

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: P858015

Luminaire Tested: **LX4C40D010 EX4C409830 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P858015
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: LX4C40D010 EX4C409830 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

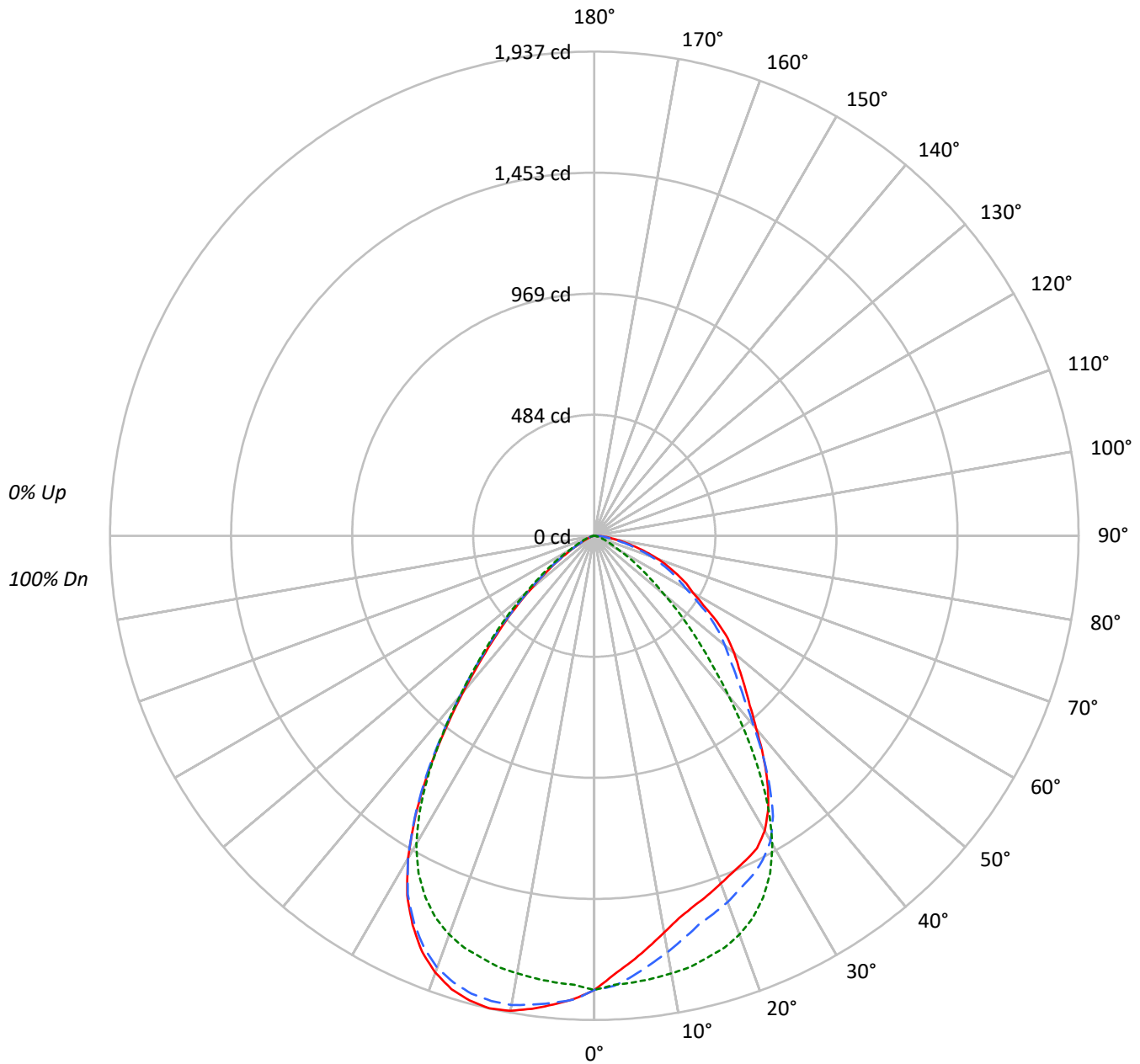
Lumens per Lamp: N/A
Luminaire Lumens: 3185.3 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	223249	223249	223249
5°	210808	221204	232180
10°	200983	221716	240715
15°	195080	222183	244810
20°	193479	221967	243081
25°	194262	216479	232976
30°	193325	201979	211271
35°	181216	172443	174198
40°	161480	133704	130705
45°	147680	99675	93560
50°	139637	69818	63110
55°	128406	47143	39603
60°	112190	27617	21843
65°	106191	17674	12238
70°	96732	12608	7579
75°	80029	8876	5601
80°	62895	4952	3254
85°	56242	3383	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	5.4
10°-20°	492.6	15.5
20°-30°	730.2	22.9
30°-40°	731.2	23.0
40°-50°	511.0	16.0
50°-60°	304.1	9.5
60°-70°	158.7	5.0
70°-80°	70.6	2.2
80°-90°	15.4	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°	1394.4	43.8
0°-40°	2125.6	66.7
0°-60°	2940.6	92.3
0°-90°	3185.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3185.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1817	1817	1817	1817	1817	
5°	1709	1768	1794	1876	1883	160
15°	1534	1611	1747	1897	1925	434
25°	1433	1499	1597	1707	1719	660
35°	1208	1222	1150	1171	1162	749
45°	850	808	574	555	538	660
55°	600	562	220	192	185	532
65°	365	335	61	44	42	361
75°	169	148	19	12	12	182
85°	40	30	2	2	0	45
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°	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2
2.5°	1758.6	1779.7	1758.6	1765.6	1793.7	1768.0	1782.0	1782.0	1775.0	1791.3	1803.1
5°	1709.4	1730.5	1709.4	1718.7	1749.2	1723.5	1739.9	1735.2	1737.6	1751.6	1768.0
7.5°	1660.3	1676.7	1657.9	1669.7	1697.8	1676.7	1690.7	1690.7	1693.1	1714.1	1728.2
10°	1611.1	1625.1	1611.1	1620.5	1651.0	1632.2	1641.6	1643.8	1651.0	1669.7	1690.7
12.5°	1566.6	1578.3	1564.3	1578.3	1604.0	1585.3	1597.0	1599.3	1606.4	1627.5	1651.0
15°	1533.8	1545.6	1531.5	1543.2	1566.6	1552.5	1561.9	1566.6	1571.2	1590.0	1611.1
17.5°	1508.1	1517.5	1505.7	1519.8	1538.5	1522.1	1536.2	1536.2	1543.2	1561.9	1585.3
20°	1479.9	1489.3	1479.9	1491.7	1512.8	1498.8	1510.4	1510.4	1517.5	1538.5	1559.6
22.5°	1454.3	1458.9	1454.3	1463.6	1484.6	1473.0	1479.9	1482.3	1489.3	1508.1	1526.8
25°	1433.1	1442.5	1437.8	1447.1	1461.2	1449.5	1456.5	1458.9	1465.8	1482.3	1498.8
27.5°	1409.7	1414.4	1409.7	1421.4	1433.1	1423.8	1430.8	1428.4	1433.1	1447.1	1461.2
30°	1362.8	1367.6	1367.6	1374.5	1384.0	1379.3	1386.3	1379.3	1384.0	1395.7	1409.7
32.5°	1295.0	1297.3	1299.6	1306.7	1313.7	1306.7	1311.4	1311.4	1311.4	1320.8	1330.1
35°	1208.3	1212.9	1210.7	1215.4	1222.3	1220.1	1220.1	1217.7	1212.9	1217.7	1222.3
37.5°	1110.0	1102.9	1102.9	1110.0	1114.7	1105.3	1110.0	1105.3	1105.3	1107.6	1107.6
40°	1006.9	999.9	1006.9	1009.3	1011.6	1006.9	1004.6	999.9	992.9	995.3	990.5
42.5°	920.4	915.6	918.0	918.0	920.4	915.6	918.0	908.6	901.6	896.8	889.9
45°	850.0	843.1	850.0	845.4	845.4	843.1	840.6	836.0	826.6	819.6	807.9
47.5°	784.5	784.5	786.8	786.8	786.8	782.1	782.1	772.7	763.3	754.0	737.6
50°	730.6	725.9	735.2	735.2	728.3	725.9	728.3	716.5	709.6	697.8	681.4
52.5°	672.0	672.0	674.4	674.4	672.0	667.4	669.7	660.3	653.3	641.6	625.2
55°	599.5	594.8	601.8	601.8	599.5	597.1	599.5	592.5	585.4	576.1	562.0
57.5°	517.6	515.2	519.8	522.2	517.6	517.6	519.8	512.8	510.4	501.1	487.1
60°	456.6	454.3	459.0	461.4	456.6	456.6	456.6	447.2	442.6	433.2	423.8
62.5°	414.5	412.2	416.8	414.5	412.2	409.8	412.2	402.8	398.1	388.7	379.3
65°	365.3	367.7	370.0	370.0	367.7	365.3	365.3	360.6	356.0	346.6	334.8
67.5°	318.4	318.4	320.8	323.1	320.8	320.8	320.8	313.7	309.1	302.1	288.0
70°	269.3	266.9	274.0	274.0	269.3	271.6	269.3	266.9	262.3	252.9	241.2
72.5°	217.8	217.8	220.1	220.1	217.8	217.8	217.8	215.4	208.4	203.7	192.0
75°	168.6	168.6	170.9	173.3	168.6	168.6	170.9	166.2	161.6	154.5	147.5
77.5°	126.4	124.1	126.4	126.4	124.1	124.1	124.1	121.8	119.4	112.4	105.4
80°	88.9	86.7	88.9	88.9	88.9	86.7	86.7	84.3	84.3	79.5	72.6
82.5°	60.8	58.6	60.8	60.8	60.8	58.6	58.6	58.6	56.2	53.9	49.2
85°	39.9	37.5	37.5	39.9	37.5	37.5	37.5	37.5	35.1	32.7	30.5
87.5°	18.7	18.7	18.7	18.7	18.7	18.7	18.7	16.4	16.4	16.4	14.0
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°	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2
2.5°	1793.7	1789.1	1803.1	1798.5	1800.7	1789.1	1807.8	1798.5	1810.1	1798.5	1821.8
5°	1763.2	1758.6	1779.7	1777.3	1779.7	1770.4	1791.3	1789.1	1803.1	1793.7	1819.4
7.5°	1730.5	1725.8	1749.2	1751.6	1756.3	1746.9	1775.0	1775.0	1789.1	1786.7	1814.8
10°	1693.1	1695.4	1718.7	1723.5	1732.9	1728.2	1753.9	1761.0	1779.7	1777.3	1812.5
12.5°	1657.9	1657.9	1688.4	1697.8	1704.7	1702.4	1732.9	1742.3	1763.2	1768.0	1800.7
15°	1622.9	1625.1	1653.2	1667.3	1676.7	1674.3	1707.1	1718.7	1744.5	1746.9	1786.7
17.5°	1594.7	1592.4	1622.9	1634.5	1648.6	1646.2	1681.3	1695.4	1721.2	1728.2	1765.6
20°	1571.2	1568.9	1597.0	1611.1	1620.5	1618.2	1653.2	1669.7	1693.1	1697.8	1735.2
22.5°	1543.2	1538.5	1566.6	1578.3	1587.7	1585.3	1615.7	1627.5	1651.0	1655.6	1690.7
25°	1510.4	1505.7	1531.5	1538.5	1545.6	1540.8	1566.6	1573.7	1592.4	1597.0	1632.2
27.5°	1473.0	1461.2	1482.3	1482.3	1487.0	1479.9	1498.8	1505.7	1522.1	1522.1	1554.9
30°	1414.4	1398.1	1409.7	1407.4	1409.7	1400.3	1412.1	1414.4	1426.2	1423.8	1447.1
32.5°	1332.4	1309.0	1316.0	1309.0	1302.0	1287.9	1302.0	1297.3	1306.7	1297.3	1318.4
35°	1220.1	1196.6	1194.2	1184.9	1177.9	1166.1	1166.1	1154.5	1156.8	1149.8	1163.9
37.5°	1098.3	1067.9	1063.1	1044.4	1032.7	1018.6	1018.6	1009.3	997.5	992.9	1004.6
40°	978.8	946.0	934.4	903.9	892.2	878.1	868.7	857.1	852.4	833.7	843.1
42.5°	875.8	840.6	815.0	782.1	770.5	749.3	735.2	721.2	714.3	693.2	702.5
45°	789.2	747.0	718.9	676.7	660.3	637.0	615.8	599.5	583.1	573.7	569.0
47.5°	716.5	672.0	634.6	587.7	562.0	540.9	512.8	496.4	475.4	463.6	456.6
50°	655.7	606.5	564.4	510.4	484.8	461.4	428.5	402.8	384.1	365.3	360.6
52.5°	601.8	550.3	503.5	442.6	412.2	384.1	348.9	320.8	304.4	283.4	281.0
55°	538.5	494.1	442.6	379.3	348.9	320.8	283.4	255.3	234.2	220.1	215.4
57.5°	470.8	428.5	379.3	316.1	285.6	255.3	220.1	194.3	175.6	163.9	161.6
60°	407.4	367.7	320.8	257.5	227.1	201.4	163.9	138.1	121.8	112.4	107.6
62.5°	360.6	323.1	278.7	220.1	192.0	166.2	131.2	107.6	93.6	84.3	79.5
65°	316.1	278.7	238.8	184.9	161.6	138.1	105.4	84.3	70.2	60.8	56.2
67.5°	269.3	236.6	199.0	154.5	131.2	112.4	84.3	65.5	53.9	46.8	42.1
70°	222.4	192.0	161.6	124.1	107.6	88.9	65.5	51.5	39.9	35.1	30.5
72.5°	175.6	152.2	126.4	96.0	82.0	70.2	51.5	37.5	30.5	25.8	21.1
75°	131.2	114.8	93.6	72.6	60.8	51.5	37.5	28.1	23.4	18.7	16.4
77.5°	93.6	79.5	65.5	49.2	44.5	37.5	25.8	21.1	16.4	11.8	9.4
80°	63.2	56.2	44.5	35.1	28.1	25.8	18.7	14.0	9.4	7.0	7.0
82.5°	42.1	35.1	28.1	21.1	18.7	16.4	11.8	9.4	7.0	4.6	4.6
85°	25.8	21.1	16.4	11.8	11.8	9.4	7.0	4.6	2.4	2.4	2.4
87.5°	11.8	9.4	7.0	4.6	4.6	2.4	2.4	2.4	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°	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2
2.5°	1840.6	1826.6	1817.2	1828.8	1833.5	1826.6	1833.5	1845.3	1857.0	1859.3	1826.6
5°	1843.0	1828.8	1824.1	1838.1	1840.6	1838.1	1845.3	1861.7	1875.7	1880.4	1847.6
7.5°	1843.0	1833.5	1831.2	1847.6	1849.9	1847.6	1859.3	1878.0	1892.1	1901.5	1868.6
10°	1838.1	1833.5	1835.9	1849.9	1854.6	1854.6	1871.1	1892.1	1906.1	1915.5	1882.7
12.5°	1831.2	1831.2	1831.2	1847.6	1852.3	1854.6	1868.6	1896.7	1906.1	1920.2	1887.4
15°	1819.4	1819.4	1819.4	1835.9	1843.0	1843.0	1859.3	1885.1	1896.7	1910.8	1878.0
17.5°	1798.5	1798.5	1800.7	1814.8	1821.8	1821.8	1838.1	1866.3	1873.4	1889.8	1857.0
20°	1768.0	1768.0	1770.4	1784.4	1791.3	1786.7	1807.8	1831.2	1838.1	1852.3	1819.4
22.5°	1723.5	1723.5	1723.5	1737.6	1742.3	1739.9	1761.0	1782.0	1782.0	1800.7	1765.6
25°	1657.9	1662.6	1657.9	1671.9	1676.7	1674.3	1693.1	1711.8	1707.1	1728.2	1693.1
27.5°	1578.3	1576.0	1576.0	1587.7	1587.7	1585.3	1599.3	1620.5	1615.7	1629.8	1597.0
30°	1468.3	1475.2	1463.6	1479.9	1473.0	1468.3	1477.6	1496.3	1489.3	1501.1	1475.2
32.5°	1341.8	1332.4	1332.4	1332.4	1337.1	1325.4	1334.8	1344.1	1337.1	1348.8	1320.8
35°	1175.5	1177.9	1170.9	1173.3	1175.5	1161.5	1170.9	1180.2	1170.9	1177.9	1152.1
37.5°	1009.3	1011.6	995.3	1004.6	995.3	990.5	999.9	1004.6	995.3	1002.2	974.1
40°	843.1	838.3	836.0	836.0	838.3	826.6	833.7	840.6	833.7	838.3	812.6
42.5°	697.8	695.6	690.8	693.2	686.1	683.8	686.1	693.2	686.1	690.8	672.0
45°	571.3	566.6	559.7	562.0	562.0	550.3	557.2	562.0	555.0	557.2	540.9
47.5°	454.3	447.2	447.2	444.9	444.9	440.3	447.2	444.9	437.8	442.6	426.2
50°	353.6	348.9	348.9	348.9	348.9	341.8	344.2	348.9	341.8	341.8	332.4
52.5°	276.3	269.3	264.7	264.7	264.7	262.3	262.3	264.7	257.5	257.5	255.3
55°	208.4	206.1	199.0	199.0	199.0	192.0	194.3	194.3	192.0	192.0	184.9
57.5°	154.5	147.5	142.9	142.9	138.1	138.1	135.8	138.1	133.5	133.5	128.8
60°	103.0	98.3	96.0	93.6	93.6	91.3	93.6	91.3	91.3	88.9	86.7
62.5°	74.9	70.2	65.5	65.5	65.5	63.2	63.2	63.2	63.2	63.2	60.8
65°	53.9	49.2	49.2	46.8	46.8	44.5	44.5	44.5	44.5	44.5	42.1
67.5°	37.5	35.1	32.7	32.7	32.7	32.7	32.7	32.7	30.5	30.5	30.5
70°	28.1	25.8	23.4	23.4	23.4	23.4	23.4	21.1	23.4	23.4	21.1
72.5°	18.7	18.7	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
75°	14.0	14.0	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
77.5°	9.4	9.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
80°	7.0	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
82.5°	4.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	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: P858015

CATALOG NUMBER: LX4C40D010 EX4C409830 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2	1817.2
2.5°	1861.7	1859.3	1854.6	1861.7	1843.0	1835.9	1833.5	1854.6
5°	1887.4	1882.7	1882.7	1889.8	1868.6	1864.0	1859.3	1882.7
7.5°	1910.8	1906.1	1906.1	1913.1	1894.4	1889.8	1885.1	1908.5
10°	1924.8	1924.8	1924.8	1929.6	1913.1	1908.5	1906.1	1929.6
12.5°	1931.9	1931.9	1929.6	1938.9	1917.9	1917.9	1913.1	1936.6
15°	1922.5	1922.5	1922.5	1929.6	1910.8	1906.1	1906.1	1924.8
17.5°	1899.1	1899.1	1896.7	1903.8	1882.7	1882.7	1880.4	1901.5
20°	1864.0	1864.0	1859.3	1868.6	1847.6	1840.6	1838.1	1859.3
22.5°	1807.8	1805.4	1803.1	1807.8	1789.1	1784.4	1782.0	1800.7
25°	1735.2	1732.9	1728.2	1732.9	1711.8	1704.7	1704.7	1718.7
27.5°	1632.2	1632.2	1625.1	1632.2	1608.7	1606.4	1604.0	1620.5
30°	1505.7	1496.3	1491.7	1501.1	1477.6	1477.6	1473.0	1489.3
32.5°	1348.8	1339.5	1337.1	1341.8	1320.8	1313.7	1323.1	1332.4
35°	1168.5	1170.9	1161.5	1161.5	1142.8	1145.1	1147.4	1161.5
37.5°	995.3	990.5	988.1	990.5	976.5	971.8	967.2	981.2
40°	833.7	821.9	819.6	819.6	807.9	805.6	807.9	815.0
42.5°	681.4	679.1	669.7	674.4	662.7	667.4	665.1	665.1
45°	550.3	552.6	543.2	550.3	540.9	533.9	533.9	538.5
47.5°	435.5	435.5	433.2	433.2	426.2	428.5	423.8	430.9
50°	337.2	337.2	332.4	334.8	330.2	330.2	327.8	330.2
52.5°	257.5	255.3	255.3	252.9	248.2	250.6	252.9	248.2
55°	187.4	189.7	184.9	187.4	182.6	184.9	182.6	184.9
57.5°	128.8	131.2	126.4	131.2	126.4	128.8	126.4	126.4
60°	88.9	88.9	86.7	88.9	86.7	86.7	84.3	88.9
62.5°	60.8	60.8	60.8	60.8	60.8	58.6	60.8	60.8
65°	44.5	42.1	42.1	42.1	42.1	42.1	42.1	42.1
67.5°	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
70°	21.1	21.1	21.1	21.1	21.1	21.1	21.1	21.1
72.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	16.4
75°	11.8	11.8	11.8	11.8	11.8	11.8	11.8	11.8
77.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
80°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
85°	2.4	2.4	2.4	0.0	2.4	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)