

Issue Date: 2/14/2022

Test Information

Test Method: LM-79-08
Report Number: P859569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C75D010 EX4C759035 4LBLWWH
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

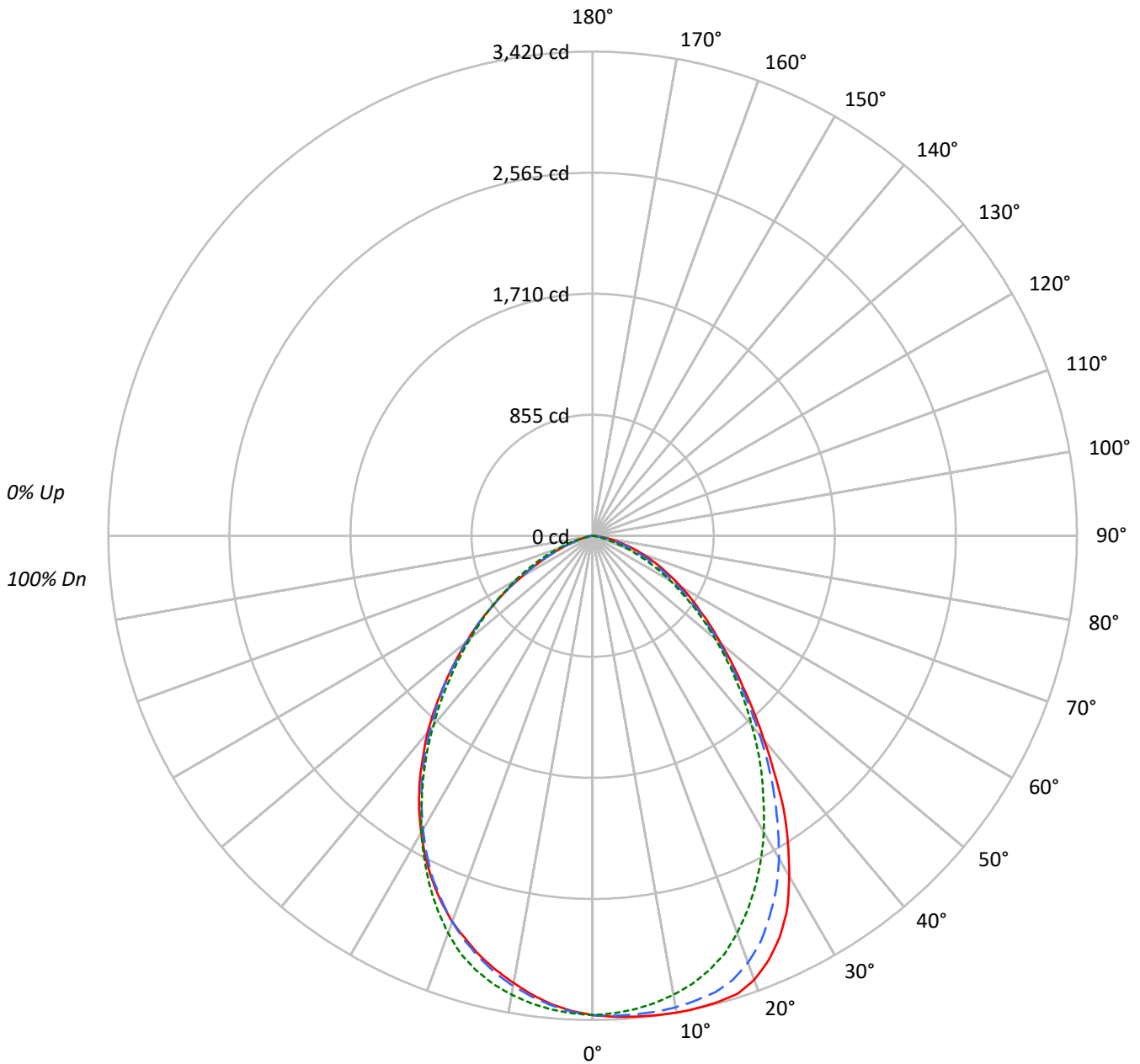
Lumens per Lamp: N/A
Luminaire Lumens: 6380.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68																			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60																			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39																			
9	62	50	43	38	61	50	42	37	49	42	37	47	41	37	47	41	37	35																			
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	415908	415908	415908
5°	420543	414118	409629
10°	426703	410623	400231
15°	433721	404087	390668
20°	436469	390331	379101
25°	423958	369235	363596
30°	393985	343185	343370
35°	352670	312836	319480
40°	301952	280446	290678
45°	259934	247268	256529
50°	225968	215265	221725
55°	198853	185187	183517
60°	176909	154525	142363
65°	155174	123778	102965
70°	133299	87465	69685
75°	108177	50695	40774
80°	77399	22074	20234
85°	29319	9162	9162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.1	5.0
10°-20°	903.1	14.2
20°-30°	1289.6	20.2
30°-40°	1349.1	21.1
40°-50°	1130.4	17.7
50°-60°	791.1	12.4
60°-70°	430.8	6.8
70°-80°	149.5	2.3
80°-90°	17.2	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°	2511.8	39.4
0°-40°	3861.0	60.5
0°-60°	5782.5	90.6
0°-90°	6380.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6380.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3385	3385	3385	3385	3385	
5°	3410	3394	3358	3329	3322	326
15°	3410	3338	3177	3086	3072	963
25°	3128	2961	2724	2670	2682	1428
35°	2352	2236	2086	2102	2130	1458
45°	1496	1462	1423	1470	1476	1163
55°	928	897	865	865	857	839
65°	534	487	426	358	354	532
75°	228	185	107	86	86	246
85°	21	12	6	6	6	37
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°	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4
2.5°	3401.0	3397.1	3398.4	3398.4	3398.4	3397.1	3398.4	3397.1	3397.1	3395.8	3393.2
5°	3410.1	3407.5	3407.5	3407.5	3406.2	3404.9	3404.9	3403.6	3401.0	3399.7	3394.5
7.5°	3416.6	3414.0	3414.0	3412.7	3411.4	3410.1	3408.8	3404.9	3401.0	3398.4	3391.9
10°	3420.5	3416.6	3416.6	3414.0	3411.4	3410.1	3407.5	3402.3	3397.1	3390.6	3381.5
12.5°	3417.9	3414.0	3412.7	3410.1	3404.9	3402.3	3399.7	3393.2	3384.1	3375.0	3363.2
15°	3410.1	3407.5	3404.9	3401.0	3394.5	3390.6	3388.0	3377.6	3365.9	3352.8	3338.5
17.5°	3394.5	3390.6	3385.4	3380.2	3371.1	3367.2	3360.6	3347.6	3330.7	3312.5	3290.3
20°	3338.5	3335.9	3330.7	3321.6	3307.3	3302.1	3292.9	3276.0	3253.9	3231.7	3208.3
22.5°	3246.1	3242.2	3234.3	3226.5	3213.5	3204.4	3196.6	3173.1	3148.4	3125.0	3102.8
25°	3127.6	3123.7	3113.3	3102.8	3089.8	3074.2	3066.4	3048.1	3023.4	2993.5	2960.9
27.5°	2975.2	2962.2	2958.3	2946.6	2927.1	2921.8	2910.1	2886.7	2863.3	2837.2	2809.9
30°	2777.3	2777.3	2769.5	2764.3	2746.1	2740.9	2727.8	2703.1	2690.1	2653.6	2632.8
32.5°	2567.7	2565.1	2558.6	2554.7	2544.2	2535.1	2522.1	2509.1	2480.4	2462.2	2433.6
35°	2351.5	2335.9	2338.5	2330.7	2324.2	2313.8	2312.5	2298.2	2272.1	2261.7	2235.7
37.5°	2105.4	2098.9	2108.1	2096.3	2089.8	2091.1	2080.7	2071.6	2061.2	2042.9	2037.7
40°	1882.8	1888.0	1886.7	1876.3	1881.5	1875.0	1864.6	1855.5	1850.2	1838.5	1834.6
42.5°	1683.6	1675.8	1673.2	1673.2	1674.5	1674.5	1669.3	1662.7	1662.7	1651.0	1639.3
45°	1496.1	1496.1	1493.5	1501.3	1489.6	1489.6	1485.7	1484.4	1479.2	1476.5	1462.2
47.5°	1334.6	1333.3	1332.0	1330.7	1329.4	1329.4	1321.6	1315.1	1313.8	1306.0	1298.2
50°	1182.3	1190.1	1187.5	1181.0	1178.4	1179.7	1174.5	1170.6	1169.3	1156.2	1157.5
52.5°	1054.7	1053.4	1056.0	1052.1	1045.6	1046.9	1041.7	1036.4	1031.2	1024.7	1019.5
55°	928.4	934.9	932.3	928.4	927.1	924.5	920.6	914.1	912.8	898.4	897.1
57.5°	822.9	821.6	819.0	812.5	811.2	807.3	807.3	802.1	794.3	786.5	779.9
60°	720.0	720.0	716.1	714.8	709.6	708.3	707.0	701.8	692.7	686.2	675.8
62.5°	621.1	623.7	621.1	617.2	613.3	608.1	605.5	601.6	593.7	587.2	578.1
65°	533.8	532.5	531.2	526.0	524.7	519.5	518.2	510.4	502.6	497.4	487.0
67.5°	450.5	446.6	446.6	444.0	441.4	437.5	434.9	427.1	418.0	412.8	402.3
70°	371.1	368.5	368.5	368.5	362.0	358.1	356.8	352.9	339.8	334.6	324.2
72.5°	298.2	296.9	295.6	291.7	287.8	287.8	282.5	274.7	268.2	261.7	253.9
75°	227.9	230.5	227.9	222.7	221.4	218.7	214.8	208.3	201.8	194.0	184.9
77.5°	166.7	164.1	161.5	161.5	158.9	153.6	152.3	147.1	139.3	134.1	125.0
80°	109.4	108.1	105.5	102.9	101.6	100.3	99.0	93.7	85.9	82.0	74.2
82.5°	59.9	58.6	58.6	57.3	53.4	53.4	52.1	46.9	43.0	40.4	36.5
85°	20.8	20.8	20.8	19.5	19.5	19.5	18.2	16.9	15.6	14.3	11.7
87.5°	2.6	1.3	2.6	1.3	2.6	1.3	1.3	1.3	1.3	1.3	1.3
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°	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4
2.5°	3390.6	3388.0	3386.7	3385.4	3384.1	3382.8	3381.5	3378.9	3377.6	3376.3	3373.7
5°	3390.6	3385.4	3382.8	3378.9	3376.3	3373.7	3369.8	3365.9	3361.9	3358.0	3354.1
7.5°	3385.4	3377.6	3372.4	3364.6	3361.9	3358.0	3350.2	3345.0	3338.5	3330.7	3321.6
10°	3372.4	3363.2	3352.8	3342.4	3338.5	3332.0	3321.6	3312.5	3302.1	3291.6	3282.5
12.5°	3351.5	3337.2	3324.2	3309.9	3302.1	3295.5	3281.2	3268.2	3255.2	3243.5	3227.8
15°	3320.3	3303.4	3286.4	3266.9	3257.8	3250.0	3229.1	3213.5	3192.7	3177.1	3161.4
17.5°	3269.5	3243.5	3222.6	3197.9	3184.9	3175.8	3157.5	3132.8	3113.3	3096.3	3078.1
20°	3182.3	3157.5	3128.9	3101.5	3087.2	3075.5	3049.4	3023.4	3003.9	2985.6	2966.1
22.5°	3067.7	3036.4	3015.6	2981.7	2970.0	2955.7	2924.5	2901.0	2878.9	2860.6	2842.4
25°	2928.4	2901.0	2872.4	2841.1	2826.8	2809.9	2783.8	2759.1	2744.8	2723.9	2701.8
27.5°	2768.2	2746.1	2710.9	2683.6	2669.2	2656.2	2631.5	2609.3	2588.5	2574.2	2553.4
30°	2598.9	2572.9	2541.6	2513.0	2505.2	2489.6	2467.4	2450.5	2428.4	2419.2	2410.1
32.5°	2412.7	2382.8	2359.4	2341.1	2325.5	2312.5	2300.8	2273.4	2269.5	2246.1	2243.5
35°	2209.6	2196.6	2174.5	2158.8	2145.8	2136.7	2117.2	2104.1	2089.8	2085.9	2076.8
37.5°	2018.2	2002.6	1981.8	1967.4	1958.3	1957.0	1942.7	1934.9	1924.5	1919.3	1908.8
40°	1817.7	1811.2	1793.0	1790.3	1776.0	1774.7	1766.9	1757.8	1748.7	1748.7	1750.0
42.5°	1632.8	1625.0	1617.2	1608.1	1600.2	1600.2	1596.3	1593.7	1591.1	1587.2	1593.7
45°	1459.6	1449.2	1444.0	1434.9	1438.8	1431.0	1428.4	1428.4	1424.5	1423.2	1432.3
47.5°	1298.2	1286.4	1281.2	1278.6	1278.6	1279.9	1268.2	1272.1	1270.8	1273.4	1277.3
50°	1151.0	1140.6	1132.8	1132.8	1134.1	1128.9	1123.7	1127.6	1123.7	1126.3	1135.4
52.5°	1014.3	1003.9	1000.0	1000.0	992.2	990.9	993.5	988.3	989.6	990.9	996.1
55°	888.0	881.5	875.0	868.5	869.8	867.2	862.0	860.7	863.3	864.6	871.1
57.5°	774.7	765.6	756.5	753.9	751.3	751.3	744.8	743.5	746.1	739.6	739.6
60°	666.7	661.5	649.7	645.8	645.8	639.3	634.1	636.7	630.2	628.9	630.2
62.5°	566.4	562.5	554.7	546.9	544.3	541.7	535.2	532.5	529.9	524.7	516.9
65°	479.2	470.0	460.9	455.7	451.8	445.3	441.4	436.2	428.4	425.8	418.0
67.5°	391.9	382.8	373.7	369.8	365.9	362.0	355.5	349.0	339.8	329.4	320.3
70°	315.1	303.4	298.2	287.8	285.2	279.9	270.8	264.3	255.2	243.5	234.4
72.5°	240.9	233.1	225.3	216.1	209.6	205.7	197.9	187.5	177.1	170.6	161.5
75°	173.2	169.3	158.9	148.4	145.8	140.6	131.5	125.0	117.2	106.8	99.0
77.5°	117.2	109.4	102.9	93.7	91.1	85.9	80.7	74.2	69.0	62.5	57.3
80°	69.0	62.5	58.6	52.1	49.5	46.9	43.0	37.8	33.9	31.2	29.9
82.5°	33.9	28.6	27.3	23.4	22.1	20.8	18.2	16.9	14.3	14.3	14.3
85°	11.7	9.1	9.1	7.8	6.5	6.5	6.5	6.5	6.5	6.5	6.5
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	1.3
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°	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4
2.5°	3372.4	3371.1	3369.8	3368.5	3368.5	3367.2	3367.2	3365.9	3365.9	3364.6	3364.6
5°	3348.9	3345.0	3342.4	3339.8	3339.8	3335.9	3333.3	3330.7	3329.4	3329.4	3326.8
7.5°	3316.4	3311.2	3306.0	3302.1	3300.7	3294.2	3289.0	3289.0	3283.8	3281.2	3278.6
10°	3273.4	3264.3	3256.5	3252.6	3247.4	3243.5	3236.9	3233.0	3229.1	3222.6	3221.3
12.5°	3214.8	3208.3	3196.6	3191.4	3188.8	3181.0	3170.5	3165.3	3164.0	3158.8	3154.9
15°	3148.4	3134.1	3123.7	3117.2	3117.2	3104.1	3098.9	3091.1	3085.9	3082.0	3080.7
17.5°	3062.5	3048.1	3037.7	3028.6	3026.0	3015.6	3007.8	3005.2	2998.7	3001.3	2994.8
20°	2951.8	2940.1	2932.3	2920.5	2920.5	2914.0	2911.4	2904.9	2902.3	2899.7	2902.3
22.5°	2833.3	2819.0	2806.0	2804.7	2804.7	2795.5	2794.2	2792.9	2787.7	2791.6	2790.3
25°	2694.0	2683.6	2675.8	2674.5	2674.5	2669.2	2664.0	2666.6	2670.5	2669.2	2673.2
27.5°	2549.5	2539.0	2536.4	2535.1	2532.5	2531.2	2533.8	2533.8	2537.7	2542.9	2548.2
30°	2393.2	2390.6	2386.7	2385.4	2382.8	2389.3	2391.9	2395.8	2394.5	2402.3	2407.5
32.5°	2237.0	2231.7	2230.4	2233.1	2237.0	2235.7	2243.5	2246.1	2248.7	2257.8	2261.7
35°	2079.4	2078.1	2075.5	2075.5	2076.8	2087.2	2087.2	2096.3	2101.5	2104.1	2114.6
37.5°	1910.1	1915.3	1917.9	1921.9	1923.2	1927.1	1929.7	1938.8	1944.0	1949.2	1954.4
40°	1755.2	1752.6	1764.3	1756.5	1759.1	1770.8	1776.0	1774.7	1782.5	1790.3	1795.6
42.5°	1589.8	1593.7	1596.3	1598.9	1605.5	1606.8	1613.3	1622.4	1625.0	1634.1	1636.7
45°	1429.7	1431.0	1436.2	1441.4	1445.3	1455.7	1458.3	1462.2	1470.0	1470.0	1473.9
47.5°	1278.6	1283.8	1283.8	1291.7	1298.2	1296.9	1306.0	1308.6	1307.3	1313.8	1316.4
50°	1134.1	1141.9	1140.6	1145.8	1148.4	1149.7	1157.5	1160.1	1154.9	1161.4	1162.7
52.5°	996.1	1000.0	1005.2	1006.5	1003.9	1010.4	1007.8	1013.0	1011.7	1016.9	1011.7
55°	869.8	868.5	868.5	871.1	868.5	871.1	873.7	868.5	864.6	869.8	868.5
57.5°	743.5	743.5	740.9	744.8	740.9	737.0	735.7	731.8	727.9	727.9	726.6
60°	625.0	622.4	617.2	615.9	615.9	609.4	606.8	601.6	601.6	596.3	591.1
62.5°	514.3	507.8	503.9	503.9	501.3	494.8	483.1	475.3	472.7	464.8	463.5
65°	410.2	403.6	399.7	391.9	385.4	382.8	371.1	362.0	358.1	350.3	351.6
67.5°	315.1	304.7	293.0	287.8	283.9	274.7	270.8	264.3	260.4	260.4	260.4
70°	226.6	217.4	205.7	201.8	199.2	191.4	187.5	186.2	190.1	188.8	190.1
72.5°	152.3	143.2	138.0	135.4	132.8	128.9	131.5	132.8	130.2	131.5	132.8
75°	92.4	89.8	85.9	84.6	84.6	85.9	84.6	84.6	85.9	85.9	87.2
77.5°	53.4	50.8	50.8	49.5	52.1	50.8	50.8	50.8	52.1	52.1	52.1
80°	28.6	28.6	28.6	28.6	29.9	28.6	29.9	29.9	29.9	29.9	29.9
82.5°	14.3	14.3	14.3	15.6	15.6	15.6	15.6	15.6	15.6	15.6	14.3
85°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
87.5°	1.3	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3
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: P859569

CATALOG NUMBER: LX4C75D010 EX4C759035 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4	3385.4
2.5°	3361.9	3361.9	3361.9	3359.3	3360.6	3360.6	3359.3	3359.3
5°	3325.5	3324.2	3321.6	3321.6	3319.0	3321.6	3320.3	3321.6
7.5°	3276.0	3276.0	3272.1	3272.1	3270.8	3269.5	3268.2	3269.5
10°	3217.4	3217.4	3214.8	3213.5	3214.8	3209.6	3209.6	3208.3
12.5°	3152.3	3149.7	3147.1	3148.4	3147.1	3143.2	3141.9	3143.2
15°	3076.8	3072.9	3074.2	3070.3	3070.3	3069.0	3071.6	3071.6
17.5°	2993.5	2990.9	2988.3	2989.6	2986.9	2988.3	2986.9	2985.6
20°	2901.0	2899.7	2899.7	2894.5	2895.8	2894.5	2895.8	2899.7
22.5°	2794.2	2792.9	2794.2	2790.3	2792.9	2792.9	2796.8	2796.8
25°	2677.1	2675.8	2678.4	2679.7	2681.0	2684.9	2681.0	2682.3
27.5°	2546.9	2550.8	2554.7	2556.0	2561.2	2557.3	2554.7	2558.6
30°	2415.3	2415.3	2414.0	2419.2	2423.2	2427.1	2420.5	2420.5
32.5°	2264.3	2270.8	2270.8	2272.1	2276.0	2276.0	2276.0	2281.2
35°	2119.8	2123.7	2125.0	2119.8	2122.4	2121.1	2130.2	2130.2
37.5°	1958.3	1958.3	1959.6	1968.7	1968.7	1964.8	1967.4	1967.4
40°	1804.7	1806.0	1800.8	1803.4	1809.9	1807.3	1809.9	1812.5
42.5°	1636.7	1645.8	1640.6	1643.2	1641.9	1643.2	1644.5	1644.5
45°	1476.5	1479.2	1479.2	1480.5	1483.1	1485.7	1477.9	1476.5
47.5°	1320.3	1321.6	1325.5	1319.0	1326.8	1319.0	1326.8	1317.7
50°	1162.7	1168.0	1164.1	1166.7	1162.7	1162.7	1161.4	1160.1
52.5°	1013.0	1011.7	1011.7	1010.4	1010.4	1013.0	1010.4	1014.3
55°	863.3	864.6	862.0	860.7	859.4	863.3	859.4	856.8
57.5°	721.3	724.0	718.7	721.3	712.2	716.1	717.4	718.7
60°	589.8	585.9	585.9	580.7	580.7	584.6	579.4	579.4
62.5°	457.0	459.6	455.7	460.9	460.9	466.1	463.5	466.1
65°	350.3	351.6	352.9	352.9	352.9	360.7	358.1	354.2
67.5°	264.3	265.6	266.9	265.6	269.5	266.9	266.9	268.2
70°	191.4	192.7	194.0	194.0	192.7	194.0	194.0	194.0
72.5°	132.8	134.1	132.8	134.1	135.4	134.1	134.1	135.4
75°	87.2	87.2	85.9	85.9	85.9	85.9	87.2	85.9
77.5°	50.8	52.1	50.8	52.1	52.1	52.1	52.1	52.1
80°	29.9	29.9	29.9	28.6	29.9	29.9	29.9	28.6
82.5°	15.6	15.6	14.3	14.3	15.6	15.6	15.6	15.6
85°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	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)