

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: P859597

Luminaire Tested: **LX4C75D010 EX4C759050 4LBLWWH**

Issue Date: 2/14/2022

Test Information

Test Method: LM-79-08
Report Number: P859597
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 EX4C759050 4LBLWWH
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

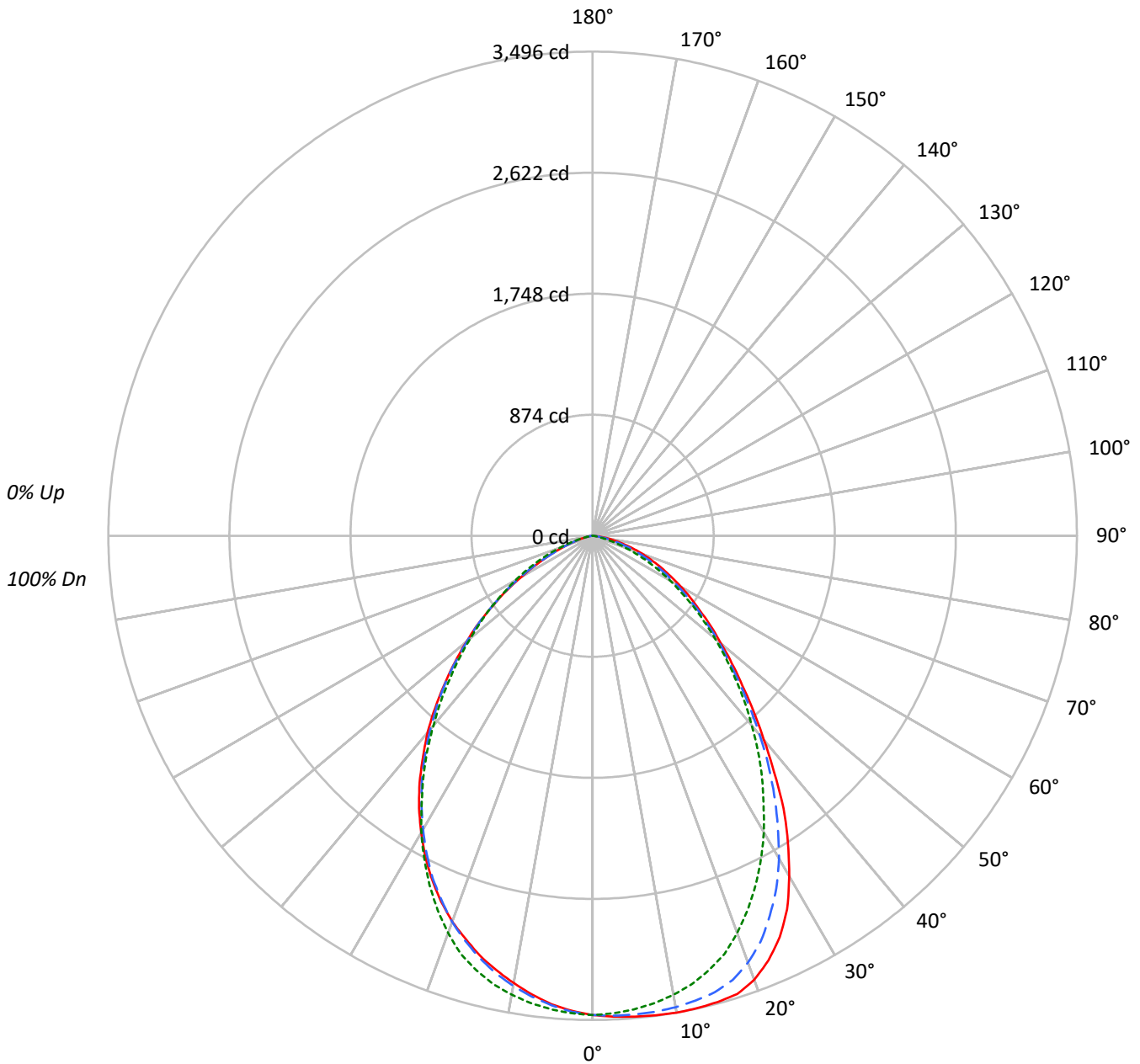
Lumens per Lamp: N/A
Luminaire Lumens: 6521.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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				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	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	48	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°	425098	425098	425098
5°	429841	423281	418681
10°	436134	419704	409076
15°	443311	413015	399304
20°	446117	398960	387481
25°	433325	377395	371621
30°	402695	350775	350959
35°	360468	319750	326544
40°	308623	286636	297093
45°	265667	252724	262210
50°	230957	220024	226637
55°	203243	189278	187565
60°	180840	157940	145508
65°	158604	126511	105232
70°	136244	89405	71229
75°	110550	51786	41676
80°	79097	22569	20729
85°	30024	9444	9444



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.1	5.0
10°-20°	923.1	14.2
20°-30°	1318.1	20.2
30°-40°	1378.9	21.1
40°-50°	1155.4	17.7
50°-60°	808.6	12.4
60°-70°	440.3	6.8
70°-80°	152.8	2.3
80°-90°	17.6	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°	2567.4	39.4
0°-40°	3946.3	60.5
0°-60°	5910.3	90.6
0°-90°	6521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6521.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3460	3460	3460	3460	3460	
5°	3486	3470	3432	3403	3395	333
15°	3486	3412	3247	3154	3140	984
25°	3197	3026	2784	2730	2742	1460
35°	2404	2285	2132	2148	2177	1490
45°	1529	1494	1455	1502	1509	1189
55°	949	917	884	884	876	857
65°	546	498	435	366	362	543
75°	233	189	109	88	88	251
85°	21	12	7	7	7	38
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°	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2
2.5°	3476.2	3472.2	3473.5	3473.5	3473.5	3472.2	3473.5	3472.2	3472.2	3470.8	3468.2
5°	3485.5	3482.8	3482.8	3482.8	3481.5	3480.2	3480.2	3478.8	3476.2	3474.8	3469.5
7.5°	3492.1	3489.5	3489.5	3488.1	3486.8	3485.5	3484.2	3480.2	3476.2	3473.5	3466.9
10°	3496.1	3492.1	3492.1	3489.5	3486.8	3485.5	3482.8	3477.5	3472.2	3465.5	3456.2
12.5°	3493.5	3489.5	3488.1	3485.5	3480.2	3477.5	3474.8	3468.2	3458.9	3449.6	3437.6
15°	3485.5	3482.8	3480.2	3476.2	3469.5	3465.5	3462.9	3452.2	3440.2	3426.9	3412.3
17.5°	3469.5	3465.5	3460.2	3454.9	3445.6	3441.6	3434.9	3421.6	3404.3	3385.7	3363.0
20°	3412.3	3409.6	3404.3	3395.0	3380.4	3375.0	3365.7	3348.4	3325.8	3303.2	3279.2
22.5°	3317.8	3313.8	3305.8	3297.8	3284.5	3275.2	3267.2	3243.3	3218.0	3194.0	3171.4
25°	3196.7	3192.7	3182.1	3171.4	3158.1	3142.1	3134.1	3115.5	3090.2	3059.6	3026.3
27.5°	3041.0	3027.7	3023.7	3011.7	2991.7	2986.4	2974.4	2950.5	2926.5	2899.9	2872.0
30°	2838.7	2838.7	2830.7	2825.4	2806.8	2801.4	2788.1	2762.8	2749.5	2712.3	2691.0
32.5°	2624.4	2621.8	2615.1	2611.1	2600.5	2591.2	2577.9	2564.5	2535.3	2516.6	2487.4
35°	2403.5	2387.5	2390.2	2382.2	2375.6	2364.9	2363.6	2348.9	2322.3	2311.7	2285.1
37.5°	2152.0	2145.3	2154.6	2142.7	2136.0	2137.3	2126.7	2117.4	2106.7	2088.1	2082.8
40°	1924.4	1929.7	1928.4	1917.8	1923.1	1916.4	1905.8	1896.5	1891.1	1879.2	1875.2
42.5°	1720.8	1712.8	1710.1	1710.1	1711.5	1711.5	1706.1	1699.5	1699.5	1687.5	1675.5
45°	1529.1	1529.1	1526.5	1534.5	1522.5	1522.5	1518.5	1517.2	1511.8	1509.2	1494.5
47.5°	1364.1	1362.8	1361.5	1360.1	1358.8	1358.8	1350.8	1344.2	1342.8	1334.8	1326.9
50°	1208.4	1216.4	1213.7	1207.1	1204.4	1205.7	1200.4	1196.4	1195.1	1181.8	1183.1
52.5°	1078.0	1076.7	1079.3	1075.3	1068.7	1070.0	1064.7	1059.4	1054.0	1047.4	1042.1
55°	948.9	955.5	952.9	948.9	947.6	944.9	940.9	934.3	932.9	918.3	917.0
57.5°	841.1	839.8	837.1	830.4	829.1	825.1	825.1	819.8	811.8	803.8	797.2
60°	736.0	736.0	732.0	730.6	725.3	724.0	722.6	717.3	708.0	701.4	690.7
62.5°	634.8	637.5	634.8	630.8	626.8	621.5	618.8	614.9	606.9	600.2	590.9
65°	545.6	544.3	543.0	537.7	536.3	531.0	529.7	521.7	513.7	508.4	497.7
67.5°	460.5	456.5	456.5	453.8	451.2	447.2	444.5	436.5	427.2	421.9	411.2
70°	379.3	376.6	376.6	376.6	370.0	366.0	364.7	360.7	347.4	342.0	331.4
72.5°	304.8	303.4	302.1	298.1	294.1	294.1	288.8	280.8	274.2	267.5	259.5
75°	232.9	235.6	232.9	227.6	226.2	223.6	219.6	212.9	206.3	198.3	189.0
77.5°	170.3	167.7	165.0	165.0	162.4	157.0	155.7	150.4	142.4	137.1	127.8
80°	111.8	110.5	107.8	105.1	103.8	102.5	101.1	95.8	87.8	83.8	75.9
82.5°	61.2	59.9	59.9	58.6	54.6	54.6	53.2	47.9	43.9	41.3	37.3
85°	21.3	21.3	21.3	20.0	20.0	20.0	18.6	17.3	16.0	14.6	12.0
87.5°	2.7	1.3	2.7	1.3	2.7	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°	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2
2.5°	3465.5	3462.9	3461.5	3460.2	3458.9	3457.5	3456.2	3453.5	3452.2	3450.9	3448.2
5°	3465.5	3460.2	3457.5	3453.5	3450.9	3448.2	3444.2	3440.2	3436.2	3432.3	3428.3
7.5°	3460.2	3452.2	3446.9	3438.9	3436.2	3432.3	3424.3	3418.9	3412.3	3404.3	3395.0
10°	3446.9	3437.6	3426.9	3416.3	3412.3	3405.6	3395.0	3385.7	3375.0	3364.4	3355.1
12.5°	3425.6	3411.0	3397.7	3383.0	3375.0	3368.4	3353.7	3340.4	3327.1	3315.1	3299.2
15°	3393.7	3376.4	3359.1	3339.1	3329.8	3321.8	3300.5	3284.5	3263.2	3247.3	3231.3
17.5°	3341.8	3315.1	3293.8	3268.6	3255.3	3245.9	3227.3	3202.0	3182.1	3164.8	3146.1
20°	3252.6	3227.3	3198.0	3170.1	3155.4	3143.5	3116.8	3090.2	3070.3	3051.6	3031.7
22.5°	3135.5	3103.5	3082.2	3047.6	3035.7	3021.0	2989.1	2965.1	2942.5	2923.9	2905.2
25°	2993.1	2965.1	2935.8	2903.9	2889.3	2872.0	2845.4	2820.1	2805.4	2784.1	2761.5
27.5°	2829.4	2806.8	2770.8	2742.9	2728.2	2714.9	2689.6	2667.0	2645.7	2631.1	2609.8
30°	2656.4	2629.8	2597.8	2568.5	2560.5	2544.6	2522.0	2504.7	2482.0	2472.7	2463.4
32.5°	2466.1	2435.4	2411.5	2392.9	2376.9	2363.6	2351.6	2323.7	2319.7	2295.7	2293.0
35°	2258.4	2245.1	2222.5	2206.5	2193.2	2183.9	2164.0	2150.6	2136.0	2132.0	2122.7
37.5°	2062.8	2046.8	2025.5	2010.9	2001.6	2000.3	1985.6	1977.6	1967.0	1961.7	1951.0
40°	1857.9	1851.2	1832.6	1829.9	1815.3	1813.9	1806.0	1796.6	1787.3	1787.3	1788.7
42.5°	1668.9	1660.9	1652.9	1643.6	1635.6	1635.6	1631.6	1629.0	1626.3	1622.3	1629.0
45°	1491.9	1481.2	1475.9	1466.6	1470.6	1462.6	1459.9	1459.9	1455.9	1454.6	1463.9
47.5°	1326.9	1314.9	1309.6	1306.9	1306.9	1308.2	1296.2	1300.2	1298.9	1301.6	1305.6
50°	1176.5	1165.8	1157.8	1157.8	1159.2	1153.8	1148.5	1152.5	1148.5	1151.2	1160.5
52.5°	1036.7	1026.1	1022.1	1022.1	1014.1	1012.8	1015.4	1010.1	1011.4	1012.8	1018.1
55°	907.6	901.0	894.3	887.7	889.0	886.3	881.0	879.7	882.4	883.7	890.3
57.5°	791.9	782.5	773.2	770.6	767.9	767.9	761.2	759.9	762.6	755.9	755.9
60°	681.4	676.1	664.1	660.1	660.1	653.4	648.1	650.8	644.1	642.8	644.1
62.5°	578.9	574.9	566.9	559.0	556.3	553.6	547.0	544.3	541.7	536.3	528.3
65°	489.8	480.4	471.1	465.8	461.8	455.1	451.2	445.8	437.8	435.2	427.2
67.5°	400.6	391.3	382.0	378.0	374.0	370.0	363.3	356.7	347.4	336.7	327.4
70°	322.1	310.1	304.8	294.1	291.5	286.1	276.8	270.2	260.8	248.9	239.6
72.5°	246.2	238.2	230.2	220.9	214.3	210.3	202.3	191.6	181.0	174.3	165.0
75°	177.0	173.0	162.4	151.7	149.1	143.7	134.4	127.8	119.8	109.1	101.1
77.5°	119.8	111.8	105.1	95.8	93.2	87.8	82.5	75.9	70.5	63.9	58.6
80°	70.5	63.9	59.9	53.2	50.6	47.9	43.9	38.6	34.6	31.9	30.6
82.5°	34.6	29.3	27.9	24.0	22.6	21.3	18.6	17.3	14.6	14.6	14.6
85°	12.0	9.3	9.3	8.0	6.7	6.7	6.7	6.7	6.7	6.7	6.7
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	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°	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2
2.5°	3446.9	3445.6	3444.2	3442.9	3442.9	3441.6	3441.6	3440.2	3440.2	3438.9	3438.9
5°	3422.9	3418.9	3416.3	3413.6	3413.6	3409.6	3407.0	3404.3	3403.0	3403.0	3400.3
7.5°	3389.7	3384.3	3379.0	3375.0	3373.7	3367.0	3361.7	3361.7	3356.4	3353.7	3351.1
10°	3345.7	3336.4	3328.4	3324.5	3319.1	3315.1	3308.5	3304.5	3300.5	3293.8	3292.5
12.5°	3285.9	3279.2	3267.2	3261.9	3259.2	3251.3	3240.6	3235.3	3234.0	3228.6	3224.6
15°	3218.0	3203.3	3192.7	3186.0	3186.0	3172.7	3167.4	3159.4	3154.1	3150.1	3148.8
17.5°	3130.2	3115.5	3104.9	3095.5	3092.9	3082.2	3074.3	3071.6	3064.9	3067.6	3060.9
20°	3017.0	3005.1	2997.1	2985.1	2985.1	2978.4	2975.8	2969.1	2966.5	2963.8	2966.5
22.5°	2895.9	2881.3	2868.0	2866.6	2866.6	2857.3	2856.0	2854.7	2849.3	2853.3	2852.0
25°	2753.5	2742.9	2734.9	2733.6	2733.6	2728.2	2722.9	2725.6	2729.6	2728.2	2732.2
27.5°	2605.8	2595.2	2592.5	2591.2	2588.5	2587.2	2589.8	2589.8	2593.8	2599.1	2604.5
30°	2446.1	2443.4	2439.4	2438.1	2435.4	2442.1	2444.8	2448.8	2447.4	2455.4	2460.7
32.5°	2286.4	2281.1	2279.7	2282.4	2286.4	2285.1	2293.0	2295.7	2298.4	2307.7	2311.7
35°	2125.4	2124.0	2121.4	2121.4	2122.7	2133.3	2133.3	2142.7	2148.0	2150.6	2161.3
37.5°	1952.4	1957.7	1960.3	1964.3	1965.7	1969.7	1972.3	1981.6	1987.0	1992.3	1997.6
40°	1794.0	1791.3	1803.3	1795.3	1798.0	1810.0	1815.3	1813.9	1821.9	1829.9	1835.2
42.5°	1625.0	1629.0	1631.6	1634.3	1640.9	1642.3	1648.9	1658.2	1660.9	1670.2	1672.9
45°	1461.3	1462.6	1467.9	1473.2	1477.2	1487.9	1490.5	1494.5	1502.5	1502.5	1506.5
47.5°	1306.9	1312.2	1312.2	1320.2	1326.9	1325.5	1334.8	1337.5	1336.2	1342.8	1345.5
50°	1159.2	1167.2	1165.8	1171.1	1173.8	1175.1	1183.1	1185.8	1180.5	1187.1	1188.4
52.5°	1018.1	1022.1	1027.4	1028.7	1026.1	1032.7	1030.1	1035.4	1034.1	1039.4	1034.1
55°	889.0	887.7	887.7	890.3	887.7	890.3	893.0	887.7	883.7	889.0	887.7
57.5°	759.9	759.9	757.3	761.2	757.3	753.3	751.9	747.9	743.9	743.9	742.6
60°	638.8	636.1	630.8	629.5	629.5	622.8	620.2	614.9	614.9	609.5	604.2
62.5°	525.7	519.0	515.0	515.0	512.4	505.7	493.7	485.8	483.1	475.1	473.8
65°	419.2	412.6	408.6	400.6	393.9	391.3	379.3	370.0	366.0	358.0	359.3
67.5°	322.1	311.4	299.4	294.1	290.1	280.8	276.8	270.2	266.2	266.2	266.2
70°	231.6	222.3	210.3	206.3	203.6	195.6	191.6	190.3	194.3	193.0	194.3
72.5°	155.7	146.4	141.1	138.4	135.7	131.8	134.4	135.7	133.1	134.4	135.7
75°	94.5	91.8	87.8	86.5	86.5	87.8	86.5	86.5	87.8	87.8	89.2
77.5°	54.6	51.9	51.9	50.6	53.2	51.9	51.9	51.9	53.2	53.2	53.2
80°	29.3	29.3	29.3	29.3	30.6	29.3	30.6	30.6	30.6	30.6	30.6
82.5°	14.6	14.6	14.6	16.0	16.0	16.0	16.0	16.0	16.0	16.0	14.6
85°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
87.5°	1.3	2.7	2.7	2.7	2.7	2.7	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: P859597

CATALOG NUMBER: LX4C75D010 EX4C759050 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2	3460.2
2.5°	3436.2	3436.2	3436.2	3433.6	3434.9	3434.9	3433.6	3433.6
5°	3399.0	3397.7	3395.0	3395.0	3392.3	3395.0	3393.7	3395.0
7.5°	3348.4	3348.4	3344.4	3344.4	3343.1	3341.8	3340.4	3341.8
10°	3288.5	3288.5	3285.9	3284.5	3285.9	3280.5	3280.5	3279.2
12.5°	3222.0	3219.3	3216.7	3218.0	3216.7	3212.7	3211.3	3212.7
15°	3144.8	3140.8	3142.1	3138.1	3138.1	3136.8	3139.5	3139.5
17.5°	3059.6	3057.0	3054.3	3055.6	3053.0	3054.3	3053.0	3051.6
20°	2965.1	2963.8	2963.8	2958.5	2959.8	2958.5	2959.8	2963.8
22.5°	2856.0	2854.7	2856.0	2852.0	2854.7	2854.7	2858.7	2858.7
25°	2736.2	2734.9	2737.6	2738.9	2740.2	2744.2	2740.2	2741.5
27.5°	2603.1	2607.1	2611.1	2612.5	2617.8	2613.8	2611.1	2615.1
30°	2468.7	2468.7	2467.4	2472.7	2476.7	2480.7	2474.0	2474.0
32.5°	2314.3	2321.0	2321.0	2322.3	2326.3	2326.3	2326.3	2331.6
35°	2166.6	2170.6	2171.9	2166.6	2169.3	2167.9	2177.3	2177.3
37.5°	2001.6	2001.6	2002.9	2012.2	2012.2	2008.2	2010.9	2010.9
40°	1844.6	1845.9	1840.6	1843.2	1849.9	1847.2	1849.9	1852.5
42.5°	1672.9	1682.2	1676.9	1679.5	1678.2	1679.5	1680.9	1680.9
45°	1509.2	1511.8	1511.8	1513.2	1515.8	1518.5	1510.5	1509.2
47.5°	1349.5	1350.8	1354.8	1348.1	1356.1	1348.1	1356.1	1346.8
50°	1188.4	1193.8	1189.8	1192.4	1188.4	1188.4	1187.1	1185.8
52.5°	1035.4	1034.1	1034.1	1032.7	1032.7	1035.4	1032.7	1036.7
55°	882.4	883.7	881.0	879.7	878.4	882.4	878.4	875.7
57.5°	737.3	740.0	734.6	737.3	728.0	732.0	733.3	734.6
60°	602.9	598.9	598.9	593.6	593.6	597.6	592.2	592.2
62.5°	467.1	469.8	465.8	471.1	471.1	476.4	473.8	476.4
65°	358.0	359.3	360.7	360.7	360.7	368.6	366.0	362.0
67.5°	270.2	271.5	272.8	271.5	275.5	272.8	272.8	274.2
70°	195.6	197.0	198.3	198.3	197.0	198.3	198.3	198.3
72.5°	135.7	137.1	135.7	137.1	138.4	137.1	137.1	138.4
75°	89.2	89.2	87.8	87.8	87.8	87.8	89.2	87.8
77.5°	51.9	53.2	51.9	53.2	53.2	53.2	53.2	53.2
80°	30.6	30.6	30.6	29.3	30.6	30.6	30.6	29.3
82.5°	16.0	16.0	14.6	14.6	16.0	16.0	16.0	16.0
85°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
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)