

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: P856717

Luminaire Tested: **LX4C100D010 EX4C1009030 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P856717
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: LX4C100D010 EX4C1009030 4LBLWW*
Description: 4 INCH 10000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

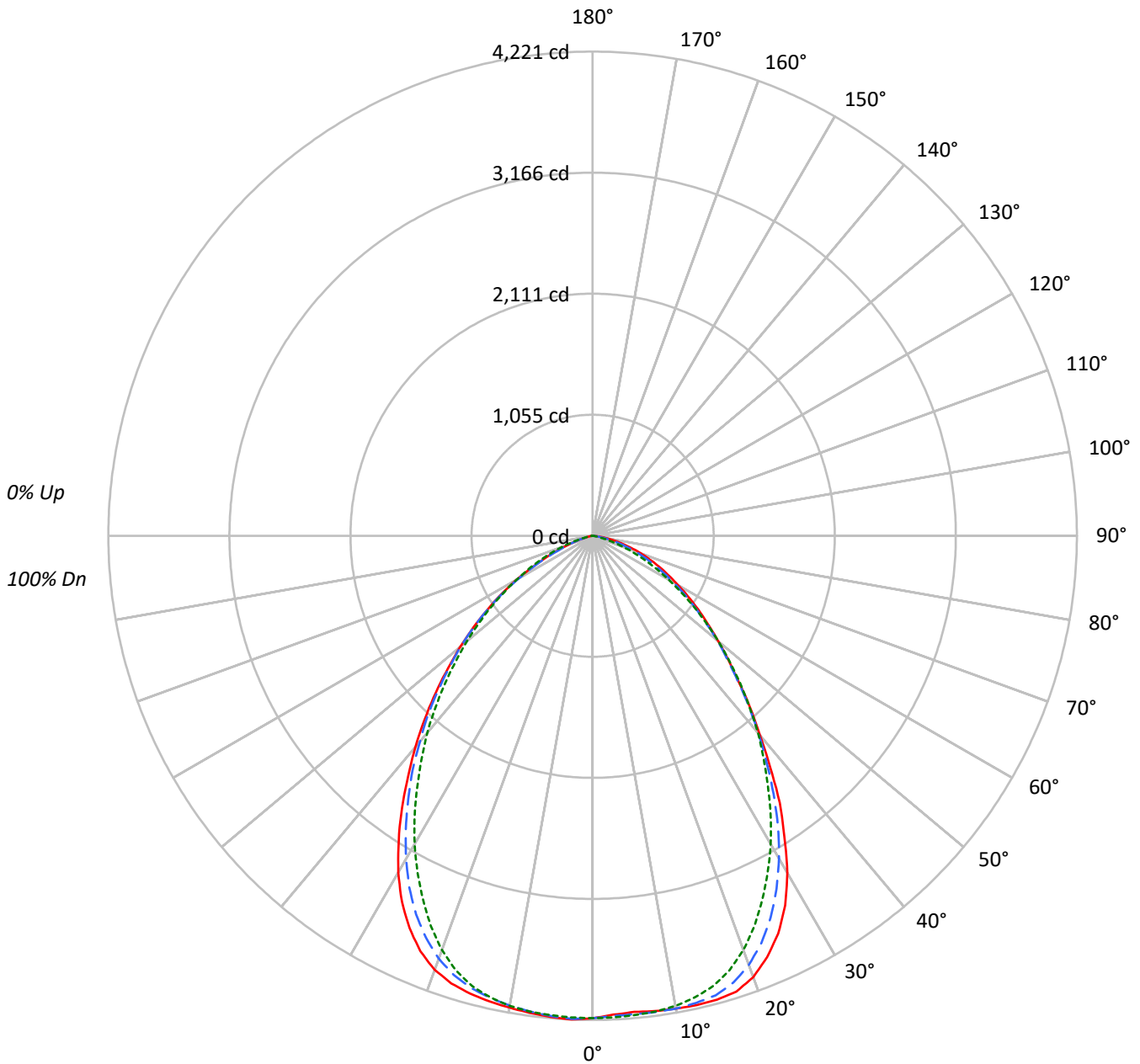
Lumens per Lamp: N/A
Luminaire Lumens: 8063.0 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 114.4
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°	516673	516673	516673
5°	513787	517290	519238
10°	522285	519129	521100
15°	532495	516825	525462
20°	535176	502347	526299
25°	518710	474398	511648
30°	481455	440231	480561
35°	426338	399342	434392
40°	363455	359654	385234
45°	312247	315826	335581
50°	272565	273177	287664
55°	240855	230702	238477
60°	211087	188212	187425
65°	186859	145988	129912
70°	159413	100396	77156
75°	128920	53970	35220
80°	88294	13442	8914
85°	26782	4511	4511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.7	5.0
10°-20°	1157.1	14.4
20°-30°	1671.9	20.7
30°-40°	1728.4	21.4
40°-50°	1428.1	17.7
50°-60°	985.6	12.2
60°-70°	516.0	6.4
70°-80°	162.4	2.0
80°-90°	13.8	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°	3228.7	40.0
0°-40°	4957.1	61.5
0°-60°	7370.8	91.4
0°-90°	8063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8063.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	4206	4206	4206	4206	4206	
5°	4166	4187	4195	4202	4210	399
15°	4187	4147	4064	4082	4131	1181
25°	3827	3672	3500	3640	3774	1747
35°	2843	2748	2663	2802	2896	1764
45°	1797	1789	1818	1902	1932	1401
55°	1124	1090	1077	1107	1113	1010
65°	643	583	502	417	447	637
75°	272	213	114	77	74	291
85°	19	10	3	3	3	39
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°	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6
2.5°	4178.8	4180.4	4180.4	4183.5	4183.5	4183.5	4185.1	4185.1	4186.7	4188.3	4189.9
5°	4166.2	4166.2	4169.3	4170.9	4174.1	4175.6	4178.8	4180.4	4183.5	4185.1	4186.7
7.5°	4178.8	4178.8	4180.4	4182.0	4182.0	4183.5	4183.5	4185.1	4186.7	4188.3	4188.3
10°	4186.7	4186.7	4186.7	4186.7	4188.3	4188.3	4188.3	4186.7	4186.7	4186.7	4185.1
12.5°	4189.9	4189.9	4188.3	4186.7	4188.3	4186.7	4186.7	4182.0	4178.8	4175.6	4170.9
15°	4186.7	4186.7	4185.1	4183.5	4182.0	4178.8	4177.2	4169.3	4163.0	4153.5	4147.2
17.5°	4166.2	4163.0	4159.8	4156.7	4150.4	4145.6	4142.5	4128.3	4117.2	4101.4	4084.0
20°	4093.5	4090.4	4085.6	4077.7	4069.8	4063.5	4054.0	4033.5	4022.5	3998.8	3981.4
22.5°	3975.1	3971.9	3973.5	3959.3	3943.5	3934.0	3927.7	3910.3	3891.4	3861.4	3842.4
25°	3826.6	3817.1	3817.1	3795.0	3787.1	3780.8	3772.9	3752.4	3724.0	3697.1	3671.8
27.5°	3633.9	3621.3	3615.0	3611.8	3592.9	3578.7	3567.6	3551.8	3528.1	3504.4	3469.7
30°	3393.9	3392.3	3384.4	3370.2	3356.0	3349.7	3337.0	3310.2	3288.1	3270.7	3248.6
32.5°	3111.2	3109.6	3109.6	3109.6	3100.1	3098.6	3079.6	3065.4	3048.0	3021.2	3007.0
35°	2842.7	2841.1	2842.7	2819.0	2812.7	2808.0	2806.4	2796.9	2773.2	2760.6	2748.0
37.5°	2539.5	2544.2	2541.1	2534.8	2542.7	2528.4	2539.5	2519.0	2509.5	2506.3	2492.1
40°	2266.3	2278.9	2266.3	2267.9	2275.8	2261.5	2261.5	2258.4	2252.1	2248.9	2245.7
42.5°	2032.5	2016.8	2026.2	2018.3	2026.2	2021.5	2013.6	2018.3	2019.9	2013.6	2012.0
45°	1797.2	1800.4	1803.5	1798.8	1798.8	1794.1	1806.7	1798.8	1798.8	1800.4	1789.3
47.5°	1606.1	1601.4	1604.6	1601.4	1603.0	1599.8	1603.0	1604.6	1601.4	1601.4	1591.9
50°	1426.1	1422.9	1434.0	1424.5	1424.5	1422.9	1424.5	1421.4	1416.6	1416.6	1419.8
52.5°	1269.7	1263.4	1261.9	1269.7	1258.7	1258.7	1260.3	1257.1	1250.8	1247.6	1239.7
55°	1124.5	1122.9	1124.5	1118.1	1115.0	1115.0	1107.1	1103.9	1102.3	1094.4	1089.7
57.5°	988.6	983.9	985.5	983.9	977.6	976.0	969.7	969.7	963.4	957.0	949.2
60°	859.1	859.1	863.9	857.6	852.8	849.7	846.5	843.3	832.3	821.2	811.8
62.5°	743.8	745.4	743.8	739.1	735.9	732.8	729.6	720.2	710.7	704.4	693.3
65°	642.8	641.2	636.5	633.3	625.4	625.4	619.1	614.3	603.3	593.8	582.8
67.5°	538.5	535.4	535.4	535.4	525.9	524.3	521.2	511.7	502.2	489.6	480.1
70°	443.8	446.9	442.2	437.5	432.7	431.1	426.4	416.9	405.9	393.2	385.3
72.5°	353.8	356.9	352.2	350.6	341.1	338.0	336.4	328.5	315.9	308.0	295.3
75°	271.6	273.2	270.1	266.9	260.6	259.0	251.1	244.8	236.9	224.3	213.2
77.5°	195.8	192.7	192.7	186.4	180.0	180.0	178.5	169.0	157.9	148.5	139.0
80°	124.8	123.2	118.4	115.3	110.6	109.0	107.4	99.5	91.6	85.3	79.0
82.5°	63.2	61.6	60.0	58.4	55.3	52.1	53.7	47.4	44.2	37.9	33.2
85°	19.0	20.5	20.5	19.0	17.4	17.4	17.4	15.8	12.6	11.1	9.5
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°	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6
2.5°	4191.4	4193.0	4194.6	4196.2	4196.2	4197.8	4199.3	4200.9	4202.5	4202.5	4204.1
5°	4188.3	4191.4	4191.4	4193.0	4193.0	4193.0	4194.6	4194.6	4194.6	4194.6	4196.2
7.5°	4189.9	4189.9	4189.9	4188.3	4188.3	4186.7	4186.7	4186.7	4183.5	4183.5	4183.5
10°	4182.0	4180.4	4178.8	4175.6	4174.1	4172.5	4169.3	4166.2	4163.0	4161.4	4158.3
12.5°	4166.2	4159.8	4153.5	4147.2	4144.1	4142.5	4136.2	4131.4	4126.7	4121.9	4118.8
15°	4134.6	4125.1	4114.0	4101.4	4098.3	4095.1	4084.0	4074.6	4068.2	4063.5	4055.6
17.5°	4071.4	4052.5	4039.8	4020.9	4013.0	4009.8	3992.4	3983.0	3971.9	3968.8	3962.4
20°	3959.3	3941.9	3918.2	3900.8	3891.4	3881.9	3867.7	3855.0	3842.4	3842.4	3834.5
22.5°	3818.7	3796.6	3766.6	3744.5	3742.9	3724.0	3711.3	3697.1	3692.4	3682.9	3682.9
25°	3641.8	3622.9	3589.7	3570.8	3561.3	3556.6	3536.0	3517.1	3507.6	3499.7	3506.0
27.5°	3446.0	3417.6	3392.3	3368.6	3360.7	3351.3	3332.3	3324.4	3307.0	3305.5	3303.9
30°	3221.8	3193.3	3168.1	3157.0	3141.2	3133.3	3119.1	3109.6	3103.3	3103.3	3100.1
32.5°	2986.4	2961.2	2948.5	2924.8	2916.9	2905.9	2896.4	2886.9	2890.1	2886.9	2888.5
35°	2732.2	2725.9	2702.2	2688.0	2688.0	2686.4	2670.6	2664.3	2661.1	2662.7	2670.6
37.5°	2490.5	2471.6	2455.8	2446.3	2454.2	2444.7	2443.2	2443.2	2452.6	2446.3	2459.0
40°	2233.1	2231.5	2225.2	2228.4	2230.0	2218.9	2222.1	2223.6	2230.0	2242.6	2244.2
42.5°	2008.9	2007.3	2007.3	2007.3	2004.1	1997.8	2004.1	2015.2	2013.6	2023.1	2031.0
45°	1792.5	1789.3	1795.7	1790.9	1800.4	1803.5	1798.8	1802.0	1811.4	1817.8	1830.4
47.5°	1595.1	1595.1	1596.7	1599.8	1590.3	1598.2	1601.4	1607.7	1612.5	1615.6	1621.9
50°	1411.9	1411.9	1408.7	1408.7	1408.7	1413.5	1407.1	1415.0	1416.6	1429.3	1437.2
52.5°	1242.9	1235.0	1239.7	1236.6	1230.3	1227.1	1230.3	1231.8	1241.3	1244.5	1254.0
55°	1081.8	1081.8	1069.2	1066.0	1070.8	1069.2	1067.6	1067.6	1072.3	1077.1	1085.0
57.5°	939.7	930.2	920.7	919.1	914.4	916.0	916.0	914.4	911.3	912.8	914.4
60°	805.4	799.1	784.9	784.9	783.3	781.7	773.9	772.3	764.4	766.0	759.6
62.5°	682.3	679.1	660.1	653.8	653.8	649.1	641.2	639.6	628.6	628.6	622.2
65°	571.7	562.2	551.2	540.1	540.1	533.8	529.1	514.8	507.0	502.2	492.7
67.5°	470.6	456.4	445.4	435.9	429.6	428.0	416.9	407.5	394.8	386.9	372.7
70°	372.7	361.7	350.6	341.1	334.8	328.5	317.4	303.2	293.7	279.5	270.1
72.5°	281.1	271.6	262.2	249.5	241.6	236.9	225.8	213.2	197.4	187.9	175.3
75°	202.1	191.1	178.5	167.4	162.7	157.9	145.3	135.8	124.8	113.7	101.1
77.5°	131.1	118.4	109.0	96.3	94.8	91.6	79.0	69.5	61.6	55.3	47.4
80°	69.5	63.2	55.3	47.4	44.2	39.5	33.2	28.4	23.7	19.0	15.8
82.5°	30.0	25.3	20.5	17.4	15.8	14.2	11.1	9.5	7.9	7.9	6.3
85°	7.9	6.3	6.3	4.7	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	0.0	1.6	1.6	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°	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6
2.5°	4205.6	4207.2	4208.8	4208.8	4210.4	4212.0	4212.0	4213.5	4215.1	4216.7	4216.7
5°	4197.8	4197.8	4197.8	4199.3	4199.3	4199.3	4199.3	4202.5	4202.5	4204.1	4205.6
7.5°	4182.0	4182.0	4182.0	4182.0	4180.4	4182.0	4180.4	4180.4	4183.5	4185.1	4186.7
10°	4156.7	4155.1	4155.1	4153.5	4153.5	4153.5	4155.1	4156.7	4158.3	4159.8	4164.6
12.5°	4117.2	4115.6	4115.6	4114.0	4114.0	4115.6	4117.2	4120.4	4126.7	4129.8	4136.2
15°	4054.0	4052.5	4054.0	4055.6	4058.8	4063.5	4068.2	4073.0	4082.5	4090.4	4098.3
17.5°	3962.4	3964.0	3965.6	3968.8	3973.5	3979.8	3992.4	4005.1	4016.1	4028.8	4041.4
20°	3836.1	3842.4	3844.0	3855.0	3858.2	3872.4	3886.6	3905.6	3923.0	3938.7	3956.1
22.5°	3684.5	3689.2	3695.5	3708.2	3716.1	3735.0	3752.4	3774.5	3793.5	3814.0	3839.3
25°	3512.3	3513.9	3532.9	3532.9	3551.8	3567.6	3588.1	3611.8	3640.3	3667.1	3684.5
27.5°	3316.5	3324.4	3338.6	3344.9	3359.1	3384.4	3401.8	3430.2	3458.6	3482.3	3501.3
30°	3111.2	3117.5	3141.2	3144.4	3155.4	3177.5	3201.2	3228.1	3250.2	3277.0	3294.4
32.5°	2894.8	2912.2	2926.4	2937.5	2940.6	2973.8	2986.4	3005.4	3030.7	3057.5	3074.9
35°	2684.8	2692.7	2713.2	2719.5	2729.0	2748.0	2773.2	2789.0	2801.7	2819.0	2839.6
37.5°	2462.1	2485.8	2490.5	2509.5	2512.6	2530.0	2542.7	2561.6	2577.4	2593.2	2596.4
40°	2255.2	2263.1	2280.5	2285.2	2288.4	2312.1	2327.9	2332.6	2340.5	2354.7	2373.7
42.5°	2045.2	2053.1	2072.0	2067.3	2081.5	2092.6	2100.5	2119.4	2127.3	2132.0	2132.0
45°	1838.3	1841.5	1854.1	1860.4	1868.3	1874.6	1888.8	1898.3	1901.5	1915.7	1920.4
47.5°	1640.9	1644.0	1653.5	1664.6	1661.4	1669.3	1685.1	1689.8	1691.4	1700.9	1705.6
50°	1446.6	1454.5	1467.2	1464.0	1473.5	1478.2	1492.4	1495.6	1495.6	1497.2	1498.7
52.5°	1265.0	1271.3	1274.5	1277.6	1282.4	1290.3	1296.6	1293.4	1299.8	1306.1	1301.3
55°	1085.0	1089.7	1097.6	1100.8	1100.8	1102.3	1099.2	1113.4	1107.1	1105.5	1107.1
57.5°	920.7	914.4	912.8	920.7	923.9	922.3	917.6	923.9	923.9	920.7	916.0
60°	761.2	756.5	754.9	756.5	750.2	745.4	748.6	745.4	737.5	734.4	735.9
62.5°	615.9	611.2	598.6	598.6	595.4	593.8	581.2	582.8	576.4	567.0	570.1
65°	481.7	469.0	462.7	461.2	450.1	440.6	437.5	426.4	416.9	415.4	416.9
67.5°	361.7	347.4	336.4	331.7	325.3	317.4	306.4	296.9	300.1	298.5	304.8
70°	251.1	241.6	230.6	222.7	225.8	216.4	210.0	210.0	211.6	213.2	216.4
72.5°	167.4	154.8	150.0	145.3	142.1	135.8	139.0	139.0	137.4	139.0	135.8
75°	94.8	88.4	83.7	82.1	79.0	79.0	79.0	79.0	77.4	75.8	75.8
77.5°	42.6	39.5	37.9	36.3	36.3	36.3	34.7	33.2	33.2	33.2	31.6
80°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
82.5°	6.3	6.3	7.9	7.9	7.9	6.3	7.9	7.9	6.3	6.3	7.9
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	1.6	1.6	1.6	0.0	1.6	1.6	1.6	1.6	0.0	1.6	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: P856717

CATALOG NUMBER: LX4C100D010 EX4C1009030 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6	4205.6
2.5°	4218.3	4219.9	4219.9	4219.9	4221.4	4221.4	4221.4	4221.4
5°	4207.2	4208.8	4208.8	4208.8	4210.4	4210.4	4210.4	4210.4
7.5°	4188.3	4189.9	4189.9	4191.4	4191.4	4193.0	4193.0	4194.6
10°	4166.2	4169.3	4170.9	4172.5	4174.1	4175.6	4175.6	4177.2
12.5°	4142.5	4145.6	4147.2	4150.4	4153.5	4155.1	4156.7	4158.3
15°	4107.7	4114.0	4117.2	4118.8	4125.1	4128.3	4129.8	4131.4
17.5°	4052.5	4065.1	4069.8	4073.0	4079.3	4085.6	4090.4	4091.9
20°	3973.5	3987.7	3994.0	4001.9	4011.4	4019.3	4022.5	4025.6
22.5°	3862.9	3878.7	3888.2	3897.7	3905.6	3913.5	3926.1	3921.4
25°	3705.0	3731.9	3742.9	3747.7	3765.0	3774.5	3780.8	3774.5
27.5°	3528.1	3543.9	3553.4	3564.5	3577.1	3586.6	3589.7	3599.2
30°	3314.9	3341.8	3340.2	3351.3	3367.0	3376.5	3379.7	3387.6
32.5°	3093.8	3106.5	3115.9	3114.4	3120.7	3138.0	3131.7	3145.9
35°	2858.5	2860.1	2875.9	2874.3	2886.9	2886.9	2886.9	2896.4
37.5°	2607.4	2626.4	2618.5	2637.4	2631.1	2635.8	2635.8	2639.0
40°	2378.4	2384.7	2384.7	2391.0	2395.8	2391.0	2394.2	2402.1
42.5°	2141.5	2147.8	2149.4	2146.3	2151.0	2165.2	2154.2	2163.6
45°	1920.4	1925.2	1931.5	1926.7	1934.6	1929.9	1934.6	1931.5
47.5°	1711.9	1710.4	1708.8	1721.4	1710.4	1711.9	1718.3	1707.2
50°	1498.7	1508.2	1501.9	1506.6	1509.8	1509.8	1505.1	1505.1
52.5°	1309.2	1307.7	1302.9	1307.7	1304.5	1306.1	1309.2	1306.1
55°	1113.4	1119.7	1116.6	1115.0	1116.6	1116.6	1126.0	1113.4
57.5°	920.7	917.6	922.3	933.4	922.3	930.2	934.9	936.5
60°	737.5	737.5	747.0	742.3	751.7	759.6	766.0	762.8
62.5°	562.2	570.1	573.3	574.9	584.3	590.7	590.7	589.1
65°	416.9	428.0	428.0	434.3	437.5	437.5	440.6	446.9
67.5°	308.0	308.0	309.5	312.7	311.1	311.1	314.3	315.9
70°	214.8	211.6	216.4	214.8	214.8	213.2	214.8	214.8
72.5°	135.8	135.8	137.4	135.8	132.7	134.2	134.2	137.4
75°	72.6	75.8	72.6	72.6	74.2	71.1	72.6	74.2
77.5°	30.0	30.0	30.0	30.0	30.0	28.4	28.4	28.4
80°	14.2	14.2	14.2	14.2	14.2	14.2	12.6	12.6
82.5°	6.3	7.9	6.3	7.9	6.3	6.3	6.3	6.3
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	0.0	1.6	0.0	1.6	0.0	0.0	0.0	1.6
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)