

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: P858268

Luminaire Tested: **LX4C45D010 EX4C459850 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P858268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C45D010 EX4C459850 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

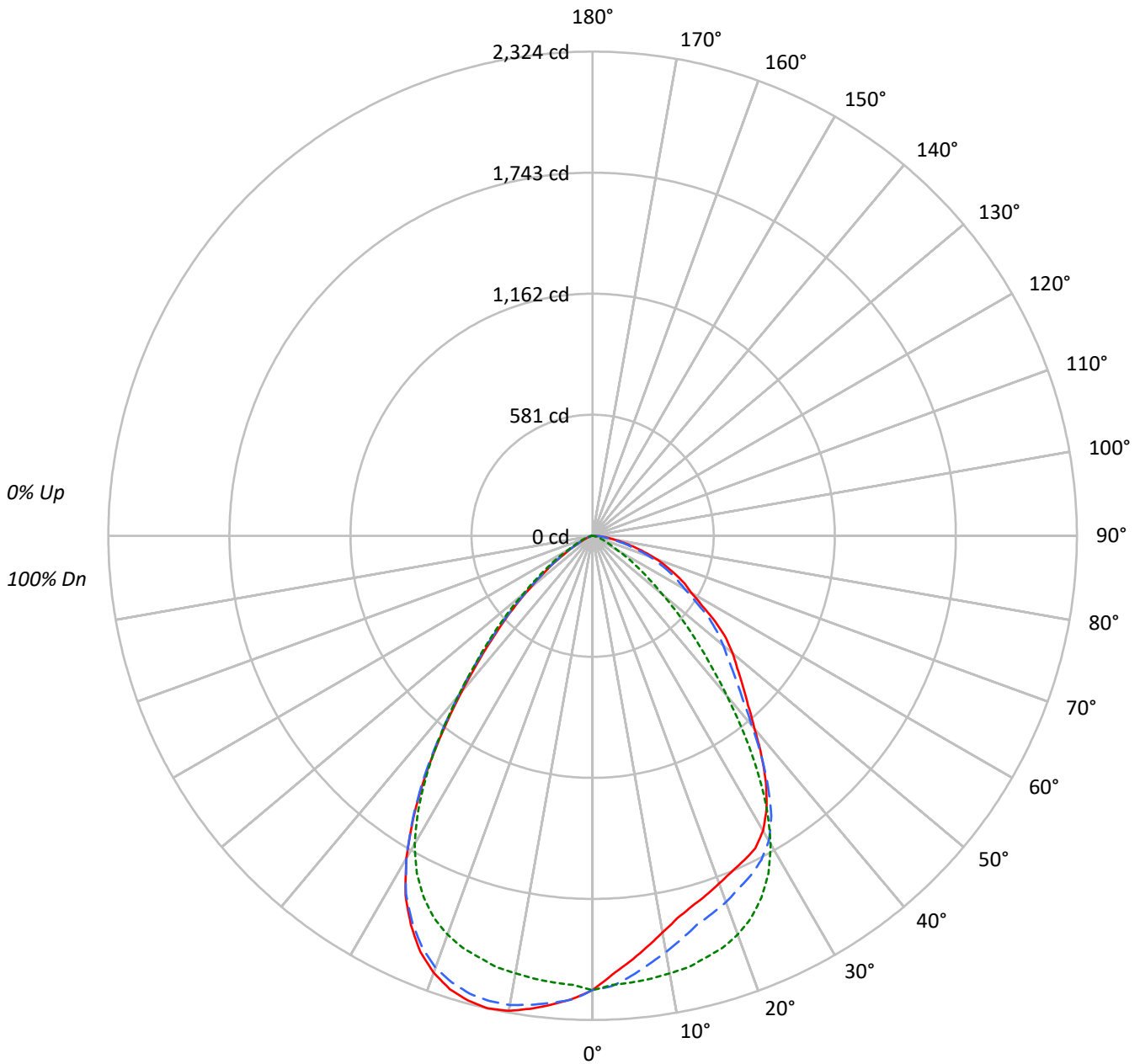
Lumens per Lamp: N/A
Luminaire Lumens: 3822.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V):
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	100	100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62	62	62	62
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56	56	56	56
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50	50	50	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46	46	46	46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42	42	42	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38	38
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	267870	267870	267870
5°	252947	265428	278586
10°	241152	266039	288818
15°	234075	266597	293752
20°	232151	266326	291676
25°	233085	259762	279553
30°	231982	242338	253502
35°	217436	206907	209007
40°	193748	160438	156830
45°	177198	119603	112271
50°	167560	83790	75724
55°	154087	56567	47550
60°	134623	33121	26217
65°	127441	21221	14709
70°	116093	15158	9088
75°	96026	10680	6693
80°	75489	6014	3962
85°	67378	4088	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.0	5.4
10°-20°	591.0	15.5
20°-30°	876.1	22.9
30°-40°	877.3	23.0
40°-50°	613.2	16.0
50°-60°	364.9	9.5
60°-70°	190.4	5.0
70°-80°	84.7	2.2
80°-90°	18.5	0.5
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°	1673.1	43.8
0°-40°	2550.4	66.7
0°-60°	3528.5	92.3
0°-90°	3822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3822.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2180	2180	2180	2180	2180	
5°	2051	2121	2152	2251	2259	192
15°	1840	1933	2096	2276	2310	521
25°	1720	1798	1916	2048	2062	792
35°	1450	1467	1380	1405	1394	899
45°	1020	969	688	666	646	792
55°	719	674	264	230	222	638
65°	438	402	73	53	51	434
75°	202	177	22	14	14	219
85°	48	37	3	3	0	54
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°	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4
2.5°	2110.1	2135.5	2110.1	2118.6	2152.3	2121.4	2138.2	2138.2	2129.8	2149.5	2163.5
5°	2051.1	2076.4	2051.1	2062.3	2098.9	2067.9	2087.7	2082.0	2084.9	2101.7	2121.4
7.5°	1992.2	2011.8	1989.3	2003.4	2037.1	2011.8	2028.6	2028.6	2031.5	2056.7	2073.7
10°	1933.1	1950.0	1933.1	1944.4	1980.9	1958.4	1969.7	1972.4	1980.9	2003.4	2028.6
12.5°	1879.7	1893.8	1876.9	1893.8	1924.6	1902.2	1916.3	1919.0	1927.5	1952.8	1980.9
15°	1840.4	1854.5	1837.6	1851.6	1879.7	1862.8	1874.1	1879.7	1885.3	1907.8	1933.1
17.5°	1809.5	1820.8	1806.7	1823.5	1846.0	1826.4	1843.2	1843.2	1851.6	1874.1	1902.2
20°	1775.7	1787.0	1775.7	1789.8	1815.1	1798.3	1812.3	1812.3	1820.8	1846.0	1871.3
22.5°	1744.9	1750.5	1744.9	1756.1	1781.3	1767.3	1775.7	1778.6	1787.0	1809.5	1832.0
25°	1719.5	1730.8	1725.2	1736.4	1753.3	1739.3	1747.6	1750.5	1758.9	1778.6	1798.3
27.5°	1691.5	1697.1	1691.5	1705.5	1719.5	1708.3	1716.8	1713.9	1719.5	1736.4	1753.3
30°	1635.3	1640.9	1640.9	1649.3	1660.6	1655.0	1663.4	1655.0	1660.6	1674.6	1691.5
32.5°	1553.8	1556.6	1559.4	1567.9	1576.2	1567.9	1573.5	1573.5	1573.5	1584.7	1596.0
35°	1449.8	1455.4	1452.6	1458.3	1466.6	1463.9	1463.9	1461.0	1455.4	1461.0	1466.6
37.5°	1331.8	1323.3	1323.3	1331.8	1337.4	1326.2	1331.8	1326.2	1326.2	1329.0	1329.0
40°	1208.1	1199.7	1208.1	1211.0	1213.7	1208.1	1205.4	1199.7	1191.3	1194.1	1188.5
42.5°	1104.3	1098.5	1101.4	1101.4	1104.3	1098.5	1101.4	1090.2	1081.7	1076.1	1067.8
45°	1019.9	1011.6	1019.9	1014.3	1014.3	1011.6	1008.6	1003.0	991.9	983.5	969.4
47.5°	941.3	941.3	944.0	944.0	944.0	938.4	938.4	927.1	915.9	904.8	885.1
50°	876.7	871.1	882.3	882.3	873.9	871.1	873.9	859.8	851.4	837.3	817.6
52.5°	806.4	806.4	809.3	809.3	806.4	800.8	803.6	792.4	783.9	769.9	750.2
55°	719.4	713.8	722.1	722.1	719.4	716.5	719.4	710.9	702.5	691.3	674.3
57.5°	621.0	618.2	623.8	626.6	621.0	621.0	623.8	615.4	612.5	601.3	584.4
60°	547.9	545.1	550.7	553.6	547.9	547.9	547.9	536.7	531.0	519.8	508.6
62.5°	497.3	494.6	500.2	497.3	494.6	491.7	494.6	483.3	477.7	466.5	455.2
65°	438.4	441.1	444.0	444.0	441.1	438.4	438.4	432.8	427.1	415.9	401.8
67.5°	382.1	382.1	385.0	387.7	385.0	385.0	385.0	376.5	370.9	362.5	345.6
70°	323.2	320.3	328.8	328.8	323.2	325.9	323.2	320.3	314.7	303.5	289.5
72.5°	261.3	261.3	264.1	264.1	261.3	261.3	261.3	258.5	250.0	244.4	230.4
75°	202.3	202.3	205.1	208.0	202.3	202.3	205.1	199.5	193.9	185.5	177.0
77.5°	151.8	148.9	151.8	151.8	148.9	148.9	148.9	146.2	143.3	134.8	126.4
80°	106.7	104.0	106.7	106.7	106.7	104.0	104.0	101.1	101.1	95.5	87.1
82.5°	73.0	70.3	73.0	73.0	73.0	70.3	70.3	70.3	67.4	64.7	59.0
85°	47.8	44.9	44.9	47.8	44.9	44.9	44.9	44.9	42.2	39.3	36.6
87.5°	22.5	22.5	22.5	22.5	22.5	22.5	22.5	19.7	19.7	19.7	16.9
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°	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4
2.5°	2152.3	2146.7	2163.5	2157.9	2160.7	2146.7	2169.2	2157.9	2171.9	2157.9	2186.0
5°	2115.7	2110.1	2135.5	2132.6	2135.5	2124.2	2149.5	2146.7	2163.5	2152.3	2183.2
7.5°	2076.4	2070.8	2098.9	2101.7	2107.4	2096.1	2129.8	2129.8	2146.7	2143.8	2177.5
10°	2031.5	2034.2	2062.3	2067.9	2079.3	2073.7	2104.5	2113.0	2135.5	2132.6	2174.8
12.5°	1989.3	1989.3	2025.9	2037.1	2045.5	2042.7	2079.3	2090.5	2115.7	2121.4	2160.7
15°	1947.2	1950.0	1983.7	2000.5	2011.8	2009.0	2048.3	2062.3	2093.3	2096.1	2143.8
17.5°	1913.4	1910.6	1947.2	1961.2	1978.1	1975.3	2017.4	2034.2	2065.2	2073.7	2118.6
20°	1885.3	1882.6	1916.3	1933.1	1944.4	1941.6	1983.7	2003.4	2031.5	2037.1	2082.0
22.5°	1851.6	1846.0	1879.7	1893.8	1905.0	1902.2	1938.7	1952.8	1980.9	1986.5	2028.6
25°	1812.3	1806.7	1837.6	1846.0	1854.5	1848.8	1879.7	1888.2	1910.6	1916.3	1958.4
27.5°	1767.3	1753.3	1778.6	1778.6	1784.2	1775.7	1798.3	1806.7	1826.4	1826.4	1865.7
30°	1697.1	1677.5	1691.5	1688.7	1691.5	1680.2	1694.3	1697.1	1711.2	1708.3	1736.4
32.5°	1598.7	1570.6	1579.1	1570.6	1562.2	1545.4	1562.2	1556.6	1567.9	1556.6	1581.9
35°	1463.9	1435.8	1432.9	1421.7	1413.3	1399.2	1399.2	1385.2	1388.0	1379.6	1396.5
37.5°	1317.7	1281.3	1275.6	1253.3	1239.1	1222.2	1222.2	1211.0	1196.9	1191.3	1205.4
40°	1174.4	1135.1	1121.2	1084.6	1070.4	1053.6	1042.4	1028.4	1022.8	1000.4	1011.6
42.5°	1050.9	1008.6	977.9	938.4	924.5	899.1	882.3	865.4	857.1	831.7	843.0
45°	946.9	896.4	862.7	812.0	792.4	764.3	739.0	719.4	699.7	688.4	682.8
47.5°	859.8	806.4	761.5	705.3	674.3	649.1	615.4	595.7	570.4	556.4	547.9
50°	786.8	727.8	677.2	612.5	581.7	553.6	514.2	483.3	460.9	438.4	432.8
52.5°	722.1	660.3	604.2	531.0	494.6	460.9	418.7	385.0	365.3	340.0	337.2
55°	646.2	592.9	531.0	455.2	418.7	385.0	340.0	306.3	281.0	264.1	258.5
57.5°	564.8	514.2	455.2	379.3	342.8	306.3	264.1	233.2	210.7	196.7	193.9
60°	488.9	441.1	385.0	309.1	272.5	241.7	196.7	165.8	146.2	134.8	129.2
62.5°	432.8	387.7	334.4	264.1	230.4	199.5	157.4	129.2	112.4	101.1	95.5
65°	379.3	334.4	286.6	222.0	193.9	165.8	126.4	101.1	84.3	73.0	67.4
67.5°	323.2	283.8	238.8	185.5	157.4	134.8	101.1	78.7	64.7	56.2	50.6
70°	266.9	230.4	193.9	148.9	129.2	106.7	78.7	61.8	47.8	42.2	36.6
72.5°	210.7	182.6	151.8	115.2	98.4	84.3	61.8	44.9	36.6	30.9	25.3
75°	157.4	137.7	112.4	87.1	73.0	61.8	44.9	33.7	28.1	22.5	19.7
77.5°	112.4	95.5	78.7	59.0	53.4	44.9	30.9	25.3	19.7	14.1	11.2
80°	75.9	67.4	53.4	42.2	33.7	30.9	22.5	16.9	11.2	8.5	8.5
82.5°	50.6	42.2	33.7	25.3	22.5	19.7	14.1	11.2	8.5	5.6	5.6
85°	30.9	25.3	19.7	14.1	14.1	11.2	8.5	5.6	2.9	2.9	2.9
87.5°	14.1	11.2	8.5	5.6	5.6	2.9	2.9	2.9	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°	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4
2.5°	2208.5	2191.6	2180.4	2194.4	2200.0	2191.6	2200.0	2214.1	2228.2	2231.0	2191.6
5°	2211.3	2194.4	2188.8	2205.6	2208.5	2205.6	2214.1	2233.8	2250.7	2256.3	2217.0
7.5°	2211.3	2200.0	2197.3	2217.0	2219.7	2217.0	2231.0	2253.4	2270.3	2281.5	2242.2
10°	2205.6	2200.0	2202.9	2219.7	2225.3	2225.3	2245.0	2270.3	2287.1	2298.4	2259.0
12.5°	2197.3	2197.3	2197.3	2217.0	2222.6	2225.3	2242.2	2275.9	2287.1	2304.0	2264.7
15°	2183.2	2183.2	2183.2	2202.9	2211.3	2211.3	2231.0	2261.9	2275.9	2292.8	2253.4
17.5°	2157.9	2157.9	2160.7	2177.5	2186.0	2186.0	2205.6	2239.4	2247.8	2267.5	2228.2
20°	2121.4	2121.4	2124.2	2141.1	2149.5	2143.8	2169.2	2197.3	2205.6	2222.6	2183.2
22.5°	2067.9	2067.9	2067.9	2084.9	2090.5	2087.7	2113.0	2138.2	2138.2	2160.7	2118.6
25°	1989.3	1994.9	1989.3	2006.2	2011.8	2009.0	2031.5	2053.9	2048.3	2073.7	2031.5
27.5°	1893.8	1890.9	1890.9	1905.0	1905.0	1902.2	1919.0	1944.4	1938.7	1955.6	1916.3
30°	1761.7	1770.1	1756.1	1775.7	1767.3	1761.7	1773.0	1795.4	1787.0	1801.1	1770.1
32.5°	1610.0	1598.7	1598.7	1598.7	1604.3	1590.3	1601.6	1612.8	1604.3	1618.4	1584.7
35°	1410.5	1413.3	1404.9	1407.7	1410.5	1393.6	1404.9	1416.1	1404.9	1413.3	1382.4
37.5°	1211.0	1213.7	1194.1	1205.4	1194.1	1188.5	1199.7	1205.4	1194.1	1202.5	1168.8
40°	1011.6	1006.0	1003.0	1003.0	1006.0	991.9	1000.4	1008.6	1000.4	1006.0	975.0
42.5°	837.3	834.6	829.0	831.7	823.2	820.5	823.2	831.7	823.2	829.0	806.4
45°	685.6	680.0	671.6	674.3	674.3	660.3	668.7	674.3	666.0	668.7	649.1
47.5°	545.1	536.7	536.7	533.9	533.9	528.3	536.7	533.9	525.4	531.0	511.4
50°	424.3	418.7	418.7	418.7	418.7	410.2	413.1	418.7	410.2	410.2	399.0
52.5°	331.5	323.2	317.5	317.5	317.5	314.7	314.7	317.5	309.1	309.1	306.3
55°	250.0	247.3	238.8	238.8	238.8	230.4	233.2	233.2	230.4	230.4	222.0
57.5°	185.5	177.0	171.4	171.4	165.8	165.8	163.0	165.8	160.2	160.2	154.5
60°	123.6	118.0	115.2	112.4	112.4	109.6	112.4	109.6	109.6	106.7	104.0
62.5°	89.9	84.3	78.7	78.7	78.7	75.9	75.9	75.9	75.9	75.9	73.0
65°	64.7	59.0	59.0	56.2	56.2	53.4	53.4	53.4	53.4	53.4	50.6
67.5°	44.9	42.2	39.3	39.3	39.3	39.3	39.3	39.3	36.6	36.6	36.6
70°	33.7	30.9	28.1	28.1	28.1	28.1	28.1	25.3	28.1	28.1	25.3
72.5°	22.5	22.5	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
75°	16.9	16.9	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
77.5°	11.2	11.2	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
80°	8.5	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
82.5°	5.6	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
85°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	0.0
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: P858268

CATALOG NUMBER: LX4C45D010 EX4C459850 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4	2180.4
2.5°	2233.8	2231.0	2225.3	2233.8	2211.3	2202.9	2200.0	2225.3
5°	2264.7	2259.0	2259.0	2267.5	2242.2	2236.6	2231.0	2259.0
7.5°	2292.8	2287.1	2287.1	2295.6	2273.1	2267.5	2261.9	2290.0
10°	2309.6	2309.6	2309.6	2315.2	2295.6	2290.0	2287.1	2315.2
12.5°	2318.1	2318.1	2315.2	2326.5	2301.2	2301.2	2295.6	2323.7
15°	2306.8	2306.8	2306.8	2315.2	2292.8	2287.1	2287.1	2309.6
17.5°	2278.8	2278.8	2275.9	2284.4	2259.0	2259.0	2256.3	2281.5
20°	2236.6	2236.6	2231.0	2242.2	2217.0	2208.5	2205.6	2231.0
22.5°	2169.2	2166.3	2163.5	2169.2	2146.7	2141.1	2138.2	2160.7
25°	2082.0	2079.3	2073.7	2079.3	2053.9	2045.5	2045.5	2062.3
27.5°	1958.4	1958.4	1950.0	1958.4	1930.3	1927.5	1924.6	1944.4
30°	1806.7	1795.4	1789.8	1801.1	1773.0	1773.0	1767.3	1787.0
32.5°	1618.4	1607.2	1604.3	1610.0	1584.7	1576.2	1587.5	1598.7
35°	1402.1	1404.9	1393.6	1393.6	1371.1	1373.9	1376.8	1393.6
37.5°	1194.1	1188.5	1185.7	1188.5	1171.7	1166.1	1160.5	1177.4
40°	1000.4	986.3	983.5	983.5	969.4	966.6	969.4	977.9
42.5°	817.6	814.9	803.6	809.3	795.2	800.8	798.0	798.0
45°	660.3	663.1	651.9	660.3	649.1	640.6	640.6	646.2
47.5°	522.6	522.6	519.8	519.8	511.4	514.2	508.6	517.0
50°	404.6	404.6	399.0	401.8	396.2	396.2	393.3	396.2
52.5°	309.1	306.3	306.3	303.5	297.8	300.7	303.5	297.8
55°	224.8	227.6	222.0	224.8	219.2	222.0	219.2	222.0
57.5°	154.5	157.4	151.8	157.4	151.8	154.5	151.8	151.8
60°	106.7	106.7	104.0	106.7	104.0	104.0	101.1	106.7
62.5°	73.0	73.0	73.0	73.0	73.0	70.3	73.0	73.0
65°	53.4	50.6	50.6	50.6	50.6	50.6	50.6	50.6
67.5°	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
70°	25.3	25.3	25.3	25.3	25.3	25.3	25.3	25.3
72.5°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7
75°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
77.5°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
80°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
82.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
85°	2.9	2.9	2.9	0.0	2.9	0.0	0.0	0.0
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)