

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: P879452

Luminaire Tested: **LD4C55D010 EU4559035 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: P879452
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 EU4559035 4LBLDWWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

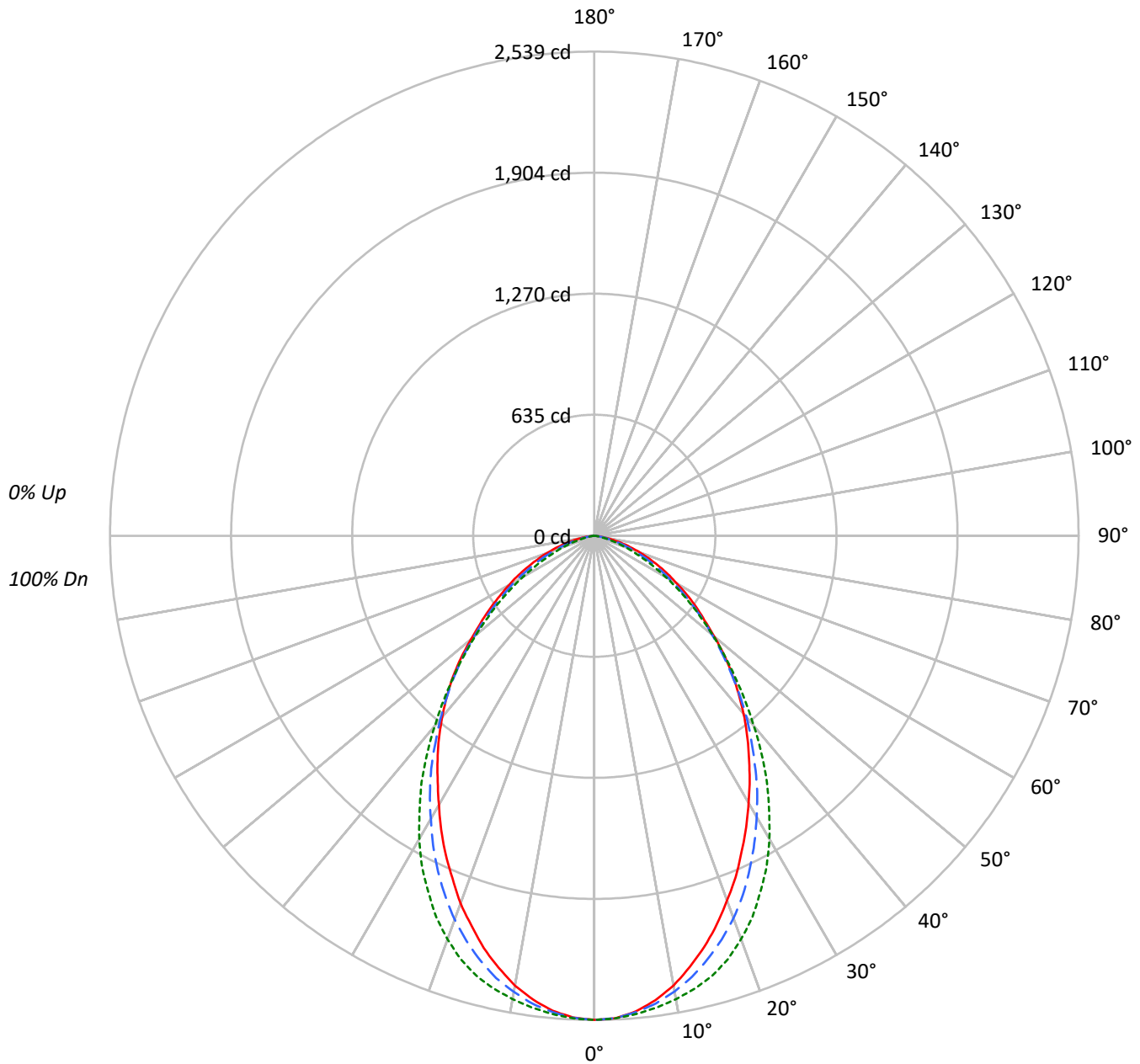
Lumens per Lamp: N/A
Luminaire Lumens: 4541.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	100	108	105	102	99		101	98	96		97	95	93		93	92	90
2	103	96	90	85	100	94	89	84		90	86	82		87	84	80		84	81	79
3	95	86	79	73	92	84	78	73		81	76	71		79	74	70		76	72	69
4	88	77	70	64	86	76	69	63		74	68	63		71	66	62		69	65	61
5	81	70	62	56	80	69	62	56		67	61	56		65	59	55		63	58	54
6	76	64	56	50	74	63	56	50		61	55	50		60	54	49		58	53	49
7	71	59	51	45	69	58	50	45		56	50	45		55	49	44		54	48	44
8	66	54	46	41	65	53	46	41		52	45	41		51	45	40		50	44	40
9	62	50	42	37	61	49	42	37		48	42	37		47	41	37		46	41	37
10	59	46	39	34	57	46	39	34		45	39	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	311900	311900	311900
5°	308726	310440	308381
10°	298686	307755	298798
15°	283768	303812	284721
20°	265973	294252	268170
25°	247711	279187	249988
30°	229471	260425	231202
35°	211707	236738	214916
40°	195287	208582	198864
45°	176886	180778	182237
50°	156819	154850	160737
55°	139779	130398	142992
60°	122337	105826	126908
65°	107063	81860	110842
70°	90087	59950	94793
75°	70346	38923	74333
80°	46199	20446	50797
85°	15787	9162	21003



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.0	5.2
10°-20°	647.6	14.3
20°-30°	890.6	19.6
30°-40°	929.1	20.5
40°-50°	794.9	17.5
50°-60°	568.6	12.5
60°-70°	329.9	7.3
70°-80°	127.2	2.8
80°-90°	16.2	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°	1775.2	39.1
0°-40°	2704.2	59.6
0°-60°	4067.7	89.6
0°-90°	4541.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4541.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2539	2539	2539	2539	2539	
5°	2503	2508	2517	2508	2501	235
15°	2231	2298	2389	2307	2239	625
25°	1827	1928	2060	1940	1844	841
35°	1412	1468	1578	1491	1433	884
45°	1018	1010	1040	1035	1049	785
55°	653	620	609	637	668	584
65°	368	325	282	337	381	367
75°	148	111	82	118	157	159
85°	11	8	6	9	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°	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8
2.5°	2532.3	2530.4	2531.3	2531.3	2531.3	2530.4	2532.3	2532.3	2531.3	2531.3	2531.3
5°	2503.4	2501.5	2502.4	2503.4	2503.4	2503.4	2504.3	2505.2	2506.2	2507.1	2508.0
7.5°	2456.7	2453.9	2456.7	2460.5	2460.5	2461.4	2462.3	2463.3	2466.1	2470.7	2473.5
10°	2394.3	2394.3	2395.2	2398.0	2402.7	2401.7	2404.5	2409.2	2414.8	2421.3	2426.0
12.5°	2315.0	2316.9	2319.7	2322.5	2327.1	2329.9	2334.6	2340.2	2349.5	2358.8	2369.1
15°	2231.1	2232.0	2233.0	2239.5	2244.2	2250.7	2254.4	2265.6	2274.0	2287.1	2298.2
17.5°	2136.9	2136.0	2138.8	2144.4	2155.6	2158.4	2163.1	2175.2	2187.3	2205.0	2219.9
20°	2034.4	2040.0	2043.7	2051.2	2057.7	2065.2	2068.9	2083.8	2097.8	2114.6	2134.2
22.5°	1937.4	1932.8	1939.3	1947.7	1953.3	1958.9	1965.4	1981.2	1996.2	2016.7	2036.3
25°	1827.4	1830.2	1834.9	1841.4	1848.9	1856.3	1863.8	1880.6	1888.9	1910.4	1928.1
27.5°	1723.0	1727.6	1729.5	1737.9	1744.4	1750.0	1753.8	1773.3	1780.8	1799.4	1817.2
30°	1617.6	1622.3	1622.3	1631.6	1636.3	1641.9	1651.2	1664.2	1675.4	1688.5	1701.5
32.5°	1516.0	1516.0	1519.7	1528.1	1532.8	1539.3	1542.1	1551.4	1562.6	1575.7	1589.7
35°	1411.6	1414.4	1418.1	1418.1	1426.5	1430.2	1434.0	1443.3	1450.7	1456.3	1467.5
37.5°	1315.5	1315.5	1312.8	1317.4	1323.0	1322.1	1327.7	1332.3	1337.0	1343.5	1352.8
40°	1217.7	1217.7	1213.9	1216.7	1220.4	1219.5	1217.7	1222.3	1226.0	1230.7	1240.0
42.5°	1117.9	1116.0	1115.1	1115.1	1117.0	1115.1	1117.0	1117.9	1117.9	1117.9	1123.5
45°	1018.1	1022.8	1017.2	1015.3	1012.5	1009.7	1008.8	1009.7	1013.5	1008.8	1009.7
47.5°	920.2	922.1	918.4	915.6	912.8	910.9	912.8	907.2	909.0	910.0	906.2
50°	820.5	816.7	816.7	813.9	814.9	813.9	812.1	810.2	810.2	805.6	802.8
52.5°	728.2	730.0	731.9	725.4	726.3	721.6	722.6	717.9	717.9	712.3	714.2
55°	652.6	649.8	649.8	647.1	646.1	641.5	640.5	637.7	631.2	627.5	620.0
57.5°	574.3	573.4	569.7	570.6	565.0	564.1	562.2	557.5	552.9	548.2	539.8
60°	497.9	498.8	498.8	496.9	494.1	489.5	490.4	483.9	477.4	469.0	461.5
62.5°	434.5	431.7	430.7	428.9	423.3	423.3	418.6	414.0	407.4	399.0	392.5
65°	368.3	369.2	366.4	363.6	358.0	357.1	353.4	349.6	343.1	334.7	325.4
67.5°	308.6	306.7	305.8	303.0	297.4	296.5	293.7	285.3	279.7	271.3	263.9
70°	250.8	248.9	249.9	245.2	239.6	236.8	235.9	229.4	221.0	214.4	207.0
72.5°	196.7	196.7	195.8	191.1	188.3	186.5	182.7	175.3	170.6	163.2	157.6
75°	148.2	147.3	145.4	142.6	138.9	137.1	135.2	130.5	124.0	115.6	110.9
77.5°	102.6	103.5	101.6	100.7	96.0	93.2	92.3	89.5	83.9	78.3	73.7
80°	65.3	64.3	63.4	61.5	60.6	59.7	56.9	55.0	49.4	46.6	43.8
82.5°	35.4	33.6	33.6	32.6	30.8	29.8	28.9	27.0	26.1	24.2	22.4
85°	11.2	12.1	11.2	11.2	11.2	10.3	10.3	10.3	9.3	9.3	8.4
87.5°	0.9	1.9	0.9	0.9	1.9	0.9	0.9	1.9	0.9	0.9	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8
2.5°	2531.3	2532.3	2532.3	2533.2	2533.2	2533.2	2533.2	2533.2	2533.2	2533.2	2533.2
5°	2510.8	2510.8	2512.7	2514.6	2514.6	2514.6	2515.5	2517.3	2517.3	2517.3	2516.4
7.5°	2477.3	2481.0	2484.7	2488.4	2489.4	2490.3	2492.2	2495.9	2495.9	2495.9	2495.9
10°	2433.4	2441.8	2446.5	2452.1	2454.9	2456.7	2462.3	2463.3	2466.1	2467.0	2466.1
12.5°	2377.5	2388.7	2398.9	2408.3	2412.0	2415.7	2421.3	2426.9	2429.7	2432.5	2431.6
15°	2315.0	2327.1	2343.0	2353.3	2360.7	2366.3	2374.7	2382.2	2386.8	2388.7	2388.7
17.5°	2239.5	2254.4	2271.2	2288.0	2292.7	2302.0	2311.3	2321.6	2327.1	2328.1	2327.1
20°	2155.6	2172.4	2186.4	2203.1	2213.4	2218.1	2231.1	2244.2	2249.8	2250.7	2249.8
22.5°	2055.8	2071.7	2090.3	2108.0	2116.4	2124.8	2138.8	2151.9	2159.3	2164.9	2159.3
25°	1944.9	1967.3	1985.0	1999.9	2012.0	2020.4	2038.1	2048.4	2060.5	2059.6	2060.5
27.5°	1835.8	1854.4	1874.0	1891.7	1899.2	1908.5	1922.5	1939.3	1949.5	1956.1	1955.1
30°	1723.9	1738.8	1755.6	1771.5	1783.6	1791.0	1811.6	1819.0	1832.1	1835.8	1833.0
32.5°	1605.5	1615.8	1632.5	1654.0	1658.7	1666.1	1679.2	1697.8	1702.5	1704.3	1705.3
35°	1479.6	1499.2	1513.2	1526.3	1530.0	1536.5	1551.4	1565.4	1570.1	1578.5	1574.7
37.5°	1363.1	1374.3	1380.8	1393.9	1405.1	1410.6	1418.1	1427.4	1436.8	1440.5	1439.6
40°	1246.6	1252.1	1257.7	1271.7	1272.7	1272.7	1283.8	1296.9	1296.9	1300.6	1300.6
42.5°	1127.2	1128.1	1135.6	1143.1	1144.9	1146.8	1158.0	1159.8	1165.4	1168.2	1172.0
45°	1011.6	1017.2	1021.9	1022.8	1027.5	1028.4	1031.2	1034.0	1042.4	1040.5	1042.4
47.5°	906.2	909.0	911.8	911.8	914.6	913.7	918.4	915.6	921.2	923.0	925.8
50°	802.8	807.4	804.6	806.5	805.6	808.3	806.5	806.5	806.5	810.2	813.0
52.5°	707.7	708.6	705.8	706.7	706.7	704.9	706.7	705.8	704.9	704.9	705.8
55°	620.0	616.3	614.4	610.7	606.0	611.6	608.8	607.0	610.7	608.8	610.7
57.5°	535.2	530.5	526.8	524.9	518.4	522.1	518.4	516.5	516.5	516.5	521.2
60°	455.0	450.3	445.7	440.1	439.1	437.3	435.4	430.7	431.7	430.7	432.6
62.5°	385.1	375.7	369.2	364.5	363.6	360.8	358.0	353.4	354.3	354.3	355.2
65°	320.7	310.5	301.1	294.6	294.6	290.0	285.3	285.3	279.7	281.6	282.5
67.5°	256.4	248.0	238.7	234.0	231.2	227.5	224.7	222.8	220.0	220.0	221.9
70°	198.6	190.2	185.5	178.1	177.1	174.3	170.6	167.8	166.9	166.9	166.0
72.5°	150.1	142.6	137.1	132.4	129.6	126.8	123.1	122.1	120.3	120.3	122.1
75°	104.4	99.8	95.1	90.4	88.6	87.6	84.8	83.0	83.0	82.0	83.0
77.5°	69.9	65.3	60.6	58.7	56.9	55.0	54.1	53.1	50.3	50.3	50.3
80°	40.1	38.2	36.4	33.6	33.6	32.6	30.8	29.8	28.9	28.9	28.9
82.5°	20.5	19.6	17.7	16.8	16.8	16.8	15.8	15.8	14.9	14.9	14.9
85°	8.4	7.5	6.5	6.5	6.5	6.5	6.5	6.5	7.5	6.5	7.5
87.5°	0.9	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8
2.5°	2533.2	2532.3	2532.3	2532.3	2532.3	2532.3	2531.3	2531.3	2530.4	2530.4	2530.4
5°	2517.3	2516.4	2515.5	2514.6	2513.6	2512.7	2511.8	2510.8	2508.0	2507.1	2505.2
7.5°	2495.0	2493.1	2490.3	2489.4	2487.5	2484.7	2481.0	2479.1	2475.4	2470.7	2468.9
10°	2465.1	2461.4	2458.6	2453.9	2453.0	2449.3	2440.0	2435.3	2428.8	2423.2	2416.7
12.5°	2428.8	2425.0	2418.5	2412.0	2408.3	2399.9	2391.5	2384.0	2375.6	2363.5	2354.2
15°	2384.0	2378.4	2365.4	2363.5	2357.9	2344.9	2333.7	2319.7	2306.6	2293.6	2282.4
17.5°	2324.4	2312.2	2305.7	2297.3	2290.8	2274.0	2261.9	2246.0	2228.3	2213.4	2197.6
20°	2246.0	2233.0	2221.8	2217.1	2208.7	2193.8	2178.9	2159.3	2141.6	2123.0	2109.0
22.5°	2152.8	2144.4	2127.6	2122.0	2111.8	2096.9	2079.1	2060.5	2043.7	2023.2	2004.6
25°	2053.0	2040.9	2027.9	2016.7	2009.2	1995.2	1972.9	1958.9	1940.2	1917.8	1903.9
27.5°	1946.7	1932.8	1914.1	1906.7	1900.1	1881.5	1862.8	1845.1	1830.2	1810.6	1798.5
30°	1823.7	1813.4	1801.3	1792.0	1782.7	1767.7	1751.0	1730.4	1714.6	1705.3	1688.5
32.5°	1698.7	1690.4	1674.5	1669.8	1659.6	1647.5	1635.3	1620.4	1603.6	1589.7	1576.6
35°	1565.4	1557.0	1545.8	1537.4	1533.7	1525.3	1512.3	1499.2	1490.8	1475.0	1468.5
37.5°	1432.1	1429.3	1418.1	1409.7	1406.9	1396.7	1390.1	1380.8	1368.7	1365.0	1357.5
40°	1295.0	1293.2	1286.6	1285.7	1280.1	1277.3	1268.0	1260.5	1254.9	1252.1	1247.5
42.5°	1169.2	1167.3	1161.7	1162.6	1157.0	1155.2	1154.3	1147.7	1143.1	1137.5	1138.4
45°	1045.2	1043.3	1039.6	1037.7	1040.5	1039.6	1037.7	1034.9	1034.9	1035.8	1033.0
47.5°	925.8	927.7	924.0	925.8	925.8	923.0	923.0	926.8	927.7	929.6	931.4
50°	813.0	818.6	816.7	819.5	820.5	821.4	818.6	823.3	822.3	830.7	828.9
52.5°	710.5	711.4	715.1	716.0	717.0	717.9	722.6	726.3	727.2	731.0	737.5
55°	611.6	612.6	620.0	620.0	624.7	625.6	632.1	634.0	636.8	647.1	648.9
57.5°	518.4	524.0	527.7	529.6	532.4	537.0	540.8	549.2	553.8	560.3	566.9
60°	434.5	441.0	445.7	447.5	451.3	456.9	461.5	470.8	479.2	486.7	491.3
62.5°	357.1	362.7	366.4	372.9	372.9	377.6	388.8	394.4	403.7	410.2	418.6
65°	288.1	291.8	298.4	298.4	302.1	309.5	318.9	327.3	336.6	345.9	354.3
67.5°	225.6	228.4	232.2	235.9	237.7	247.1	254.5	266.7	275.0	281.6	291.8
70°	170.6	172.5	177.1	180.9	183.7	190.2	198.6	207.0	215.4	222.8	233.1
72.5°	122.1	125.9	130.5	133.3	135.2	139.9	148.2	156.6	164.1	171.6	177.1
75°	83.9	86.7	88.6	91.4	94.2	97.9	103.5	109.1	117.5	124.9	131.5
77.5°	52.2	55.0	57.8	58.7	59.7	63.4	67.1	72.7	78.3	83.9	88.6
80°	30.8	31.7	32.6	33.6	35.4	38.2	40.1	43.8	47.5	51.3	55.9
82.5°	15.8	16.8	17.7	17.7	17.7	18.6	21.4	23.3	24.2	26.1	28.9
85°	6.5	6.5	6.5	7.5	7.5	8.4	8.4	9.3	9.3	10.3	11.2
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: P879452

CATALOG NUMBER: LD4C55D010 EU4559035 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8	2538.8
2.5°	2529.5	2529.5	2529.5	2528.5	2529.5	2529.5	2529.5	2528.5
5°	2505.2	2503.4	2503.4	2502.4	2501.5	2501.5	2502.4	2500.6
7.5°	2465.1	2462.3	2460.5	2460.5	2459.5	2458.6	2458.6	2453.9
10°	2412.9	2407.3	2407.3	2405.5	2398.0	2397.1	2395.2	2395.2
12.5°	2347.7	2341.1	2337.4	2332.7	2328.1	2324.4	2323.4	2319.7
15°	2270.3	2261.9	2255.4	2253.5	2246.0	2240.4	2240.4	2238.6
17.5°	2186.4	2173.3	2168.6	2164.0	2153.7	2152.8	2150.9	2142.5
20°	2091.3	2079.1	2072.6	2068.0	2061.4	2052.1	2050.2	2051.2
22.5°	1991.5	1974.7	1969.1	1964.5	1957.9	1949.5	1949.5	1943.0
25°	1888.0	1873.1	1867.5	1861.9	1851.6	1847.9	1843.3	1844.2
27.5°	1782.7	1768.7	1764.0	1753.8	1747.2	1742.6	1737.9	1737.9
30°	1672.6	1665.2	1657.7	1656.8	1643.7	1638.1	1633.5	1629.8
32.5°	1566.4	1557.0	1553.3	1549.6	1543.0	1535.6	1534.7	1528.1
35°	1461.9	1452.6	1447.9	1444.2	1436.8	1434.0	1431.2	1433.0
37.5°	1351.9	1350.0	1347.2	1342.6	1337.9	1337.0	1333.3	1337.9
40°	1243.8	1242.8	1239.1	1240.0	1240.0	1238.2	1240.0	1240.0
42.5°	1139.3	1139.3	1135.6	1137.5	1138.4	1140.3	1143.1	1144.9
45°	1037.7	1036.8	1037.7	1039.6	1037.7	1042.4	1046.1	1048.9
47.5°	933.3	934.2	937.9	938.9	940.7	947.3	947.3	947.3
50°	833.5	838.2	836.3	841.9	841.0	844.7	841.0	841.0
52.5°	738.4	743.1	744.0	744.9	750.5	751.5	751.5	750.5
55°	653.6	660.1	657.3	662.0	664.8	666.6	669.4	667.6
57.5°	575.3	578.1	580.9	581.8	585.5	587.4	589.2	587.4
60°	497.9	503.5	508.1	509.1	510.9	512.8	513.7	516.5
62.5°	425.2	434.5	436.3	437.3	441.9	444.7	446.6	448.5
65°	360.8	367.3	372.0	374.8	378.5	378.5	381.3	381.3
67.5°	298.4	304.9	307.7	309.5	315.1	316.1	320.7	320.7
70°	241.5	246.1	248.0	250.8	256.4	260.1	262.0	263.9
72.5°	186.5	192.1	194.9	198.6	202.3	205.1	206.0	208.8
75°	136.1	144.5	145.4	149.2	152.0	155.7	157.6	156.6
77.5°	95.1	97.9	101.6	103.5	106.3	109.1	111.9	111.9
80°	58.7	62.5	63.4	64.3	68.1	69.9	71.8	71.8
82.5°	30.8	32.6	34.5	35.4	37.3	37.3	38.2	39.2
85°	12.1	13.1	13.1	13.1	14.0	14.9	14.9	14.9
87.5°	1.9	2.8	1.9	1.9	2.8	2.8	2.8	2.8
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)