

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: P879455

Luminaire Tested: **LD4C55D010 EU4559040 4LBDWWLI**

Issue Date: 10/1/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P879455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C55D010 EU4559040 4LBLDWWLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

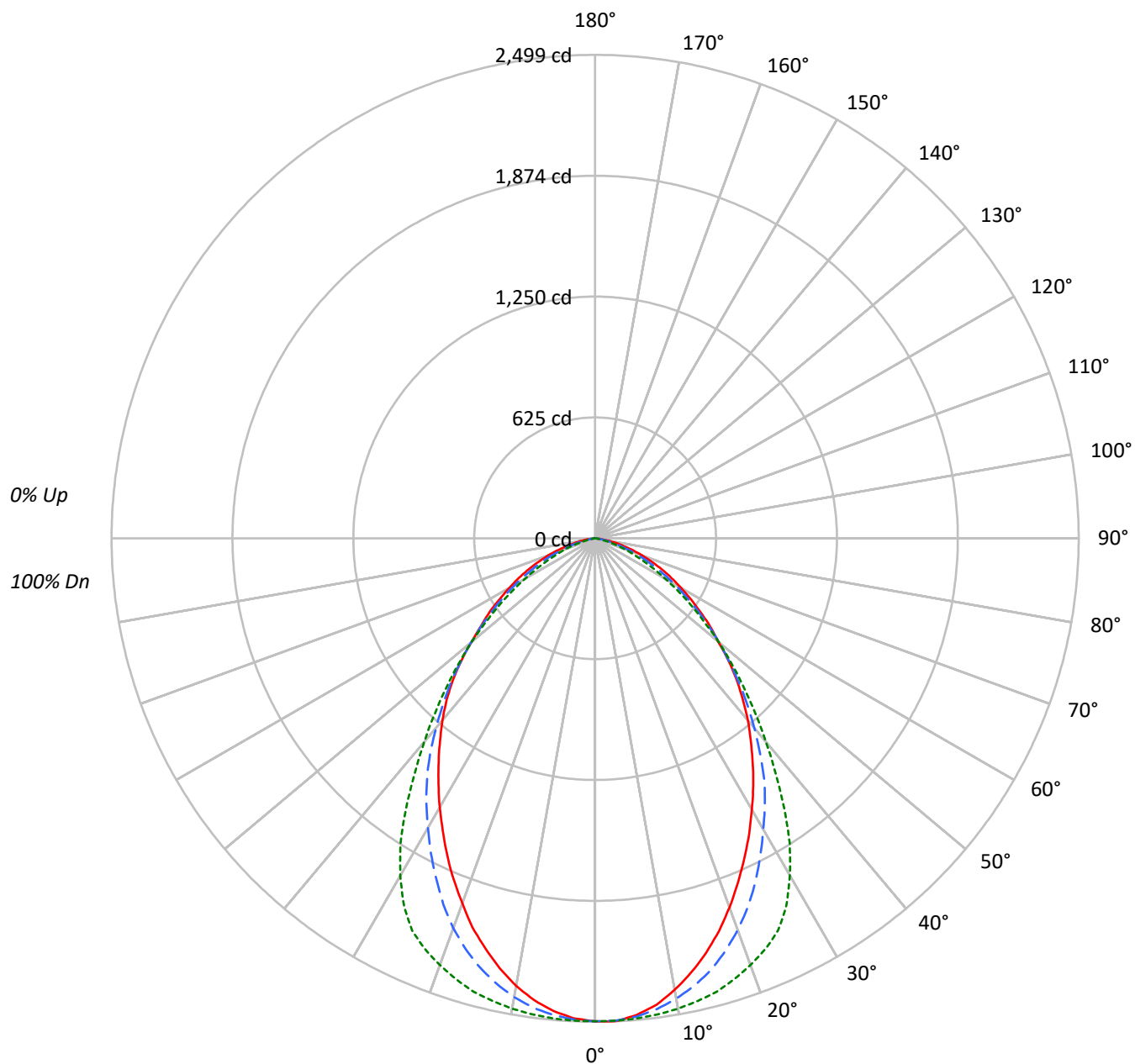
Lumens per Lamp: N/A
Luminaire Lumens: 4586.0 lumens
Efficiency: N/A
Efficacy: 71.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
Input Voltage (V): NR
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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			93
2	103	96	90	85	100	94	89	84		91	86	83			87	84	81			85
3	95	86	79	74	93	84	78	73		82	76	72			79	74	70			77
4	88	78	70	64	86	76	69	64		74	68	63			72	66	62			70
5	82	70	62	57	80	69	62	56		67	61	56			65	60	55			64
6	76	64	56	50	74	63	56	50		61	55	50			60	54	49			58
7	71	59	51	45	69	58	50	45		56	50	45			55	49	45			54
8	66	54	46	41	65	53	46	41		52	45	41			51	45	40			50
9	62	50	42	37	61	49	42	37		48	42	37			47	41	37			46
10	59	46	39	34	57	46	39	34		45	39	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	306765	306765	306765
5°	304953	307246	302646
10°	295654	308005	293097
15°	282076	308684	278998
20°	265411	306920	262483
25°	247223	303288	245190
30°	229712	285605	227854
35°	213011	255455	211482
40°	196939	220306	196779
45°	179440	188040	180899
50°	158482	159017	159380
55°	142007	130012	142607
60°	125507	103246	125728
65°	110494	78721	109389
70°	91560	56358	91560
75°	71343	32372	68685
80°	46270	7924	44289
85°	17056	2678	13109



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.4	5.1
10°-20°	648.5	14.1
20°-30°	906.6	19.8
30°-40°	956.3	20.9
40°-50°	813.5	17.7
50°-60°	574.1	12.5
60°-70°	325.4	7.1
70°-80°	116.1	2.5
80°-90°	11.1	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°	1789.5	39.0
0°-40°	2745.8	59.9
0°-60°	4133.4	90.1
0°-90°	4586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4586.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2497	2497	2497	2497	2497	
5°	2473	2481	2491	2474	2454	233
15°	2218	2311	2427	2298	2194	622
25°	1824	1960	2237	1942	1809	839
35°	1420	1523	1703	1515	1410	888
45°	1033	1048	1082	1052	1041	794
55°	663	641	607	642	666	596
65°	380	326	271	327	376	376
75°	150	103	68	101	145	163
85°	12	5	2	5	9	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°	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0
2.5°	2498.9	2494.2	2494.2	2494.2	2494.2	2494.2	2494.2	2494.2	2494.2	2495.2	2495.2
5°	2472.8	2470.9	2470.0	2470.0	2470.0	2470.0	2470.9	2474.6	2476.5	2479.3	2481.2
7.5°	2431.7	2427.9	2429.8	2429.8	2431.7	2433.5	2436.4	2440.1	2445.7	2449.4	2454.1
10°	2370.0	2366.3	2371.0	2372.9	2378.5	2381.3	2385.9	2391.5	2402.7	2408.3	2415.8
12.5°	2298.1	2296.3	2298.1	2305.6	2311.2	2315.0	2320.6	2332.7	2343.9	2356.0	2369.1
15°	2217.8	2213.2	2216.0	2225.3	2234.6	2241.2	2245.9	2261.7	2276.7	2295.3	2311.2
17.5°	2128.2	2121.7	2129.1	2136.6	2148.7	2154.3	2160.9	2178.6	2199.2	2219.7	2237.4
20°	2030.1	2028.3	2032.9	2043.2	2055.4	2062.8	2068.4	2088.0	2105.8	2133.8	2154.3
22.5°	1928.3	1930.2	1934.0	1945.2	1953.6	1963.8	1972.2	1990.0	2010.5	2036.7	2062.8
25°	1823.8	1826.6	1833.1	1840.6	1854.6	1860.2	1870.5	1889.1	1906.9	1931.2	1960.1
27.5°	1722.9	1723.8	1731.3	1735.0	1748.1	1760.3	1764.9	1784.5	1805.1	1823.8	1849.0
30°	1619.3	1622.1	1626.7	1637.0	1650.1	1654.7	1660.3	1678.1	1694.0	1717.3	1736.9
32.5°	1520.3	1518.4	1524.0	1529.6	1544.5	1553.0	1555.8	1576.3	1590.3	1613.7	1632.3
35°	1420.3	1415.7	1424.1	1429.7	1442.8	1450.2	1454.0	1469.8	1482.9	1502.5	1523.1
37.5°	1320.4	1324.2	1327.9	1332.6	1339.1	1341.0	1352.2	1355.9	1372.7	1387.7	1398.9
40°	1228.0	1226.1	1224.2	1228.9	1237.3	1241.1	1242.0	1252.3	1256.0	1270.9	1279.3
42.5°	1129.0	1129.9	1129.0	1129.9	1134.6	1134.6	1137.4	1143.9	1146.7	1151.4	1161.7
45°	1032.8	1032.8	1030.0	1030.9	1031.9	1030.9	1031.9	1034.7	1040.3	1040.3	1047.8
47.5°	932.9	931.0	934.8	932.0	930.1	929.2	932.0	929.2	934.8	934.8	936.6
50°	829.2	829.2	833.9	833.0	834.8	831.1	832.0	832.0	833.0	832.0	835.8
52.5°	748.9	747.1	745.2	740.5	742.4	738.7	738.7	739.6	736.8	735.9	731.2
55°	663.0	664.9	662.1	660.2	660.2	656.5	655.5	649.9	646.2	643.4	640.6
57.5°	585.5	587.4	586.4	581.8	576.2	577.1	575.2	569.6	561.2	555.6	551.0
60°	510.8	512.7	510.8	506.1	504.3	500.5	499.6	492.1	485.6	478.1	472.5
62.5°	443.6	443.6	442.6	436.1	431.4	432.4	427.7	422.1	413.7	403.4	395.0
65°	380.1	379.1	374.5	371.7	367.9	363.3	360.5	352.1	345.5	337.1	325.9
67.5°	316.6	313.8	311.9	309.1	300.7	299.8	296.0	288.6	279.2	272.7	263.3
70°	254.9	254.0	250.3	250.3	243.7	240.9	235.3	228.8	220.4	211.0	203.6
72.5°	201.7	199.8	196.1	192.4	186.8	184.9	180.2	173.7	166.2	156.9	147.5
75°	150.3	148.5	147.5	142.9	138.2	133.5	131.7	125.1	117.7	111.1	102.7
77.5°	105.5	103.7	100.9	98.1	95.3	92.4	89.6	84.0	77.5	71.9	64.4
80°	65.4	63.5	61.6	60.7	57.9	57.0	53.2	50.4	44.8	41.1	36.4
82.5°	33.6	33.6	31.8	30.8	28.9	28.0	27.1	24.3	21.5	18.7	15.9
85°	12.1	12.1	11.2	10.3	10.3	9.3	9.3	8.4	6.5	6.5	4.7
87.5°	0.9	0.9	1.9	0.9	0.9	0.9	0.9	0.9	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0
2.5°	2496.1	2495.2	2496.1	2496.1	2497.0	2497.0	2497.0	2496.1	2497.0	2496.1	2496.1
5°	2481.2	2484.0	2485.8	2487.7	2488.6	2489.6	2489.6	2490.5	2491.4	2491.4	2490.5
7.5°	2457.8	2463.4	2469.0	2472.8	2474.6	2476.5	2479.3	2481.2	2483.0	2482.1	2481.2
10°	2427.0	2436.4	2443.8	2451.3	2455.0	2457.8	2462.5	2466.2	2468.1	2469.0	2466.2
12.5°	2383.1	2396.2	2408.3	2420.5	2426.1	2429.8	2439.2	2445.7	2449.4	2449.4	2446.6
15°	2328.0	2346.7	2364.4	2380.3	2389.7	2395.3	2409.3	2418.6	2424.2	2427.0	2422.3
17.5°	2261.7	2283.2	2304.7	2325.2	2334.6	2343.0	2362.6	2375.7	2387.8	2389.7	2384.1
20°	2176.7	2203.8	2228.1	2253.3	2263.6	2276.7	2299.1	2320.6	2339.2	2347.6	2331.8
22.5°	2081.5	2111.4	2133.8	2164.6	2178.6	2192.6	2221.6	2248.7	2281.3	2299.1	2271.1
25°	1982.5	2007.7	2034.8	2064.7	2084.3	2099.2	2132.9	2167.4	2211.3	2237.4	2198.2
27.5°	1876.1	1898.5	1931.2	1963.8	1978.8	1997.5	2037.6	2075.0	2117.0	2140.3	2111.4
30°	1765.9	1793.9	1824.7	1854.6	1876.1	1893.8	1926.5	1958.2	1993.7	2013.3	1991.9
32.5°	1656.6	1683.7	1709.8	1742.5	1754.7	1770.5	1799.5	1826.6	1853.6	1871.4	1846.2
35°	1541.7	1566.0	1590.3	1612.7	1618.3	1637.0	1660.3	1676.2	1689.3	1703.3	1686.5
37.5°	1416.6	1435.3	1447.4	1471.7	1481.0	1483.8	1502.5	1513.7	1527.7	1530.5	1529.6
40°	1289.6	1306.4	1316.7	1331.6	1339.1	1339.1	1352.2	1362.5	1372.7	1373.7	1372.7
42.5°	1171.0	1179.4	1187.8	1197.2	1195.3	1206.5	1212.1	1216.8	1224.2	1224.2	1226.1
45°	1051.5	1058.0	1065.5	1067.4	1074.8	1074.8	1079.5	1081.4	1085.1	1082.3	1078.6
47.5°	940.4	943.2	944.1	952.5	954.4	947.8	953.4	954.4	953.4	953.4	951.6
50°	834.8	836.7	835.8	833.0	833.9	836.7	833.9	830.2	832.0	832.0	833.9
52.5°	732.1	728.4	726.5	726.5	722.8	722.8	718.1	716.2	715.3	711.6	716.2
55°	637.8	632.2	623.8	621.9	619.1	618.2	612.6	607.9	606.1	607.0	606.1
57.5°	547.2	538.8	533.2	531.3	528.5	522.9	516.4	511.7	510.8	508.9	508.9
60°	465.0	455.7	447.3	438.9	439.8	436.1	429.6	426.8	424.0	420.2	423.0
62.5°	390.3	380.1	370.7	362.3	356.7	353.9	349.3	344.6	341.8	339.0	342.7
65°	316.6	308.2	297.9	289.5	286.7	283.9	279.2	271.7	270.8	270.8	272.7
67.5°	250.3	240.9	231.6	226.0	222.3	218.5	216.6	212.9	210.1	208.2	209.2
70°	192.4	183.0	175.6	170.0	167.2	166.2	159.7	158.8	157.8	156.9	155.9
72.5°	140.1	132.6	126.1	122.3	118.6	115.8	113.9	111.1	110.2	110.2	110.2
75°	96.2	90.6	83.1	78.4	76.6	73.8	71.0	69.1	67.2	68.2	68.2
77.5°	57.9	52.3	47.6	43.9	43.0	40.2	37.4	35.5	32.7	32.7	33.6
80°	31.8	27.1	23.3	20.5	18.7	17.7	14.9	14.0	12.1	11.2	11.2
82.5°	14.0	11.2	9.3	8.4	7.5	6.5	5.6	4.7	4.7	3.7	4.7
85°	4.7	3.7	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	0.9	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0
2.5°	2495.2	2495.2	2494.2	2494.2	2494.2	2492.4	2492.4	2491.4	2490.5	2489.6	2487.7
5°	2488.6	2487.7	2485.8	2484.9	2484.0	2481.2	2478.4	2476.5	2473.7	2470.0	2468.1
7.5°	2479.3	2476.5	2472.8	2470.9	2468.1	2461.6	2456.9	2452.2	2447.6	2441.0	2433.5
10°	2463.4	2457.8	2452.2	2448.5	2443.8	2435.4	2426.1	2418.6	2408.3	2399.0	2388.7
12.5°	2441.0	2434.5	2423.3	2417.7	2412.1	2399.9	2387.8	2371.9	2357.9	2344.8	2332.7
15°	2413.0	2400.9	2387.8	2380.3	2371.9	2352.3	2333.6	2316.8	2298.1	2282.3	2262.7
17.5°	2371.9	2354.2	2335.5	2327.1	2315.9	2293.5	2271.1	2247.7	2226.2	2206.6	2182.4
20°	2310.3	2290.7	2266.4	2253.3	2244.0	2214.1	2192.6	2166.5	2144.1	2119.8	2092.7
22.5°	2238.4	2211.3	2184.2	2165.5	2155.3	2125.4	2096.4	2073.1	2048.8	2020.8	2001.2
25°	2157.1	2123.5	2090.8	2072.2	2056.3	2024.5	1996.5	1972.2	1942.4	1918.1	1898.5
27.5°	2065.6	2027.3	1989.0	1970.4	1955.4	1920.9	1891.0	1865.8	1836.8	1815.4	1794.8
30°	1956.4	1921.8	1885.4	1870.5	1852.7	1817.2	1782.7	1760.3	1728.5	1706.1	1683.7
32.5°	1820.0	1797.6	1768.7	1748.1	1738.8	1706.1	1677.2	1650.1	1623.0	1605.2	1582.8
35°	1670.6	1651.0	1626.7	1615.5	1603.4	1582.8	1559.5	1536.1	1514.7	1497.9	1477.3
37.5°	1519.3	1499.7	1484.8	1472.6	1465.2	1446.5	1432.5	1414.7	1399.8	1383.9	1372.7
40°	1362.5	1356.8	1341.0	1335.4	1333.5	1313.0	1300.8	1286.8	1277.5	1268.1	1261.6
42.5°	1223.3	1214.0	1201.8	1202.8	1197.2	1186.0	1177.6	1168.2	1161.7	1157.0	1150.5
45°	1086.0	1078.6	1073.0	1077.6	1068.3	1064.6	1058.0	1057.1	1052.4	1044.0	1041.2
47.5°	955.3	954.4	955.3	952.5	950.6	948.8	949.7	945.0	940.4	937.6	933.8
50°	835.8	836.7	838.6	841.4	834.8	837.6	836.7	835.8	835.8	833.0	834.8
52.5°	720.0	720.9	722.8	725.6	726.5	726.5	729.3	731.2	734.9	739.6	739.6
55°	610.7	617.3	621.0	625.7	622.9	628.5	631.3	639.7	642.5	642.5	646.2
57.5°	513.6	520.1	522.9	528.5	530.4	535.1	542.6	547.2	553.8	559.4	565.0
60°	424.9	427.7	435.2	443.6	441.7	452.9	458.5	466.0	474.4	478.1	485.6
62.5°	345.5	349.3	354.9	357.7	364.2	369.8	382.9	390.3	397.8	407.1	414.6
65°	274.5	278.3	283.9	289.5	292.3	300.7	307.2	320.3	326.8	337.1	345.5
67.5°	210.1	215.7	220.4	224.1	226.0	234.4	244.7	250.3	262.4	272.7	279.2
70°	156.9	161.6	167.2	166.2	170.0	176.5	184.0	192.4	201.7	211.0	218.5
72.5°	109.3	113.9	117.7	118.6	122.3	127.0	132.6	139.1	146.6	155.9	166.2
75°	69.1	70.0	73.8	75.6	77.5	83.1	87.8	94.3	100.9	108.3	114.9
77.5°	34.6	37.4	39.2	41.1	42.0	46.7	51.4	57.0	62.6	70.0	76.6
80°	13.1	14.0	16.8	17.7	19.6	22.4	26.1	28.9	33.6	39.2	43.0
82.5°	4.7	5.6	6.5	6.5	7.5	9.3	10.3	13.1	15.9	17.7	19.6
85°	1.9	1.9	1.9	1.9	1.9	2.8	2.8	3.7	4.7	5.6	5.6
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



TEST NUMBER: P879455

CATALOG NUMBER: LD4C55D010 EU4559040 4LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0
2.5°	2486.8	2486.8	2485.8	2484.9	2484.9	2484.9	2484.0	2484.0
5°	2464.4	2461.6	2460.6	2458.8	2457.8	2456.9	2454.1	2454.1
7.5°	2427.9	2424.2	2421.4	2418.6	2414.9	2412.1	2412.1	2408.3
10°	2379.4	2371.9	2368.2	2364.4	2359.8	2354.2	2352.3	2349.5
12.5°	2320.6	2305.6	2301.9	2295.3	2287.9	2284.1	2277.6	2277.6
15°	2247.7	2231.8	2223.4	2219.7	2210.4	2203.8	2201.0	2193.6
17.5°	2162.7	2150.6	2137.5	2131.9	2121.7	2113.2	2109.5	2108.6
20°	2076.8	2057.2	2048.8	2040.4	2028.3	2020.8	2015.2	2007.7
22.5°	1977.8	1960.1	1948.0	1942.4	1932.1	1919.0	1909.7	1909.7
25°	1873.3	1857.4	1850.8	1838.7	1826.6	1821.9	1810.7	1808.8
27.5°	1773.3	1757.5	1744.4	1737.8	1723.8	1717.3	1708.0	1704.2
30°	1669.7	1651.0	1641.7	1640.7	1623.9	1617.4	1609.9	1606.2
32.5°	1566.0	1550.2	1540.8	1535.2	1527.7	1516.5	1510.0	1506.3
35°	1463.3	1453.0	1444.6	1438.1	1426.0	1420.3	1414.7	1410.1
37.5°	1355.9	1346.6	1342.8	1337.2	1331.6	1321.4	1319.5	1315.8
40°	1252.3	1240.1	1240.1	1236.4	1230.8	1229.8	1227.0	1227.0
42.5°	1143.9	1138.3	1137.4	1138.3	1134.6	1132.7	1129.9	1136.5
45°	1036.5	1039.3	1034.7	1035.6	1033.7	1037.5	1037.5	1041.2
47.5°	937.6	933.8	935.7	937.6	940.4	940.4	939.4	938.5
50°	832.0	835.8	839.5	834.8	836.7	837.6	833.0	833.9
52.5°	741.5	742.4	745.2	742.4	745.2	744.3	746.1	742.4
55°	653.7	653.7	657.4	658.3	659.3	662.1	663.0	665.8
57.5°	568.7	573.4	578.0	577.1	580.8	584.6	581.8	584.6
60°	494.9	498.7	503.3	505.2	508.0	509.9	509.9	511.7
62.5°	420.2	427.7	431.4	435.2	435.2	438.9	442.6	443.6
65°	353.0	361.4	364.2	367.0	368.9	372.6	377.3	376.3
67.5°	289.5	295.1	298.8	300.7	306.3	308.2	311.9	315.6
70°	226.9	234.4	237.2	240.9	245.6	249.3	253.1	254.9
72.5°	173.7	179.3	181.2	184.9	189.6	193.3	195.2	198.0
75°	121.4	130.7	131.7	134.5	138.2	142.9	145.7	144.7
77.5°	80.3	86.8	87.8	91.5	95.3	99.0	99.9	100.9
80°	47.6	51.4	52.3	54.2	57.0	58.8	60.7	62.6
82.5°	22.4	24.3	26.1	26.1	28.0	29.9	29.9	30.8
85°	7.5	7.5	8.4	8.4	9.3	9.3	10.3	9.3
87.5°	0.9	0.9	0.0	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)