

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: P880583

Luminaire Tested: **LD4C50D010 EU4509030 4LBDWNH**

Issue Date: 10/4/2024

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: P880583
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251940)
Test Lab: INNOVATION CENTER
Issue Date: 10/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C50D010 EU4509030 4LBDWNH
Description: 4 INCH 5000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBDWN TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

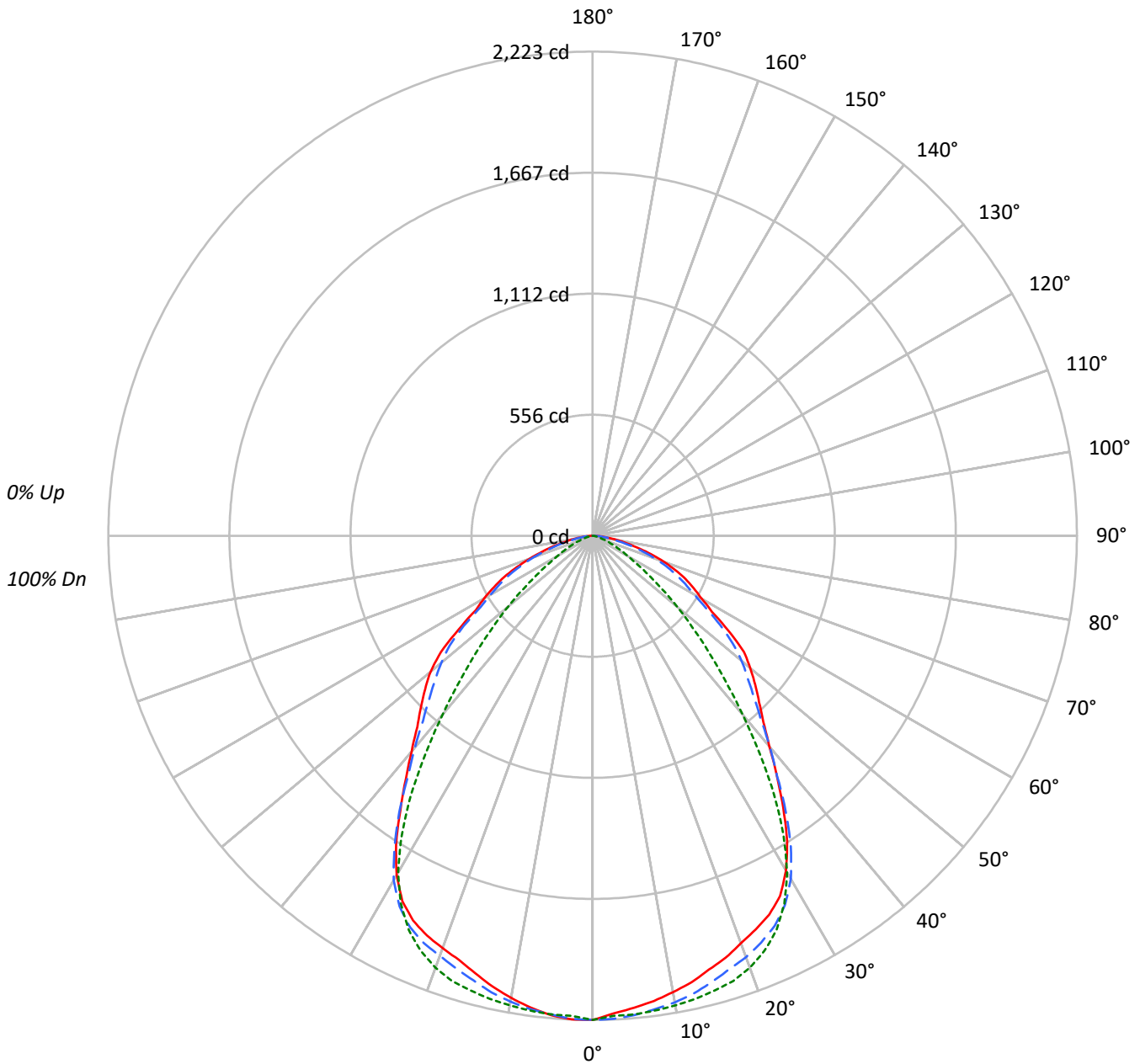
Lumens per Lamp: N/A
Luminaire Lumens: 4524.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.19
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 58.4
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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	111	107	103	100	108	104	101	98	100	98	95	96	94	92	93	91	89	88			88
2	102	95	89	84	100	93	88	83	90	85	81	87	83	80	84	81	78	76			76
3	94	85	78	72	92	84	77	72	81	75	70	78	73	69	76	72	68	66			66
4	87	77	69	63	85	75	68	62	73	67	62	71	65	61	69	64	60	58			58
5	81	69	61	55	79	68	61	55	66	60	54	64	58	54	63	57	53	51			51
6	75	63	55	49	73	62	55	49	60	54	49	59	53	48	57	52	48	46			46
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41			41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37			37
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34			34
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31			31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	273091	273091	273091
5°	268239	272025	272445
10°	265365	273050	268771
15°	262286	274890	264448
20°	260208	275870	263332
25°	260060	270728	264235
30°	251785	253247	255190
35°	228744	217991	230799
40°	202376	171648	207299
45°	187745	130705	193704
50°	180404	96748	185641
55°	163340	66677	161134
60°	142019	45382	141183
65°	137209	32820	130232
70°	124032	22127	110526
75°	102244	14572	87671
80°	82281	9693	65301
85°	67660	4793	43274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.8	4.6
10°-20°	600.0	13.3
20°-30°	906.4	20.0
30°-40°	948.6	21.0
40°-50°	768.3	17.0
50°-60°	558.8	12.4
60°-70°	344.7	7.6
70°-80°	155.7	3.4
80°-90°	31.6	0.7
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°	1716.3	37.9
0°-40°	2664.9	58.9
0°-60°	3992.0	88.2
0°-90°	4524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4524.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2223	2223	2223	2223	2223	
5°	2175	2209	2206	2206	2209	206
15°	2062	2120	2161	2114	2079	583
25°	1918	1977	1997	1984	1949	879
35°	1525	1546	1454	1546	1539	951
45°	1081	1047	752	1060	1115	840
55°	763	715	311	722	752	680
65°	472	424	113	417	448	462
75°	215	185	31	161	185	234
85°	48	38	3	27	31	55
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°	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9
2.5°	2195.5	2195.5	2216.1	2239.9	2219.5	2198.9	2212.6	2205.8	2229.8	2229.8	2219.5
5°	2175.1	2181.9	2198.9	2219.5	2202.5	2181.9	2198.9	2192.2	2216.1	2216.1	2209.2
7.5°	2154.5	2157.9	2178.5	2202.5	2185.2	2164.8	2178.5	2175.1	2195.5	2198.9	2192.2
10°	2127.2	2130.5	2151.2	2175.1	2157.9	2140.9	2154.5	2151.2	2178.5	2178.5	2175.1
12.5°	2099.8	2103.2	2123.8	2144.2	2127.2	2110.1	2123.8	2123.8	2151.2	2154.5	2151.2
15°	2062.2	2068.9	2086.2	2106.6	2096.5	2075.9	2089.5	2089.5	2113.5	2120.2	2120.2
17.5°	2031.5	2034.9	2051.9	2072.5	2058.8	2041.6	2055.3	2055.3	2079.2	2086.2	2086.2
20°	1990.3	1997.2	2014.2	2034.9	2024.5	2010.9	2021.2	2021.2	2048.5	2055.3	2058.8
22.5°	1956.2	1962.9	1976.6	2004.1	1986.9	1976.6	1990.3	1986.9	2017.8	2021.2	2021.2
25°	1918.5	1925.5	1942.5	1959.6	1949.3	1939.2	1949.3	1949.3	1973.2	1976.6	1976.6
27.5°	1863.9	1867.2	1884.3	1901.5	1891.2	1877.5	1891.2	1887.8	1911.6	1915.2	1911.6
30°	1774.9	1781.8	1788.6	1812.5	1802.2	1791.9	1805.6	1798.9	1822.8	1822.8	1819.3
32.5°	1662.0	1662.0	1675.8	1692.9	1679.2	1672.3	1682.6	1685.9	1703.2	1703.2	1692.9
35°	1525.2	1532.2	1542.3	1552.6	1542.3	1535.6	1545.9	1542.3	1562.9	1556.0	1545.9
37.5°	1388.5	1391.9	1402.2	1415.9	1402.2	1391.9	1395.3	1391.9	1408.9	1408.9	1391.9
40°	1261.9	1268.9	1275.6	1289.3	1275.6	1268.9	1272.2	1261.9	1282.5	1275.6	1265.3
42.5°	1159.3	1162.7	1173.0	1179.9	1166.2	1162.7	1166.2	1159.3	1169.6	1162.7	1142.3
45°	1080.6	1080.6	1084.2	1094.3	1080.6	1077.3	1077.3	1070.3	1080.6	1067.0	1046.6
47.5°	1012.3	1015.6	1019.2	1025.9	1015.6	1005.5	1008.9	995.2	1002.0	991.7	964.3
50°	943.9	950.6	954.2	961.0	950.6	943.9	947.3	933.6	933.6	916.6	892.6
52.5°	875.6	878.9	875.6	882.3	875.6	865.3	868.6	855.0	855.0	834.6	810.6
55°	762.6	766.0	769.6	776.3	769.6	759.3	766.0	755.9	755.9	742.0	714.7
57.5°	649.7	653.3	656.6	660.0	660.0	653.3	656.6	649.7	646.3	636.0	615.6
60°	578.0	578.0	578.0	581.3	578.0	574.6	574.6	567.7	567.7	554.0	533.6
62.5°	523.3	526.6	526.6	530.0	526.6	523.3	519.9	513.0	509.6	495.9	478.7
65°	472.0	472.0	468.6	475.3	472.0	468.6	468.6	461.7	454.9	441.3	424.0
67.5°	410.3	413.7	410.3	413.7	413.7	410.3	407.0	400.0	396.7	386.4	366.0
70°	345.3	345.3	345.3	348.9	345.3	345.3	348.9	338.6	335.3	321.4	304.3
72.5°	280.4	283.9	283.9	280.4	283.9	277.0	277.0	277.0	273.6	260.0	242.7
75°	215.4	218.9	218.9	222.3	218.9	215.4	215.4	212.0	208.6	198.3	184.7
77.5°	160.7	160.7	164.1	164.1	164.1	160.7	160.7	154.0	154.0	147.0	133.3
80°	116.3	116.3	112.9	116.3	116.3	112.9	112.9	109.4	109.4	102.6	92.3
82.5°	75.3	78.7	78.7	78.7	78.7	75.3	75.3	75.3	71.7	68.4	61.6
85°	48.0	48.0	48.0	48.0	51.3	48.0	51.3	48.0	48.0	41.0	37.6
87.5°	20.6	20.6	20.6	24.0	24.0	20.6	20.6	20.6	20.6	20.6	17.0
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°	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9
2.5°	2219.5	2222.9	2212.6	2226.2	2216.1	2219.5	2222.9	2219.5	2205.8	2205.8	2243.5
5°	2205.8	2212.6	2202.5	2219.5	2212.6	2212.6	2219.5	2216.1	2202.5	2205.8	2239.9
7.5°	2192.2	2202.5	2195.5	2212.6	2202.5	2202.5	2209.2	2209.2	2195.5	2198.9	2229.8
10°	2171.6	2185.2	2181.9	2198.9	2188.8	2188.8	2198.9	2198.9	2185.2	2188.8	2219.5
12.5°	2154.5	2168.2	2164.8	2181.9	2175.1	2178.5	2181.9	2188.8	2171.6	2178.5	2205.8
15°	2127.2	2140.9	2140.9	2157.9	2151.2	2157.9	2164.8	2175.1	2161.3	2161.3	2188.8
17.5°	2096.5	2113.5	2113.5	2127.2	2127.2	2130.5	2144.2	2154.5	2140.9	2144.2	2168.2
20°	2062.2	2082.8	2082.8	2099.8	2096.5	2103.2	2113.5	2123.8	2110.1	2110.1	2137.5
22.5°	2027.9	2045.2	2048.5	2058.8	2058.8	2062.2	2072.5	2079.2	2062.2	2062.2	2089.5
25°	1980.2	1997.2	2000.6	2007.5	2000.6	2000.6	2007.5	2014.2	1997.2	1997.2	2021.2
27.5°	1915.2	1932.2	1932.2	1928.9	1921.9	1925.5	1921.9	1925.5	1908.2	1904.9	1928.9
30°	1819.3	1829.6	1829.6	1826.2	1815.9	1815.9	1805.6	1809.2	1785.2	1785.2	1805.6
32.5°	1689.5	1699.6	1692.9	1685.9	1672.3	1665.5	1658.6	1655.2	1631.2	1631.2	1655.2
35°	1535.6	1542.3	1532.2	1518.5	1501.3	1491.0	1480.9	1467.2	1450.0	1453.5	1467.2
37.5°	1378.2	1378.2	1364.6	1337.2	1323.5	1306.3	1289.3	1289.3	1261.9	1258.6	1268.9
40°	1244.9	1231.2	1207.2	1169.6	1145.6	1128.6	1104.6	1090.9	1070.3	1070.3	1087.6
42.5°	1125.2	1097.9	1067.0	1015.6	991.7	971.3	940.6	926.9	902.9	899.3	909.6
45°	1019.2	991.7	947.3	892.6	861.9	837.9	793.3	776.3	755.9	752.3	759.3
47.5°	933.6	902.9	848.2	776.3	745.6	714.7	670.3	646.3	629.3	619.0	629.3
50°	858.3	817.3	759.3	684.0	643.0	615.6	560.9	536.9	513.0	506.2	509.6
52.5°	776.3	735.3	673.7	595.0	557.3	516.3	465.0	430.9	410.3	400.0	410.3
55°	687.3	646.3	584.9	506.2	465.0	427.6	372.7	345.3	321.4	311.3	321.4
57.5°	591.6	554.0	499.3	420.6	383.0	348.9	297.6	270.3	246.3	239.3	246.3
60°	509.6	478.7	424.0	348.9	318.0	280.4	236.0	208.6	188.0	184.7	188.0
62.5°	454.9	420.6	369.3	297.6	266.7	236.0	195.0	167.6	150.4	147.0	150.4
65°	400.0	362.6	314.6	253.0	222.3	198.3	157.3	133.3	116.3	112.9	116.3
67.5°	338.6	304.3	263.3	208.6	184.7	160.7	126.6	102.6	89.0	85.6	89.0
70°	280.4	249.7	208.6	167.6	143.6	126.6	95.7	78.7	65.0	61.6	65.0
72.5°	222.3	195.0	160.7	126.6	112.9	95.7	75.3	58.0	48.0	44.4	48.0
75°	171.0	150.4	123.0	92.3	82.0	71.7	51.3	41.0	34.3	30.7	34.3
77.5°	119.7	106.0	85.6	68.4	58.0	51.3	37.6	27.3	24.0	20.6	24.0
80°	82.0	71.7	58.0	44.4	37.6	30.7	24.0	17.0	13.7	13.7	13.7
82.5°	54.7	44.4	34.3	27.3	24.0	20.6	13.7	10.3	10.3	6.9	6.9
85°	30.7	27.3	20.6	17.0	13.7	10.3	6.9	6.9	3.4	3.4	3.4
87.5°	13.7	10.3	6.9	6.9	3.4	3.4	3.4	3.4	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°	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9
2.5°	2233.2	2222.9	2236.6	2222.9	2216.1	2222.9	2216.1	2236.6	2219.5	2205.8	2219.5
5°	2229.8	2216.1	2229.8	2219.5	2209.2	2212.6	2205.8	2226.2	2205.8	2195.5	2202.5
7.5°	2222.9	2212.6	2219.5	2209.2	2198.9	2202.5	2195.5	2212.6	2192.2	2181.9	2188.8
10°	2212.6	2202.5	2205.8	2198.9	2188.8	2188.8	2181.9	2195.5	2171.6	2157.9	2164.8
12.5°	2198.9	2185.2	2192.2	2181.9	2168.2	2168.2	2161.3	2171.6	2147.6	2133.9	2137.5
15°	2181.9	2168.2	2168.2	2157.9	2144.2	2144.2	2130.5	2140.9	2113.5	2099.8	2099.8
17.5°	2161.3	2144.2	2144.2	2133.9	2116.9	2113.5	2103.2	2113.5	2082.8	2068.9	2068.9
20°	2130.5	2116.9	2113.5	2106.6	2089.5	2086.2	2072.5	2075.9	2051.9	2041.6	2038.2
22.5°	2089.5	2075.9	2079.2	2068.9	2055.3	2051.9	2038.2	2048.5	2024.5	2014.2	2017.8
25°	2017.8	2010.9	2017.8	2014.2	2004.1	2004.1	1997.2	2004.1	1983.5	1976.6	1980.2
27.5°	1935.6	1932.2	1935.6	1935.6	1928.9	1928.9	1928.9	1939.2	1918.5	1915.2	1915.2
30°	1815.9	1815.9	1819.3	1822.8	1822.8	1829.6	1826.2	1839.9	1826.2	1819.3	1826.2
32.5°	1658.6	1672.3	1682.6	1682.6	1682.6	1689.5	1696.2	1706.5	1692.9	1696.2	1696.2
35°	1480.9	1491.0	1497.9	1514.9	1504.8	1528.6	1535.6	1549.2	1545.9	1552.6	1549.2
37.5°	1282.5	1296.2	1309.9	1333.9	1330.3	1357.6	1371.3	1398.6	1391.9	1405.6	1412.3
40°	1097.9	1118.3	1138.9	1155.9	1169.6	1196.9	1224.3	1258.6	1268.9	1279.0	1282.5
42.5°	919.9	940.6	974.6	998.6	1019.2	1063.6	1101.2	1142.3	1152.6	1173.0	1179.9
45°	776.3	793.3	834.6	865.3	882.3	947.3	991.7	1043.0	1060.2	1084.2	1094.3
47.5°	643.0	673.7	714.7	752.3	776.3	844.6	902.9	957.6	981.6	1008.9	1022.6
50°	526.6	560.9	615.6	649.7	684.0	759.3	824.2	882.3	906.3	937.0	950.6
52.5°	430.9	468.6	519.9	557.3	595.0	673.7	742.0	796.9	827.6	848.2	868.6
55°	338.6	379.6	430.9	472.0	502.7	588.3	646.3	701.0	721.6	738.6	749.0
57.5°	263.3	294.0	345.3	379.6	417.3	492.4	550.6	591.6	608.7	629.3	636.0
60°	205.3	236.0	283.9	318.0	352.3	424.0	482.3	523.3	540.3	557.3	567.7
62.5°	164.1	195.0	239.3	270.3	301.0	366.0	417.3	458.3	478.7	495.9	506.2
65°	130.0	157.3	195.0	225.7	249.7	307.7	359.0	396.7	417.3	434.3	444.6
67.5°	102.6	126.6	160.7	181.3	205.3	253.0	297.6	331.7	348.9	369.3	379.6
70°	78.7	95.7	126.6	143.6	160.7	201.7	236.0	270.3	287.3	301.0	307.7
72.5°	58.0	71.7	95.7	109.4	119.7	154.0	181.3	205.3	218.9	232.6	239.3
75°	41.0	51.3	68.4	78.7	85.6	109.4	133.3	150.4	160.7	171.0	181.3
77.5°	27.3	34.3	44.4	51.3	58.0	75.3	89.0	102.6	112.9	123.0	126.6
80°	17.0	24.0	30.7	34.3	37.6	48.0	61.6	68.4	75.3	82.0	85.6
82.5°	10.3	13.7	17.0	20.6	24.0	30.7	37.6	44.4	48.0	54.7	58.0
85°	3.4	6.9	6.9	10.3	10.3	17.0	20.6	24.0	27.3	30.7	34.3
87.5°	0.0	0.0	3.4	3.4	3.4	3.4	6.9	6.9	6.9	6.9	6.9
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: P880583

CATALOG NUMBER: LD4C50D010 EU4509030 4LBDWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9	2222.9
2.5°	2233.2	2222.9	2216.1	2212.6	2236.6	2205.8	2219.5	2222.9
5°	2219.5	2209.2	2202.5	2198.9	2219.5	2192.2	2202.5	2209.2
7.5°	2198.9	2192.2	2181.9	2178.5	2198.9	2168.2	2181.9	2185.2
10°	2175.1	2164.8	2157.9	2154.5	2171.6	2140.9	2154.5	2154.5
12.5°	2144.2	2137.5	2123.8	2123.8	2137.5	2110.1	2120.2	2120.2
15°	2103.2	2096.5	2082.8	2082.8	2096.5	2068.9	2079.2	2079.2
17.5°	2068.9	2062.2	2051.9	2048.5	2062.2	2034.9	2045.2	2041.6
20°	2041.6	2034.9	2021.2	2021.2	2031.5	2004.1	2014.2	2014.2
22.5°	2017.8	2014.2	2000.6	2000.6	2014.2	1986.9	1993.8	1986.9
25°	1980.2	1976.6	1962.9	1966.5	1973.2	1945.9	1956.2	1949.3
27.5°	1918.5	1918.5	1904.9	1901.5	1911.6	1887.8	1894.6	1891.2
30°	1822.8	1826.2	1809.2	1809.2	1812.5	1791.9	1802.2	1798.9
32.5°	1692.9	1696.2	1682.6	1679.2	1689.5	1672.3	1679.2	1679.2
35°	1549.2	1552.6	1542.3	1542.3	1552.6	1542.3	1542.3	1538.9
37.5°	1405.6	1412.3	1405.6	1408.9	1415.9	1405.6	1412.3	1408.9
40°	1289.3	1296.2	1285.9	1292.6	1299.6	1289.3	1299.6	1292.6
42.5°	1183.3	1193.6	1186.6	1193.6	1200.3	1193.6	1200.3	1190.2
45°	1104.6	1111.5	1108.0	1111.5	1118.3	1114.9	1118.3	1114.9
47.5°	1029.3	1043.0	1036.3	1043.0	1053.3	1046.6	1053.3	1043.0
50°	961.0	971.3	967.9	974.6	978.0	974.6	981.6	971.3
52.5°	872.0	882.3	878.9	878.9	885.7	878.9	885.7	878.9
55°	755.9	759.3	759.3	762.6	759.3	755.9	759.3	752.3
57.5°	643.0	649.7	639.6	649.7	646.3	643.0	643.0	636.0
60°	571.0	581.3	574.6	581.3	578.0	578.0	578.0	574.6
62.5°	513.0	519.9	513.0	516.3	516.3	516.3	513.0	509.6
65°	448.0	458.3	451.3	454.9	451.3	448.0	451.3	448.0
67.5°	383.0	386.4	386.4	383.0	383.0	383.0	383.0	376.3
70°	311.3	314.6	311.3	318.0	314.6	311.3	314.6	307.7
72.5°	242.7	246.3	242.7	246.3	242.7	242.7	242.7	242.7
75°	181.3	184.7	184.7	184.7	184.7	184.7	177.9	184.7
77.5°	130.0	130.0	130.0	133.3	130.0	130.0	130.0	130.0
80°	89.0	89.0	89.0	92.3	89.0	92.3	89.0	92.3
82.5°	58.0	58.0	58.0	58.0	58.0	58.0	58.0	58.0
85°	30.7	34.3	34.3	30.7	30.7	30.7	30.7	30.7
87.5°	6.9	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)