

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: P859164

Luminaire Tested: **LX4C55D010 EX4C559730 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859164
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 EX4C559730 4LBLWW*
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

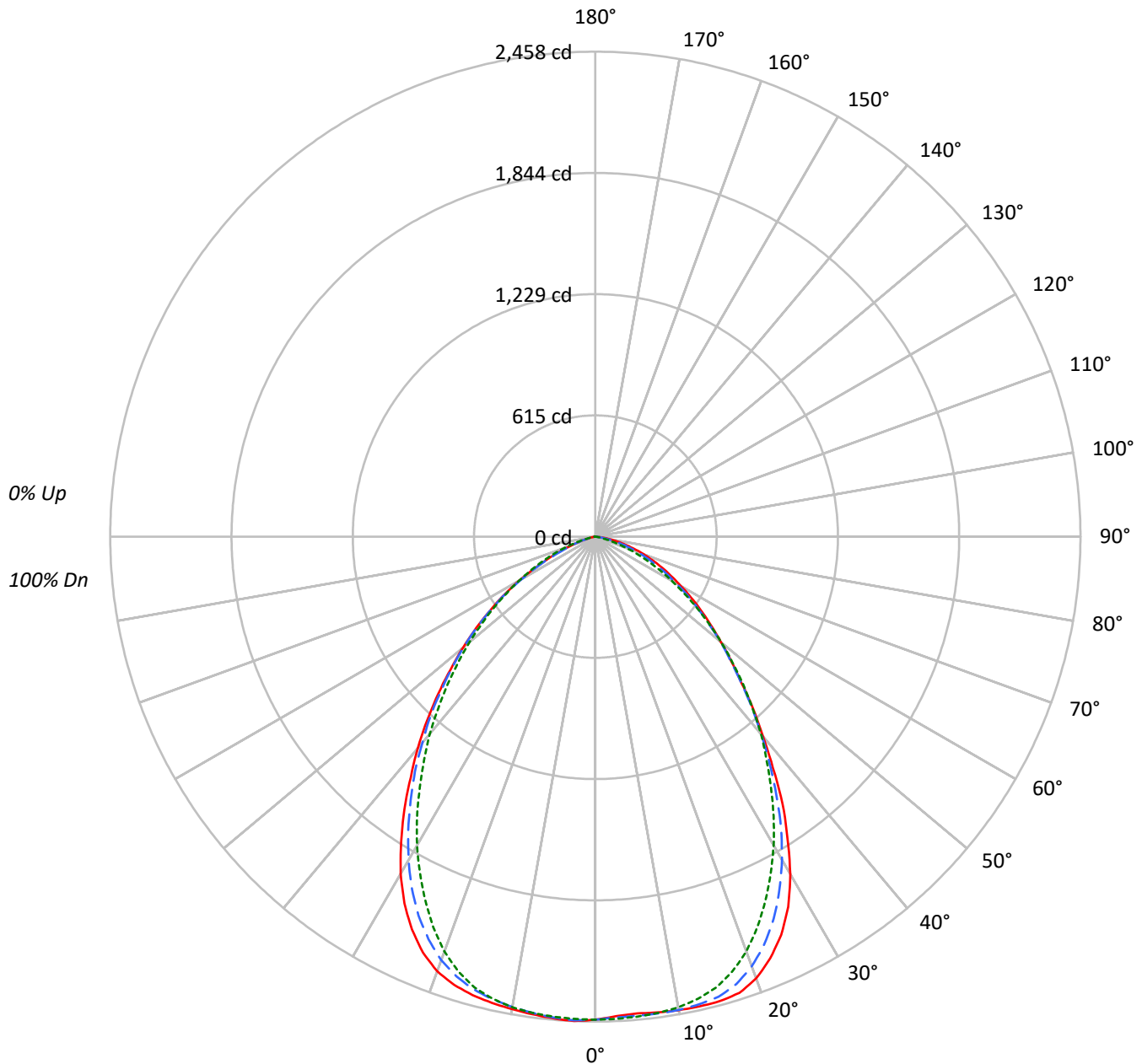
Lumens per Lamp: N/A
Luminaire Lumens: 4694.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	300794	300794	300794
5°	299107	301142	302276
10°	304062	302216	303364
15°	310006	300874	305911
20°	311562	292448	306397
25°	301973	276177	297866
30°	280285	256282	279760
35°	248196	232478	252890
40°	211597	209384	224267
45°	181785	183853	195354
50°	158673	159036	167465
55°	140208	134296	138837
60°	122903	109561	109118
65°	108778	85000	75639
70°	92817	58442	44900
75°	75045	31423	20506
80°	51363	7782	5235
85°	15505	2537	2537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	5.0
10°-20°	673.6	14.4
20°-30°	973.3	20.7
30°-40°	1006.2	21.4
40°-50°	831.4	17.7
50°-60°	573.8	12.2
60°-70°	300.4	6.4
70°-80°	94.6	2.0
80°-90°	8.0	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°	1879.6	40.0
0°-40°	2885.8	61.5
0°-60°	4291.0	91.4
0°-90°	4694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4694.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2448	2448	2448	2448	2448	
5°	2425	2437	2442	2446	2451	232
15°	2437	2414	2366	2377	2405	688
25°	2228	2138	2037	2119	2197	1017
35°	1655	1600	1550	1631	1686	1027
45°	1046	1042	1058	1107	1124	816
55°	655	634	627	644	648	588
65°	374	339	292	243	260	371
75°	158	124	66	45	43	169
85°	11	6	2	2	2	23
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°	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4
2.5°	2432.8	2433.7	2433.7	2435.5	2435.5	2435.5	2436.4	2436.4	2437.4	2438.3	2439.2
5°	2425.4	2425.4	2427.2	2428.2	2430.0	2430.9	2432.8	2433.7	2435.5	2436.4	2437.4
7.5°	2432.8	2432.8	2433.7	2434.6	2434.6	2435.5	2435.5	2436.4	2437.4	2438.3	2438.3
10°	2437.4	2437.4	2437.4	2437.4	2438.3	2438.3	2438.3	2437.4	2437.4	2437.4	2436.4
12.5°	2439.2	2439.2	2438.3	2437.4	2438.3	2437.4	2437.4	2434.6	2432.8	2430.9	2428.2
15°	2437.4	2437.4	2436.4	2435.5	2434.6	2432.8	2431.8	2427.2	2423.6	2418.0	2414.4
17.5°	2425.4	2423.6	2421.7	2419.9	2416.2	2413.4	2411.6	2403.3	2396.9	2387.7	2377.6
20°	2383.1	2381.3	2378.5	2373.9	2369.3	2365.6	2360.1	2348.2	2341.7	2327.9	2317.8
22.5°	2314.1	2312.3	2313.2	2305.0	2295.8	2290.2	2286.6	2276.5	2265.4	2248.0	2236.9
25°	2227.7	2222.2	2222.2	2209.3	2204.7	2201.1	2196.5	2184.5	2168.0	2152.3	2137.6
27.5°	2115.6	2108.2	2104.5	2102.7	2091.7	2083.4	2076.9	2067.7	2054.0	2040.2	2019.9
30°	1975.8	1974.9	1970.3	1962.0	1953.7	1950.1	1942.7	1927.1	1914.2	1904.1	1891.2
32.5°	1811.2	1810.3	1810.3	1810.3	1804.8	1803.9	1792.8	1784.6	1774.5	1758.8	1750.6
35°	1654.9	1654.0	1654.9	1641.1	1637.5	1634.7	1633.8	1628.3	1614.5	1607.1	1599.8
37.5°	1478.4	1481.2	1479.3	1475.6	1480.2	1472.0	1478.4	1466.5	1460.9	1459.1	1450.8
40°	1319.4	1326.7	1319.4	1320.3	1324.9	1316.6	1316.6	1314.8	1311.1	1309.2	1307.4
42.5°	1183.3	1174.1	1179.6	1175.0	1179.6	1176.8	1172.2	1175.0	1175.9	1172.2	1171.3
45°	1046.3	1048.1	1050.0	1047.2	1047.2	1044.4	1051.8	1047.2	1047.2	1048.1	1041.7
47.5°	935.0	932.3	934.1	932.3	933.2	931.4	933.2	934.1	932.3	932.3	926.8
50°	830.2	828.4	834.8	829.3	829.3	828.4	829.3	827.5	824.7	824.7	826.5
52.5°	739.2	735.5	734.6	739.2	732.8	732.8	733.7	731.8	728.2	726.3	721.7
55°	654.6	653.7	654.6	650.9	649.1	649.1	644.5	642.7	641.7	637.1	634.4
57.5°	575.5	572.8	573.7	572.8	569.1	568.2	564.5	564.5	560.8	557.2	552.6
60°	500.2	500.2	502.9	499.2	496.5	494.6	492.8	491.0	484.5	478.1	472.6
62.5°	433.0	434.0	433.0	430.3	428.4	426.6	424.8	419.2	413.7	410.1	403.6
65°	374.2	373.3	370.5	368.7	364.1	364.1	360.4	357.6	351.2	345.7	339.3
67.5°	313.5	311.7	311.7	311.7	306.2	305.2	303.4	297.9	292.4	285.0	279.5
70°	258.4	260.2	257.4	254.7	251.9	251.0	248.2	242.7	236.3	228.9	224.3
72.5°	205.9	207.8	205.0	204.1	198.6	196.8	195.8	191.2	183.9	179.3	171.9
75°	158.1	159.1	157.2	155.4	151.7	150.8	146.2	142.5	137.9	130.6	124.1
77.5°	114.0	112.2	112.2	108.5	104.8	104.8	103.9	98.4	91.9	86.4	80.9
80°	72.6	71.7	69.0	67.1	64.4	63.4	62.5	57.9	53.3	49.6	46.0
82.5°	36.8	35.9	34.9	34.0	32.2	30.3	31.3	27.6	25.7	22.1	19.3
85°	11.0	12.0	12.0	11.0	10.1	10.1	10.1	9.2	7.4	6.4	5.5
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°	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4
2.5°	2440.1	2441.0	2441.9	2442.9	2442.9	2443.8	2444.7	2445.6	2446.5	2446.5	2447.5
5°	2438.3	2440.1	2440.1	2441.0	2441.0	2441.0	2441.9	2441.9	2441.9	2441.9	2442.9
7.5°	2439.2	2439.2	2439.2	2438.3	2438.3	2437.4	2437.4	2437.4	2435.5	2435.5	2435.5
10°	2434.6	2433.7	2432.8	2430.9	2430.0	2429.1	2427.2	2425.4	2423.6	2422.6	2420.8
12.5°	2425.4	2421.7	2418.0	2414.4	2412.5	2411.6	2407.9	2405.2	2402.4	2399.7	2397.8
15°	2407.0	2401.5	2395.1	2387.7	2385.9	2384.0	2377.6	2372.1	2368.4	2365.6	2361.0
17.5°	2370.2	2359.2	2351.8	2340.8	2336.2	2334.4	2324.3	2318.7	2312.3	2310.5	2306.8
20°	2305.0	2294.8	2281.1	2270.9	2265.4	2259.9	2251.6	2244.3	2236.9	2236.9	2232.3
22.5°	2223.1	2210.3	2192.8	2179.9	2179.0	2168.0	2160.6	2152.3	2149.6	2144.1	2144.1
25°	2120.2	2109.1	2089.8	2078.8	2073.3	2070.5	2058.6	2047.5	2042.0	2037.4	2041.1
27.5°	2006.1	1989.6	1974.9	1961.1	1956.5	1951.0	1940.0	1935.4	1925.2	1924.3	1923.4
30°	1875.6	1859.0	1844.3	1837.9	1828.7	1824.1	1815.8	1810.3	1806.6	1806.6	1804.8
32.5°	1738.6	1723.9	1716.5	1702.7	1698.1	1691.7	1686.2	1680.7	1682.5	1680.7	1681.6
35°	1590.6	1586.9	1573.1	1564.8	1564.8	1563.9	1554.7	1551.0	1549.2	1550.1	1554.7
37.5°	1449.9	1438.9	1429.7	1424.2	1428.8	1423.2	1422.3	1422.3	1427.8	1424.2	1431.5
40°	1300.0	1299.1	1295.4	1297.3	1298.2	1291.8	1293.6	1294.5	1298.2	1305.6	1306.5
42.5°	1169.5	1168.6	1168.6	1168.6	1166.7	1163.1	1166.7	1173.2	1172.2	1177.8	1182.4
45°	1043.5	1041.7	1045.4	1042.6	1048.1	1050.0	1047.2	1049.0	1054.6	1058.2	1065.6
47.5°	928.6	928.6	929.5	931.4	925.8	930.4	932.3	936.0	938.7	940.6	944.2
50°	822.0	822.0	820.1	820.1	820.1	822.9	819.2	823.8	824.7	832.1	836.7
52.5°	723.6	719.0	721.7	719.9	716.2	714.4	716.2	717.1	722.7	724.5	730.0
55°	629.8	629.8	622.4	620.6	623.4	622.4	621.5	621.5	624.3	627.0	631.6
57.5°	547.0	541.5	536.0	535.1	532.3	533.3	533.3	532.3	530.5	531.4	532.3
60°	468.9	465.2	456.9	456.9	456.0	455.1	450.5	449.6	445.0	445.9	442.2
62.5°	397.2	395.3	384.3	380.6	380.6	377.9	373.3	372.4	365.9	365.9	362.2
65°	332.8	327.3	320.9	314.4	314.4	310.8	308.0	299.7	295.1	292.4	286.9
67.5°	274.0	265.7	259.3	253.8	250.1	249.2	242.7	237.2	229.9	225.3	217.0
70°	217.0	210.5	204.1	198.6	194.9	191.2	184.8	176.5	171.0	162.7	157.2
72.5°	163.7	158.1	152.6	145.3	140.7	137.9	131.5	124.1	114.9	109.4	102.1
75°	117.7	111.2	103.9	97.5	94.7	91.9	84.6	79.1	72.6	66.2	58.8
77.5°	76.3	69.0	63.4	56.1	55.2	53.3	46.0	40.5	35.9	32.2	27.6
80°	40.5	36.8	32.2	27.6	25.7	23.0	19.3	16.5	13.8	11.0	9.2
82.5°	17.5	14.7	12.0	10.1	9.2	8.3	6.4	5.5	4.6	4.6	3.7
85°	4.6	3.7	3.7	2.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.0	0.9	0.9	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°	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4
2.5°	2448.4	2449.3	2450.2	2450.2	2451.1	2452.1	2452.1	2453.0	2453.9	2454.8	2454.8
5°	2443.8	2443.8	2443.8	2444.7	2444.7	2444.7	2444.7	2446.5	2446.5	2447.5	2448.4
7.5°	2434.6	2434.6	2434.6	2434.6	2433.7	2434.6	2433.7	2433.7	2435.5	2436.4	2437.4
10°	2419.9	2419.0	2419.0	2418.0	2418.0	2418.0	2419.0	2419.9	2420.8	2421.7	2424.5
12.5°	2396.9	2396.0	2396.0	2395.1	2395.1	2396.0	2396.9	2398.7	2402.4	2404.3	2407.9
15°	2360.1	2359.2	2360.1	2361.0	2362.9	2365.6	2368.4	2371.2	2376.7	2381.3	2385.9
17.5°	2306.8	2307.7	2308.6	2310.5	2313.2	2316.9	2324.3	2331.6	2338.1	2345.4	2352.8
20°	2233.2	2236.9	2237.8	2244.3	2246.1	2254.4	2262.7	2273.7	2283.8	2293.0	2303.1
22.5°	2145.0	2147.7	2151.4	2158.8	2163.4	2174.4	2184.5	2197.4	2208.4	2220.4	2235.1
25°	2044.8	2045.7	2056.7	2056.7	2067.7	2076.9	2088.9	2102.7	2119.2	2134.9	2145.0
27.5°	1930.8	1935.4	1943.6	1947.3	1955.6	1970.3	1980.4	1997.0	2013.5	2027.3	2038.3
30°	1811.2	1814.9	1828.7	1830.5	1837.0	1849.8	1863.6	1879.3	1892.1	1907.8	1917.9
32.5°	1685.3	1695.4	1703.7	1710.1	1711.9	1731.2	1738.6	1749.6	1764.3	1780.0	1790.1
35°	1563.0	1567.6	1579.5	1583.2	1588.7	1599.8	1614.5	1623.7	1631.0	1641.1	1653.1
37.5°	1433.4	1447.1	1449.9	1460.9	1462.8	1472.9	1480.2	1491.3	1500.5	1509.7	1511.5
40°	1312.9	1317.5	1327.6	1330.4	1332.2	1346.0	1355.2	1358.0	1362.6	1370.8	1381.9
42.5°	1190.6	1195.2	1206.3	1203.5	1211.8	1218.2	1222.8	1233.8	1238.4	1241.2	1241.2
45°	1070.2	1072.0	1079.4	1083.1	1087.7	1091.3	1099.6	1105.1	1107.0	1115.2	1118.0
47.5°	955.3	957.1	962.6	969.1	967.2	971.8	981.0	983.8	984.7	990.2	993.0
50°	842.2	846.8	854.1	852.3	857.8	860.6	868.8	870.7	870.7	871.6	872.5
52.5°	736.4	740.1	742.0	743.8	746.6	751.2	754.8	753.0	756.7	760.4	757.6
55°	631.6	634.4	639.0	640.8	640.8	641.7	639.9	648.2	644.5	643.6	644.5
57.5°	536.0	532.3	531.4	536.0	537.9	536.9	534.2	537.9	537.9	536.0	533.3
60°	443.2	440.4	439.5	440.4	436.7	434.0	435.8	434.0	429.4	427.5	428.4
62.5°	358.6	355.8	348.5	348.5	346.6	345.7	338.3	339.3	335.6	330.1	331.9
65°	280.4	273.1	269.4	268.5	262.0	256.5	254.7	248.2	242.7	241.8	242.7
67.5°	210.5	202.3	195.8	193.1	189.4	184.8	178.4	172.8	174.7	173.8	177.4
70°	146.2	140.7	134.2	129.6	131.5	126.0	122.3	122.3	123.2	124.1	126.0
72.5°	97.5	90.1	87.3	84.6	82.7	79.1	80.9	80.9	80.0	80.9	79.1
75°	55.2	51.5	48.7	47.8	46.0	46.0	46.0	46.0	45.1	44.1	44.1
77.5°	24.8	23.0	22.1	21.1	21.1	21.1	20.2	19.3	19.3	19.3	18.4
80°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
82.5°	3.7	3.7	4.6	4.6	4.6	3.7	4.6	4.6	3.7	3.7	4.6
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.0	0.9	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: P859164

CATALOG NUMBER: LX4C55D010 EX4C559730 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4	2448.4
2.5°	2455.7	2456.7	2456.7	2456.7	2457.6	2457.6	2457.6	2457.6
5°	2449.3	2450.2	2450.2	2450.2	2451.1	2451.1	2451.1	2451.1
7.5°	2438.3	2439.2	2439.2	2440.1	2440.1	2441.0	2441.0	2441.9
10°	2425.4	2427.2	2428.2	2429.1	2430.0	2430.9	2430.9	2431.8
12.5°	2411.6	2413.4	2414.4	2416.2	2418.0	2419.0	2419.9	2420.8
15°	2391.4	2395.1	2396.9	2397.8	2401.5	2403.3	2404.3	2405.2
17.5°	2359.2	2366.6	2369.3	2371.2	2374.8	2378.5	2381.3	2382.2
20°	2313.2	2321.5	2325.2	2329.8	2335.3	2339.9	2341.7	2343.6
22.5°	2248.9	2258.1	2263.6	2269.1	2273.7	2278.3	2285.6	2282.9
25°	2156.9	2172.6	2179.0	2181.8	2191.9	2197.4	2201.1	2197.4
27.5°	2054.0	2063.2	2068.7	2075.1	2082.5	2088.0	2089.8	2095.3
30°	1929.8	1945.5	1944.5	1951.0	1960.2	1965.7	1967.5	1972.1
32.5°	1801.1	1808.5	1814.0	1813.1	1816.7	1826.9	1823.2	1831.5
35°	1664.1	1665.0	1674.2	1673.3	1680.7	1680.7	1680.7	1686.2
37.5°	1517.9	1529.0	1524.4	1535.4	1531.7	1534.5	1534.5	1536.3
40°	1384.6	1388.3	1388.3	1392.0	1394.7	1392.0	1393.8	1398.4
42.5°	1246.7	1250.4	1251.3	1249.5	1252.2	1260.5	1254.1	1259.6
45°	1118.0	1120.8	1124.4	1121.7	1126.3	1123.5	1126.3	1124.4
47.5°	996.6	995.7	994.8	1002.2	995.7	996.6	1000.3	993.9
50°	872.5	878.0	874.4	877.1	879.0	879.0	876.2	876.2
52.5°	762.2	761.3	758.5	761.3	759.4	760.4	762.2	760.4
55°	648.2	651.9	650.0	649.1	650.0	650.0	655.5	648.2
57.5°	536.0	534.2	536.9	543.4	536.9	541.5	544.3	545.2
60°	429.4	429.4	434.9	432.1	437.6	442.2	445.9	444.1
62.5°	327.3	331.9	333.7	334.7	340.2	343.9	343.9	342.9
65°	242.7	249.2	249.2	252.8	254.7	254.7	256.5	260.2
67.5°	179.3	179.3	180.2	182.0	181.1	181.1	183.0	183.9
70°	125.0	123.2	126.0	125.0	125.0	124.1	125.0	125.0
72.5°	79.1	79.1	80.0	79.1	77.2	78.1	78.1	80.0
75°	42.3	44.1	42.3	42.3	43.2	41.4	42.3	43.2
77.5°	17.5	17.5	17.5	17.5	17.5	16.5	16.5	16.5
80°	8.3	8.3	8.3	8.3	8.3	8.3	7.4	7.4
82.5°	3.7	4.6	3.7	4.6	3.7	3.7	3.7	3.7
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
87.5°	0.0	0.9	0.0	0.9	0.0	0.0	0.0	0.9
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)