

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: P859065

Luminaire Tested: **LX4C55D010 EX4C559027 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859065
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 EX4C559027 4LBLWW*
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

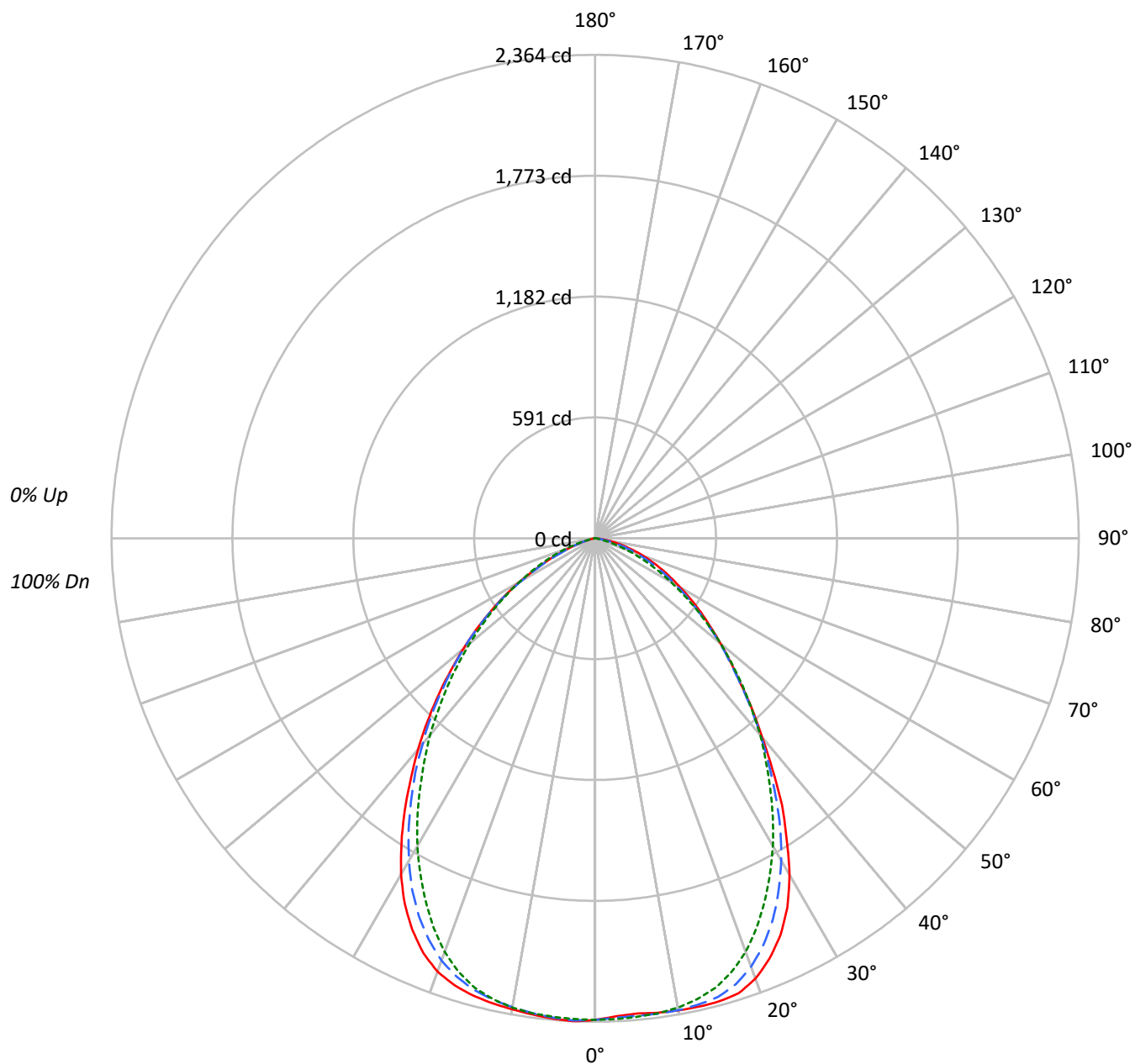
Lumens per Lamp: N/A
Luminaire Lumens: 4515.0 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	289320	289320	289320
5°	287700	289660	290758
10°	292461	290702	291800
15°	298178	289402	294248
20°	299678	281296	294709
25°	290465	265645	286507
30°	269603	246508	269092
35°	238732	223615	243247
40°	203514	201397	215719
45°	174853	176851	187918
50°	152633	152958	161081
55°	134874	129177	133547
60°	118210	105384	104941
65°	104622	81744	72761
70°	89261	56215	43212
75°	72197	30236	19746
80°	49453	7499	5023
85°	14942	2537	2537



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.8	5.0
10°-20°	647.9	14.4
20°-30°	936.2	20.7
30°-40°	967.8	21.4
40°-50°	799.7	17.7
50°-60°	551.9	12.2
60°-70°	288.9	6.4
70°-80°	91.0	2.0
80°-90°	7.7	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°	1807.9	40.0
0°-40°	2775.8	61.5
0°-60°	4127.4	91.4
0°-90°	4515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4515.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2355	2355	2355	2355	2355	
5°	2333	2344	2349	2353	2358	223
15°	2344	2322	2275	2286	2314	661
25°	2143	2056	1960	2038	2114	978
35°	1592	1539	1491	1569	1622	988
45°	1006	1002	1018	1065	1082	785
55°	630	610	603	620	624	566
65°	360	326	281	234	250	357
75°	152	119	64	43	42	163
85°	11	5	2	2	2	22
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°	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0
2.5°	2340.0	2340.9	2340.9	2342.6	2342.6	2342.6	2343.5	2343.5	2344.4	2345.3	2346.2
5°	2332.9	2332.9	2334.7	2335.6	2337.3	2338.2	2340.0	2340.9	2342.6	2343.5	2344.4
7.5°	2340.0	2340.0	2340.9	2341.8	2341.8	2342.6	2342.6	2343.5	2344.4	2345.3	2345.3
10°	2344.4	2344.4	2344.4	2344.4	2345.3	2345.3	2345.3	2344.4	2344.4	2344.4	2343.5
12.5°	2346.2	2346.2	2345.3	2344.4	2345.3	2344.4	2344.4	2341.8	2340.0	2338.2	2335.6
15°	2344.4	2344.4	2343.5	2342.6	2341.8	2340.0	2339.1	2334.7	2331.1	2325.8	2322.3
17.5°	2332.9	2331.1	2329.4	2327.6	2324.1	2321.4	2319.6	2311.7	2305.5	2296.6	2286.9
20°	2292.2	2290.5	2287.8	2283.4	2279.0	2275.4	2270.1	2258.6	2252.4	2239.2	2229.4
22.5°	2225.9	2224.1	2225.0	2217.1	2208.2	2202.9	2199.4	2189.6	2179.0	2162.2	2151.6
25°	2142.8	2137.5	2137.5	2125.1	2120.7	2117.1	2112.7	2101.2	2085.3	2070.3	2056.1
27.5°	2034.9	2027.8	2024.3	2022.5	2011.9	2003.9	1997.7	1988.9	1975.6	1962.4	1942.9
30°	1900.5	1899.6	1895.2	1887.2	1879.2	1875.7	1868.6	1853.6	1841.2	1831.5	1819.1
32.5°	1742.2	1741.3	1741.3	1741.3	1736.0	1735.1	1724.5	1716.5	1706.8	1691.8	1683.8
35°	1591.8	1590.9	1591.8	1578.6	1575.0	1572.4	1571.5	1566.2	1552.9	1545.8	1538.8
37.5°	1422.0	1424.7	1422.9	1419.4	1423.8	1415.8	1422.0	1410.5	1405.2	1403.5	1395.5
40°	1269.0	1276.1	1269.0	1269.9	1274.3	1266.4	1266.4	1264.6	1261.1	1259.3	1257.5
42.5°	1138.2	1129.3	1134.6	1130.2	1134.6	1132.0	1127.5	1130.2	1131.1	1127.5	1126.7
45°	1006.4	1008.2	1009.9	1007.3	1007.3	1004.6	1011.7	1007.3	1007.3	1008.2	1002.0
47.5°	899.4	896.7	898.5	896.7	897.6	895.8	897.6	898.5	896.7	896.7	891.4
50°	798.6	796.8	803.0	797.7	797.7	796.8	797.7	795.9	793.3	793.3	795.0
52.5°	711.0	707.5	706.6	711.0	704.8	704.8	705.7	703.9	700.4	698.6	694.2
55°	629.7	628.8	629.7	626.1	624.3	624.3	619.9	618.2	617.3	612.9	610.2
57.5°	553.6	550.9	551.8	550.9	547.4	546.5	543.0	543.0	539.5	535.9	531.5
60°	481.1	481.1	483.7	480.2	477.5	475.8	474.0	472.2	466.1	459.9	454.6
62.5°	416.5	417.4	416.5	413.9	412.1	410.3	408.6	403.3	398.0	394.4	388.2
65°	359.9	359.0	356.4	354.6	350.2	350.2	346.7	344.0	337.8	332.5	326.3
67.5°	301.6	299.8	299.8	299.8	294.5	293.6	291.8	286.5	281.2	274.1	268.8
70°	248.5	250.3	247.6	245.0	242.3	241.4	238.8	233.5	227.3	220.2	215.8
72.5°	198.1	199.9	197.2	196.3	191.0	189.3	188.4	183.9	176.9	172.4	165.4
75°	152.1	153.0	151.2	149.5	145.9	145.0	140.6	137.1	132.7	125.6	119.4
77.5°	109.7	107.9	107.9	104.4	100.8	100.8	99.9	94.6	88.4	83.1	77.8
80°	69.9	69.0	66.3	64.6	61.9	61.0	60.1	55.7	51.3	47.8	44.2
82.5°	35.4	34.5	33.6	32.7	31.0	29.2	30.1	26.5	24.8	21.2	18.6
85°	10.6	11.5	11.5	10.6	9.7	9.7	9.7	8.8	7.1	6.2	5.3
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°	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0
2.5°	2347.1	2347.9	2348.8	2349.7	2349.7	2350.6	2351.5	2352.4	2353.2	2353.2	2354.1
5°	2345.3	2347.1	2347.1	2347.9	2347.9	2347.9	2348.8	2348.8	2348.8	2348.8	2349.7
7.5°	2346.2	2346.2	2346.2	2345.3	2345.3	2344.4	2344.4	2344.4	2342.6	2342.6	2342.6
10°	2341.8	2340.9	2340.0	2338.2	2337.3	2336.4	2334.7	2332.9	2331.1	2330.3	2328.5
12.5°	2332.9	2329.4	2325.8	2322.3	2320.5	2319.6	2316.1	2313.5	2310.8	2308.1	2306.4
15°	2315.2	2309.9	2303.7	2296.6	2294.9	2293.1	2286.9	2281.6	2278.1	2275.4	2271.0
17.5°	2279.8	2269.2	2262.2	2251.5	2247.1	2245.4	2235.6	2230.3	2224.1	2222.4	2218.8
20°	2217.1	2207.3	2194.1	2184.3	2179.0	2173.7	2165.8	2158.7	2151.6	2151.6	2147.2
22.5°	2138.4	2126.0	2109.2	2096.8	2095.9	2085.3	2078.2	2070.3	2067.6	2062.3	2062.3
25°	2039.3	2028.7	2010.1	1999.5	1994.2	1991.6	1980.1	1969.4	1964.1	1959.7	1963.3
27.5°	1929.6	1913.7	1899.6	1886.3	1881.9	1876.6	1866.0	1861.6	1851.8	1850.9	1850.1
30°	1804.1	1788.2	1774.0	1767.8	1759.0	1754.5	1746.6	1741.3	1737.7	1737.7	1736.0
32.5°	1672.3	1658.2	1651.1	1637.8	1633.4	1627.2	1621.9	1616.6	1618.4	1616.6	1617.5
35°	1529.9	1526.4	1513.1	1505.2	1505.2	1504.3	1495.4	1491.9	1490.1	1491.0	1495.4
37.5°	1394.6	1384.0	1375.2	1369.9	1374.3	1369.0	1368.1	1368.1	1373.4	1369.9	1376.9
40°	1250.5	1249.6	1246.0	1247.8	1248.7	1242.5	1244.3	1245.2	1248.7	1255.8	1256.7
42.5°	1124.9	1124.0	1124.0	1124.0	1122.2	1118.7	1122.2	1128.4	1127.5	1132.8	1137.3
45°	1003.7	1002.0	1005.5	1002.8	1008.2	1009.9	1007.3	1009.0	1014.3	1017.9	1025.0
47.5°	893.2	893.2	894.1	895.8	890.5	895.0	896.7	900.3	902.9	904.7	908.2
50°	790.6	790.6	788.8	788.8	788.8	791.5	788.0	792.4	793.3	800.3	804.8
52.5°	696.0	691.6	694.2	692.4	688.9	687.1	688.9	689.8	695.1	696.9	702.2
55°	605.8	605.8	598.7	596.9	599.6	598.7	597.8	597.8	600.5	603.1	607.5
57.5°	526.2	520.9	515.6	514.7	512.0	512.9	512.9	512.0	510.3	511.2	512.0
60°	451.0	447.5	439.5	439.5	438.6	437.8	433.3	432.4	428.0	428.9	425.4
62.5°	382.0	380.3	369.7	366.1	366.1	363.5	359.0	358.2	352.0	352.0	348.4
65°	320.1	314.8	308.6	302.4	302.4	298.9	296.3	288.3	283.9	281.2	275.9
67.5°	263.5	255.6	249.4	244.1	240.5	239.7	233.5	228.2	221.1	216.7	208.7
70°	208.7	202.5	196.3	191.0	187.5	183.9	177.8	169.8	164.5	156.5	151.2
72.5°	157.4	152.1	146.8	139.7	135.3	132.7	126.5	119.4	110.5	105.2	98.2
75°	113.2	107.0	99.9	93.7	91.1	88.4	81.4	76.1	69.9	63.7	56.6
77.5°	73.4	66.3	61.0	53.9	53.1	51.3	44.2	38.9	34.5	31.0	26.5
80°	38.9	35.4	31.0	26.5	24.8	22.1	18.6	15.9	13.3	10.6	8.8
82.5°	16.8	14.1	11.5	9.7	8.8	8.0	6.2	5.3	4.4	4.4	3.5
85°	4.4	3.5	3.5	2.7	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°	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0
2.5°	2355.0	2355.9	2356.8	2356.8	2357.7	2358.6	2358.6	2359.4	2360.3	2361.2	2361.2
5°	2350.6	2350.6	2350.6	2351.5	2351.5	2351.5	2351.5	2353.2	2353.2	2354.1	2355.0
7.5°	2341.8	2341.8	2341.8	2341.8	2340.9	2341.8	2340.9	2340.9	2342.6	2343.5	2344.4
10°	2327.6	2326.7	2326.7	2325.8	2325.8	2325.8	2326.7	2327.6	2328.5	2329.4	2332.0
12.5°	2305.5	2304.6	2304.6	2303.7	2303.7	2304.6	2305.5	2307.3	2310.8	2312.6	2316.1
15°	2270.1	2269.2	2270.1	2271.0	2272.8	2275.4	2278.1	2280.7	2286.0	2290.5	2294.9
17.5°	2218.8	2219.7	2220.6	2222.4	2225.0	2228.6	2235.6	2242.7	2248.9	2256.0	2263.0
20°	2148.1	2151.6	2152.5	2158.7	2160.5	2168.4	2176.4	2187.0	2196.7	2205.6	2215.3
22.5°	2063.2	2065.8	2069.4	2076.4	2080.9	2091.5	2101.2	2113.6	2124.2	2135.7	2149.8
25°	1966.8	1967.7	1978.3	1978.3	1988.9	1997.7	2009.2	2022.5	2038.4	2053.5	2063.2
27.5°	1857.1	1861.6	1869.5	1873.0	1881.0	1895.2	1904.9	1920.8	1936.7	1950.0	1960.6
30°	1742.2	1745.7	1759.0	1760.7	1766.9	1779.3	1792.6	1807.6	1820.0	1835.0	1844.7
32.5°	1621.0	1630.7	1638.7	1644.9	1646.7	1665.2	1672.3	1682.9	1697.1	1712.1	1721.8
35°	1503.4	1507.8	1519.3	1522.8	1528.2	1538.8	1552.9	1561.8	1568.8	1578.6	1590.1
37.5°	1378.7	1392.0	1394.6	1405.2	1407.0	1416.7	1423.8	1434.4	1443.3	1452.1	1453.9
40°	1262.8	1267.3	1277.0	1279.7	1281.4	1294.7	1303.5	1306.2	1310.6	1318.6	1329.2
42.5°	1145.2	1149.7	1160.3	1157.6	1165.6	1171.8	1176.2	1186.8	1191.2	1193.9	1193.9
45°	1029.4	1031.1	1038.2	1041.8	1046.2	1049.7	1057.7	1063.0	1064.8	1072.7	1075.4
47.5°	918.8	920.6	925.9	932.1	930.3	934.8	943.6	946.3	947.1	952.4	955.1
50°	810.1	814.5	821.6	819.8	825.1	827.7	835.7	837.5	837.5	838.4	839.2
52.5°	708.4	711.9	713.7	715.4	718.1	722.5	726.0	724.3	727.8	731.4	728.7
55°	607.5	610.2	614.6	616.4	616.4	617.3	615.5	623.5	619.9	619.0	619.9
57.5°	515.6	512.0	511.2	515.6	517.3	516.5	513.8	517.3	517.3	515.6	512.9
60°	426.3	423.6	422.7	423.6	420.1	417.4	419.2	417.4	413.0	411.2	412.1
62.5°	344.9	342.2	335.2	335.2	333.4	332.5	325.4	326.3	322.8	317.5	319.2
65°	269.7	262.7	259.1	258.2	252.0	246.7	245.0	238.8	233.5	232.6	233.5
67.5°	202.5	194.6	188.4	185.7	182.2	177.8	171.6	166.3	168.0	167.1	170.7
70°	140.6	135.3	129.1	124.7	126.5	121.2	117.6	117.6	118.5	119.4	121.2
72.5°	93.7	86.7	84.0	81.4	79.6	76.1	77.8	77.8	76.9	77.8	76.1
75°	53.1	49.5	46.9	46.0	44.2	44.2	44.2	44.2	43.3	42.4	42.4
77.5°	23.9	22.1	21.2	20.3	20.3	20.3	19.5	18.6	18.6	18.6	17.7
80°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
82.5°	3.5	3.5	4.4	4.4	4.4	3.5	4.4	4.4	3.5	3.5	4.4
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: P859065

CATALOG NUMBER: LX4C55D010 EX4C559027 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0	2355.0
2.5°	2362.1	2363.0	2363.0	2363.0	2363.9	2363.9	2363.9	2363.9
5°	2355.9	2356.8	2356.8	2356.8	2357.7	2357.7	2357.7	2357.7
7.5°	2345.3	2346.2	2346.2	2347.1	2347.1	2347.9	2347.9	2348.8
10°	2332.9	2334.7	2335.6	2336.4	2337.3	2338.2	2338.2	2339.1
12.5°	2319.6	2321.4	2322.3	2324.1	2325.8	2326.7	2327.6	2328.5
15°	2300.2	2303.7	2305.5	2306.4	2309.9	2311.7	2312.6	2313.5
17.5°	2269.2	2276.3	2279.0	2280.7	2284.3	2287.8	2290.5	2291.3
20°	2225.0	2233.0	2236.5	2240.9	2246.2	2250.7	2252.4	2254.2
22.5°	2163.1	2172.0	2177.3	2182.6	2187.0	2191.4	2198.5	2195.8
25°	2074.7	2089.7	2095.9	2098.6	2108.3	2113.6	2117.1	2113.6
27.5°	1975.6	1984.5	1989.8	1996.0	2003.0	2008.4	2010.1	2015.4
30°	1856.2	1871.3	1870.4	1876.6	1885.4	1890.7	1892.5	1896.9
32.5°	1732.4	1739.5	1744.8	1743.9	1747.5	1757.2	1753.7	1761.6
35°	1600.7	1601.6	1610.4	1609.5	1616.6	1616.6	1616.6	1621.9
37.5°	1460.1	1470.7	1466.2	1476.9	1473.3	1476.0	1476.0	1477.7
40°	1331.8	1335.4	1335.4	1338.9	1341.6	1338.9	1340.7	1345.1
42.5°	1199.2	1202.7	1203.6	1201.8	1204.5	1212.4	1206.2	1211.6
45°	1075.4	1078.0	1081.6	1078.9	1083.3	1080.7	1083.3	1081.6
47.5°	958.6	957.7	956.9	963.9	957.7	958.6	962.2	956.0
50°	839.2	844.6	841.0	843.7	845.4	845.4	842.8	842.8
52.5°	733.1	732.2	729.6	732.2	730.5	731.4	733.1	731.4
55°	623.5	627.0	625.2	624.3	625.2	625.2	630.5	623.5
57.5°	515.6	513.8	516.5	522.6	516.5	520.9	523.5	524.4
60°	413.0	413.0	418.3	415.6	420.9	425.4	428.9	427.1
62.5°	314.8	319.2	321.0	321.9	327.2	330.7	330.7	329.9
65°	233.5	239.7	239.7	243.2	245.0	245.0	246.7	250.3
67.5°	172.4	172.4	173.3	175.1	174.2	174.2	176.0	176.9
70°	120.3	118.5	121.2	120.3	120.3	119.4	120.3	120.3
72.5°	76.1	76.1	76.9	76.1	74.3	75.2	75.2	76.9
75°	40.7	42.4	40.7	40.7	41.6	39.8	40.7	41.6
77.5°	16.8	16.8	16.8	16.8	16.8	15.9	15.9	15.9
80°	8.0	8.0	8.0	8.0	8.0	8.0	7.1	7.1
82.5°	3.5	4.4	3.5	4.4	3.5	3.5	3.5	3.5
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)