

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: P858064

Luminaire Tested: **LX4C40D010 EX4C409030 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P858064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C40D010 EX4C409030 4LBLWW*
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

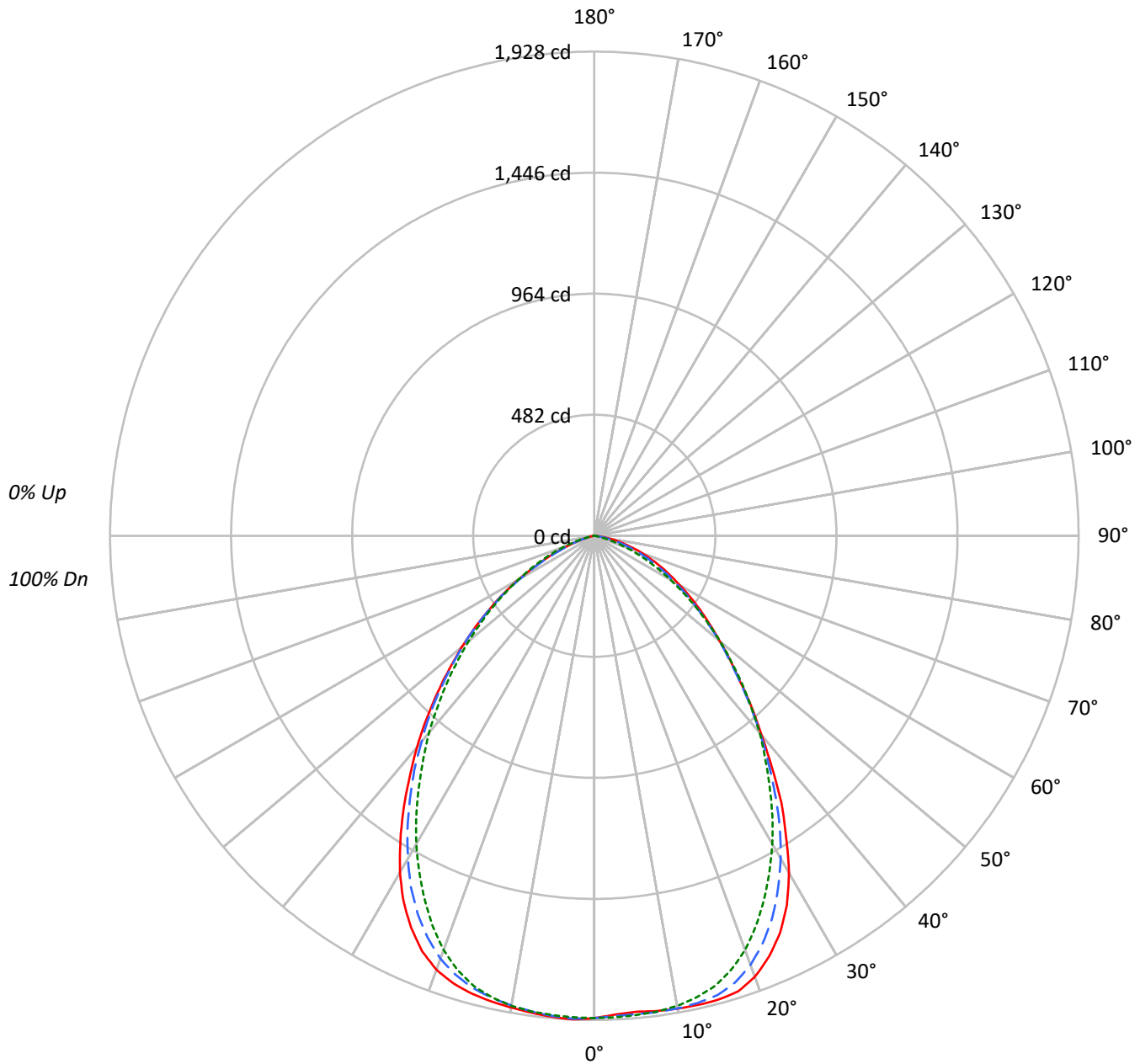
Lumens per Lamp: N/A
Luminaire Lumens: 3682.3 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 65
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
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	109	105	102	99		101	99	96			97	95	93			94
2	103	96	91	86	101	95	89	85		91	87	83			88	84	81			85
3	95	87	80	74	93	85	79	74		82	77	72			80	75	71			77
4	88	78	71	65	86	77	70	65		75	69	64			72	67	63			70
5	82	71	63	57	80	70	63	57		68	61	57			66	60	56			64
6	76	65	57	51	75	64	56	51		62	56	51			61	55	50			59
7	71	59	51	46	70	59	51	46		57	50	46			56	50	45			54
8	67	55	47	42	65	54	47	42		53	46	41			52	46	41			50
9	63	51	43	38	61	50	43	38		49	42	38			48	42	38			47
10	59	47	40	35	58	46	39	35		45	39	35			45	39	35			44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	235965	235965	235965
5°	234646	236249	237125
10°	238519	237085	237983
15°	243182	236034	239977
20°	244402	229419	240362
25°	236880	216656	233654
30°	219881	201057	219470
35°	194699	182371	198374
40°	165987	164255	175930
45°	142607	144240	153240
50°	124461	124748	131380
55°	109986	105359	108915
60°	96415	85948	85580
65°	85348	66657	59331
70°	72774	45834	35237
75°	58906	24683	16091
80°	40256	6084	4103
85°	12122	2114	2114



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	5.0
10°-20°	528.4	14.4
20°-30°	763.5	20.7
30°-40°	789.3	21.4
40°-50°	652.2	17.7
50°-60°	450.1	12.2
60°-70°	235.7	6.4
70°-80°	74.2	2.0
80°-90°	6.3	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°	1474.5	40.0
0°-40°	2263.8	61.5
0°-60°	3366.2	91.4
0°-90°	3682.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3682.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1921	1921	1921	1921	1921	
5°	1903	1912	1916	1919	1923	182
15°	1912	1894	1856	1864	1887	539
25°	1748	1677	1598	1662	1724	798
35°	1298	1255	1216	1280	1323	806
45°	821	817	830	868	882	640
55°	514	498	492	506	508	461
65°	294	266	229	190	204	291
75°	124	97	52	35	34	133
85°	9	4	2	2	2	18
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°	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7
2.5°	1908.4	1909.1	1909.1	1910.6	1910.6	1910.6	1911.3	1911.3	1912.0	1912.8	1913.5
5°	1902.7	1902.7	1904.1	1904.9	1906.2	1906.9	1908.4	1909.1	1910.6	1911.3	1912.0
7.5°	1908.4	1908.4	1909.1	1909.9	1909.9	1910.6	1910.6	1911.3	1912.0	1912.8	1912.8
10°	1912.0	1912.0	1912.0	1912.0	1912.8	1912.8	1912.8	1912.0	1912.0	1912.0	1911.3
12.5°	1913.5	1913.5	1912.8	1912.0	1912.8	1912.0	1912.0	1909.9	1908.4	1906.9	1904.9
15°	1912.0	1912.0	1911.3	1910.6	1909.9	1908.4	1907.7	1904.1	1901.2	1896.9	1894.0
17.5°	1902.7	1901.2	1899.8	1898.3	1895.4	1893.2	1891.9	1885.3	1880.2	1873.1	1865.2
20°	1869.4	1868.1	1865.9	1862.3	1858.6	1855.8	1851.4	1842.1	1837.0	1826.2	1818.3
22.5°	1815.4	1813.9	1814.7	1808.1	1800.9	1796.6	1793.8	1785.8	1777.2	1763.4	1754.8
25°	1747.5	1743.3	1743.3	1733.2	1729.6	1726.6	1723.0	1713.7	1700.7	1688.4	1676.9
27.5°	1659.6	1653.8	1650.9	1649.4	1640.8	1634.4	1629.3	1622.1	1611.3	1600.5	1584.6
30°	1550.0	1549.3	1545.6	1539.2	1532.6	1529.7	1524.0	1511.8	1501.7	1493.7	1483.6
32.5°	1420.8	1420.1	1420.1	1420.1	1415.8	1415.1	1406.4	1399.9	1392.0	1379.8	1373.2
35°	1298.2	1297.5	1298.2	1287.4	1284.6	1282.4	1281.7	1277.3	1266.5	1260.7	1255.0
37.5°	1159.8	1162.0	1160.5	1157.6	1161.2	1154.7	1159.8	1150.3	1146.1	1144.6	1138.2
40°	1035.0	1040.8	1035.0	1035.7	1039.4	1032.8	1032.8	1031.4	1028.4	1027.1	1025.6
42.5°	928.3	921.0	925.4	921.7	925.4	923.2	919.5	921.7	922.5	919.5	918.8
45°	820.8	822.2	823.6	821.4	821.4	819.4	825.1	821.4	821.4	822.2	817.2
47.5°	733.5	731.4	732.8	731.4	732.1	730.6	732.1	732.8	731.4	731.4	727.0
50°	651.2	649.9	654.9	650.6	650.6	649.9	650.6	649.2	647.0	647.0	648.4
52.5°	579.8	577.0	576.3	579.8	574.9	574.9	575.6	574.1	571.2	569.8	566.1
55°	513.5	512.8	513.5	510.6	509.2	509.2	505.5	504.2	503.5	499.8	497.6
57.5°	451.5	449.3	450.1	449.3	446.4	445.7	442.9	442.9	440.0	437.1	433.4
60°	392.4	392.4	394.6	391.7	389.5	388.0	386.6	385.1	380.1	375.0	370.8
62.5°	339.7	340.4	339.7	337.5	336.1	334.6	333.3	328.9	324.5	321.7	316.6
65°	293.6	292.8	290.7	289.2	285.7	285.7	282.8	280.6	275.5	271.2	266.1
67.5°	246.0	244.5	244.5	244.5	240.1	239.4	238.0	233.7	229.3	223.6	219.3
70°	202.6	204.1	201.9	199.8	197.6	196.9	194.7	190.4	185.4	179.6	176.0
72.5°	161.6	163.0	160.9	160.1	155.8	154.3	153.6	150.1	144.2	140.6	134.9
75°	124.1	124.8	123.3	121.9	119.0	118.3	114.7	111.8	108.2	102.5	97.4
77.5°	89.5	88.0	88.0	85.1	82.2	82.2	81.5	77.2	72.1	67.8	63.5
80°	56.9	56.2	54.0	52.7	50.5	49.8	49.0	45.4	41.9	39.0	36.1
82.5°	28.9	28.2	27.4	26.7	25.3	23.8	24.5	21.6	20.2	17.4	15.2
85°	8.6	9.4	9.4	8.6	7.9	7.9	7.9	7.2	5.8	5.1	4.4
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7
2.5°	1914.2	1914.9	1915.7	1916.4	1916.4	1917.0	1917.7	1918.5	1919.2	1919.2	1919.9
5°	1912.8	1914.2	1914.2	1914.9	1914.9	1914.9	1915.7	1915.7	1915.7	1915.7	1916.4
7.5°	1913.5	1913.5	1913.5	1912.8	1912.8	1912.0	1912.0	1912.0	1910.6	1910.6	1910.6
10°	1909.9	1909.1	1908.4	1906.9	1906.2	1905.6	1904.1	1902.7	1901.2	1900.5	1899.0
12.5°	1902.7	1899.8	1896.9	1894.0	1892.6	1891.9	1889.0	1886.8	1884.6	1882.4	1881.1
15°	1888.2	1883.9	1878.9	1873.1	1871.6	1870.2	1865.2	1860.8	1857.9	1855.8	1852.2
17.5°	1859.3	1850.7	1844.9	1836.3	1832.6	1831.3	1823.3	1819.0	1813.9	1812.5	1809.6
20°	1808.1	1800.2	1789.4	1781.5	1777.2	1772.8	1766.3	1760.5	1754.8	1754.8	1751.2
22.5°	1744.0	1733.9	1720.2	1710.0	1709.4	1700.7	1695.0	1688.4	1686.2	1682.0	1682.0
25°	1663.2	1654.5	1639.4	1630.7	1626.4	1624.3	1614.8	1606.2	1601.8	1598.3	1601.1
27.5°	1573.8	1560.8	1549.3	1538.5	1534.8	1530.5	1521.8	1518.2	1510.3	1509.6	1508.8
30°	1471.3	1458.3	1446.8	1441.8	1434.5	1430.9	1424.5	1420.1	1417.3	1417.3	1415.8
32.5°	1363.9	1352.3	1346.5	1335.7	1332.2	1327.1	1322.7	1318.5	1319.9	1318.5	1319.2
35°	1247.8	1244.9	1234.1	1227.5	1227.5	1226.8	1219.6	1216.7	1215.3	1216.0	1219.6
37.5°	1137.4	1128.7	1121.6	1117.2	1120.8	1116.5	1115.7	1115.7	1120.1	1117.2	1123.0
40°	1019.8	1019.1	1016.3	1017.6	1018.4	1013.4	1014.8	1015.6	1018.4	1024.2	1024.9
42.5°	917.5	916.7	916.7	916.7	915.3	912.4	915.3	920.3	919.5	923.9	927.5
45°	818.6	817.2	820.1	817.9	822.2	823.6	821.4	822.9	827.3	830.2	835.9
47.5°	728.4	728.4	729.2	730.6	726.3	729.9	731.4	734.3	736.3	737.8	740.7
50°	644.8	644.8	643.3	643.3	643.3	645.5	642.6	646.2	647.0	652.7	656.3
52.5°	567.6	564.0	566.1	564.8	561.9	560.4	561.9	562.6	566.9	568.3	572.7
55°	494.0	494.0	488.3	486.8	489.0	488.3	487.6	487.6	489.7	491.9	495.5
57.5°	429.2	424.8	420.4	419.7	417.6	418.4	418.4	417.6	416.2	416.9	417.6
60°	367.9	364.9	358.5	358.5	357.8	357.0	353.4	352.7	349.1	349.8	347.0
62.5°	311.5	310.2	301.5	298.5	298.5	296.5	292.8	292.1	287.0	287.0	284.2
65°	261.0	256.8	251.7	246.7	246.7	243.8	241.6	235.2	231.5	229.3	225.1
67.5°	214.9	208.5	203.4	199.1	196.2	195.5	190.4	186.1	180.3	176.8	170.2
70°	170.2	165.1	160.1	155.8	153.0	150.1	145.0	138.5	134.2	127.6	123.3
72.5°	128.3	124.1	119.7	114.0	110.4	108.2	103.2	97.4	90.2	85.8	80.0
75°	92.3	87.3	81.5	76.5	74.3	72.1	66.4	62.0	56.9	52.0	46.1
77.5°	59.9	54.0	49.8	44.0	43.2	41.9	36.1	31.7	28.2	25.3	21.6
80°	31.7	28.9	25.3	21.6	20.2	18.1	15.2	13.0	10.8	8.6	7.2
82.5°	13.7	11.5	9.4	7.9	7.2	6.4	5.1	4.4	3.6	3.6	2.9
85°	3.6	2.9	2.9	2.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.0	0.7	0.7	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°	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7
2.5°	1920.7	1921.4	1922.1	1922.1	1922.8	1923.6	1923.6	1924.3	1925.0	1925.7	1925.7
5°	1917.0	1917.0	1917.0	1917.7	1917.7	1917.7	1917.7	1919.2	1919.2	1919.9	1920.7
7.5°	1909.9	1909.9	1909.9	1909.9	1909.1	1909.9	1909.1	1909.1	1910.6	1911.3	1912.0
10°	1898.3	1897.6	1897.6	1896.9	1896.9	1896.9	1897.6	1898.3	1899.0	1899.8	1902.0
12.5°	1880.2	1879.6	1879.6	1878.9	1878.9	1879.6	1880.2	1881.7	1884.6	1886.1	1889.0
15°	1851.4	1850.7	1851.4	1852.2	1853.6	1855.8	1857.9	1860.1	1864.4	1868.1	1871.6
17.5°	1809.6	1810.3	1811.0	1812.5	1814.7	1817.6	1823.3	1829.1	1834.1	1839.9	1845.6
20°	1751.9	1754.8	1755.5	1760.5	1762.0	1768.5	1775.0	1783.6	1791.6	1798.8	1806.8
22.5°	1682.7	1684.9	1687.7	1693.5	1697.1	1705.8	1713.7	1723.7	1732.5	1741.8	1753.4
25°	1604.0	1604.8	1613.4	1613.4	1622.1	1629.3	1638.6	1649.4	1662.4	1674.7	1682.7
27.5°	1514.7	1518.2	1524.7	1527.5	1534.1	1545.6	1553.5	1566.5	1579.5	1590.3	1599.0
30°	1420.8	1423.7	1434.5	1436.0	1441.1	1451.2	1462.0	1474.2	1484.3	1496.6	1504.5
32.5°	1322.0	1330.0	1336.4	1341.5	1343.0	1358.1	1363.9	1372.5	1384.0	1396.3	1404.3
35°	1226.1	1229.7	1239.1	1242.0	1246.4	1255.0	1266.5	1273.7	1279.5	1287.4	1296.9
37.5°	1124.5	1135.3	1137.4	1146.1	1147.5	1155.4	1161.2	1169.9	1177.0	1184.3	1185.8
40°	1029.9	1033.5	1041.4	1043.6	1045.1	1055.9	1063.2	1065.2	1068.9	1075.4	1084.0
42.5°	934.0	937.6	946.2	944.2	950.6	955.6	959.2	968.0	971.5	973.7	973.7
45°	839.5	841.0	846.7	849.6	853.2	856.2	862.6	867.0	868.4	874.9	877.0
47.5°	749.3	750.8	755.1	760.2	758.8	762.3	769.6	771.8	772.5	776.8	778.9
50°	660.7	664.2	670.0	668.6	673.0	675.0	681.6	683.0	683.0	683.8	684.5
52.5°	577.8	580.6	582.0	583.5	585.7	589.3	592.1	590.8	593.6	596.5	594.3
55°	495.5	497.6	501.3	502.7	502.7	503.5	502.0	508.5	505.5	504.8	505.5
57.5°	420.4	417.6	416.9	420.4	421.9	421.2	419.1	421.9	421.9	420.4	418.4
60°	347.6	345.5	344.8	345.5	342.6	340.4	341.9	340.4	336.8	335.3	336.1
62.5°	281.3	279.1	273.4	273.4	271.9	271.2	265.4	266.1	263.2	259.0	260.4
65°	220.0	214.2	211.4	210.6	205.5	201.2	199.8	194.7	190.4	189.6	190.4
67.5°	165.1	158.7	153.6	151.5	148.6	145.0	140.0	135.6	137.1	136.3	139.1
70°	114.7	110.4	105.3	101.7	103.2	98.8	95.9	95.9	96.6	97.4	98.8
72.5°	76.5	70.7	68.5	66.4	64.9	62.0	63.5	63.5	62.8	63.5	62.0
75°	43.2	40.4	38.2	37.5	36.1	36.1	36.1	36.1	35.3	34.6	34.6
77.5°	19.4	18.1	17.4	16.6	16.6	16.6	15.9	15.2	15.2	15.2	14.4
80°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
82.5°	2.9	2.9	3.6	3.6	3.6	2.9	3.6	3.6	2.9	2.9	3.6
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.7	0.7	0.7	0.0	0.7	0.7	0.7	0.7	0.0	0.7	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: P858064

CATALOG NUMBER: LX4C40D010 EX4C409030 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7	1920.7
2.5°	1926.5	1927.2	1927.2	1927.2	1927.9	1927.9	1927.9	1927.9
5°	1921.4	1922.1	1922.1	1922.1	1922.8	1922.8	1922.8	1922.8
7.5°	1912.8	1913.5	1913.5	1914.2	1914.2	1914.9	1914.9	1915.7
10°	1902.7	1904.1	1904.9	1905.6	1906.2	1906.9	1906.9	1907.7
12.5°	1891.9	1893.2	1894.0	1895.4	1896.9	1897.6	1898.3	1899.0
15°	1876.0	1878.9	1880.2	1881.1	1883.9	1885.3	1886.1	1886.8
17.5°	1850.7	1856.4	1858.6	1860.1	1863.0	1865.9	1868.1	1868.7
20°	1814.7	1821.1	1824.0	1827.7	1832.0	1835.6	1837.0	1838.5
22.5°	1764.2	1771.3	1775.7	1780.1	1783.6	1787.2	1793.0	1790.9
25°	1692.0	1704.3	1709.4	1711.5	1719.5	1723.7	1726.6	1723.7
27.5°	1611.3	1618.5	1622.8	1627.8	1633.6	1637.9	1639.4	1643.7
30°	1513.9	1526.2	1525.5	1530.5	1537.7	1542.0	1543.4	1547.1
32.5°	1412.9	1418.6	1423.0	1422.3	1425.2	1433.1	1430.3	1436.7
35°	1305.5	1306.2	1313.4	1312.7	1318.5	1318.5	1318.5	1322.7
37.5°	1190.8	1199.4	1195.9	1204.5	1201.6	1203.7	1203.7	1205.2
40°	1086.2	1089.0	1089.0	1091.9	1094.1	1091.9	1093.4	1097.0
42.5°	978.0	981.0	981.6	980.1	982.3	988.9	983.8	988.1
45°	877.0	879.2	882.0	879.9	883.5	881.4	883.5	882.0
47.5°	781.9	781.1	780.4	786.1	781.1	781.9	784.8	779.7
50°	684.5	688.7	685.9	688.0	689.5	689.5	687.4	687.4
52.5°	597.9	597.2	595.0	597.2	595.7	596.5	597.9	596.5
55°	508.5	511.4	509.9	509.2	509.9	509.9	514.3	508.5
57.5°	420.4	419.1	421.2	426.3	421.2	424.8	427.0	427.7
60°	336.8	336.8	341.2	339.0	343.3	347.0	349.8	348.3
62.5°	256.8	260.4	261.9	262.5	266.9	269.8	269.8	269.0
65°	190.4	195.5	195.5	198.4	199.8	199.8	201.2	204.1
67.5°	140.6	140.6	141.3	142.8	142.1	142.1	143.5	144.2
70°	98.1	96.6	98.8	98.1	98.1	97.4	98.1	98.1
72.5°	62.0	62.0	62.8	62.0	60.6	61.3	61.3	62.8
75°	33.1	34.6	33.1	33.1	33.9	32.4	33.1	33.9
77.5°	13.7	13.7	13.7	13.7	13.7	13.0	13.0	13.0
80°	6.4	6.4	6.4	6.4	6.4	6.4	5.8	5.8
82.5°	2.9	3.6	2.9	3.6	2.9	2.9	2.9	2.9
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	0.0	0.7	0.0	0.7	0.0	0.0	0.0	0.7
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)