

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: P879448

Luminaire Tested: **LD4C55D010 EU4559027 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: P879448
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 EU4559027 4LBLDWWH
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

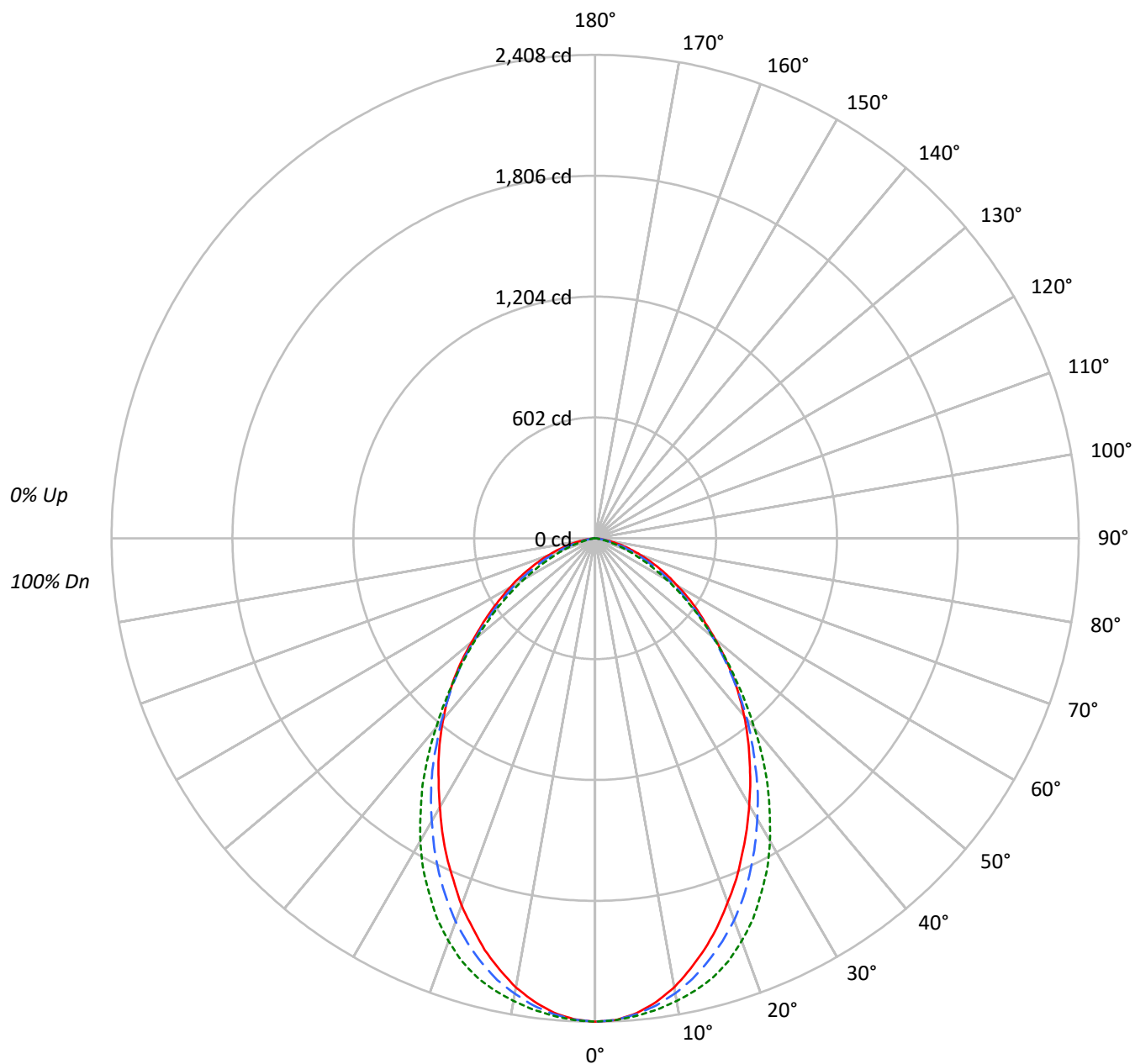
Lumens per Lamp: N/A
Luminaire Lumens: 4307.0 lumens
Efficiency: N/A
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88		
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77		
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67		
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59		
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52		
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47		
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42		
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38		
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35		
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	295831	295831	295831
5°	292818	294445	292485
10°	283292	291899	283404
15°	269141	288155	270044
20°	252272	279086	254351
25°	234942	264791	237111
30°	217654	247005	219286
35°	200788	224530	203848
40°	185216	197837	188616
45°	167782	171465	172838
50°	148734	146880	152442
55°	132583	123694	135624
60°	116023	100371	120372
65°	101540	77645	105145
70°	85454	56861	89908
75°	66739	36929	70536
80°	43793	19385	48180
85°	14942	8739	19875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.8	5.2
10°-20°	614.2	14.3
20°-30°	844.7	19.6
30°-40°	881.2	20.5
40°-50°	753.9	17.5
50°-60°	539.3	12.5
60°-70°	312.9	7.3
70°-80°	120.6	2.8
80°-90°	15.4	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°	1683.7	39.1
0°-40°	2564.9	59.6
0°-60°	3858.1	89.6
0°-90°	4307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4307.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2408	2408	2408	2408	2408	
5°	2374	2379	2388	2379	2372	223
15°	2116	2180	2266	2188	2123	593
25°	1733	1829	1953	1840	1749	797
35°	1339	1392	1497	1414	1359	839
45°	966	958	987	982	995	744
55°	619	588	578	604	633	554
65°	349	309	267	319	362	348
75°	141	105	78	111	149	151
85°	11	8	6	9	14	21
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°	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0
2.5°	2401.8	2400.0	2400.9	2400.9	2400.9	2400.0	2401.8	2401.8	2400.9	2400.9	2400.9
5°	2374.4	2372.6	2373.5	2374.4	2374.4	2374.4	2375.2	2376.1	2377.0	2377.9	2378.8
7.5°	2330.1	2327.5	2330.1	2333.7	2333.7	2334.6	2335.5	2336.3	2339.0	2343.4	2346.1
10°	2270.9	2270.9	2271.8	2274.4	2278.9	2278.0	2280.6	2285.0	2290.4	2296.5	2301.0
12.5°	2195.7	2197.5	2200.2	2202.8	2207.2	2209.9	2214.3	2219.6	2228.5	2237.3	2247.0
15°	2116.1	2117.0	2117.9	2124.1	2128.5	2134.7	2138.3	2148.9	2156.8	2169.2	2179.8
17.5°	2026.8	2025.9	2028.6	2033.9	2044.5	2047.2	2051.6	2063.1	2074.6	2091.4	2105.5
20°	1929.6	1934.9	1938.4	1945.5	1951.7	1958.7	1962.3	1976.4	1989.7	2005.6	2024.2
22.5°	1837.6	1833.2	1839.4	1847.3	1852.6	1857.9	1864.1	1879.2	1893.3	1912.8	1931.3
25°	1733.2	1735.9	1740.3	1746.5	1753.6	1760.7	1767.7	1783.6	1791.6	1811.9	1828.7
27.5°	1634.2	1638.6	1640.4	1648.3	1654.5	1659.8	1663.4	1682.0	1689.0	1706.7	1723.5
30°	1534.3	1538.7	1538.7	1547.5	1552.0	1557.3	1566.1	1578.5	1589.1	1601.5	1613.9
32.5°	1437.9	1437.9	1441.4	1449.4	1453.8	1460.0	1462.6	1471.5	1482.1	1494.5	1507.7
35°	1338.8	1341.5	1345.0	1345.0	1353.0	1356.5	1360.1	1368.9	1376.0	1381.3	1391.9
37.5°	1247.8	1247.8	1245.1	1249.5	1254.8	1253.9	1259.3	1263.7	1268.1	1274.3	1283.1
40°	1154.9	1154.9	1151.4	1154.0	1157.6	1156.7	1154.9	1159.3	1162.9	1167.3	1176.1
42.5°	1060.3	1058.5	1057.6	1057.6	1059.4	1057.6	1059.4	1060.3	1060.3	1060.3	1065.6
45°	965.7	970.1	964.8	963.0	960.4	957.7	956.8	957.7	961.2	956.8	957.7
47.5°	872.8	874.6	871.0	868.4	865.7	864.0	865.7	860.4	862.2	863.1	859.5
50°	778.2	774.7	774.7	772.0	772.9	772.0	770.2	768.5	768.5	764.0	761.4
52.5°	690.6	692.4	694.2	688.0	688.9	684.5	685.3	680.9	680.9	675.6	677.4
55°	619.0	616.4	616.4	613.7	612.8	608.4	607.5	604.9	598.7	595.1	588.1
57.5°	544.7	543.8	540.3	541.2	535.9	535.0	533.2	528.8	524.4	520.0	512.0
60°	472.2	473.1	473.1	471.3	468.7	464.3	465.1	459.0	452.8	444.8	437.7
62.5°	412.1	409.4	408.5	406.8	401.5	401.5	397.1	392.6	386.4	378.5	372.3
65°	349.3	350.2	347.5	344.9	339.6	338.7	335.2	331.6	325.4	317.5	308.6
67.5°	292.7	290.9	290.1	287.4	282.1	281.2	278.6	270.6	265.3	257.3	250.3
70°	237.9	236.1	237.0	232.6	227.3	224.6	223.7	217.5	209.6	203.4	196.3
72.5°	186.6	186.6	185.7	181.3	178.6	176.9	173.3	166.2	161.8	154.8	149.4
75°	140.6	139.7	138.0	135.3	131.8	130.0	128.2	123.8	117.6	109.7	105.2
77.5°	97.3	98.2	96.4	95.5	91.1	88.4	87.5	84.9	79.6	74.3	69.9
80°	61.9	61.0	60.1	58.4	57.5	56.6	53.9	52.2	46.9	44.2	41.6
82.5°	33.6	31.8	31.8	31.0	29.2	28.3	27.4	25.6	24.8	23.0	21.2
85°	10.6	11.5	10.6	10.6	10.6	9.7	9.7	9.7	8.8	8.8	8.0
87.5°	0.9	1.8	0.9	0.9	1.8	0.9	0.9	1.8	0.9	0.9	1.8
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°	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0
2.5°	2400.9	2401.8	2401.8	2402.7	2402.7	2402.7	2402.7	2402.7	2402.7	2402.7	2402.7
5°	2381.4	2381.4	2383.2	2385.0	2385.0	2385.0	2385.9	2387.6	2387.6	2387.6	2386.7
7.5°	2349.6	2353.1	2356.7	2360.2	2361.1	2362.0	2363.8	2367.3	2367.3	2367.3	2367.3
10°	2308.0	2316.0	2320.4	2325.7	2328.4	2330.1	2335.5	2336.3	2339.0	2339.9	2339.0
12.5°	2255.0	2265.6	2275.3	2284.2	2287.7	2291.2	2296.5	2301.9	2304.5	2307.2	2306.3
15°	2195.7	2207.2	2222.3	2232.0	2239.1	2244.4	2252.3	2259.4	2263.8	2265.6	2265.6
17.5°	2124.1	2138.3	2154.2	2170.1	2174.5	2183.4	2192.2	2201.9	2207.2	2208.1	2207.2
20°	2044.5	2060.4	2073.7	2089.6	2099.3	2103.8	2116.1	2128.5	2133.8	2134.7	2133.8
22.5°	1949.9	1964.9	1982.6	1999.4	2007.4	2015.3	2028.6	2041.0	2048.1	2053.4	2048.1
25°	1844.7	1865.9	1882.7	1896.8	1908.3	1916.3	1933.1	1942.8	1954.3	1953.4	1954.3
27.5°	1741.2	1758.9	1777.5	1794.3	1801.3	1810.2	1823.4	1839.4	1849.1	1855.3	1854.4
30°	1635.1	1649.2	1665.1	1680.2	1691.7	1698.8	1718.2	1725.3	1737.7	1741.2	1738.5
32.5°	1522.8	1532.5	1548.4	1568.8	1573.2	1580.3	1592.6	1610.3	1614.7	1616.5	1617.4
35°	1403.4	1422.0	1435.2	1447.6	1451.1	1457.3	1471.5	1484.8	1489.2	1497.1	1493.6
37.5°	1292.9	1303.5	1309.7	1322.0	1332.7	1338.0	1345.0	1353.9	1362.7	1366.3	1365.4
40°	1182.3	1187.6	1192.9	1206.2	1207.1	1207.1	1217.7	1230.1	1230.1	1233.6	1233.6
42.5°	1069.1	1070.0	1077.1	1084.2	1085.9	1087.7	1098.3	1100.1	1105.4	1108.0	1111.6
45°	959.5	964.8	969.2	970.1	974.5	975.4	978.0	980.7	988.7	986.9	988.7
47.5°	859.5	862.2	864.9	864.9	867.5	866.6	871.0	868.4	873.7	875.5	878.1
50°	761.4	765.8	763.2	764.9	764.0	766.7	764.9	764.9	764.9	768.5	771.1
52.5°	671.2	672.1	669.4	670.3	670.3	668.5	670.3	669.4	668.5	668.5	669.4
55°	588.1	584.5	582.8	579.2	574.8	580.1	577.5	575.7	579.2	577.5	579.2
57.5°	507.6	503.2	499.6	497.9	491.7	495.2	491.7	489.9	489.9	489.9	494.3
60°	431.5	427.1	422.7	417.4	416.5	414.7	413.0	408.5	409.4	408.5	410.3
62.5°	365.2	356.4	350.2	345.8	344.9	342.2	339.6	335.2	336.0	336.0	336.9
65°	304.2	294.5	285.6	279.4	279.4	275.0	270.6	270.6	265.3	267.1	267.9
67.5°	243.2	235.2	226.4	222.0	219.3	215.8	213.1	211.3	208.7	208.7	210.5
70°	188.4	180.4	176.0	168.9	168.0	165.4	161.8	159.2	158.3	158.3	157.4
72.5°	142.4	135.3	130.0	125.6	122.9	120.3	116.7	115.8	114.1	114.1	115.8
75°	99.0	94.6	90.2	85.8	84.0	83.1	80.5	78.7	78.7	77.8	78.7
77.5°	66.3	61.9	57.5	55.7	53.9	52.2	51.3	50.4	47.8	47.8	47.8
80°	38.0	36.3	34.5	31.8	31.8	31.0	29.2	28.3	27.4	27.4	27.4
82.5°	19.5	18.6	16.8	15.9	15.9	15.9	15.0	15.0	14.1	14.1	14.1
85°	8.0	7.1	6.2	6.2	6.2	6.2	6.2	6.2	7.1	6.2	7.1
87.5°	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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°	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0
2.5°	2402.7	2401.8	2401.8	2401.8	2401.8	2401.8	2400.9	2400.9	2400.0	2400.0	2400.0
5°	2387.6	2386.7	2385.9	2385.0	2384.1	2383.2	2382.3	2381.4	2378.8	2377.9	2376.1
7.5°	2366.4	2364.6	2362.0	2361.1	2359.3	2356.7	2353.1	2351.4	2347.8	2343.4	2341.6
10°	2338.1	2334.6	2331.9	2327.5	2326.6	2323.1	2314.2	2309.8	2303.6	2298.3	2292.1
12.5°	2303.6	2300.1	2293.9	2287.7	2284.2	2276.2	2268.2	2261.2	2253.2	2241.7	2232.9
15°	2261.2	2255.9	2243.5	2241.7	2236.4	2224.0	2213.4	2200.2	2187.8	2175.4	2164.8
17.5°	2204.6	2193.1	2186.9	2178.9	2172.7	2156.8	2145.3	2130.3	2113.5	2099.3	2084.3
20°	2130.3	2117.9	2107.3	2102.9	2094.9	2080.8	2066.6	2048.1	2031.3	2013.6	2000.3
22.5°	2041.9	2033.9	2018.0	2012.7	2003.0	1988.8	1972.0	1954.3	1938.4	1918.9	1901.3
25°	1947.2	1935.7	1923.4	1912.8	1905.7	1892.4	1871.2	1857.9	1840.2	1819.0	1805.8
27.5°	1846.4	1833.2	1815.5	1808.4	1802.2	1784.5	1766.8	1750.0	1735.9	1717.3	1705.8
30°	1729.7	1720.0	1708.5	1699.6	1690.8	1676.6	1660.7	1641.3	1626.2	1617.4	1601.5
32.5°	1611.2	1603.2	1588.2	1583.8	1574.1	1562.6	1551.1	1536.9	1521.0	1507.7	1495.4
35°	1484.8	1476.8	1466.2	1458.2	1454.7	1446.7	1434.3	1422.0	1414.0	1399.0	1392.8
37.5°	1358.3	1355.6	1345.0	1337.1	1334.4	1324.7	1318.5	1309.7	1298.2	1294.6	1287.6
40°	1228.3	1226.5	1220.3	1219.5	1214.2	1211.5	1202.7	1195.6	1190.3	1187.6	1183.2
42.5°	1108.9	1107.2	1101.8	1102.7	1097.4	1095.7	1094.8	1088.6	1084.2	1078.9	1079.7
45°	991.3	989.5	986.0	984.2	986.9	986.0	984.2	981.6	981.6	982.5	979.8
47.5°	878.1	879.9	876.3	878.1	878.1	875.5	875.5	879.0	879.9	881.7	883.4
50°	771.1	776.4	774.7	777.3	778.2	779.1	776.4	780.8	780.0	787.9	786.1
52.5°	673.8	674.7	678.3	679.1	680.0	680.9	685.3	688.9	689.8	693.3	699.5
55°	580.1	581.0	588.1	588.1	592.5	593.4	599.6	601.3	604.0	613.7	615.5
57.5°	491.7	497.0	500.5	502.3	504.9	509.4	512.9	520.9	525.3	531.5	537.7
60°	412.1	418.3	422.7	424.5	428.0	433.3	437.7	446.6	454.5	461.6	466.0
62.5°	338.7	344.0	347.5	353.7	353.7	358.1	368.8	374.1	382.9	389.1	397.1
65°	273.3	276.8	283.0	283.0	286.5	293.6	302.4	310.4	319.2	328.1	336.0
67.5°	214.0	216.7	220.2	223.7	225.5	234.3	241.4	252.9	260.9	267.1	276.8
70°	161.8	163.6	168.0	171.6	174.2	180.4	188.4	196.3	204.3	211.3	221.1
72.5°	115.8	119.4	123.8	126.5	128.2	132.6	140.6	148.6	155.6	162.7	168.0
75°	79.6	82.2	84.0	86.7	89.3	92.9	98.2	103.5	111.4	118.5	124.7
77.5°	49.5	52.2	54.8	55.7	56.6	60.1	63.7	69.0	74.3	79.6	84.0
80°	29.2	30.1	31.0	31.8	33.6	36.3	38.0	41.6	45.1	48.6	53.1
82.5°	15.0	15.9	16.8	16.8	16.8	17.7	20.3	22.1	23.0	24.8	27.4
85°	6.2	6.2	6.2	7.1	7.1	8.0	8.0	8.8	8.8	9.7	10.6
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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: P879448

CATALOG NUMBER: LD4C55D010 EU4559027 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0	2408.0
2.5°	2399.1	2399.1	2399.1	2398.2	2399.1	2399.1	2399.1	2398.2
5°	2376.1	2374.4	2374.4	2373.5	2372.6	2372.6	2373.5	2371.7
7.5°	2338.1	2335.5	2333.7	2333.7	2332.8	2331.9	2331.9	2327.5
10°	2288.6	2283.3	2283.3	2281.5	2274.4	2273.6	2271.8	2271.8
12.5°	2226.7	2220.5	2217.0	2212.5	2208.1	2204.6	2203.7	2200.2
15°	2153.3	2145.3	2139.1	2137.4	2130.3	2125.0	2125.0	2123.2
17.5°	2073.7	2061.3	2056.9	2052.5	2042.7	2041.9	2040.1	2032.1
20°	1983.5	1972.0	1965.8	1961.4	1955.2	1946.4	1944.6	1945.5
22.5°	1888.9	1873.0	1867.7	1863.2	1857.0	1849.1	1849.1	1842.9
25°	1790.7	1776.6	1771.3	1766.0	1756.2	1752.7	1748.3	1749.2
27.5°	1690.8	1677.5	1673.1	1663.4	1657.2	1652.8	1648.3	1648.3
30°	1586.4	1579.4	1572.3	1571.4	1559.0	1553.7	1549.3	1545.8
32.5°	1485.6	1476.8	1473.3	1469.7	1463.5	1456.5	1455.6	1449.4
35°	1386.6	1377.8	1373.3	1369.8	1362.7	1360.1	1357.4	1359.2
37.5°	1282.2	1280.5	1277.8	1273.4	1269.0	1268.1	1264.6	1269.0
40°	1179.7	1178.8	1175.2	1176.1	1176.1	1174.4	1176.1	1176.1
42.5°	1080.6	1080.6	1077.1	1078.9	1079.7	1081.5	1084.2	1085.9
45°	984.2	983.3	984.2	986.0	984.2	988.7	992.2	994.8
47.5°	885.2	886.1	889.6	890.5	892.3	898.5	898.5	898.5
50°	790.6	795.0	793.2	798.5	797.6	801.2	797.6	797.6
52.5°	700.4	704.8	705.7	706.6	711.9	712.8	712.8	711.9
55°	619.9	626.1	623.4	627.9	630.5	632.3	634.9	633.2
57.5°	545.6	548.3	550.9	551.8	555.3	557.1	558.9	557.1
60°	472.2	477.5	481.9	482.8	484.6	486.4	487.3	489.9
62.5°	403.2	412.1	413.9	414.7	419.2	421.8	423.6	425.4
65°	342.2	348.4	352.8	355.5	359.0	359.0	361.7	361.7
67.5°	283.0	289.2	291.8	293.6	298.9	299.8	304.2	304.2
70°	229.0	233.5	235.2	237.9	243.2	246.7	248.5	250.3
72.5°	176.9	182.2	184.8	188.4	191.9	194.5	195.4	198.1
75°	129.1	137.1	138.0	141.5	144.1	147.7	149.4	148.6
77.5°	90.2	92.9	96.4	98.2	100.8	103.5	106.1	106.1
80°	55.7	59.2	60.1	61.0	64.6	66.3	68.1	68.1
82.5°	29.2	31.0	32.7	33.6	35.4	35.4	36.3	37.1
85°	11.5	12.4	12.4	12.4	13.3	14.1	14.1	14.1
87.5°	1.8	2.7	1.8	1.8	2.7	2.7	2.7	2.7
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)