

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: P858028

Luminaire Tested: **LX4C40D010 EX4C409835 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P858028
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 EX4C409835 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

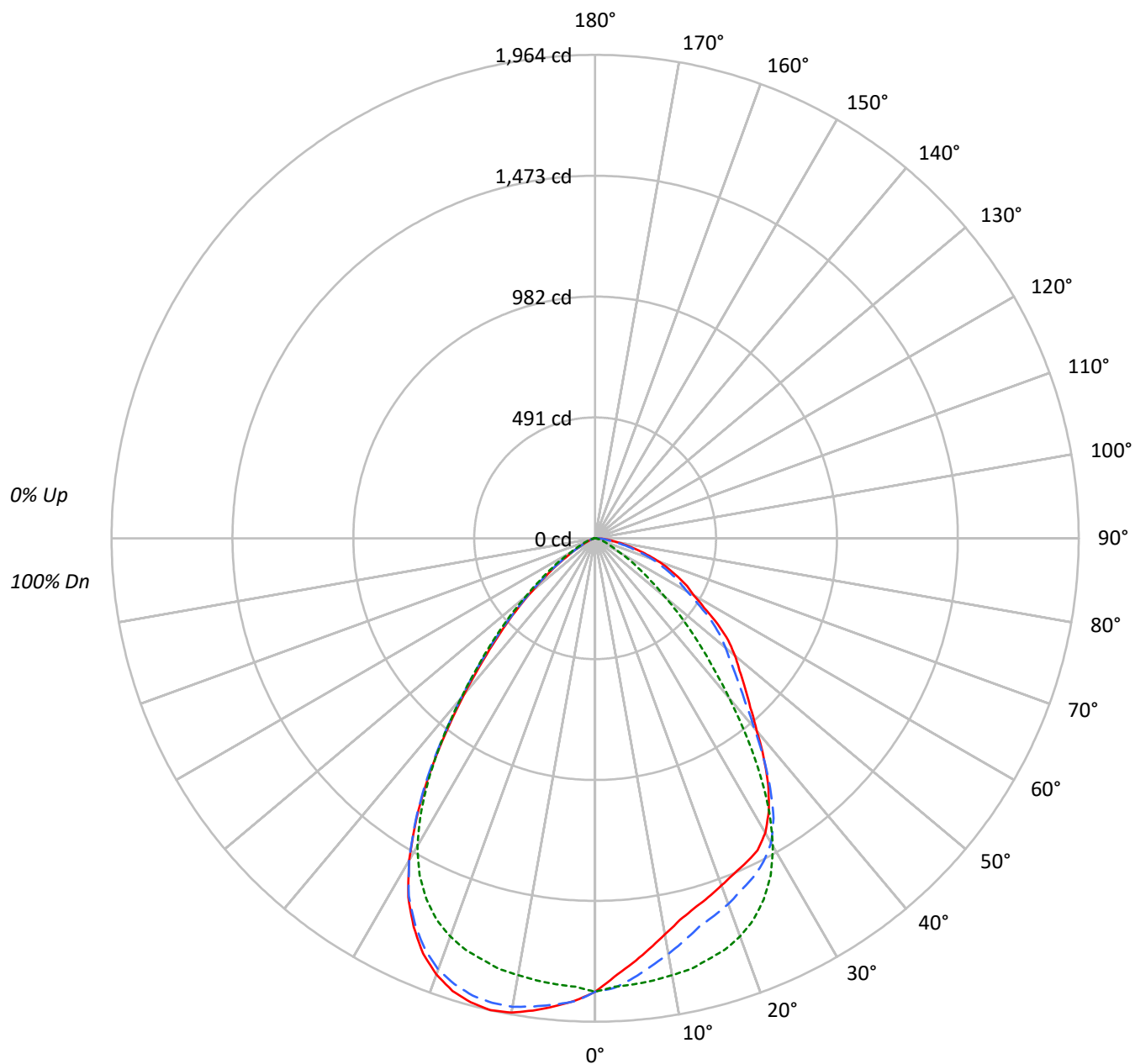
Lumens per Lamp: N/A
Luminaire Lumens: 3229.9 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	226370	226370	226370
5°	213768	224312	235423
10°	203802	224822	244083
15°	197814	225300	248244
20°	196185	225065	246480
25°	196987	219516	236243
30°	196035	204788	214235
35°	183751	174872	176627
40°	163742	135580	132533
45°	149765	101083	94880
50°	141605	70793	63989
55°	130205	47807	40160
60°	113762	28011	22163
65°	107674	17936	12413
70°	98097	12823	7687
75°	81121	9019	5649
80°	63815	5023	3325
85°	56947	3383	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.1	5.4
10°-20°	499.4	15.5
20°-30°	740.4	22.9
30°-40°	741.4	23.0
40°-50°	518.2	16.0
50°-60°	308.3	9.5
60°-70°	160.9	5.0
70°-80°	71.5	2.2
80°-90°	15.6	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°	1413.9	43.8
0°-40°	2155.3	66.7
0°-60°	2981.8	92.3
0°-90°	3229.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3229.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1843	1843	1843	1843	1843	
5°	1733	1793	1819	1902	1909	163
15°	1555	1634	1771	1923	1952	440
25°	1453	1520	1619	1731	1743	670
35°	1225	1239	1166	1187	1178	760
45°	862	819	582	563	546	669
55°	608	570	223	195	188	539
65°	370	340	62	45	43	366
75°	171	150	19	12	12	185
85°	40	31	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°	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6
2.5°	1783.2	1804.6	1783.2	1790.4	1818.9	1792.8	1806.9	1806.9	1799.9	1816.5	1828.3
5°	1733.4	1754.8	1733.4	1742.8	1773.8	1747.5	1764.2	1759.5	1761.9	1776.2	1792.8
7.5°	1683.5	1700.1	1681.1	1693.1	1721.5	1700.1	1714.4	1714.4	1716.8	1738.1	1752.5
10°	1633.7	1647.8	1633.7	1643.1	1674.1	1655.1	1664.5	1666.8	1674.1	1693.1	1714.4
12.5°	1588.5	1600.4	1586.1	1600.4	1626.4	1607.5	1619.4	1621.7	1628.9	1650.3	1674.1
15°	1555.3	1567.1	1553.0	1564.7	1588.5	1574.3	1583.7	1588.5	1593.3	1612.3	1633.7
17.5°	1529.2	1538.7	1526.8	1541.0	1560.0	1543.4	1557.7	1557.7	1564.7	1583.7	1607.5
20°	1500.6	1510.2	1500.6	1512.6	1534.0	1519.7	1531.6	1531.6	1538.7	1560.0	1581.4
22.5°	1474.6	1479.3	1474.6	1484.0	1505.3	1493.6	1500.6	1503.0	1510.2	1529.2	1548.2
25°	1453.2	1462.6	1457.9	1467.4	1481.6	1469.9	1476.9	1479.3	1486.4	1503.0	1519.7
27.5°	1429.5	1434.2	1429.5	1441.3	1453.2	1443.6	1450.9	1448.5	1453.2	1467.4	1481.6
30°	1381.9	1386.7	1386.7	1393.8	1403.3	1398.6	1405.7	1398.6	1403.3	1415.2	1429.5
32.5°	1313.1	1315.5	1317.8	1325.0	1332.1	1325.0	1329.8	1329.8	1329.8	1339.2	1348.8
35°	1225.2	1230.0	1227.7	1232.4	1239.4	1237.1	1237.1	1234.7	1230.0	1234.7	1239.4
37.5°	1125.6	1118.3	1118.3	1125.6	1130.3	1120.7	1125.6	1120.7	1120.7	1123.1	1123.1
40°	1021.0	1013.9	1021.0	1023.5	1025.8	1021.0	1018.6	1013.9	1006.8	1009.2	1004.5
42.5°	933.2	928.4	930.8	930.8	933.2	928.4	930.8	921.3	914.1	909.4	902.4
45°	862.0	854.8	862.0	857.1	857.1	854.8	852.4	847.7	838.1	831.1	819.2
47.5°	795.4	795.4	797.8	797.8	797.8	793.0	793.0	783.6	774.0	764.6	748.0
50°	740.9	736.0	745.6	745.6	738.5	736.0	738.5	726.6	719.5	707.6	690.9
52.5°	681.5	681.5	683.9	683.9	681.5	676.7	679.2	669.6	662.5	650.6	633.9
55°	607.9	603.2	610.2	610.2	607.9	605.5	607.9	600.8	593.6	584.2	569.8
57.5°	524.8	522.4	527.1	529.5	524.8	524.8	527.1	520.1	517.7	508.1	493.8
60°	463.0	460.7	465.4	467.8	463.0	463.0	463.0	453.5	448.7	439.3	429.7
62.5°	420.3	418.0	422.7	420.3	418.0	415.6	418.0	408.4	403.7	394.1	384.7
65°	370.4	372.7	375.2	375.2	372.7	370.4	370.4	365.7	361.0	351.4	339.6
67.5°	322.9	322.9	325.3	327.6	325.3	325.3	325.3	318.2	313.4	306.3	292.0
70°	273.1	270.6	277.9	277.9	273.1	275.5	273.1	270.6	265.9	256.5	244.6
72.5°	220.8	220.8	223.2	223.2	220.8	220.8	220.8	218.5	211.3	206.5	194.8
75°	170.9	170.9	173.4	175.8	170.9	170.9	173.4	168.5	163.8	156.8	149.5
77.5°	128.2	125.8	128.2	128.2	125.8	125.8	125.8	123.5	121.1	114.0	106.8
80°	90.2	87.8	90.2	90.2	90.2	87.8	87.8	85.4	85.4	80.7	73.7
82.5°	61.7	59.4	61.7	61.7	61.7	59.4	59.4	59.4	57.0	54.7	49.8
85°	40.4	38.0	38.0	40.4	38.0	38.0	38.0	38.0	35.7	33.3	30.9
87.5°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	16.7	16.7	16.7	14.3
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°	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6
2.5°	1818.9	1814.2	1828.3	1823.6	1825.9	1814.2	1833.2	1823.6	1835.5	1823.6	1847.3
5°	1787.9	1783.2	1804.6	1802.2	1804.6	1795.2	1816.5	1814.2	1828.3	1818.9	1844.9
7.5°	1754.8	1750.0	1773.8	1776.2	1780.9	1771.4	1799.9	1799.9	1814.2	1811.7	1840.2
10°	1716.8	1719.1	1742.8	1747.5	1757.2	1752.5	1778.5	1785.6	1804.6	1802.2	1837.9
12.5°	1681.1	1681.1	1712.1	1721.5	1728.6	1726.2	1757.2	1766.6	1787.9	1792.8	1825.9
15°	1645.5	1647.8	1676.4	1690.6	1700.1	1697.8	1731.0	1742.8	1768.9	1771.4	1811.7
17.5°	1617.0	1614.7	1645.5	1657.4	1671.7	1669.3	1704.8	1719.1	1745.2	1752.5	1790.4
20°	1593.3	1591.0	1619.4	1633.7	1643.1	1640.8	1676.4	1693.1	1716.8	1721.5	1759.5
22.5°	1564.7	1560.0	1588.5	1600.4	1609.9	1607.5	1638.4	1650.3	1674.1	1678.8	1714.4
25°	1531.6	1526.8	1553.0	1560.0	1567.1	1562.4	1588.5	1595.7	1614.7	1619.4	1655.1
27.5°	1493.6	1481.6	1503.0	1503.0	1507.8	1500.6	1519.7	1526.8	1543.4	1543.4	1576.7
30°	1434.2	1417.6	1429.5	1427.1	1429.5	1419.9	1431.9	1434.2	1446.0	1443.6	1467.4
32.5°	1351.1	1327.4	1334.5	1327.4	1320.2	1306.0	1320.2	1315.5	1325.0	1315.5	1336.8
35°	1237.1	1213.4	1211.0	1201.4	1194.4	1182.4	1182.4	1170.7	1173.0	1166.0	1180.1
37.5°	1113.6	1082.8	1078.0	1059.0	1047.2	1032.9	1032.9	1023.5	1011.5	1006.8	1018.6
40°	992.5	959.2	947.5	916.5	904.7	890.4	880.9	869.1	864.4	845.4	854.8
42.5°	888.1	852.4	826.4	793.0	781.3	759.9	745.6	731.3	724.3	702.9	712.3
45°	800.2	757.4	729.0	686.2	669.6	645.9	624.5	607.9	591.2	581.8	577.0
47.5°	726.6	681.5	643.5	596.0	569.8	548.5	520.1	503.4	482.1	470.1	463.0
50°	664.9	614.9	572.2	517.7	491.5	467.8	434.5	408.4	389.4	370.4	365.7
52.5°	610.2	558.1	510.5	448.7	418.0	389.4	353.8	325.3	308.6	287.3	284.9
55°	546.1	501.1	448.7	384.7	353.8	325.3	287.3	258.9	237.5	223.2	218.5
57.5°	477.3	434.5	384.7	320.6	289.6	258.9	223.2	197.1	178.1	166.2	163.8
60°	413.1	372.7	325.3	261.2	230.2	204.2	166.2	140.1	123.5	114.0	109.1
62.5°	365.7	327.6	282.6	223.2	194.8	168.5	133.0	109.1	95.0	85.4	80.7
65°	320.6	282.6	242.2	187.5	163.8	140.1	106.8	85.4	71.3	61.7	57.0
67.5°	273.1	239.9	201.8	156.8	133.0	114.0	85.4	66.4	54.7	47.4	42.7
70°	225.5	194.8	163.8	125.8	109.1	90.2	66.4	52.3	40.4	35.7	30.9
72.5°	178.1	154.4	128.2	97.4	83.1	71.3	52.3	38.0	30.9	26.1	21.4
75°	133.0	116.4	95.0	73.7	61.7	52.3	38.0	28.4	23.7	19.0	16.7
77.5°	95.0	80.7	66.4	49.8	45.1	38.0	26.1	21.4	16.7	11.9	9.5
80°	64.1	57.0	45.1	35.7	28.4	26.1	19.0	14.3	9.5	7.1	7.1
82.5°	42.7	35.7	28.4	21.4	19.0	16.7	11.9	9.5	7.1	4.7	4.7
85°	26.1	21.4	16.7	11.9	11.9	9.5	7.1	4.7	2.4	2.4	2.4
87.5°	11.9	9.5	7.1	4.7	4.7	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°	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6
2.5°	1866.3	1852.1	1842.6	1854.5	1859.2	1852.1	1859.2	1871.1	1883.0	1885.3	1852.1
5°	1868.7	1854.5	1849.7	1863.9	1866.3	1863.9	1871.1	1887.7	1902.0	1906.7	1873.5
7.5°	1868.7	1859.2	1856.9	1873.5	1875.9	1873.5	1885.3	1904.3	1918.6	1928.0	1894.9
10°	1863.9	1859.2	1861.6	1875.9	1880.6	1880.6	1897.3	1918.6	1932.8	1942.3	1909.0
12.5°	1856.9	1856.9	1856.9	1873.5	1878.3	1880.6	1894.9	1923.3	1932.8	1947.0	1913.8
15°	1844.9	1844.9	1844.9	1861.6	1868.7	1868.7	1885.3	1911.4	1923.3	1937.6	1904.3
17.5°	1823.6	1823.6	1825.9	1840.2	1847.3	1847.3	1863.9	1892.5	1899.6	1916.3	1883.0
20°	1792.8	1792.8	1795.2	1809.3	1816.5	1811.7	1833.2	1856.9	1863.9	1878.3	1844.9
22.5°	1747.5	1747.5	1747.5	1761.9	1766.6	1764.2	1785.6	1806.9	1806.9	1825.9	1790.4
25°	1681.1	1685.8	1681.1	1695.4	1700.1	1697.8	1716.8	1735.8	1731.0	1752.5	1716.8
27.5°	1600.4	1598.0	1598.0	1609.9	1609.9	1607.5	1621.7	1643.1	1638.4	1652.7	1619.4
30°	1488.9	1495.9	1484.0	1500.6	1493.6	1488.9	1498.3	1517.3	1510.2	1522.0	1495.9
32.5°	1360.5	1351.1	1351.1	1351.1	1355.8	1343.9	1353.5	1362.9	1355.8	1367.8	1339.2
35°	1192.0	1194.4	1187.3	1189.7	1192.0	1177.7	1187.3	1196.7	1187.3	1194.4	1168.3
37.5°	1023.5	1025.8	1009.2	1018.6	1009.2	1004.5	1013.9	1018.6	1009.2	1016.2	987.8
40°	854.8	850.1	847.7	847.7	850.1	838.1	845.4	852.4	845.4	850.1	824.0
42.5°	707.6	705.3	700.6	702.9	695.6	693.3	695.6	702.9	695.6	700.6	681.5
45°	579.4	574.5	567.5	569.8	569.8	558.1	565.1	569.8	562.8	565.1	548.5
47.5°	460.7	453.5	453.5	451.1	451.1	446.4	453.5	451.1	444.0	448.7	432.1
50°	358.6	353.8	353.8	353.8	353.8	346.6	349.0	353.8	346.6	346.6	337.2
52.5°	280.2	273.1	268.3	268.3	268.3	265.9	265.9	268.3	261.2	261.2	258.9
55°	211.3	208.9	201.8	201.8	201.8	194.8	197.1	197.1	194.8	194.8	187.5
57.5°	156.8	149.5	144.8	144.8	140.1	140.1	137.8	140.1	135.4	135.4	130.6
60°	104.4	99.7	97.4	95.0	95.0	92.7	95.0	92.7	92.7	90.2	87.8
62.5°	76.0	71.3	66.4	66.4	66.4	64.1	64.1	64.1	64.1	64.1	61.7
65°	54.7	49.8	49.8	47.4	47.4	45.1	45.1	45.1	45.1	45.1	42.7
67.5°	38.0	35.7	33.3	33.3	33.3	33.3	33.3	33.3	30.9	30.9	30.9
70°	28.4	26.1	23.7	23.7	23.7	23.7	23.7	21.4	23.7	23.7	21.4
72.5°	19.0	19.0	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
75°	14.3	14.3	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
77.5°	9.5	9.5	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
80°	7.1	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	4.7	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: P858028

CATALOG NUMBER: LX4C40D010 EX4C409835 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6	1842.6
2.5°	1887.7	1885.3	1880.6	1887.7	1868.7	1861.6	1859.2	1880.6
5°	1913.8	1909.0	1909.0	1916.3	1894.9	1890.0	1885.3	1909.0
7.5°	1937.6	1932.8	1932.8	1940.0	1921.0	1916.3	1911.4	1935.3
10°	1951.8	1951.8	1951.8	1956.6	1940.0	1935.3	1932.8	1956.6
12.5°	1959.0	1959.0	1956.6	1966.0	1944.7	1944.7	1940.0	1963.7
15°	1949.4	1949.4	1949.4	1956.6	1937.6	1932.8	1932.8	1951.8
17.5°	1925.7	1925.7	1923.3	1930.4	1909.0	1909.0	1906.7	1928.0
20°	1890.0	1890.0	1885.3	1894.9	1873.5	1866.3	1863.9	1885.3
22.5°	1833.2	1830.7	1828.3	1833.2	1814.2	1809.3	1806.9	1825.9
25°	1759.5	1757.2	1752.5	1757.2	1735.8	1728.6	1728.6	1742.8
27.5°	1655.1	1655.1	1647.8	1655.1	1631.3	1628.9	1626.4	1643.1
30°	1526.8	1517.3	1512.6	1522.0	1498.3	1498.3	1493.6	1510.2
32.5°	1367.8	1358.2	1355.8	1360.5	1339.2	1332.1	1341.5	1351.1
35°	1184.9	1187.3	1177.7	1177.7	1158.7	1161.0	1163.5	1177.7
37.5°	1009.2	1004.5	1002.0	1004.5	990.2	985.5	980.6	994.9
40°	845.4	833.4	831.1	831.1	819.2	816.8	819.2	826.4
42.5°	690.9	688.6	679.2	683.9	671.9	676.7	674.3	674.3
45°	558.1	560.4	550.8	558.1	548.5	541.4	541.4	546.1
47.5°	441.7	441.7	439.3	439.3	432.1	434.5	429.7	437.0
50°	341.9	341.9	337.2	339.6	334.8	334.8	332.4	334.8
52.5°	261.2	258.9	258.9	256.5	251.6	254.1	256.5	251.6
55°	189.9	192.3	187.5	189.9	185.2	187.5	185.2	187.5
57.5°	130.6	133.0	128.2	133.0	128.2	130.6	128.2	128.2
60°	90.2	90.2	87.8	90.2	87.8	87.8	85.4	90.2
62.5°	61.7	61.7	61.7	61.7	61.7	59.4	61.7	61.7
65°	45.1	42.7	42.7	42.7	42.7	42.7	42.7	42.7
67.5°	30.9	30.9	30.9	30.9	30.9	30.9	30.9	30.9
70°	21.4	21.4	21.4	21.4	21.4	21.4	21.4	21.4
72.5°	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
75°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
77.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
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)