

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: P859613

Luminaire Tested: **LX4C75D010 EX4C759730 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P859613
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 EX4C759730 4LBLWWH
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

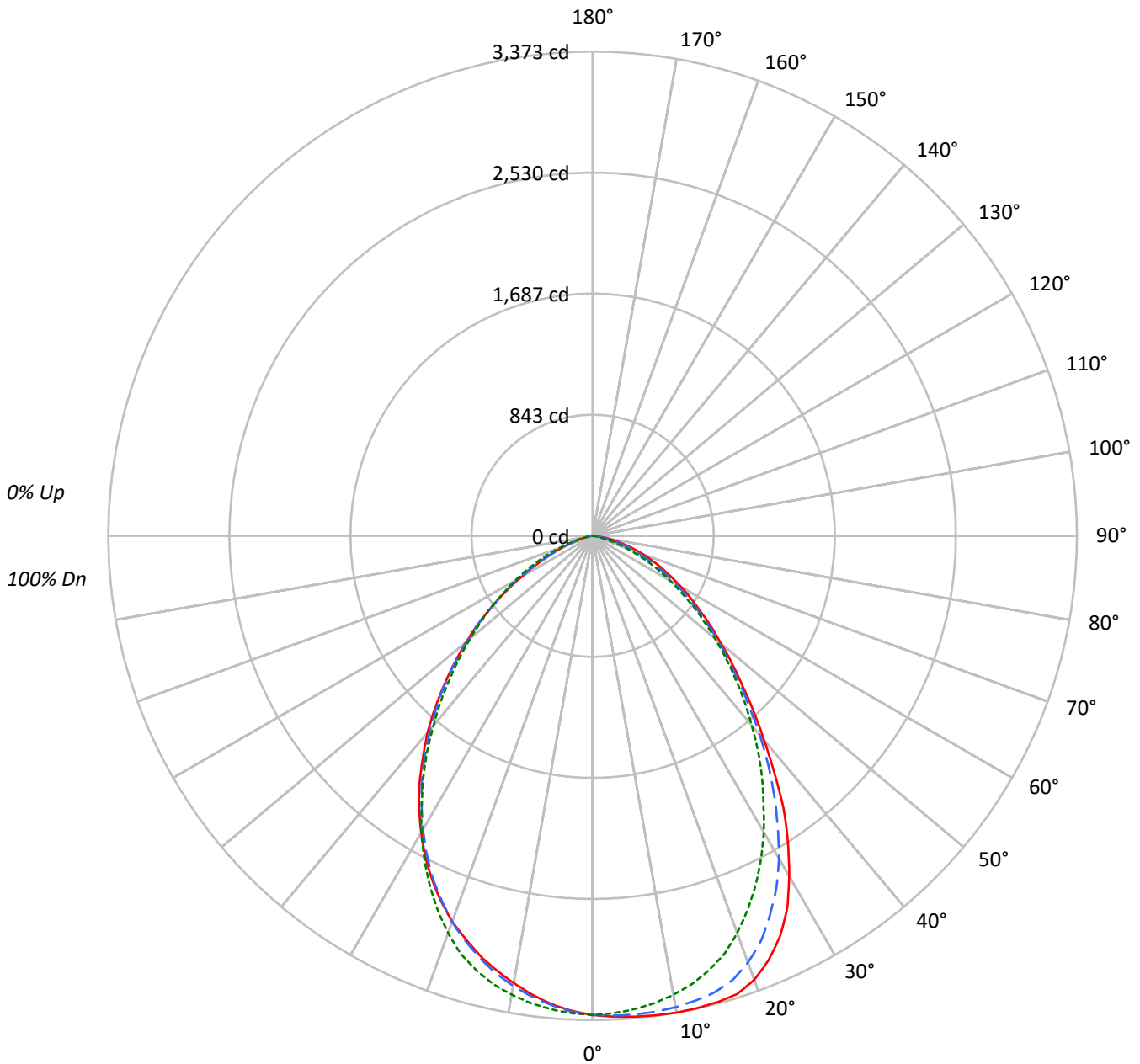
Lumens per Lamp: N/A
Luminaire Lumens: 6291.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	410109	410109	410109
5°	414685	408346	403907
10°	420752	404897	394642
15°	427680	398440	385212
20°	430376	384892	373819
25°	418034	364084	358513
30°	388495	338405	338589
35°	347750	308471	315025
40°	297734	276533	286620
45°	256303	243811	252967
50°	222815	212265	218648
55°	196068	182596	180946
60°	174452	152363	140372
65°	153022	122034	101511
70°	131431	86244	68715
75°	106658	49983	40204
80°	76267	21791	19951
85°	28897	9021	9021



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.6	5.0
10°-20°	890.5	14.2
20°-30°	1271.7	20.2
30°-40°	1330.3	21.1
40°-50°	1114.6	17.7
50°-60°	780.1	12.4
60°-70°	424.8	6.8
70°-80°	147.4	2.3
80°-90°	17.0	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°	2476.8	39.4
0°-40°	3807.1	60.5
0°-60°	5701.8	90.6
0°-90°	6291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6291.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3338	3338	3338	3338	3338	
5°	3363	3347	3311	3283	3275	321
15°	3363	3292	3133	3043	3029	950
25°	3084	2920	2686	2633	2645	1408
35°	2319	2204	2057	2072	2100	1438
45°	1475	1442	1403	1450	1456	1147
55°	915	885	852	852	845	827
65°	526	480	420	353	349	524
75°	225	182	105	85	85	242
85°	20	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°	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2
2.5°	3353.6	3349.7	3351.0	3351.0	3351.0	3349.7	3351.0	3349.7	3349.7	3348.4	3345.9
5°	3362.6	3360.0	3360.0	3360.0	3358.7	3357.4	3357.4	3356.1	3353.6	3352.3	3347.1
7.5°	3369.0	3366.4	3366.4	3365.1	3363.8	3362.6	3361.3	3357.4	3353.6	3351.0	3344.6
10°	3372.8	3369.0	3369.0	3366.4	3363.8	3362.6	3360.0	3354.8	3349.7	3343.3	3334.3
12.5°	3370.3	3366.4	3365.1	3362.6	3357.4	3354.8	3352.3	3345.9	3336.9	3327.9	3316.3
15°	3362.6	3360.0	3357.4	3353.6	3347.1	3343.3	3340.7	3330.5	3318.9	3306.1	3291.9
17.5°	3347.1	3343.3	3338.2	3333.0	3324.0	3320.2	3313.8	3300.9	3284.2	3266.3	3244.4
20°	3291.9	3289.4	3284.2	3275.2	3261.1	3256.0	3247.0	3230.3	3208.5	3186.7	3163.5
22.5°	3200.8	3196.9	3189.2	3181.5	3168.7	3159.7	3152.0	3128.9	3104.5	3081.4	3059.6
25°	3083.9	3080.1	3069.8	3059.6	3046.7	3031.3	3023.6	3005.6	2981.2	2951.7	2919.6
27.5°	2933.7	2920.9	2917.0	2905.5	2886.2	2881.1	2869.5	2846.4	2823.3	2797.6	2770.7
30°	2738.6	2738.6	2730.9	2725.7	2707.8	2702.6	2689.8	2665.4	2652.6	2616.6	2596.1
32.5°	2531.9	2529.3	2522.9	2519.0	2508.8	2499.8	2486.9	2474.1	2445.8	2427.9	2399.6
35°	2318.7	2303.3	2305.9	2298.2	2291.8	2281.5	2280.2	2266.1	2240.4	2230.1	2204.5
37.5°	2076.1	2069.7	2078.6	2067.1	2060.7	2062.0	2051.7	2042.7	2032.4	2014.4	2009.3
40°	1856.5	1861.7	1860.4	1850.1	1855.2	1848.8	1838.6	1829.6	1824.4	1812.9	1809.0
42.5°	1660.1	1652.4	1649.8	1649.8	1651.1	1651.1	1646.0	1639.5	1639.5	1628.0	1616.4
45°	1475.2	1475.2	1472.6	1480.3	1468.8	1468.8	1464.9	1463.7	1458.5	1456.0	1441.8
47.5°	1316.0	1314.7	1313.4	1312.2	1310.9	1310.9	1303.2	1296.7	1295.5	1287.8	1280.1
50°	1165.8	1173.5	1170.9	1164.5	1161.9	1163.2	1158.1	1154.2	1152.9	1140.1	1141.4
52.5°	1040.0	1038.7	1041.2	1037.4	1031.0	1032.3	1027.1	1022.0	1016.9	1010.4	1005.3
55°	915.4	921.8	919.3	915.4	914.1	911.6	907.7	901.3	900.0	885.9	884.6
57.5°	811.4	810.1	807.6	801.2	799.9	796.0	796.0	790.9	783.2	775.5	769.1
60°	710.0	710.0	706.1	704.9	699.7	698.4	697.2	692.0	683.0	676.6	666.3
62.5°	612.4	615.0	612.4	608.6	604.7	599.6	597.0	593.2	585.5	579.0	570.1
65°	526.4	525.1	523.8	518.7	517.4	512.3	511.0	503.3	495.6	490.5	480.2
67.5°	444.2	440.4	440.4	437.8	435.2	431.4	428.8	421.1	412.1	407.0	396.7
70°	365.9	363.3	363.3	363.3	356.9	353.1	351.8	347.9	335.1	330.0	319.7
72.5°	294.0	292.7	291.4	287.6	283.7	283.7	278.6	270.9	264.5	258.1	250.4
75°	224.7	227.3	224.7	219.5	218.3	215.7	211.8	205.4	199.0	191.3	182.3
77.5°	164.3	161.8	159.2	159.2	156.6	151.5	150.2	145.1	137.4	132.2	123.3
80°	107.8	106.6	104.0	101.4	100.1	98.9	97.6	92.4	84.7	80.9	73.2
82.5°	59.1	57.8	57.8	56.5	52.6	52.6	51.4	46.2	42.4	39.8	35.9
85°	20.5	20.5	20.5	19.3	19.3	19.3	18.0	16.7	15.4	14.1	11.6
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°	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2
2.5°	3343.3	3340.7	3339.4	3338.2	3336.9	3335.6	3334.3	3331.7	3330.5	3329.2	3326.6
5°	3343.3	3338.2	3335.6	3331.7	3329.2	3326.6	3322.8	3318.9	3315.0	3311.2	3307.3
7.5°	3338.2	3330.5	3325.3	3317.6	3315.0	3311.2	3303.5	3298.4	3291.9	3284.2	3275.2
10°	3325.3	3316.3	3306.1	3295.8	3291.9	3285.5	3275.2	3266.3	3256.0	3245.7	3236.7
12.5°	3304.8	3290.7	3277.8	3263.7	3256.0	3249.6	3235.4	3222.6	3209.8	3198.2	3182.8
15°	3274.0	3257.3	3240.6	3221.3	3212.3	3204.6	3184.1	3168.7	3148.1	3132.7	3117.3
17.5°	3223.9	3198.2	3177.7	3153.3	3140.4	3131.4	3113.5	3089.1	3069.8	3053.1	3035.2
20°	3137.9	3113.5	3085.2	3058.3	3044.1	3032.6	3006.9	2981.2	2962.0	2944.0	2924.7
22.5°	3024.9	2994.1	2973.5	2940.1	2928.6	2914.5	2883.7	2860.5	2838.7	2820.7	2802.8
25°	2887.5	2860.5	2832.3	2801.5	2787.4	2770.7	2745.0	2720.6	2706.5	2685.9	2664.1
27.5°	2729.6	2707.8	2673.1	2646.1	2632.0	2619.2	2594.8	2572.9	2552.4	2538.3	2517.7
30°	2562.7	2537.0	2506.2	2477.9	2470.2	2454.8	2433.0	2416.3	2394.5	2385.5	2376.5
32.5°	2379.1	2349.5	2326.4	2308.5	2293.1	2280.2	2268.7	2241.7	2237.8	2214.7	2212.2
35°	2178.8	2166.0	2144.1	2128.7	2115.9	2106.9	2087.6	2074.8	2060.7	2056.8	2047.8
37.5°	1990.1	1974.6	1954.1	1940.0	1931.0	1929.7	1915.6	1907.9	1897.6	1892.5	1882.2
40°	1792.3	1785.9	1767.9	1765.4	1751.2	1750.0	1742.3	1733.3	1724.3	1724.3	1725.6
42.5°	1610.0	1602.3	1594.6	1585.6	1577.9	1577.9	1574.1	1571.5	1568.9	1565.1	1571.5
45°	1439.3	1429.0	1423.9	1414.9	1418.7	1411.0	1408.4	1408.4	1404.6	1403.3	1412.3
47.5°	1280.1	1268.5	1263.4	1260.8	1260.8	1262.1	1250.5	1254.4	1253.1	1255.7	1259.5
50°	1135.0	1124.7	1117.0	1117.0	1118.3	1113.1	1108.0	1111.9	1108.0	1110.6	1119.6
52.5°	1000.2	989.9	986.0	986.0	978.3	977.1	979.6	974.5	975.8	977.1	982.2
55°	875.6	869.2	862.8	856.4	857.6	855.1	849.9	848.7	851.2	852.5	858.9
57.5°	763.9	754.9	745.9	743.4	740.8	740.8	734.4	733.1	735.7	729.3	729.3
60°	657.4	652.2	640.7	636.8	636.8	630.4	625.3	627.8	621.4	620.1	621.4
62.5°	558.5	554.6	546.9	539.2	536.7	534.1	527.7	525.1	522.6	517.4	509.7
65°	472.5	463.5	454.5	449.4	445.5	439.1	435.2	430.1	422.4	419.8	412.1
67.5°	386.5	377.5	368.5	364.6	360.8	356.9	350.5	344.1	335.1	324.8	315.8
70°	310.7	299.2	294.0	283.7	281.2	276.0	267.1	260.6	251.6	240.1	231.1
72.5°	237.5	229.8	222.1	213.1	206.7	202.9	195.2	184.9	174.6	168.2	159.2
75°	170.8	166.9	156.6	146.4	143.8	138.7	129.7	123.3	115.6	105.3	97.6
77.5°	115.6	107.8	101.4	92.4	89.9	84.7	79.6	73.2	68.0	61.6	56.5
80°	68.0	61.6	57.8	51.4	48.8	46.2	42.4	37.2	33.4	30.8	29.5
82.5°	33.4	28.2	27.0	23.1	21.8	20.5	18.0	16.7	14.1	14.1	14.1
85°	11.6	9.0	9.0	7.7	6.4	6.4	6.4	6.4	6.4	6.4	6.4
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°	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2
2.5°	3325.3	3324.0	3322.8	3321.5	3321.5	3320.2	3320.2	3318.9	3318.9	3317.6	3317.6
5°	3302.2	3298.4	3295.8	3293.2	3293.2	3289.4	3286.8	3284.2	3282.9	3282.9	3280.4
7.5°	3270.1	3265.0	3259.8	3256.0	3254.7	3248.3	3243.1	3243.1	3238.0	3235.4	3232.9
10°	3227.7	3218.8	3211.1	3207.2	3202.1	3198.2	3191.8	3187.9	3184.1	3177.7	3176.4
12.5°	3170.0	3163.5	3152.0	3146.9	3144.3	3136.6	3126.3	3121.2	3119.9	3114.8	3110.9
15°	3104.5	3090.4	3080.1	3073.7	3073.7	3060.8	3055.7	3048.0	3042.9	3039.0	3037.7
17.5°	3019.7	3005.6	2995.4	2986.4	2983.8	2973.5	2965.8	2963.3	2956.8	2959.4	2953.0
20°	2910.6	2899.1	2891.4	2879.8	2879.8	2873.4	2870.8	2864.4	2861.8	2859.3	2861.8
22.5°	2793.8	2779.7	2766.8	2765.5	2765.5	2756.5	2755.3	2754.0	2748.8	2752.7	2751.4
25°	2656.4	2646.1	2638.4	2637.1	2637.1	2632.0	2626.9	2629.4	2633.3	2632.0	2635.9
27.5°	2513.9	2503.6	2501.1	2499.8	2497.2	2495.9	2498.5	2498.5	2502.3	2507.5	2512.6
30°	2359.8	2357.3	2353.4	2352.1	2349.5	2356.0	2358.5	2362.4	2361.1	2368.8	2373.9
32.5°	2205.8	2200.6	2199.3	2201.9	2205.8	2204.5	2212.2	2214.7	2217.3	2226.3	2230.1
35°	2050.4	2049.1	2046.5	2046.5	2047.8	2058.1	2058.1	2067.1	2072.2	2074.8	2085.1
37.5°	1883.5	1888.6	1891.2	1895.0	1896.3	1900.2	1902.8	1911.7	1916.9	1922.0	1927.1
40°	1730.7	1728.1	1739.7	1732.0	1734.6	1746.1	1751.2	1750.0	1757.7	1765.4	1770.5
42.5°	1567.7	1571.5	1574.1	1576.6	1583.1	1584.3	1590.8	1599.7	1602.3	1611.3	1613.9
45°	1409.7	1411.0	1416.1	1421.3	1425.1	1435.4	1438.0	1441.8	1449.5	1449.5	1453.4
47.5°	1260.8	1265.9	1265.9	1273.6	1280.1	1278.8	1287.8	1290.3	1289.0	1295.5	1298.0
50°	1118.3	1126.0	1124.7	1129.8	1132.4	1133.7	1141.4	1144.0	1138.8	1145.2	1146.5
52.5°	982.2	986.0	991.2	992.5	989.9	996.3	993.7	998.9	997.6	1002.7	997.6
55°	857.6	856.4	856.4	858.9	856.4	858.9	861.5	856.4	852.5	857.6	856.4
57.5°	733.1	733.1	730.5	734.4	730.5	726.7	725.4	721.6	717.7	717.7	716.4
60°	616.3	613.7	608.6	607.3	607.3	600.9	598.3	593.2	593.2	588.0	582.9
62.5°	507.1	500.7	496.9	496.9	494.3	487.9	476.3	468.6	466.1	458.4	457.1
65°	404.4	398.0	394.2	386.5	380.0	377.5	365.9	356.9	353.1	345.4	346.7
67.5°	310.7	300.4	288.9	283.7	279.9	270.9	267.1	260.6	256.8	256.8	256.8
70°	223.4	214.4	202.9	199.0	196.4	188.7	184.9	183.6	187.5	186.2	187.5
72.5°	150.2	141.2	136.1	133.5	131.0	127.1	129.7	131.0	128.4	129.7	131.0
75°	91.2	88.6	84.7	83.5	83.5	84.7	83.5	83.5	84.7	84.7	86.0
77.5°	52.6	50.1	50.1	48.8	51.4	50.1	50.1	50.1	51.4	51.4	51.4
80°	28.2	28.2	28.2	28.2	29.5	28.2	29.5	29.5	29.5	29.5	29.5
82.5°	14.1	14.1	14.1	15.4	15.4	15.4	15.4	15.4	15.4	15.4	14.1
85°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
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: P859613

CATALOG NUMBER: LX4C75D010 EX4C759730 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2	3338.2
2.5°	3315.0	3315.0	3315.0	3312.5	3313.8	3313.8	3312.5	3312.5
5°	3279.1	3277.8	3275.2	3275.2	3272.7	3275.2	3274.0	3275.2
7.5°	3230.3	3230.3	3226.5	3226.5	3225.2	3223.9	3222.6	3223.9
10°	3172.5	3172.5	3170.0	3168.7	3170.0	3164.8	3164.8	3163.5
12.5°	3108.3	3105.8	3103.2	3104.5	3103.2	3099.4	3098.1	3099.4
15°	3033.9	3030.0	3031.3	3027.5	3027.5	3026.2	3028.7	3028.7
17.5°	2951.7	2949.1	2946.6	2947.9	2945.3	2946.6	2945.3	2944.0
20°	2860.5	2859.3	2859.3	2854.1	2855.4	2854.1	2855.4	2859.3
22.5°	2755.3	2754.0	2755.3	2751.4	2754.0	2754.0	2757.8	2757.8
25°	2639.7	2638.4	2641.0	2642.3	2643.6	2647.4	2643.6	2644.8
27.5°	2511.3	2515.2	2519.0	2520.3	2525.4	2521.6	2519.0	2522.9
30°	2381.6	2381.6	2380.4	2385.5	2389.4	2393.2	2386.8	2386.8
32.5°	2232.7	2239.1	2239.1	2240.4	2244.3	2244.3	2244.3	2249.4
35°	2090.2	2094.1	2095.3	2090.2	2092.8	2091.5	2100.5	2100.5
37.5°	1931.0	1931.0	1932.3	1941.3	1941.3	1937.4	1940.0	1940.0
40°	1779.5	1780.8	1775.6	1778.2	1784.6	1782.1	1784.6	1787.2
42.5°	1613.9	1622.9	1617.7	1620.3	1619.0	1620.3	1621.6	1621.6
45°	1456.0	1458.5	1458.5	1459.8	1462.4	1464.9	1457.2	1456.0
47.5°	1301.9	1303.2	1307.0	1300.6	1308.3	1300.6	1308.3	1299.3
50°	1146.5	1151.7	1147.8	1150.4	1146.5	1146.5	1145.2	1144.0
52.5°	998.9	997.6	997.6	996.3	996.3	998.9	996.3	1000.2
55°	851.2	852.5	849.9	848.7	847.4	851.2	847.4	844.8
57.5°	711.3	713.9	708.7	711.3	702.3	706.1	707.4	708.7
60°	581.6	577.8	577.8	572.6	572.6	576.5	571.3	571.3
62.5°	450.7	453.2	449.4	454.5	454.5	459.6	457.1	459.6
65°	345.4	346.7	347.9	347.9	347.9	355.6	353.1	349.2
67.5°	260.6	261.9	263.2	261.9	265.8	263.2	263.2	264.5
70°	188.7	190.0	191.3	191.3	190.0	191.3	191.3	191.3
72.5°	131.0	132.2	131.0	132.2	133.5	132.2	132.2	133.5
75°	86.0	86.0	84.7	84.7	84.7	84.7	86.0	84.7
77.5°	50.1	51.4	50.1	51.4	51.4	51.4	51.4	51.4
80°	29.5	29.5	29.5	28.2	29.5	29.5	29.5	28.2
82.5°	15.4	15.4	14.1	14.1	15.4	15.4	15.4	15.4
85°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
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)