

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: P859148

Luminaire Tested: **LX4C55D010 EX4C559050 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859148
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: LX4C55D010 EX4C559050 4LBLWW*
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

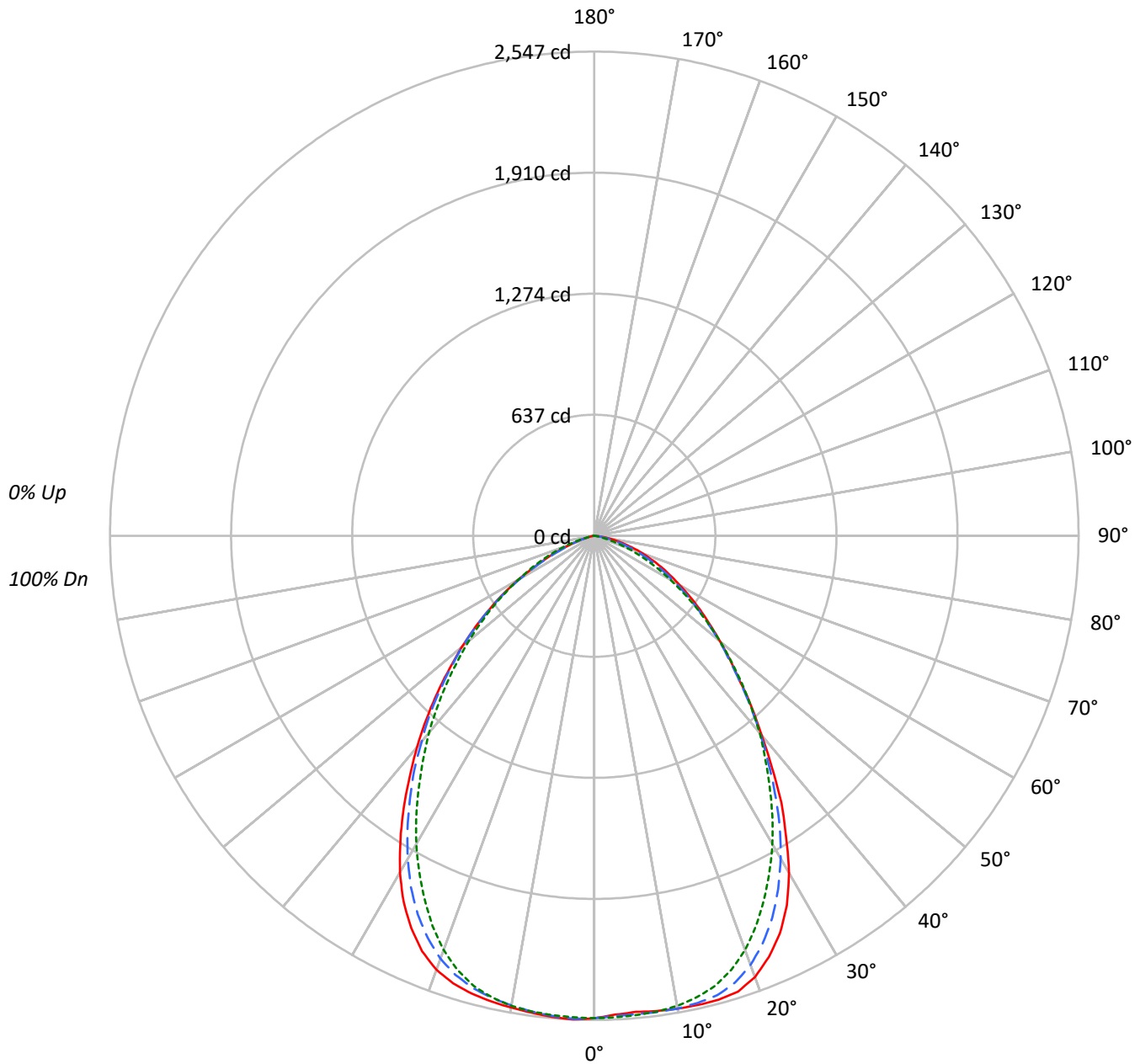
Lumens per Lamp: N/A
Luminaire Lumens: 4865.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
Input Voltage (V):
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	109	105	102	99		101	99	96		97	95	93		94	92	91
2	103	96	91	86	101	95	89	85		91	87	83		88	84	81		85	82	80
3	95	87	80	74	93	85	79	74		82	77	72		80	75	71		77	73	70
4	88	78	71	65	86	77	70	65		75	69	64		72	67	63		70	66	62
5	82	71	63	57	80	70	63	57		68	61	57		66	60	56		64	59	55
6	76	65	57	51	75	64	56	51		62	56	51		61	55	50		59	54	50
7	71	59	51	46	70	59	51	46		57	50	46		56	50	45		54	49	45
8	67	55	47	42	65	54	47	42		53	46	41		52	46	41		50	45	41
9	63	51	43	38	61	50	43	38		49	42	38		48	42	38		47	41	37
10	59	47	40	35	58	46	39	35		45	39	35		45	39	35		44	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	311753	311753	311753
5°	310009	312118	313289
10°	315128	313231	314417
15°	321288	311838	317052
20°	322910	303103	317549
25°	312980	286235	308710
30°	290499	265631	289960
35°	257240	240952	262099
40°	219295	217002	232446
45°	188405	190559	202478
50°	164464	164827	173562
55°	145327	139201	143892
60°	127374	113566	113099
65°	112732	88081	78401
70°	96194	60597	46552
75°	77798	32562	21265
80°	53274	8065	5377
85°	16069	2678	2678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	5.0
10°-20°	698.1	14.4
20°-30°	1008.8	20.7
30°-40°	1042.9	21.4
40°-50°	861.7	17.7
50°-60°	594.7	12.2
60°-70°	311.3	6.4
70°-80°	98.0	2.0
80°-90°	8.3	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°	1948.1	40.0
0°-40°	2991.0	61.5
0°-60°	4447.3	91.4
0°-90°	4865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4865.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2538	2538	2538	2538	2538	
5°	2514	2526	2531	2536	2540	241
15°	2526	2502	2452	2463	2493	713
25°	2309	2216	2112	2196	2277	1054
35°	1715	1658	1607	1690	1748	1065
45°	1084	1080	1097	1147	1165	845
55°	678	658	650	668	672	610
65°	388	352	303	252	270	384
75°	164	129	69	47	45	176
85°	11	6	2	2	2	24
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°	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6
2.5°	2521.4	2522.3	2522.3	2524.2	2524.2	2524.2	2525.2	2525.2	2526.1	2527.1	2528.0
5°	2513.8	2513.8	2515.7	2516.6	2518.5	2519.5	2521.4	2522.3	2524.2	2525.2	2526.1
7.5°	2521.4	2521.4	2522.3	2523.3	2523.3	2524.2	2524.2	2525.2	2526.1	2527.1	2527.1
10°	2526.1	2526.1	2526.1	2526.1	2527.1	2527.1	2527.1	2526.1	2526.1	2526.1	2525.2
12.5°	2528.0	2528.0	2527.1	2526.1	2527.1	2526.1	2526.1	2523.3	2521.4	2519.5	2516.6
15°	2526.1	2526.1	2525.2	2524.2	2523.3	2521.4	2520.4	2515.7	2511.8	2506.1	2502.3
17.5°	2513.8	2511.8	2509.9	2508.0	2504.2	2501.4	2499.5	2490.9	2484.2	2474.7	2464.2
20°	2469.9	2468.0	2465.2	2460.4	2455.6	2451.8	2446.1	2433.7	2427.0	2412.7	2402.3
22.5°	2398.5	2396.5	2397.5	2388.9	2379.4	2373.7	2369.9	2359.4	2347.9	2329.8	2318.4
25°	2308.9	2303.2	2303.2	2289.8	2285.1	2281.2	2276.5	2264.1	2246.9	2230.7	2215.5
27.5°	2192.6	2185.0	2181.2	2179.3	2167.9	2159.3	2152.6	2143.1	2128.8	2114.5	2093.5
30°	2047.8	2046.8	2042.1	2033.5	2024.9	2021.1	2013.5	1997.3	1983.9	1973.5	1960.1
32.5°	1877.2	1876.3	1876.3	1876.3	1870.5	1869.6	1858.2	1849.6	1839.1	1822.9	1814.3
35°	1715.2	1714.3	1715.2	1700.9	1697.1	1694.3	1693.3	1687.6	1673.3	1665.7	1658.0
37.5°	1532.3	1535.1	1533.2	1529.4	1534.2	1525.6	1532.3	1519.9	1514.2	1512.3	1503.7
40°	1367.4	1375.0	1367.4	1368.4	1373.1	1364.6	1364.6	1362.6	1358.8	1356.9	1355.0
42.5°	1226.4	1216.9	1222.6	1217.8	1222.6	1219.7	1214.9	1217.8	1218.8	1214.9	1214.0
45°	1084.4	1086.3	1088.2	1085.4	1085.4	1082.5	1090.1	1085.4	1085.4	1086.3	1079.6
47.5°	969.1	966.2	968.1	966.2	967.2	965.3	967.2	968.1	966.2	966.2	960.5
50°	860.5	858.6	865.2	859.5	859.5	858.6	859.5	857.6	854.8	854.8	856.7
52.5°	766.1	762.3	761.4	766.1	759.5	759.5	760.4	758.5	754.7	752.8	748.0
55°	678.5	677.5	678.5	674.7	672.7	672.7	668.0	666.1	665.1	660.4	657.5
57.5°	596.5	593.7	594.6	593.7	589.8	588.9	585.1	585.1	581.3	577.5	572.7
60°	518.4	518.4	521.2	517.4	514.6	512.7	510.8	508.8	502.2	495.5	489.8
62.5°	448.8	449.8	448.8	446.0	444.1	442.1	440.2	434.5	428.8	425.0	418.3
65°	387.8	386.9	384.0	382.1	377.3	377.3	373.5	370.7	364.0	358.3	351.6
67.5°	324.9	323.0	323.0	323.0	317.3	316.4	314.5	308.7	303.0	295.4	289.7
70°	267.8	269.7	266.8	264.0	261.1	260.1	257.3	251.6	244.9	237.3	232.5
72.5°	213.4	215.4	212.5	211.5	205.8	203.9	203.0	198.2	190.6	185.8	178.2
75°	163.9	164.9	162.9	161.0	157.2	156.3	151.5	147.7	142.9	135.3	128.6
77.5°	118.2	116.3	116.3	112.4	108.6	108.6	107.7	102.0	95.3	89.6	83.9
80°	75.3	74.3	71.5	69.6	66.7	65.8	64.8	60.0	55.3	51.5	47.6
82.5°	38.1	37.2	36.2	35.3	33.4	31.4	32.4	28.6	26.7	22.9	20.0
85°	11.4	12.4	12.4	11.4	10.5	10.5	10.5	9.5	7.6	6.7	5.7
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°	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6
2.5°	2529.0	2530.0	2530.9	2531.9	2531.9	2532.8	2533.8	2534.7	2535.7	2535.7	2536.6
5°	2527.1	2529.0	2529.0	2530.0	2530.0	2530.0	2530.9	2530.9	2530.9	2530.9	2531.9
7.5°	2528.0	2528.0	2528.0	2527.1	2527.1	2526.1	2526.1	2526.1	2524.2	2524.2	2524.2
10°	2523.3	2522.3	2521.4	2519.5	2518.5	2517.6	2515.7	2513.8	2511.8	2510.9	2509.0
12.5°	2513.8	2509.9	2506.1	2502.3	2500.4	2499.5	2495.6	2492.8	2489.9	2487.1	2485.2
15°	2494.7	2489.0	2482.3	2474.7	2472.8	2470.9	2464.2	2458.5	2454.7	2451.8	2447.1
17.5°	2456.6	2445.1	2437.5	2426.1	2421.3	2419.4	2408.9	2403.2	2396.5	2394.6	2390.8
20°	2388.9	2378.4	2364.1	2353.7	2347.9	2342.2	2333.7	2326.0	2318.4	2318.4	2313.6
22.5°	2304.1	2290.8	2272.7	2259.3	2258.4	2246.9	2239.3	2230.7	2227.9	2222.2	2222.2
25°	2197.4	2186.0	2165.9	2154.5	2148.8	2145.9	2133.5	2122.1	2116.4	2111.6	2115.4
27.5°	2079.2	2062.1	2046.8	2032.5	2027.8	2022.1	2010.6	2005.9	1995.4	1994.4	1993.5
30°	1943.9	1926.8	1911.5	1904.8	1895.3	1890.6	1882.0	1876.3	1872.5	1872.5	1870.5
32.5°	1801.9	1786.7	1779.1	1764.8	1760.0	1753.3	1747.6	1741.9	1743.8	1741.9	1742.9
35°	1648.5	1644.7	1630.4	1621.8	1621.8	1620.9	1611.4	1607.5	1605.6	1606.6	1611.4
37.5°	1502.7	1491.3	1481.8	1476.0	1480.8	1475.1	1474.1	1474.1	1479.9	1476.0	1483.7
40°	1347.4	1346.4	1342.6	1344.5	1345.5	1338.8	1340.7	1341.7	1345.5	1353.1	1354.1
42.5°	1212.1	1211.1	1211.1	1211.1	1209.2	1205.4	1209.2	1215.9	1214.9	1220.7	1225.4
45°	1081.5	1079.6	1083.4	1080.6	1086.3	1088.2	1085.4	1087.3	1093.0	1096.8	1104.4
47.5°	962.4	962.4	963.4	965.3	959.6	964.3	966.2	970.1	972.9	974.8	978.6
50°	851.9	851.9	850.0	850.0	850.0	852.8	849.0	853.8	854.8	862.4	867.1
52.5°	749.9	745.2	748.0	746.1	742.3	740.4	742.3	743.3	749.0	750.9	756.6
55°	652.7	652.7	645.1	643.2	646.1	645.1	644.2	644.2	647.0	649.9	654.6
57.5°	567.0	561.3	555.5	554.6	551.7	552.7	552.7	551.7	549.8	550.8	551.7
60°	486.0	482.2	473.6	473.6	472.6	471.7	466.9	466.0	461.2	462.2	458.3
62.5°	411.7	409.7	398.3	394.5	394.5	391.6	386.9	385.9	379.3	379.3	375.4
65°	345.0	339.2	332.6	325.9	325.9	322.1	319.2	310.6	305.9	303.0	297.3
67.5°	284.0	275.4	268.7	263.0	259.2	258.2	251.6	245.8	238.2	233.5	224.9
70°	224.9	218.2	211.5	205.8	202.0	198.2	191.5	183.0	177.2	168.7	162.9
72.5°	169.6	163.9	158.2	150.6	145.8	142.9	136.3	128.6	119.1	113.4	105.8
75°	122.0	115.3	107.7	101.0	98.1	95.3	87.7	81.9	75.3	68.6	61.0
77.5°	79.1	71.5	65.8	58.1	57.2	55.3	47.6	41.9	37.2	33.4	28.6
80°	41.9	38.1	33.4	28.6	26.7	23.8	20.0	17.2	14.3	11.4	9.5
82.5°	18.1	15.2	12.4	10.5	9.5	8.6	6.7	5.7	4.8	4.8	3.8
85°	4.8	3.8	3.8	2.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	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°	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6
2.5°	2537.6	2538.5	2539.5	2539.5	2540.4	2541.4	2541.4	2542.3	2543.3	2544.2	2544.2
5°	2532.8	2532.8	2532.8	2533.8	2533.8	2533.8	2533.8	2535.7	2535.7	2536.6	2537.6
7.5°	2523.3	2523.3	2523.3	2523.3	2522.3	2523.3	2522.3	2522.3	2524.2	2525.2	2526.1
10°	2508.0	2507.1	2507.1	2506.1	2506.1	2506.1	2507.1	2508.0	2509.0	2509.9	2512.8
12.5°	2484.2	2483.3	2483.3	2482.3	2482.3	2483.3	2484.2	2486.1	2489.9	2491.8	2495.6
15°	2446.1	2445.1	2446.1	2447.1	2449.0	2451.8	2454.7	2457.5	2463.3	2468.0	2472.8
17.5°	2390.8	2391.8	2392.7	2394.6	2397.5	2401.3	2408.9	2416.6	2423.2	2430.9	2438.5
20°	2314.6	2318.4	2319.4	2326.0	2327.9	2336.5	2345.1	2356.5	2367.0	2376.5	2387.0
22.5°	2223.1	2226.0	2229.8	2237.4	2242.2	2253.6	2264.1	2277.4	2288.9	2301.3	2316.5
25°	2119.3	2120.2	2131.6	2131.6	2143.1	2152.6	2165.0	2179.3	2196.4	2212.6	2223.1
27.5°	2001.1	2005.9	2014.4	2018.2	2026.8	2042.1	2052.5	2069.7	2086.9	2101.1	2112.6
30°	1877.2	1881.0	1895.3	1897.2	1903.9	1917.2	1931.5	1947.7	1961.1	1977.3	1987.8
32.5°	1746.7	1757.2	1765.7	1772.4	1774.3	1794.3	1801.9	1813.4	1828.6	1844.8	1855.3
35°	1619.9	1624.7	1637.1	1640.9	1646.6	1658.0	1673.3	1682.8	1690.4	1700.9	1713.3
37.5°	1485.6	1499.9	1502.7	1514.2	1516.1	1526.5	1534.2	1545.6	1555.1	1564.7	1566.6
40°	1360.7	1365.5	1376.0	1378.8	1380.8	1395.0	1404.6	1407.4	1412.2	1420.8	1432.2
42.5°	1234.0	1238.8	1250.2	1247.3	1255.9	1262.6	1267.4	1278.8	1283.6	1286.4	1286.4
45°	1109.2	1111.1	1118.7	1122.5	1127.3	1131.1	1139.7	1145.4	1147.3	1155.9	1158.7
47.5°	990.1	992.0	997.7	1004.4	1002.5	1007.2	1016.7	1019.6	1020.6	1026.3	1029.1
50°	872.9	877.6	885.2	883.3	889.1	891.9	900.5	902.4	902.4	903.4	904.3
52.5°	763.3	767.1	769.0	770.9	773.8	778.5	782.3	780.4	784.2	788.0	785.2
55°	654.6	657.5	662.3	664.2	664.2	665.1	663.2	671.8	668.0	667.0	668.0
57.5°	555.5	551.7	550.8	555.5	557.4	556.5	553.6	557.4	557.4	555.5	552.7
60°	459.3	456.4	455.5	456.4	452.6	449.8	451.7	449.8	445.0	443.1	444.1
62.5°	371.6	368.8	361.1	361.1	359.2	358.3	350.7	351.6	347.8	342.1	344.0
65°	290.6	283.0	279.2	278.2	271.6	265.9	264.0	257.3	251.6	250.6	251.6
67.5°	218.2	209.6	203.0	200.1	196.3	191.5	184.9	179.1	181.1	180.1	183.9
70°	151.5	145.8	139.1	134.4	136.3	130.5	126.7	126.7	127.7	128.6	130.5
72.5°	101.0	93.4	90.5	87.7	85.8	81.9	83.9	83.9	82.9	83.9	81.9
75°	57.2	53.4	50.5	49.6	47.6	47.6	47.6	47.6	46.7	45.7	45.7
77.5°	25.7	23.8	22.9	21.9	21.9	21.9	21.0	20.0	20.0	20.0	19.1
80°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
82.5°	3.8	3.8	4.8	4.8	4.8	3.8	4.8	4.8	3.8	3.8	4.8
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0	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: P859148

CATALOG NUMBER: LX4C55D010 EX4C559050 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6	2537.6
2.5°	2545.2	2546.2	2546.2	2546.2	2547.1	2547.1	2547.1	2547.1
5°	2538.5	2539.5	2539.5	2539.5	2540.4	2540.4	2540.4	2540.4
7.5°	2527.1	2528.0	2528.0	2529.0	2529.0	2530.0	2530.0	2530.9
10°	2513.8	2515.7	2516.6	2517.6	2518.5	2519.5	2519.5	2520.4
12.5°	2499.5	2501.4	2502.3	2504.2	2506.1	2507.1	2508.0	2509.0
15°	2478.5	2482.3	2484.2	2485.2	2489.0	2490.9	2491.8	2492.8
17.5°	2445.1	2452.8	2455.6	2457.5	2461.3	2465.2	2468.0	2469.0
20°	2397.5	2406.1	2409.9	2414.7	2420.4	2425.1	2427.0	2428.9
22.5°	2330.8	2340.3	2346.0	2351.8	2356.5	2361.3	2368.9	2366.1
25°	2235.5	2251.7	2258.4	2261.2	2271.7	2277.4	2281.2	2277.4
27.5°	2128.8	2138.3	2144.0	2150.7	2158.3	2164.0	2165.9	2171.7
30°	2000.1	2016.3	2015.4	2022.1	2031.6	2037.3	2039.2	2044.0
32.5°	1866.7	1874.4	1880.1	1879.1	1882.9	1893.4	1889.6	1898.2
35°	1724.8	1725.7	1735.2	1734.3	1741.9	1741.9	1741.9	1747.6
37.5°	1573.2	1584.7	1579.9	1591.3	1587.5	1590.4	1590.4	1592.3
40°	1435.1	1438.9	1438.9	1442.7	1445.6	1442.7	1444.6	1449.4
42.5°	1292.1	1295.9	1296.9	1295.0	1297.9	1306.4	1299.8	1305.5
45°	1158.7	1161.6	1165.4	1162.5	1167.3	1164.4	1167.3	1165.4
47.5°	1032.9	1032.0	1031.0	1038.7	1032.0	1032.9	1036.8	1030.1
50°	904.3	910.0	906.2	909.1	911.0	911.0	908.1	908.1
52.5°	790.0	789.0	786.1	789.0	787.1	788.0	790.0	788.0
55°	671.8	675.6	673.7	672.7	673.7	673.7	679.4	671.8
57.5°	555.5	553.6	556.5	563.2	556.5	561.3	564.1	565.1
60°	445.0	445.0	450.7	447.9	453.6	458.3	462.2	460.3
62.5°	339.2	344.0	345.9	346.9	352.6	356.4	356.4	355.4
65°	251.6	258.2	258.2	262.0	264.0	264.0	265.9	269.7
67.5°	185.8	185.8	186.8	188.7	187.7	187.7	189.6	190.6
70°	129.6	127.7	130.5	129.6	129.6	128.6	129.6	129.6
72.5°	81.9	81.9	82.9	81.9	80.0	81.0	81.0	82.9
75°	43.8	45.7	43.8	43.8	44.8	42.9	43.8	44.8
77.5°	18.1	18.1	18.1	18.1	18.1	17.2	17.2	17.2
80°	8.6	8.6	8.6	8.6	8.6	8.6	7.6	7.6
82.5°	3.8	4.8	3.8	4.8	3.8	3.8	3.8	3.8
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	0.0	1.0	0.0	1.0	0.0	0.0	0.0	1.0
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)