

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: P859592

Luminaire Tested: **LX4C75D010 EX4C759040 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P859592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C75D010 EX4C759040 4LBSWNH
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

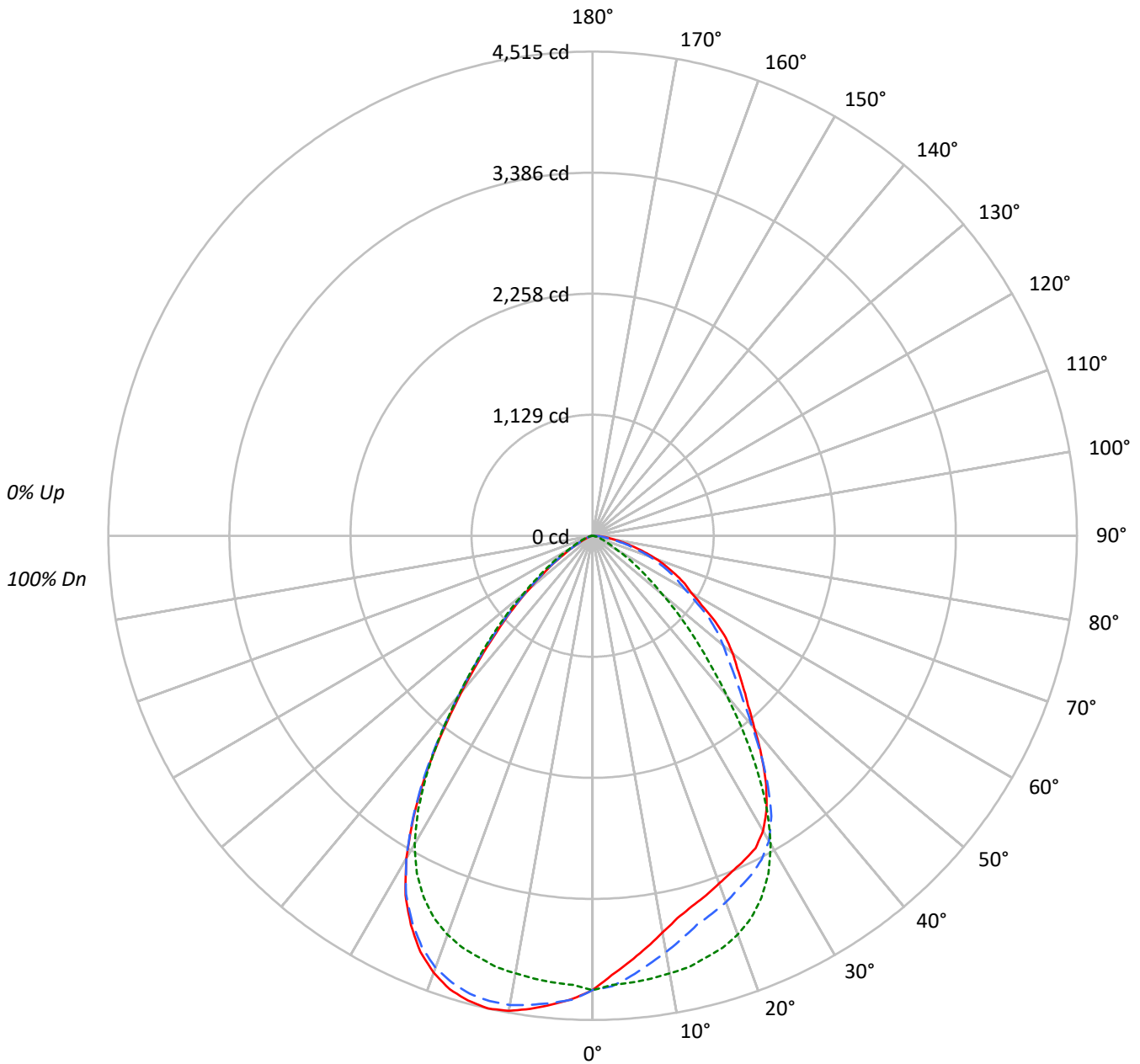
Lumens per Lamp: N/A
Luminaire Lumens: 7426.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	100	100	100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62	62	62	62
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56	56	56	56
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50	50	50	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46	46	46	46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42	42	42	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38	38
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	520456	520456	520456
5°	491466	515723	541288
10°	468556	516896	561169
15°	454796	517996	570753
20°	451072	517461	566710
25°	452885	504694	543164
30°	450729	470858	492534
35°	422469	402027	406106
40°	376462	311703	304694
45°	344303	232379	218149
50°	325545	162782	147129
55°	299371	109922	92358
60°	261555	64351	50960
65°	247586	41250	28546
70°	225541	29454	17673
75°	186593	20743	13006
80°	146732	11674	7712
85°	130950	7894	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	400.3	5.4
10°-20°	1148.3	15.5
20°-30°	1702.3	22.9
30°-40°	1704.6	23.0
40°-50°	1191.3	16.0
50°-60°	708.9	9.5
60°-70°	370.0	5.0
70°-80°	164.5	2.2
80°-90°	35.9	0.5
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°	3250.8	43.8
0°-40°	4955.4	66.7
0°-60°	6855.6	92.3
0°-90°	7426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7426.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4236	4236	4236	4236	4236	
5°	3985	4122	4182	4373	4389	374
15°	3576	3756	4073	4422	4488	1013
25°	3341	3494	3723	3980	4007	1539
35°	2817	2850	2681	2730	2708	1746
45°	1982	1883	1338	1294	1256	1539
55°	1398	1310	513	448	431	1240
65°	852	781	142	104	98	843
75°	393	344	44	27	27	425
85°	93	71	6	6	0	104
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°	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4
2.5°	4099.9	4149.1	4099.9	4116.4	4181.9	4121.7	4154.5	4154.5	4138.2	4176.3	4203.7
5°	3985.2	4034.4	3985.2	4007.0	4078.1	4017.9	4056.2	4045.3	4050.9	4083.6	4121.7
7.5°	3870.7	3908.8	3865.1	3892.5	3958.0	3908.8	3941.5	3941.5	3947.1	3996.1	4029.1
10°	3756.0	3788.7	3756.0	3777.8	3848.9	3805.2	3827.0	3832.4	3848.9	3892.5	3941.5
12.5°	3652.2	3679.6	3646.8	3679.6	3739.5	3695.8	3723.2	3728.6	3745.1	3794.3	3848.9
15°	3575.8	3603.2	3570.4	3597.6	3652.2	3619.4	3641.3	3652.2	3663.1	3706.8	3756.0
17.5°	3515.9	3537.7	3510.3	3543.1	3586.7	3548.6	3581.4	3581.4	3597.6	3641.3	3695.8
20°	3450.2	3472.0	3450.2	3477.6	3526.8	3494.0	3521.2	3521.2	3537.7	3586.7	3635.9
22.5°	3390.3	3401.2	3390.3	3412.1	3461.1	3433.9	3450.2	3455.7	3472.0	3515.9	3559.5
25°	3341.0	3362.9	3351.9	3373.8	3406.5	3379.3	3395.6	3401.2	3417.4	3455.7	3494.0
27.5°	3286.5	3297.4	3286.5	3313.9	3341.0	3319.2	3335.7	3330.1	3341.0	3373.8	3406.5
30°	3177.3	3188.2	3188.2	3204.5	3226.5	3215.6	3231.9	3215.6	3226.5	3253.7	3286.5
32.5°	3019.0	3024.5	3029.9	3046.3	3062.6	3046.3	3057.3	3057.3	3057.3	3079.1	3100.9
35°	2816.9	2827.8	2822.5	2833.4	2849.7	2844.3	2844.3	2838.8	2827.8	2838.8	2849.7
37.5°	2587.7	2571.3	2571.3	2587.7	2598.7	2576.8	2587.7	2576.8	2576.8	2582.2	2582.2
40°	2347.4	2331.1	2347.4	2353.0	2358.3	2347.4	2342.1	2331.1	2314.7	2320.2	2309.3
42.5°	2145.6	2134.5	2140.0	2140.0	2145.6	2134.5	2140.0	2118.2	2101.7	2090.8	2074.6
45°	1981.7	1965.4	1981.7	1970.8	1970.8	1965.4	1959.8	1948.9	1927.1	1910.8	1883.4
47.5°	1828.9	1828.9	1834.2	1834.2	1834.2	1823.3	1823.3	1801.5	1779.7	1757.8	1719.7
50°	1703.3	1692.3	1714.2	1714.2	1697.9	1692.3	1697.9	1670.5	1654.3	1626.9	1588.6
52.5°	1566.7	1566.7	1572.3	1572.3	1566.7	1555.8	1561.4	1539.5	1523.1	1495.9	1457.6
55°	1397.7	1386.7	1403.0	1403.0	1397.7	1392.1	1397.7	1381.2	1364.9	1343.1	1310.1
57.5°	1206.6	1201.0	1211.9	1217.5	1206.6	1206.6	1211.9	1195.6	1190.1	1168.2	1135.5
60°	1064.5	1059.1	1070.0	1075.6	1064.5	1064.5	1064.5	1042.6	1031.7	1009.9	988.1
62.5°	966.2	960.9	971.8	966.2	960.9	955.3	960.9	939.0	928.1	906.3	884.5
65°	851.7	857.1	862.7	862.7	857.1	851.7	851.7	840.8	829.9	808.1	780.7
67.5°	742.4	742.4	747.9	753.3	747.9	747.9	747.9	731.5	720.6	704.3	671.5
70°	627.9	622.3	638.8	638.8	627.9	633.2	627.9	622.3	611.4	589.6	562.4
72.5°	507.6	507.6	513.2	513.2	507.6	507.6	507.6	502.3	485.8	474.9	447.7
75°	393.1	393.1	398.5	404.0	393.1	393.1	398.5	387.6	376.6	360.4	343.9
77.5°	294.9	289.3	294.9	294.9	289.3	289.3	289.3	284.0	278.4	261.9	245.7
80°	207.4	202.0	207.4	207.4	207.4	202.0	202.0	196.5	196.5	185.5	169.3
82.5°	141.9	136.5	141.9	141.9	141.9	136.5	136.5	136.5	131.0	125.6	114.7
85°	92.9	87.3	87.3	92.9	87.3	87.3	87.3	87.3	82.0	76.4	71.0
87.5°	43.7	43.7	43.7	43.7	43.7	43.7	43.7	38.3	38.3	38.3	32.7
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°	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4
2.5°	4181.9	4170.9	4203.7	4192.8	4198.1	4170.9	4214.6	4192.8	4219.9	4192.8	4247.3
5°	4110.8	4099.9	4149.1	4143.5	4149.1	4127.3	4176.3	4170.9	4203.7	4181.9	4241.8
7.5°	4034.4	4023.5	4078.1	4083.6	4094.5	4072.7	4138.2	4138.2	4170.9	4165.4	4230.9
10°	3947.1	3952.4	4007.0	4017.9	4040.0	4029.1	4089.0	4105.5	4149.1	4143.5	4225.5
12.5°	3865.1	3865.1	3936.2	3958.0	3974.3	3968.9	4040.0	4061.8	4110.8	4121.7	4198.1
15°	3783.4	3788.7	3854.2	3887.0	3908.8	3903.4	3979.8	4007.0	4067.1	4072.7	4165.4
17.5°	3717.7	3712.3	3783.4	3810.6	3843.3	3837.9	3919.7	3952.4	4012.6	4029.1	4116.4
20°	3663.1	3657.8	3723.2	3756.0	3777.8	3772.5	3854.2	3892.5	3947.1	3958.0	4045.3
22.5°	3597.6	3586.7	3652.2	3679.6	3701.4	3695.8	3766.9	3794.3	3848.9	3859.8	3941.5
25°	3521.2	3510.3	3570.4	3586.7	3603.2	3592.3	3652.2	3668.7	3712.3	3723.2	3805.2
27.5°	3433.9	3406.5	3455.7	3455.7	3466.7	3450.2	3494.0	3510.3	3548.6	3548.6	3625.0
30°	3297.4	3259.3	3286.5	3281.1	3286.5	3264.6	3292.0	3297.4	3324.8	3319.2	3373.8
32.5°	3106.3	3051.7	3068.2	3051.7	3035.4	3002.7	3035.4	3024.5	3046.3	3024.5	3073.5
35°	2844.3	2789.8	2784.2	2762.4	2746.1	2718.7	2718.7	2691.5	2696.9	2680.6	2713.4
37.5°	2560.3	2489.5	2478.6	2434.9	2407.5	2374.8	2374.8	2353.0	2325.6	2314.7	2342.1
40°	2281.9	2205.5	2178.3	2107.3	2079.9	2047.2	2025.3	1998.2	1987.2	1943.6	1965.4
42.5°	2041.8	1959.8	1899.9	1823.3	1796.1	1746.9	1714.2	1681.4	1665.2	1615.9	1637.8
45°	1839.8	1741.6	1676.1	1577.6	1539.5	1485.0	1435.8	1397.7	1359.4	1337.5	1326.6
47.5°	1670.5	1566.7	1479.4	1370.3	1310.1	1261.1	1195.6	1157.3	1108.3	1080.9	1064.5
50°	1528.6	1413.9	1315.7	1190.1	1130.2	1075.6	999.0	939.0	895.4	851.7	840.8
52.5°	1403.0	1283.0	1173.8	1031.7	960.9	895.4	813.4	747.9	709.6	660.6	655.1
55°	1255.6	1152.0	1031.7	884.5	813.4	747.9	660.6	595.1	545.9	513.2	502.3
57.5°	1097.4	999.0	884.5	737.0	666.0	595.1	513.2	453.0	409.4	382.2	376.6
60°	950.0	857.1	747.9	600.5	529.4	469.5	382.2	322.1	284.0	261.9	251.0
62.5°	840.8	753.3	649.7	513.2	447.7	387.6	305.8	251.0	218.3	196.5	185.5
65°	737.0	649.7	556.8	431.2	376.6	322.1	245.7	196.5	163.7	141.9	131.0
67.5°	627.9	551.5	464.0	360.4	305.8	261.9	196.5	152.8	125.6	109.1	98.2
70°	518.5	447.7	376.6	289.3	251.0	207.4	152.8	120.1	92.9	82.0	71.0
72.5°	409.4	354.8	294.9	223.8	191.1	163.7	120.1	87.3	71.0	60.1	49.2
75°	305.8	267.5	218.3	169.3	141.9	120.1	87.3	65.5	54.6	43.7	38.3
77.5°	218.3	185.5	152.8	114.7	103.8	87.3	60.1	49.2	38.3	27.4	21.8
80°	147.4	131.0	103.8	82.0	65.5	60.1	43.7	32.7	21.8	16.5	16.5
82.5°	98.2	82.0	65.5	49.2	43.7	38.3	27.4	21.8	16.5	10.9	10.9
85°	60.1	49.2	38.3	27.4	27.4	21.8	16.5	10.9	5.6	5.6	5.6
87.5°	27.4	21.8	16.5	10.9	10.9	5.6	5.6	5.6	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°	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4
2.5°	4291.0	4258.3	4236.4	4263.6	4274.5	4258.3	4274.5	4301.9	4329.3	4334.7	4258.3
5°	4296.6	4263.6	4252.7	4285.4	4291.0	4285.4	4301.9	4340.2	4373.0	4383.9	4307.5
7.5°	4296.6	4274.5	4269.2	4307.5	4312.8	4307.5	4334.7	4378.3	4411.1	4432.9	4356.5
10°	4285.4	4274.5	4280.1	4312.8	4323.7	4323.7	4362.0	4411.1	4443.8	4465.6	4389.2
12.5°	4269.2	4269.2	4269.2	4307.5	4318.4	4323.7	4356.5	4422.0	4443.8	4476.5	4400.1
15°	4241.8	4241.8	4241.8	4280.1	4296.6	4296.6	4334.7	4394.8	4422.0	4454.7	4378.3
17.5°	4192.8	4192.8	4198.1	4230.9	4247.3	4247.3	4285.4	4351.1	4367.4	4405.7	4329.3
20°	4121.7	4121.7	4127.3	4160.0	4176.3	4165.4	4214.6	4269.2	4285.4	4318.4	4241.8
22.5°	4017.9	4017.9	4017.9	4050.9	4061.8	4056.2	4105.5	4154.5	4154.5	4198.1	4116.4
25°	3865.1	3876.0	3865.1	3897.9	3908.8	3903.4	3947.1	3990.7	3979.8	4029.1	3947.1
27.5°	3679.6	3674.0	3674.0	3701.4	3701.4	3695.8	3728.6	3777.8	3766.9	3799.6	3723.2
30°	3423.0	3439.3	3412.1	3450.2	3433.9	3423.0	3444.8	3488.5	3472.0	3499.4	3439.3
32.5°	3128.1	3106.3	3106.3	3106.3	3117.2	3090.0	3111.8	3133.7	3117.2	3144.6	3079.1
35°	2740.5	2746.1	2729.6	2735.2	2740.5	2707.8	2729.6	2751.4	2729.6	2746.1	2686.0
37.5°	2353.0	2358.3	2320.2	2342.1	2320.2	2309.3	2331.1	2342.1	2320.2	2336.5	2271.0
40°	1965.4	1954.5	1948.9	1948.9	1954.5	1927.1	1943.6	1959.8	1943.6	1954.5	1894.4
42.5°	1626.9	1621.5	1610.6	1615.9	1599.5	1594.1	1599.5	1615.9	1599.5	1610.6	1566.7
45°	1332.0	1321.0	1304.8	1310.1	1310.1	1283.0	1299.2	1310.1	1293.9	1299.2	1261.1
47.5°	1059.1	1042.6	1042.6	1037.3	1037.3	1026.4	1042.6	1037.3	1020.8	1031.7	993.6
50°	824.3	813.4	813.4	813.4	813.4	797.0	802.5	813.4	797.0	797.0	775.1
52.5°	644.2	627.9	617.0	617.0	617.0	611.4	611.4	617.0	600.5	600.5	595.1
55°	485.8	480.4	464.0	464.0	464.0	447.7	453.0	453.0	447.7	447.7	431.2
57.5°	360.4	343.9	333.0	333.0	322.1	322.1	316.7	322.1	311.2	311.2	300.2
60°	240.1	229.2	223.8	218.3	218.3	212.9	218.3	212.9	212.9	207.4	202.0
62.5°	174.6	163.7	152.8	152.8	152.8	147.4	147.4	147.4	147.4	147.4	141.9
65°	125.6	114.7	114.7	109.1	109.1	103.8	103.8	103.8	103.8	103.8	98.2
67.5°	87.3	82.0	76.4	76.4	76.4	76.4	76.4	76.4	71.0	71.0	71.0
70°	65.5	60.1	54.6	54.6	54.6	54.6	54.6	49.2	54.6	54.6	49.2
72.5°	43.7	43.7	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
75°	32.7	32.7	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
77.5°	21.8	21.8	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
80°	16.5	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
82.5°	10.9	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
85°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	0.0
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



TEST NUMBER: P859592

CATALOG NUMBER: LX4C75D010 EX4C759040 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4	4236.4
2.5°	4340.2	4334.7	4323.7	4340.2	4296.6	4280.1	4274.5	4323.7
5°	4400.1	4389.2	4389.2	4405.7	4356.5	4345.6	4334.7	4389.2
7.5°	4454.7	4443.8	4443.8	4460.3	4416.6	4405.7	4394.8	4449.4
10°	4487.5	4487.5	4487.5	4498.4	4460.3	4449.4	4443.8	4498.4
12.5°	4503.9	4503.9	4498.4	4520.2	4471.2	4471.2	4460.3	4514.8
15°	4482.1	4482.1	4482.1	4498.4	4454.7	4443.8	4443.8	4487.5
17.5°	4427.5	4427.5	4422.0	4438.4	4389.2	4389.2	4383.9	4432.9
20°	4345.6	4345.6	4334.7	4356.5	4307.5	4291.0	4285.4	4334.7
22.5°	4214.6	4209.0	4203.7	4214.6	4170.9	4160.0	4154.5	4198.1
25°	4045.3	4040.0	4029.1	4040.0	3990.7	3974.3	3974.3	4007.0
27.5°	3805.2	3805.2	3788.7	3805.2	3750.4	3745.1	3739.5	3777.8
30°	3510.3	3488.5	3477.6	3499.4	3444.8	3444.8	3433.9	3472.0
32.5°	3144.6	3122.7	3117.2	3128.1	3079.1	3062.6	3084.4	3106.3
35°	2724.3	2729.6	2707.8	2707.8	2664.1	2669.5	2675.1	2707.8
37.5°	2320.2	2309.3	2303.8	2309.3	2276.6	2265.7	2254.7	2287.5
40°	1943.6	1916.2	1910.8	1910.8	1883.4	1878.1	1883.4	1899.9
42.5°	1588.6	1583.2	1561.4	1572.3	1544.9	1555.8	1550.5	1550.5
45°	1283.0	1288.3	1266.5	1283.0	1261.1	1244.6	1244.6	1255.6
47.5°	1015.4	1015.4	1009.9	1009.9	993.6	999.0	988.1	1004.5
50°	786.0	786.0	775.1	780.7	769.8	769.8	764.2	769.8
52.5°	600.5	595.1	595.1	589.6	578.7	584.2	589.6	578.7
55°	436.8	442.1	431.2	436.8	425.9	431.2	425.9	431.2
57.5°	300.2	305.8	294.9	305.8	294.9	300.2	294.9	294.9
60°	207.4	207.4	202.0	207.4	202.0	202.0	196.5	207.4
62.5°	141.9	141.9	141.9	141.9	141.9	136.5	141.9	141.9
65°	103.8	98.2	98.2	98.2	98.2	98.2	98.2	98.2
67.5°	71.0	71.0	71.0	71.0	71.0	71.0	71.0	71.0
70°	49.2	49.2	49.2	49.2	49.2	49.2	49.2	49.2
72.5°	38.3	38.3	38.3	38.3	38.3	38.3	38.3	38.3
75°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	27.4
77.5°	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5
80°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
82.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
85°	5.6	5.6	5.6	0.0	5.6	0.0	0.0	0.0
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)