

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: P859149

Luminaire Tested: **LX4C55D010 EX4C559050 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P859149
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: LX4C55D010 EX4C559050 4LBLWWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

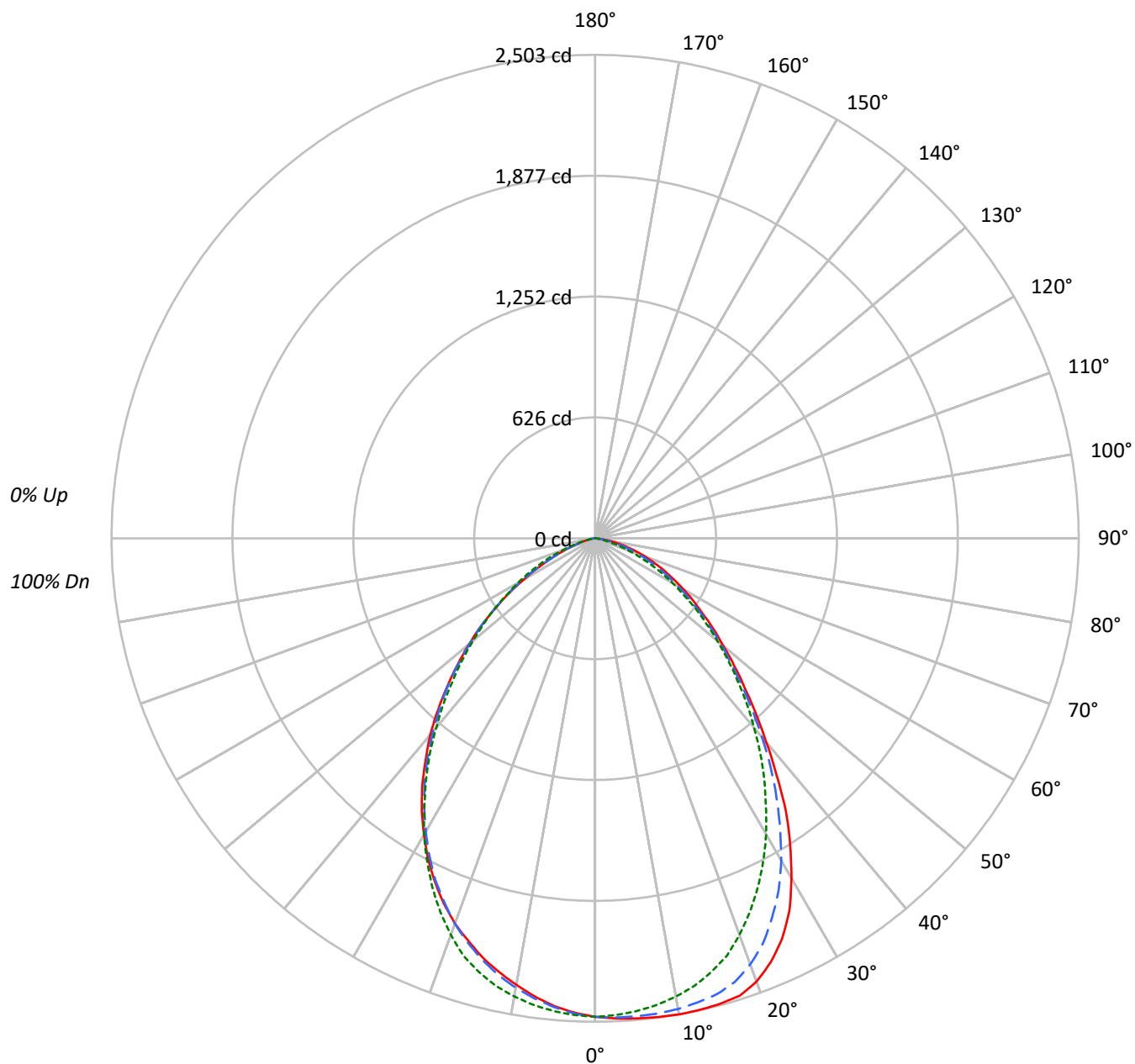
Lumens per Lamp: N/A
Luminaire Lumens: 4669.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	50	30	10
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°	304369	304369	304369
5°	307764	303066	299773
10°	312271	300507	292897
15°	317409	295710	285892
20°	319419	285662	277439
25°	310256	270213	266079
30°	288328	251147	251289
35°	258094	228939	233798
40°	220979	205230	212720
45°	190229	180951	187745
50°	165362	157526	162266
55°	145520	135517	134296
60°	129463	113074	104180
65°	113575	90581	75348
70°	97559	64009	51006
75°	79175	37072	29857
80°	56599	16201	14857
85°	21426	6766	6766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.5	5.0
10°-20°	660.9	14.2
20°-30°	943.8	20.2
30°-40°	987.3	21.1
40°-50°	827.3	17.7
50°-60°	579.0	12.4
60°-70°	315.3	6.8
70°-80°	109.4	2.3
80°-90°	12.6	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°	1838.2	39.4
0°-40°	2825.5	60.5
0°-60°	4231.7	90.6
0°-90°	4669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4669.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2478	2478	2478	2478	2478	
5°	2496	2484	2458	2436	2431	238
15°	2496	2443	2325	2258	2248	705
25°	2289	2167	1993	1954	1963	1045
35°	1721	1636	1526	1538	1559	1067
45°	1095	1070	1042	1076	1081	851
55°	679	656	633	633	627	614
65°	391	356	312	262	259	389
75°	167	135	78	63	63	180
85°	15	9	5	5	5	27
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°	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5
2.5°	2488.9	2486.1	2487.0	2487.0	2487.0	2486.1	2487.0	2486.1	2486.1	2485.1	2483.2
5°	2495.6	2493.7	2493.7	2493.7	2492.7	2491.8	2491.8	2490.8	2488.9	2488.0	2484.2
7.5°	2500.4	2498.4	2498.4	2497.5	2496.5	2495.6	2494.6	2491.8	2488.9	2487.0	2482.2
10°	2503.2	2500.4	2500.4	2498.4	2496.5	2495.6	2493.7	2489.9	2486.1	2481.3	2474.6
12.5°	2501.3	2498.4	2497.5	2495.6	2491.8	2489.9	2488.0	2483.2	2476.5	2469.9	2461.3
15°	2495.6	2493.7	2491.8	2488.9	2484.2	2481.3	2479.4	2471.8	2463.2	2453.7	2443.2
17.5°	2484.2	2481.3	2477.5	2473.7	2467.0	2464.1	2459.4	2449.9	2437.5	2424.1	2407.9
20°	2443.2	2441.3	2437.5	2430.8	2420.3	2416.5	2409.8	2397.4	2381.2	2365.0	2347.9
22.5°	2375.5	2372.7	2367.0	2361.2	2351.7	2345.0	2339.3	2322.2	2304.1	2286.9	2270.7
25°	2288.8	2286.0	2278.3	2270.7	2261.2	2249.7	2244.0	2230.7	2212.6	2190.7	2166.8
27.5°	2177.3	2167.8	2164.9	2156.4	2142.1	2138.3	2129.7	2112.5	2095.4	2076.3	2056.3
30°	2032.5	2032.5	2026.8	2023.0	2009.6	2005.8	1996.3	1978.2	1968.6	1942.0	1926.7
32.5°	1879.1	1877.2	1872.4	1869.5	1861.9	1855.3	1845.7	1836.2	1815.2	1801.9	1780.9
35°	1720.9	1709.5	1711.4	1705.7	1700.9	1693.3	1692.3	1681.8	1662.8	1655.2	1636.1
37.5°	1540.8	1536.0	1542.7	1534.1	1529.4	1530.3	1522.7	1516.0	1508.4	1495.1	1491.3
40°	1377.9	1381.7	1380.7	1373.1	1376.9	1372.1	1364.5	1357.9	1354.0	1345.5	1342.6
42.5°	1232.1	1226.4	1224.4	1224.4	1225.4	1225.4	1221.6	1216.8	1216.8	1208.3	1199.7
45°	1094.9	1094.9	1093.0	1098.7	1090.1	1090.1	1087.2	1086.3	1082.5	1080.6	1070.1
47.5°	976.7	975.7	974.8	973.8	972.9	972.9	967.2	962.4	961.5	955.7	950.0
50°	865.2	870.9	869.0	864.3	862.4	863.3	859.5	856.6	855.7	846.2	847.1
52.5°	771.8	770.9	772.8	769.9	765.2	766.1	762.3	758.5	754.7	749.9	746.1
55°	679.4	684.2	682.3	679.4	678.4	676.5	673.7	668.9	668.0	657.5	656.5
57.5°	602.2	601.3	599.4	594.6	593.6	590.8	590.8	587.0	581.3	575.5	570.8
60°	526.9	526.9	524.1	523.1	519.3	518.4	517.4	513.6	506.9	502.2	494.5
62.5°	454.5	456.4	454.5	451.7	448.8	445.0	443.1	440.2	434.5	429.7	423.1
65°	390.7	389.7	388.8	385.0	384.0	380.2	379.2	373.5	367.8	364.0	356.4
67.5°	329.7	326.8	326.8	324.9	323.0	320.2	318.3	312.5	305.9	302.1	294.4
70°	271.6	269.7	269.7	269.7	264.9	262.0	261.1	258.2	248.7	244.9	237.3
72.5°	218.2	217.3	216.3	213.4	210.6	210.6	206.8	201.1	196.3	191.5	185.8
75°	166.8	168.7	166.8	162.9	162.0	160.1	157.2	152.5	147.7	142.0	135.3
77.5°	122.0	120.1	118.2	118.2	116.3	112.4	111.5	107.7	102.0	98.1	91.5
80°	80.0	79.1	77.2	75.3	74.3	73.4	72.4	68.6	62.9	60.0	54.3
82.5°	43.8	42.9	42.9	41.9	39.1	39.1	38.1	34.3	31.4	29.5	26.7
85°	15.2	15.2	15.2	14.3	14.3	14.3	13.3	12.4	11.4	10.5	8.6
87.5°	1.9	1.0	1.9	1.0	1.9	1.0	1.0	1.0	1.0	1.0	1.0
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°	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5
2.5°	2481.3	2479.4	2478.4	2477.5	2476.5	2475.6	2474.6	2472.7	2471.8	2470.8	2468.9
5°	2481.3	2477.5	2475.6	2472.7	2470.8	2468.9	2466.1	2463.2	2460.3	2457.5	2454.6
7.5°	2477.5	2471.8	2468.0	2462.2	2460.3	2457.5	2451.8	2447.9	2443.2	2437.5	2430.8
10°	2468.0	2461.3	2453.7	2446.0	2443.2	2438.4	2430.8	2424.1	2416.5	2408.9	2402.2
12.5°	2452.7	2442.2	2432.7	2422.2	2416.5	2411.7	2401.3	2391.7	2382.2	2373.6	2362.2
15°	2429.8	2417.5	2405.1	2390.8	2384.1	2378.4	2363.1	2351.7	2336.5	2325.0	2313.6
17.5°	2392.7	2373.6	2358.4	2340.3	2330.7	2324.1	2310.7	2292.6	2278.3	2265.9	2252.6
20°	2328.8	2310.7	2289.8	2269.8	2259.3	2250.7	2231.6	2212.6	2198.3	2185.0	2170.7
22.5°	2245.0	2222.1	2206.9	2182.1	2173.5	2163.0	2140.2	2123.0	2106.8	2093.5	2080.1
25°	2143.0	2123.0	2102.1	2079.2	2068.7	2056.3	2037.3	2019.2	2008.7	1993.4	1977.2
27.5°	2025.8	2009.6	1983.9	1963.9	1953.4	1943.9	1925.8	1909.6	1894.3	1883.8	1868.6
30°	1901.9	1882.9	1860.0	1839.1	1833.3	1821.9	1805.7	1793.3	1777.1	1770.4	1763.8
32.5°	1765.7	1743.8	1726.6	1713.3	1701.8	1692.3	1683.7	1663.7	1660.9	1643.7	1641.8
35°	1617.0	1607.5	1591.3	1579.9	1570.3	1563.7	1549.4	1539.9	1529.4	1526.5	1519.8
37.5°	1477.0	1465.5	1450.3	1439.8	1433.1	1432.2	1421.7	1416.0	1408.4	1404.5	1396.9
40°	1330.2	1325.5	1312.1	1310.2	1299.7	1298.8	1293.1	1286.4	1279.7	1279.7	1280.7
42.5°	1194.9	1189.2	1183.5	1176.8	1171.1	1171.1	1168.2	1166.3	1164.4	1161.6	1166.3
45°	1068.2	1060.6	1056.7	1050.1	1052.9	1047.2	1045.3	1045.3	1042.4	1041.5	1048.2
47.5°	950.0	941.4	937.6	935.7	935.7	936.7	928.1	931.0	930.0	931.9	934.8
50°	842.3	834.7	829.0	829.0	830.0	826.1	822.3	825.2	822.3	824.2	830.9
52.5°	742.3	734.7	731.8	731.8	726.1	725.1	727.0	723.2	724.2	725.1	729.0
55°	649.9	645.1	640.3	635.6	636.5	634.6	630.8	629.9	631.8	632.7	637.5
57.5°	567.0	560.3	553.6	551.7	549.8	549.8	545.0	544.1	546.0	541.2	541.2
60°	487.9	484.1	475.5	472.6	472.6	467.9	464.1	466.0	461.2	460.2	461.2
62.5°	414.5	411.6	405.9	400.2	398.3	396.4	391.6	389.7	387.8	384.0	378.3
65°	350.7	344.0	337.3	333.5	330.6	325.9	323.0	319.2	313.5	311.6	305.9
67.5°	286.8	280.1	273.5	270.6	267.8	264.9	260.1	255.4	248.7	241.1	234.4
70°	230.6	222.0	218.2	210.6	208.7	204.9	198.2	193.4	186.8	178.2	171.5
72.5°	176.3	170.6	164.8	158.2	153.4	150.6	144.8	137.2	129.6	124.8	118.2
75°	126.7	123.9	116.3	108.6	106.7	102.9	96.2	91.5	85.8	78.1	72.4
77.5°	85.8	80.0	75.3	68.6	66.7	62.9	59.1	54.3	50.5	45.7	41.9
80°	50.5	45.7	42.9	38.1	36.2	34.3	31.4	27.6	24.8	22.9	21.9
82.5°	24.8	21.0	20.0	17.2	16.2	15.2	13.3	12.4	10.5	10.5	10.5
85°	8.6	6.7	6.7	5.7	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.9	1.0
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°	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5
2.5°	2468.0	2467.0	2466.1	2465.1	2465.1	2464.1	2464.1	2463.2	2463.2	2462.2	2462.2
5°	2450.8	2447.9	2446.0	2444.1	2444.1	2441.3	2439.4	2437.5	2436.5	2436.5	2434.6
7.5°	2427.0	2423.2	2419.4	2416.5	2415.5	2410.8	2407.0	2407.0	2403.2	2401.3	2399.3
10°	2395.5	2388.9	2383.2	2380.3	2376.5	2373.6	2368.9	2366.0	2363.1	2358.4	2357.4
12.5°	2352.7	2347.9	2339.3	2335.5	2333.6	2327.9	2320.3	2316.4	2315.5	2311.7	2308.8
15°	2304.1	2293.6	2286.0	2281.2	2281.2	2271.7	2267.9	2262.1	2258.3	2255.5	2254.5
17.5°	2241.2	2230.7	2223.1	2216.4	2214.5	2206.9	2201.2	2199.2	2194.5	2196.4	2191.6
20°	2160.2	2151.6	2145.9	2137.3	2137.3	2132.5	2130.6	2125.9	2124.0	2122.1	2124.0
22.5°	2073.5	2063.0	2053.5	2052.5	2052.5	2045.8	2044.9	2043.9	2040.1	2043.0	2042.0
25°	1971.5	1963.9	1958.2	1957.2	1957.2	1953.4	1949.6	1951.5	1954.4	1953.4	1956.3
27.5°	1865.7	1858.1	1856.2	1855.3	1853.3	1852.4	1854.3	1854.3	1857.2	1861.0	1864.8
30°	1751.4	1749.5	1746.6	1745.7	1743.8	1748.5	1750.4	1753.3	1752.3	1758.1	1761.9
32.5°	1637.0	1633.2	1632.3	1634.2	1637.0	1636.1	1641.8	1643.7	1645.6	1652.3	1655.2
35°	1521.7	1520.8	1518.9	1518.9	1519.8	1527.5	1527.5	1534.1	1537.9	1539.9	1547.5
37.5°	1397.9	1401.7	1403.6	1406.4	1407.4	1410.3	1412.2	1418.8	1422.6	1426.5	1430.3
40°	1284.5	1282.6	1291.2	1285.4	1287.3	1295.9	1299.7	1298.8	1304.5	1310.2	1314.0
42.5°	1163.5	1166.3	1168.2	1170.1	1174.9	1175.9	1180.6	1187.3	1189.2	1195.9	1197.8
45°	1046.3	1047.2	1051.0	1054.8	1057.7	1065.3	1067.2	1070.1	1075.8	1075.8	1078.7
47.5°	935.7	939.5	939.5	945.3	950.0	949.1	955.7	957.6	956.7	961.5	963.4
50°	830.0	835.7	834.7	838.5	840.4	841.4	847.1	849.0	845.2	850.0	850.9
52.5°	729.0	731.8	735.6	736.6	734.7	739.4	737.5	741.3	740.4	744.2	740.4
55°	636.5	635.6	635.6	637.5	635.6	637.5	639.4	635.6	632.7	636.5	635.6
57.5°	544.1	544.1	542.2	545.0	542.2	539.3	538.4	535.5	532.7	532.7	531.7
60°	457.4	455.5	451.7	450.7	450.7	445.9	444.0	440.2	440.2	436.4	432.6
62.5°	376.4	371.6	368.8	368.8	366.9	362.1	353.5	347.8	345.9	340.2	339.2
65°	300.2	295.4	292.5	286.8	282.1	280.1	271.6	264.9	262.0	256.3	257.3
67.5°	230.6	223.0	214.4	210.6	207.7	201.1	198.2	193.4	190.6	190.6	190.6
70°	165.8	159.1	150.6	147.7	145.8	140.1	137.2	136.3	139.1	138.2	139.1
72.5°	111.5	104.8	101.0	99.1	97.2	94.3	96.2	97.2	95.3	96.2	97.2
75°	67.7	65.7	62.9	61.9	61.9	62.9	61.9	61.9	62.9	62.9	63.8
77.5°	39.1	37.2	37.2	36.2	38.1	37.2	37.2	37.2	38.1	38.1	38.1
80°	21.0	21.0	21.0	21.0	21.9	21.0	21.9	21.9	21.9	21.9	21.9
82.5°	10.5	10.5	10.5	11.4	11.4	11.4	11.4	11.4	11.4	11.4	10.5
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	1.0	1.9	1.9	1.9	1.9	1.9	1.0	1.0	1.0	1.0	1.0
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: P859149

CATALOG NUMBER: LX4C55D010 EX4C559050 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5	2477.5
2.5°	2460.3	2460.3	2460.3	2458.4	2459.4	2459.4	2458.4	2458.4
5°	2433.7	2432.7	2430.8	2430.8	2428.9	2430.8	2429.8	2430.8
7.5°	2397.4	2397.4	2394.6	2394.6	2393.6	2392.7	2391.7	2392.7
10°	2354.6	2354.6	2352.7	2351.7	2352.7	2348.8	2348.8	2347.9
12.5°	2306.9	2305.0	2303.1	2304.1	2303.1	2300.2	2299.3	2300.2
15°	2251.7	2248.8	2249.7	2246.9	2246.9	2245.9	2247.8	2247.8
17.5°	2190.7	2188.8	2186.9	2187.8	2185.9	2186.9	2185.9	2185.0
20°	2123.0	2122.1	2122.1	2118.2	2119.2	2118.2	2119.2	2122.1
22.5°	2044.9	2043.9	2044.9	2042.0	2043.9	2043.9	2046.8	2046.8
25°	1959.1	1958.2	1960.1	1961.0	1962.0	1964.8	1962.0	1962.9
27.5°	1863.8	1866.7	1869.5	1870.5	1874.3	1871.5	1869.5	1872.4
30°	1767.6	1767.6	1766.6	1770.4	1773.3	1776.2	1771.4	1771.4
32.5°	1657.1	1661.8	1661.8	1662.8	1665.6	1665.6	1665.6	1669.4
35°	1551.3	1554.1	1555.1	1551.3	1553.2	1552.2	1558.9	1558.9
37.5°	1433.1	1433.1	1434.1	1440.8	1440.8	1437.9	1439.8	1439.8
40°	1320.7	1321.6	1317.8	1319.7	1324.5	1322.6	1324.5	1326.4
42.5°	1197.8	1204.4	1200.6	1202.5	1201.6	1202.5	1203.5	1203.5
45°	1080.6	1082.5	1082.5	1083.4	1085.3	1087.2	1081.5	1080.6
47.5°	966.2	967.2	970.0	965.3	971.0	965.3	971.0	964.3
50°	850.9	854.7	851.9	853.8	850.9	850.9	850.0	849.0
52.5°	741.3	740.4	740.4	739.4	739.4	741.3	739.4	742.3
55°	631.8	632.7	630.8	629.9	628.9	631.8	628.9	627.0
57.5°	527.9	529.8	526.0	527.9	521.2	524.1	525.0	526.0
60°	431.7	428.8	428.8	425.0	425.0	427.8	424.0	424.0
62.5°	334.5	336.4	333.5	337.3	337.3	341.1	339.2	341.1
65°	256.3	257.3	258.2	258.2	258.2	263.9	262.0	259.2
67.5°	193.4	194.4	195.3	194.4	197.2	195.3	195.3	196.3
70°	140.1	141.0	142.0	142.0	141.0	142.0	142.0	142.0
72.5°	97.2	98.1	97.2	98.1	99.1	98.1	98.1	99.1
75°	63.8	63.8	62.9	62.9	62.9	62.9	63.8	62.9
77.5°	37.2	38.1	37.2	38.1	38.1	38.1	38.1	38.1
80°	21.9	21.9	21.9	21.0	21.9	21.9	21.9	21.0
82.5°	11.4	11.4	10.5	10.5	11.4	11.4	11.4	11.4
85°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	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)