

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: P879449

Luminaire Tested: **LD4C55D010 EU4559027 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: P879449
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 EU4559027 4LBLDWWLI
Description: 4 INCH 5500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBLDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

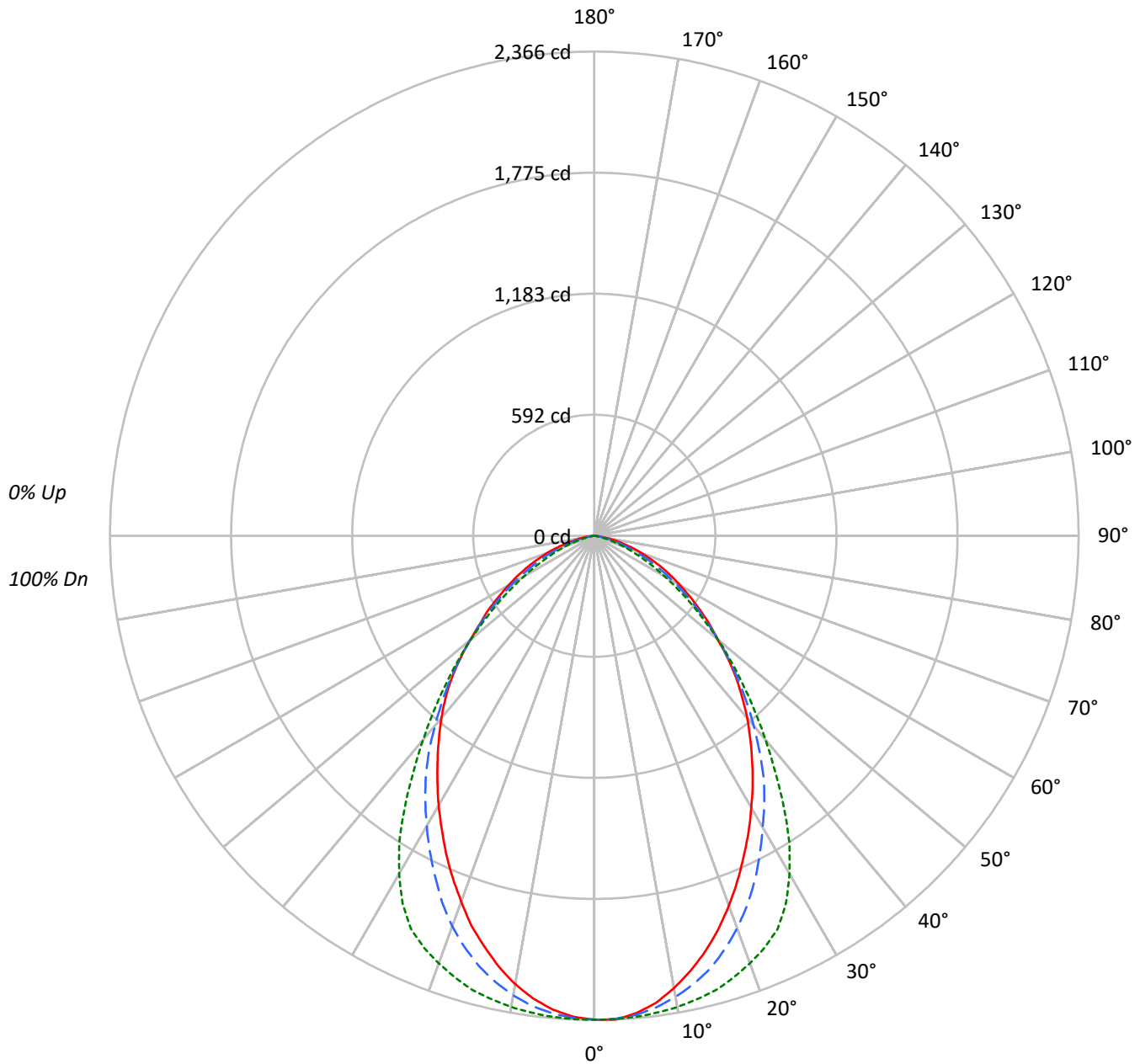
Lumens per Lamp: N/A
Luminaire Lumens: 4343.0 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	290512	290512	290512
5°	288785	290968	286614
10°	279998	291687	277566
15°	267131	292327	264206
20°	251357	290657	248572
25°	234115	287225	232204
30°	217541	270468	215782
35°	201733	241912	200278
40°	186499	208630	186354
45°	169936	178085	171309
50°	150091	150607	150932
55°	134489	123116	135046
60°	118848	97791	119070
65°	104622	74564	103604
70°	86711	53377	86711
75°	67593	30664	65077
80°	43793	7499	41954
85°	16210	2537	12404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.0	5.1
10°-20°	614.2	14.1
20°-30°	858.5	19.8
30°-40°	905.6	20.9
40°-50°	770.4	17.7
50°-60°	543.6	12.5
60°-70°	308.2	7.1
70°-80°	109.9	2.5
80°-90°	10.5	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°	1694.7	39.0
0°-40°	2600.3	59.9
0°-60°	3914.4	90.1
0°-90°	4343.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4343.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2365	2365	2365	2365	2365	
5°	2342	2350	2359	2343	2324	220
15°	2100	2189	2298	2176	2077	589
25°	1727	1856	2119	1839	1713	795
35°	1345	1442	1613	1434	1335	841
45°	978	992	1025	997	986	752
55°	628	607	575	608	630	564
65°	360	309	256	310	356	356
75°	142	97	65	96	137	154
85°	12	4	2	4	9	20
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°	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7
2.5°	2366.5	2362.1	2362.1	2362.1	2362.1	2362.1	2362.1	2362.1	2362.1	2363.0	2363.0
5°	2341.7	2340.0	2339.1	2339.1	2339.1	2339.1	2340.0	2343.5	2345.3	2347.9	2349.7
7.5°	2302.8	2299.3	2301.1	2301.1	2302.8	2304.6	2307.3	2310.8	2316.1	2319.6	2324.1
10°	2244.5	2240.9	2245.4	2247.1	2252.4	2255.1	2259.5	2264.8	2275.4	2280.7	2287.8
12.5°	2176.4	2174.6	2176.4	2183.4	2188.8	2192.3	2197.6	2209.1	2219.7	2231.2	2243.6
15°	2100.3	2095.9	2098.5	2107.4	2116.2	2122.4	2126.8	2141.9	2156.0	2173.7	2188.8
17.5°	2015.4	2009.2	2016.3	2023.4	2034.9	2040.2	2046.4	2063.2	2082.6	2102.1	2118.9
20°	1922.6	1920.8	1925.2	1934.9	1946.4	1953.5	1958.8	1977.4	1994.2	2020.7	2040.2
22.5°	1826.2	1827.9	1831.5	1842.1	1850.0	1859.8	1867.7	1884.5	1904.0	1928.8	1953.5
25°	1727.1	1729.8	1736.0	1743.0	1756.3	1761.6	1771.3	1789.0	1805.8	1828.8	1856.2
27.5°	1631.6	1632.5	1639.6	1643.1	1655.5	1667.0	1671.4	1690.0	1709.4	1727.1	1751.0
30°	1533.5	1536.1	1540.5	1550.3	1562.6	1567.1	1572.4	1589.2	1604.2	1626.3	1644.9
32.5°	1439.7	1437.9	1443.3	1448.6	1462.7	1470.7	1473.3	1492.8	1506.0	1528.1	1545.8
35°	1345.1	1340.7	1348.6	1353.9	1366.3	1373.4	1376.9	1392.0	1404.3	1422.9	1442.4
37.5°	1250.5	1254.0	1257.5	1262.0	1268.2	1269.9	1280.5	1284.1	1300.0	1314.1	1324.7
40°	1162.9	1161.1	1159.4	1163.8	1171.8	1175.3	1176.2	1185.9	1189.4	1203.6	1211.6
42.5°	1069.2	1070.1	1069.2	1070.1	1074.5	1074.5	1077.1	1083.3	1086.0	1090.4	1100.1
45°	978.1	978.1	975.4	976.3	977.2	976.3	977.2	979.9	985.2	985.2	992.2
47.5°	883.5	881.7	885.2	882.6	880.8	879.9	882.6	879.9	885.2	885.2	887.0
50°	785.3	785.3	789.7	788.8	790.6	787.1	788.0	788.0	788.8	788.0	791.5
52.5°	709.2	707.5	705.7	701.3	703.1	699.5	699.5	700.4	697.7	696.9	692.4
55°	627.9	629.7	627.0	625.2	625.2	621.7	620.8	615.5	612.0	609.3	606.7
57.5°	554.5	556.3	555.4	550.9	545.6	546.5	544.8	539.5	531.5	526.2	521.8
60°	483.7	485.5	483.7	479.3	477.5	474.0	473.1	466.0	459.9	452.8	447.5
62.5°	420.1	420.1	419.2	413.0	408.6	409.5	405.0	399.7	391.8	382.0	374.1
65°	359.9	359.0	354.6	352.0	348.4	344.0	341.4	333.4	327.2	319.2	308.6
67.5°	299.8	297.1	295.4	292.7	284.8	283.9	280.3	273.3	264.4	258.2	249.4
70°	241.4	240.5	237.0	237.0	230.8	228.2	222.9	216.7	208.7	199.9	192.8
72.5°	191.0	189.2	185.7	182.2	176.9	175.1	170.7	164.5	157.4	148.6	139.7
75°	142.4	140.6	139.7	135.3	130.9	126.5	124.7	118.5	111.4	105.2	97.3
77.5°	99.9	98.2	95.5	92.9	90.2	87.6	84.9	79.6	73.4	68.1	61.0
80°	61.9	60.1	58.4	57.5	54.8	53.9	50.4	47.8	42.4	38.9	34.5
82.5°	31.8	31.8	30.1	29.2	27.4	26.5	25.6	23.0	20.3	17.7	15.0
85°	11.5	11.5	10.6	9.7	9.7	8.8	8.8	8.0	6.2	6.2	4.4
87.5°	0.9	0.9	1.8	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°	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7
2.5°	2363.9	2363.0	2363.9	2363.9	2364.7	2364.7	2364.7	2363.9	2364.7	2363.9	2363.9
5°	2349.7	2352.4	2354.1	2355.9	2356.8	2357.7	2357.7	2358.5	2359.4	2359.4	2358.5
7.5°	2327.6	2332.9	2338.2	2341.7	2343.5	2345.3	2347.9	2349.7	2351.5	2350.6	2349.7
10°	2298.4	2307.3	2314.3	2321.4	2324.9	2327.6	2332.0	2335.6	2337.3	2338.2	2335.6
12.5°	2256.8	2269.2	2280.7	2292.2	2297.5	2301.1	2309.9	2316.1	2319.6	2319.6	2317.0
15°	2204.7	2222.4	2239.2	2254.2	2263.0	2268.3	2281.6	2290.5	2295.8	2298.4	2294.0
17.5°	2141.9	2162.2	2182.6	2202.0	2210.9	2218.8	2237.4	2249.8	2261.3	2263.0	2257.7
20°	2061.4	2087.1	2110.0	2133.9	2143.7	2156.0	2177.3	2197.6	2215.3	2223.2	2208.2
22.5°	1971.2	1999.5	2020.7	2049.9	2063.2	2076.4	2103.9	2129.5	2160.5	2177.3	2150.7
25°	1877.5	1901.3	1927.0	1955.3	1973.9	1988.0	2019.8	2052.6	2094.1	2118.9	2081.7
27.5°	1776.6	1797.9	1828.8	1859.8	1873.9	1891.6	1929.6	1965.0	2004.8	2026.9	1999.5
30°	1672.3	1698.8	1728.0	1756.3	1776.6	1793.5	1824.4	1854.5	1888.1	1906.6	1886.3
32.5°	1568.8	1594.5	1619.2	1650.2	1661.7	1676.7	1704.1	1729.8	1755.4	1772.2	1748.3
35°	1460.1	1483.0	1506.0	1527.3	1532.6	1550.3	1572.4	1587.4	1599.8	1613.0	1597.1
37.5°	1341.6	1359.2	1370.7	1393.7	1402.6	1405.2	1422.9	1433.5	1446.8	1449.4	1448.6
40°	1221.3	1237.2	1246.9	1261.1	1268.2	1268.2	1280.5	1290.3	1300.0	1300.9	1300.0
42.5°	1109.0	1116.9	1124.9	1133.7	1132.0	1142.6	1147.9	1152.3	1159.4	1159.4	1161.1
45°	995.8	1002.0	1009.0	1010.8	1017.9	1017.9	1022.3	1024.1	1027.6	1025.0	1021.4
47.5°	890.5	893.2	894.1	902.0	903.8	897.6	902.9	903.8	902.9	902.9	901.1
50°	790.6	792.4	791.5	788.8	789.7	792.4	789.7	786.2	788.0	788.0	789.7
52.5°	693.3	689.8	688.0	688.0	684.5	684.5	680.1	678.3	677.4	673.9	678.3
55°	604.0	598.7	590.7	589.0	586.3	585.4	580.1	575.7	573.9	574.8	573.9
57.5°	518.2	510.3	505.0	503.2	500.5	495.2	489.0	484.6	483.7	482.0	482.0
60°	440.4	431.6	423.6	415.6	416.5	413.0	406.8	404.1	401.5	398.0	400.6
62.5°	369.7	359.9	351.1	343.1	337.8	335.2	330.7	326.3	323.7	321.0	324.6
65°	299.8	291.8	282.1	274.1	271.5	268.8	264.4	257.3	256.5	256.5	258.2
67.5°	237.0	228.2	219.3	214.0	210.5	206.9	205.2	201.6	199.0	197.2	198.1
70°	182.2	173.3	166.3	161.0	158.3	157.4	151.2	150.3	149.5	148.6	147.7
72.5°	132.7	125.6	119.4	115.8	112.3	109.7	107.9	105.2	104.4	104.4	104.4
75°	91.1	85.8	78.7	74.3	72.5	69.9	67.2	65.4	63.7	64.6	64.6
77.5°	54.8	49.5	45.1	41.6	40.7	38.0	35.4	33.6	31.0	31.0	31.8
80°	30.1	25.6	22.1	19.5	17.7	16.8	14.1	13.3	11.5	10.6	10.6
82.5°	13.3	10.6	8.8	8.0	7.1	6.2	5.3	4.4	4.4	3.5	4.4
85°	4.4	3.5	2.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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°	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7
2.5°	2363.0	2363.0	2362.1	2362.1	2362.1	2360.3	2360.3	2359.4	2358.5	2357.7	2355.9
5°	2356.8	2355.9	2354.1	2353.2	2352.4	2349.7	2347.1	2345.3	2342.6	2339.1	2337.3
7.5°	2347.9	2345.3	2341.7	2340.0	2337.3	2331.1	2326.7	2322.3	2317.9	2311.7	2304.6
10°	2332.9	2327.6	2322.3	2318.8	2314.3	2306.4	2297.5	2290.5	2280.7	2271.9	2262.2
12.5°	2311.7	2305.5	2294.9	2289.6	2284.3	2272.8	2261.3	2246.2	2233.0	2220.6	2209.1
15°	2285.1	2273.7	2261.3	2254.2	2246.2	2227.7	2210.0	2194.1	2176.4	2161.3	2142.8
17.5°	2246.2	2229.4	2211.7	2203.8	2193.2	2172.0	2150.7	2128.6	2108.3	2089.7	2066.7
20°	2187.9	2169.3	2146.3	2133.9	2125.1	2096.8	2076.4	2051.7	2030.5	2007.5	1981.8
22.5°	2119.8	2094.1	2068.5	2050.8	2041.1	2012.8	1985.4	1963.2	1940.3	1913.7	1895.2
25°	2042.8	2011.0	1980.0	1962.4	1947.3	1917.3	1890.7	1867.7	1839.4	1816.4	1797.9
27.5°	1956.2	1919.9	1883.7	1866.0	1851.8	1819.1	1790.8	1766.9	1739.5	1719.2	1699.7
30°	1852.7	1820.0	1785.5	1771.3	1754.5	1720.9	1688.2	1667.0	1636.9	1615.7	1594.5
32.5°	1723.6	1702.4	1674.9	1655.5	1646.6	1615.7	1588.3	1562.6	1537.0	1520.2	1499.0
35°	1582.1	1563.5	1540.5	1529.9	1518.4	1499.0	1476.9	1454.7	1434.4	1418.5	1399.0
37.5°	1438.8	1420.3	1406.1	1394.6	1387.5	1369.8	1356.6	1339.8	1325.6	1310.6	1300.0
40°	1290.3	1285.0	1269.9	1264.6	1262.8	1243.4	1231.9	1218.6	1209.8	1200.9	1194.7
42.5°	1158.5	1149.6	1138.2	1139.0	1133.7	1123.1	1115.2	1106.3	1100.1	1095.7	1089.5
45°	1028.5	1021.4	1016.1	1020.5	1011.7	1008.2	1002.0	1001.1	996.7	988.7	986.0
47.5°	904.7	903.8	904.7	902.0	900.3	898.5	899.4	895.0	890.5	887.9	884.3
50°	791.5	792.4	794.1	796.8	790.6	793.3	792.4	791.5	791.5	788.8	790.6
52.5°	681.8	682.7	684.5	687.1	688.0	688.0	690.7	692.4	696.0	700.4	700.4
55°	578.4	584.6	588.1	592.5	589.9	595.2	597.8	605.8	608.4	608.4	612.0
57.5°	486.4	492.6	495.2	500.5	502.3	506.7	513.8	518.2	524.4	529.7	535.0
60°	402.4	405.0	412.1	420.1	418.3	428.9	434.2	441.3	449.2	452.8	459.9
62.5°	327.2	330.7	336.1	338.7	344.9	350.2	362.6	369.7	376.7	385.6	392.6
65°	260.0	263.5	268.8	274.1	276.8	284.8	290.9	303.3	309.5	319.2	327.2
67.5°	199.0	204.3	208.7	212.2	214.0	222.0	231.7	237.0	248.5	258.2	264.4
70°	148.6	153.0	158.3	157.4	161.0	167.1	174.2	182.2	191.0	199.9	206.9
72.5°	103.5	107.9	111.4	112.3	115.8	120.3	125.6	131.8	138.8	147.7	157.4
75°	65.4	66.3	69.9	71.6	73.4	78.7	83.1	89.3	95.5	102.6	108.8
77.5°	32.7	35.4	37.1	38.9	39.8	44.2	48.6	53.9	59.3	66.3	72.5
80°	12.4	13.3	15.9	16.8	18.6	21.2	24.8	27.4	31.8	37.1	40.7
82.5°	4.4	5.3	6.2	6.2	7.1	8.8	9.7	12.4	15.0	16.8	18.6
85°	1.8	1.8	1.8	1.8	1.8	2.7	2.7	3.5	4.4	5.3	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



TEST NUMBER: P879449

CATALOG NUMBER: LD4C55D010 EU4559027 4LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7	2364.7
2.5°	2355.0	2355.0	2354.1	2353.2	2353.2	2353.2	2352.4	2352.4
5°	2333.8	2331.1	2330.2	2328.5	2327.6	2326.7	2324.1	2324.1
7.5°	2299.3	2295.8	2293.1	2290.5	2286.9	2284.3	2284.3	2280.7
10°	2253.3	2246.2	2242.7	2239.2	2234.7	2229.4	2227.7	2225.0
12.5°	2197.6	2183.4	2179.9	2173.7	2166.6	2163.1	2156.9	2156.9
15°	2128.6	2113.6	2105.6	2102.1	2093.2	2087.1	2084.4	2077.3
17.5°	2048.1	2036.6	2024.3	2019.0	2009.2	2001.3	1997.7	1996.9
20°	1966.8	1948.2	1940.3	1932.3	1920.8	1913.7	1908.4	1901.3
22.5°	1873.0	1856.2	1844.7	1839.4	1829.7	1817.3	1808.5	1808.5
25°	1774.0	1759.0	1752.8	1741.3	1729.8	1725.4	1714.7	1713.0
27.5°	1679.4	1664.3	1652.0	1645.8	1632.5	1626.3	1617.5	1613.9
30°	1581.2	1563.5	1554.7	1553.8	1537.9	1531.7	1524.6	1521.1
32.5°	1483.0	1468.0	1459.2	1453.9	1446.8	1436.2	1430.0	1426.4
35°	1385.8	1376.0	1368.1	1361.9	1350.4	1345.1	1339.8	1335.4
37.5°	1284.1	1275.2	1271.7	1266.4	1261.1	1251.3	1249.6	1246.0
40°	1185.9	1174.4	1174.4	1170.9	1165.6	1164.7	1162.0	1162.0
42.5°	1083.3	1078.0	1077.1	1078.0	1074.5	1072.7	1070.1	1076.2
45°	981.6	984.3	979.9	980.7	979.0	982.5	982.5	986.0
47.5°	887.9	884.3	886.1	887.9	890.5	890.5	889.7	888.8
50°	788.0	791.5	795.0	790.6	792.4	793.3	788.8	789.7
52.5°	702.2	703.1	705.7	703.1	705.7	704.8	706.6	703.1
55°	619.0	619.0	622.6	623.5	624.3	627.0	627.9	630.5
57.5°	538.6	543.0	547.4	546.5	550.1	553.6	550.9	553.6
60°	468.7	472.2	476.7	478.4	481.1	482.9	482.9	484.6
62.5°	398.0	405.0	408.6	412.1	412.1	415.6	419.2	420.1
65°	334.3	342.2	344.9	347.5	349.3	352.9	357.3	356.4
67.5°	274.1	279.5	283.0	284.8	290.1	291.8	295.4	298.9
70°	214.9	222.0	224.6	228.2	232.6	236.1	239.7	241.4
72.5°	164.5	169.8	171.6	175.1	179.5	183.1	184.8	187.5
75°	115.0	123.8	124.7	127.3	130.9	135.3	138.0	137.1
77.5°	76.1	82.2	83.1	86.7	90.2	93.7	94.6	95.5
80°	45.1	48.6	49.5	51.3	53.9	55.7	57.5	59.3
82.5°	21.2	23.0	24.8	24.8	26.5	28.3	28.3	29.2
85°	7.1	7.1	8.0	8.0	8.8	8.8	9.7	8.8
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)