

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: P879456

Luminaire Tested: **LD4C55D010 EU4559050 4LBDWWH**

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: P879456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C55D010 EU4559050 4LBLDWWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

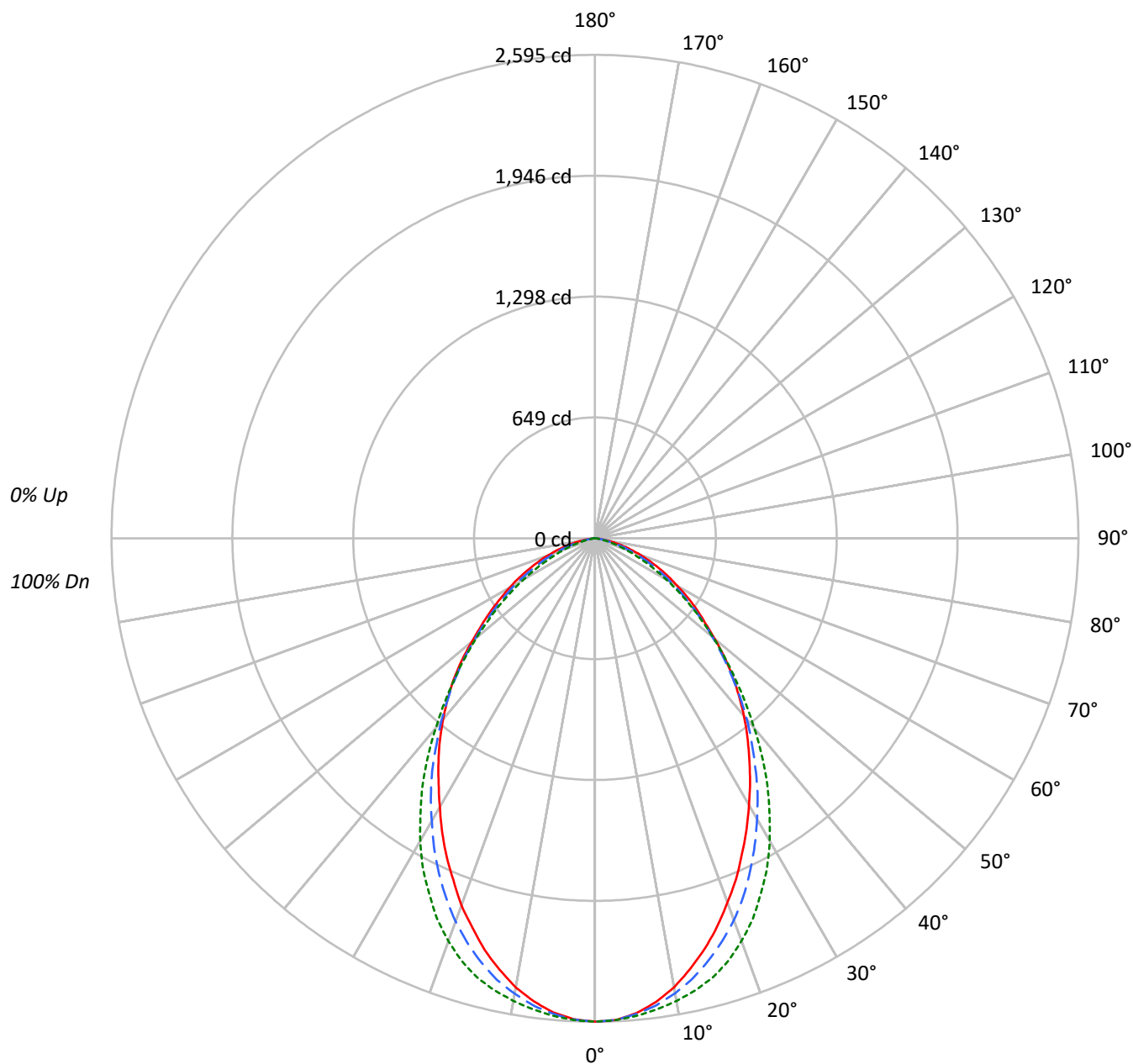
Lumens per Lamp: N/A
Luminaire Lumens: 4641.0 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	100	108	105	102	99		101	98	96			97	95	93			93
2	103	96	90	85	100	94	89	84		90	86	82			87	84	80			84
3	95	86	79	73	92	84	78	73		81	76	71			79	74	70			76
4	88	77	70	64	86	76	69	63		74	68	63			71	66	62			69
5	81	70	62	56	80	69	62	56		67	61	56			65	59	55			63
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	44			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°	318768	318768	318768
5°	315521	317285	315164
10°	305260	314529	305385
15°	290012	310502	290992
20°	271830	300736	274066
25°	253174	285327	255492
30°	234535	266156	236280
35°	216371	241942	219655
40°	199585	213185	203242
45°	180778	184756	186250
50°	160259	158272	164273
55°	142864	133268	146141
60°	125016	108160	129709
65°	109418	83662	113284
70°	92063	61279	96876
75°	71912	39825	75995
80°	47189	20871	51929
85°	16069	9444	21426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.2	5.2
10°-20°	661.8	14.3
20°-30°	910.2	19.6
30°-40°	949.6	20.5
40°-50°	812.4	17.5
50°-60°	581.1	12.5
60°-70°	337.2	7.3
70°-80°	130.0	2.8
80°-90°	16.5	0.4
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°	1814.2	39.1
0°-40°	2763.8	59.6
0°-60°	4157.3	89.6
0°-90°	4641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4641.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2595	2595	2595	2595	2595	
5°	2558	2563	2573	2563	2556	241
15°	2280	2349	2441	2357	2288	639
25°	1868	1971	2105	1983	1885	859
35°	1443	1500	1613	1524	1465	904
45°	1040	1032	1063	1058	1072	802
55°	667	634	622	651	682	596
65°	376	333	288	344	390	375
75°	152	113	84	120	160	163
85°	11	9	7	10	15	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°	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7
2.5°	2588.0	2586.1	2587.1	2587.1	2587.1	2586.1	2588.0	2588.0	2587.1	2587.1	2587.1
5°	2558.5	2556.6	2557.5	2558.5	2558.5	2558.5	2559.4	2560.4	2561.4	2562.3	2563.3
7.5°	2510.8	2508.0	2510.8	2514.7	2514.7	2515.6	2516.6	2517.5	2520.4	2525.1	2528.0
10°	2447.0	2447.0	2448.0	2450.8	2455.6	2454.6	2457.5	2462.3	2468.0	2474.6	2479.4
12.5°	2366.0	2367.9	2370.8	2373.6	2378.4	2381.3	2386.0	2391.7	2401.3	2410.8	2421.3
15°	2280.2	2281.2	2282.2	2288.8	2293.6	2300.3	2304.1	2315.5	2324.1	2337.4	2348.9
17.5°	2184.0	2183.1	2185.9	2191.6	2203.1	2205.9	2210.7	2223.1	2235.5	2253.6	2268.8
20°	2079.2	2084.9	2088.7	2096.3	2103.0	2110.6	2114.4	2129.7	2144.0	2161.1	2181.1
22.5°	1980.1	1975.3	1982.0	1990.6	1996.3	2002.0	2008.7	2024.9	2040.1	2061.1	2081.1
25°	1867.7	1870.5	1875.3	1881.9	1889.6	1897.2	1904.8	1922.0	1930.5	1952.5	1970.6
27.5°	1760.9	1765.7	1767.6	1776.2	1782.8	1788.6	1792.4	1812.4	1820.0	1839.1	1857.2
30°	1653.3	1658.0	1658.0	1667.5	1672.3	1678.0	1687.6	1700.9	1712.3	1725.7	1739.0
32.5°	1549.4	1549.4	1553.2	1561.8	1566.5	1573.2	1576.1	1585.6	1597.0	1610.4	1624.7
35°	1442.7	1445.5	1449.3	1449.3	1457.9	1461.7	1465.5	1475.1	1482.7	1488.4	1499.8
37.5°	1344.5	1344.5	1341.7	1346.4	1352.1	1351.2	1356.9	1361.7	1366.4	1373.1	1382.6
40°	1244.5	1244.5	1240.7	1243.5	1247.3	1246.4	1244.5	1249.2	1253.0	1257.8	1267.3
42.5°	1142.5	1140.6	1139.6	1139.6	1141.6	1139.6	1141.6	1142.5	1142.5	1142.5	1148.2
45°	1040.5	1045.3	1039.6	1037.7	1034.8	1032.0	1031.0	1032.0	1035.8	1031.0	1032.0
47.5°	940.5	942.4	938.6	935.7	932.9	931.0	932.9	927.2	929.1	930.0	926.2
50°	838.5	834.7	834.7	831.9	832.8	831.9	830.0	828.1	828.1	823.3	820.4
52.5°	744.2	746.1	748.0	741.3	742.3	737.5	738.5	733.7	733.7	728.0	729.9
55°	667.0	664.2	664.2	661.3	660.3	655.6	654.6	651.8	645.1	641.3	633.7
57.5°	587.0	586.0	582.2	583.2	577.4	576.5	574.6	569.8	565.1	560.3	551.7
60°	508.8	509.8	509.8	507.9	505.0	500.3	501.2	494.5	487.9	479.3	471.7
62.5°	444.0	441.2	440.2	438.3	432.6	432.6	427.8	423.1	416.4	407.8	401.2
65°	376.4	377.3	374.5	371.6	365.9	365.0	361.1	357.3	350.7	342.1	332.6
67.5°	315.4	313.5	312.5	309.7	304.0	303.0	300.2	291.6	285.9	277.3	269.7
70°	256.3	254.4	255.4	250.6	244.9	242.0	241.1	234.4	225.8	219.2	211.5
72.5°	201.1	201.1	200.1	195.3	192.5	190.6	186.8	179.1	174.4	166.8	161.0
75°	151.5	150.6	148.6	145.8	142.0	140.1	138.2	133.4	126.7	118.2	113.4
77.5°	104.8	105.8	103.9	102.9	98.1	95.3	94.3	91.5	85.8	80.0	75.3
80°	66.7	65.7	64.8	62.9	61.9	61.0	58.1	56.2	50.5	47.6	44.8
82.5°	36.2	34.3	34.3	33.4	31.4	30.5	29.5	27.6	26.7	24.8	22.9
85°	11.4	12.4	11.4	11.4	11.4	10.5	10.5	10.5	9.5	9.5	8.6
87.5°	1.0	1.9	1.0	1.0	1.9	1.0	1.0	1.9	1.0	1.0	1.9
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°	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7
2.5°	2587.1	2588.0	2588.0	2589.0	2589.0	2589.0	2589.0	2589.0	2589.0	2589.0	2589.0
5°	2566.1	2566.1	2568.0	2569.9	2569.9	2569.9	2570.9	2572.8	2572.8	2572.8	2571.8
7.5°	2531.8	2535.6	2539.4	2543.2	2544.2	2545.2	2547.1	2550.9	2550.9	2550.9	2550.9
10°	2487.0	2495.6	2500.4	2506.1	2508.9	2510.8	2516.6	2517.5	2520.4	2521.3	2520.4
12.5°	2429.9	2441.3	2451.8	2461.3	2465.1	2468.9	2474.6	2480.4	2483.2	2486.1	2485.1
15°	2366.0	2378.4	2394.6	2405.1	2412.7	2418.4	2427.0	2434.6	2439.4	2441.3	2441.3
17.5°	2288.8	2304.1	2321.2	2338.4	2343.1	2352.7	2362.2	2372.7	2378.4	2379.3	2378.4
20°	2203.1	2220.2	2234.5	2251.7	2262.1	2266.9	2280.2	2293.6	2299.3	2300.3	2299.3
22.5°	2101.1	2117.3	2136.4	2154.5	2163.0	2171.6	2185.9	2199.3	2206.9	2212.6	2206.9
25°	1987.7	2010.6	2028.7	2043.9	2056.3	2064.9	2083.0	2093.5	2105.9	2104.9	2105.9
27.5°	1876.2	1895.3	1915.3	1933.4	1941.0	1950.6	1964.8	1982.0	1992.5	1999.1	1998.2
30°	1761.9	1777.1	1794.3	1810.5	1822.9	1830.5	1851.5	1859.1	1872.4	1876.2	1873.4
32.5°	1640.9	1651.3	1668.5	1690.4	1695.2	1702.8	1716.1	1735.2	1740.0	1741.9	1742.8
35°	1512.2	1532.2	1546.5	1559.9	1563.7	1570.4	1585.6	1599.9	1604.7	1613.2	1609.4
37.5°	1393.1	1404.5	1411.2	1424.6	1436.0	1441.7	1449.3	1458.9	1468.4	1472.2	1471.3
40°	1274.0	1279.7	1285.4	1299.7	1300.7	1300.7	1312.1	1325.5	1325.5	1329.3	1329.3
42.5°	1152.0	1153.0	1160.6	1168.2	1170.1	1172.0	1183.5	1185.4	1191.1	1194.0	1197.8
45°	1033.9	1039.6	1044.4	1045.3	1050.1	1051.0	1053.9	1056.7	1065.3	1063.4	1065.3
47.5°	926.2	929.1	931.9	931.9	934.8	933.8	938.6	935.7	941.4	943.4	946.2
50°	820.4	825.2	822.3	824.2	823.3	826.1	824.2	824.2	824.2	828.1	830.9
52.5°	723.2	724.2	721.3	722.3	722.3	720.4	722.3	721.3	720.4	720.4	721.3
55°	633.7	629.9	628.0	624.1	619.4	625.1	622.2	620.3	624.1	622.2	624.1
57.5°	547.0	542.2	538.4	536.5	529.8	533.6	529.8	527.9	527.9	527.9	532.7
60°	465.0	460.2	455.5	449.8	448.8	446.9	445.0	440.2	441.2	440.2	442.1
62.5°	393.5	384.0	377.3	372.6	371.6	368.8	365.9	361.1	362.1	362.1	363.0
65°	327.8	317.3	307.8	301.1	301.1	296.3	291.6	291.6	285.9	287.8	288.7
67.5°	262.0	253.5	243.9	239.2	236.3	232.5	229.6	227.7	224.9	224.9	226.8
70°	203.0	194.4	189.6	182.0	181.0	178.2	174.4	171.5	170.6	170.6	169.6
72.5°	153.4	145.8	140.1	135.3	132.5	129.6	125.8	124.8	122.9	122.9	124.8
75°	106.7	102.0	97.2	92.4	90.5	89.6	86.7	84.8	84.8	83.9	84.8
77.5°	71.5	66.7	61.9	60.0	58.1	56.2	55.3	54.3	51.5	51.5	51.5
80°	41.0	39.1	37.2	34.3	34.3	33.4	31.4	30.5	29.5	29.5	29.5
82.5°	21.0	20.0	18.1	17.2	17.2	17.2	16.2	16.2	15.2	15.2	15.2
85°	8.6	7.6	6.7	6.7	6.7	6.7	6.7	6.7	7.6	6.7	7.6
87.5°	1.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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°	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7
2.5°	2589.0	2588.0	2588.0	2588.0	2588.0	2588.0	2587.1	2587.1	2586.1	2586.1	2586.1
5°	2572.8	2571.8	2570.9	2569.9	2569.0	2568.0	2567.1	2566.1	2563.3	2562.3	2560.4
7.5°	2549.9	2548.0	2545.2	2544.2	2542.3	2539.4	2535.6	2533.7	2529.9	2525.1	2523.2
10°	2519.4	2515.6	2512.8	2508.0	2507.0	2503.2	2493.7	2488.9	2482.3	2476.5	2469.9
12.5°	2482.3	2478.4	2471.8	2465.1	2461.3	2452.7	2444.1	2436.5	2427.9	2415.6	2406.0
15°	2436.5	2430.8	2417.5	2415.6	2409.8	2396.5	2385.1	2370.8	2357.4	2344.1	2332.7
17.5°	2375.5	2363.2	2356.5	2347.9	2341.2	2324.1	2311.7	2295.5	2277.4	2262.1	2245.9
20°	2295.5	2282.2	2270.7	2266.0	2257.4	2242.1	2226.9	2206.9	2188.8	2169.7	2155.4
22.5°	2200.2	2191.6	2174.5	2168.8	2158.3	2143.0	2124.9	2105.9	2088.7	2067.8	2048.7
25°	2098.2	2085.9	2072.5	2061.1	2053.5	2039.2	2016.3	2002.0	1982.9	1960.1	1945.8
27.5°	1989.6	1975.3	1956.3	1948.6	1942.0	1922.9	1903.9	1885.8	1870.5	1850.5	1838.1
30°	1863.8	1853.4	1841.0	1831.4	1821.9	1806.7	1789.5	1768.6	1752.4	1742.8	1725.7
32.5°	1736.2	1727.6	1711.4	1706.6	1696.1	1683.7	1671.4	1656.1	1639.0	1624.7	1611.3
35°	1599.9	1591.3	1579.9	1571.3	1567.5	1558.9	1545.6	1532.2	1523.7	1507.5	1500.8
37.5°	1463.6	1460.8	1449.3	1440.8	1437.9	1427.4	1420.7	1411.2	1398.8	1395.0	1387.4
40°	1323.6	1321.6	1315.0	1314.0	1308.3	1305.4	1295.9	1288.3	1282.6	1279.7	1275.0
42.5°	1194.9	1193.0	1187.3	1188.2	1182.5	1180.6	1179.7	1173.0	1168.2	1162.5	1163.5
45°	1068.2	1066.3	1062.5	1060.6	1063.4	1062.5	1060.6	1057.7	1057.7	1058.7	1055.8
47.5°	946.2	948.1	944.3	946.2	946.2	943.4	943.4	947.2	948.1	950.0	951.9
50°	830.9	836.6	834.7	837.6	838.5	839.5	836.6	841.4	840.4	849.0	847.1
52.5°	726.1	727.0	730.9	731.8	732.8	733.7	738.5	742.3	743.2	747.1	753.7
55°	625.1	626.0	633.7	633.7	638.4	639.4	646.1	648.0	650.8	661.3	663.2
57.5°	529.8	535.5	539.3	541.2	544.1	548.9	552.7	561.2	566.0	572.7	579.4
60°	444.0	450.7	455.5	457.4	461.2	466.9	471.7	481.2	489.8	497.4	502.2
62.5°	365.0	370.7	374.5	381.2	381.2	385.9	397.4	403.1	412.6	419.3	427.8
65°	294.4	298.3	304.9	304.9	308.7	316.4	325.9	334.5	344.0	353.5	362.1
67.5°	230.6	233.5	237.3	241.1	243.0	252.5	260.1	272.5	281.1	287.8	298.3
70°	174.4	176.3	181.0	184.9	187.7	194.4	203.0	211.5	220.1	227.7	238.2
72.5°	124.8	128.6	133.4	136.3	138.2	142.9	151.5	160.1	167.7	175.3	181.0
75°	85.8	88.6	90.5	93.4	96.2	100.1	105.8	111.5	120.1	127.7	134.4
77.5°	53.4	56.2	59.1	60.0	61.0	64.8	68.6	74.3	80.0	85.8	90.5
80°	31.4	32.4	33.4	34.3	36.2	39.1	41.0	44.8	48.6	52.4	57.2
82.5°	16.2	17.2	18.1	18.1	18.1	19.1	21.9	23.8	24.8	26.7	29.5
85°	6.7	6.7	6.7	7.6	7.6	8.6	8.6	9.5	9.5	10.5	11.4
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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: P879456

CATALOG NUMBER: LD4C55D010 EU4559050 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7	2594.7
2.5°	2585.2	2585.2	2585.2	2584.2	2585.2	2585.2	2585.2	2584.2
5°	2560.4	2558.5	2558.5	2557.5	2556.6	2556.6	2557.5	2555.6
7.5°	2519.4	2516.6	2514.7	2514.7	2513.7	2512.8	2512.8	2508.0
10°	2466.1	2460.3	2460.3	2458.4	2450.8	2449.9	2448.0	2448.0
12.5°	2399.4	2392.7	2388.9	2384.1	2379.3	2375.5	2374.6	2370.8
15°	2320.3	2311.7	2305.0	2303.1	2295.5	2289.8	2289.8	2287.9
17.5°	2234.5	2221.2	2216.4	2211.6	2201.2	2200.2	2198.3	2189.7
20°	2137.3	2124.9	2118.3	2113.5	2106.8	2097.3	2095.4	2096.3
22.5°	2035.4	2018.2	2012.5	2007.7	2001.1	1992.5	1992.5	1985.8
25°	1929.6	1914.3	1908.6	1902.9	1892.4	1888.6	1883.9	1884.8
27.5°	1821.9	1807.6	1802.9	1792.4	1785.7	1780.9	1776.2	1776.2
30°	1709.5	1701.8	1694.2	1693.3	1679.9	1674.2	1669.5	1665.6
32.5°	1600.8	1591.3	1587.5	1583.7	1577.0	1569.4	1568.4	1561.8
35°	1494.1	1484.6	1479.8	1476.0	1468.4	1465.5	1462.7	1464.6
37.5°	1381.7	1379.8	1376.9	1372.2	1367.4	1366.4	1362.6	1367.4
40°	1271.1	1270.2	1266.4	1267.3	1267.3	1265.4	1267.3	1267.3
42.5°	1164.4	1164.4	1160.6	1162.5	1163.5	1165.4	1168.2	1170.1
45°	1060.6	1059.6	1060.6	1062.5	1060.6	1065.3	1069.1	1072.0
47.5°	953.8	954.8	958.6	959.6	961.5	968.1	968.1	968.1
50°	851.9	856.6	854.7	860.5	859.5	863.3	859.5	859.5
52.5°	754.7	759.4	760.4	761.4	767.1	768.0	768.0	767.1
55°	668.0	674.6	671.8	676.5	679.4	681.3	684.2	682.3
57.5°	587.9	590.8	593.6	594.6	598.4	600.3	602.2	600.3
60°	508.8	514.6	519.3	520.3	522.2	524.1	525.0	527.9
62.5°	434.5	444.0	445.9	446.9	451.7	454.5	456.4	458.3
65°	368.8	375.4	380.2	383.1	386.9	386.9	389.7	389.7
67.5°	304.9	311.6	314.5	316.4	322.1	323.0	327.8	327.8
70°	246.8	251.6	253.5	256.3	262.0	265.9	267.8	269.7
72.5°	190.6	196.3	199.2	203.0	206.8	209.6	210.6	213.4
75°	139.1	147.7	148.6	152.5	155.3	159.1	161.0	160.1
77.5°	97.2	100.1	103.9	105.8	108.6	111.5	114.3	114.3
80°	60.0	63.8	64.8	65.7	69.6	71.5	73.4	73.4
82.5°	31.4	33.4	35.3	36.2	38.1	38.1	39.1	40.0
85°	12.4	13.3	13.3	13.3	14.3	15.2	15.2	15.2
87.5°	1.9	2.9	1.9	1.9	2.9	2.9	2.9	2.9
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)