

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: P858002

Luminaire Tested: **LX4C40D010 EX4C409827 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P858002
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 EX4C409827 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

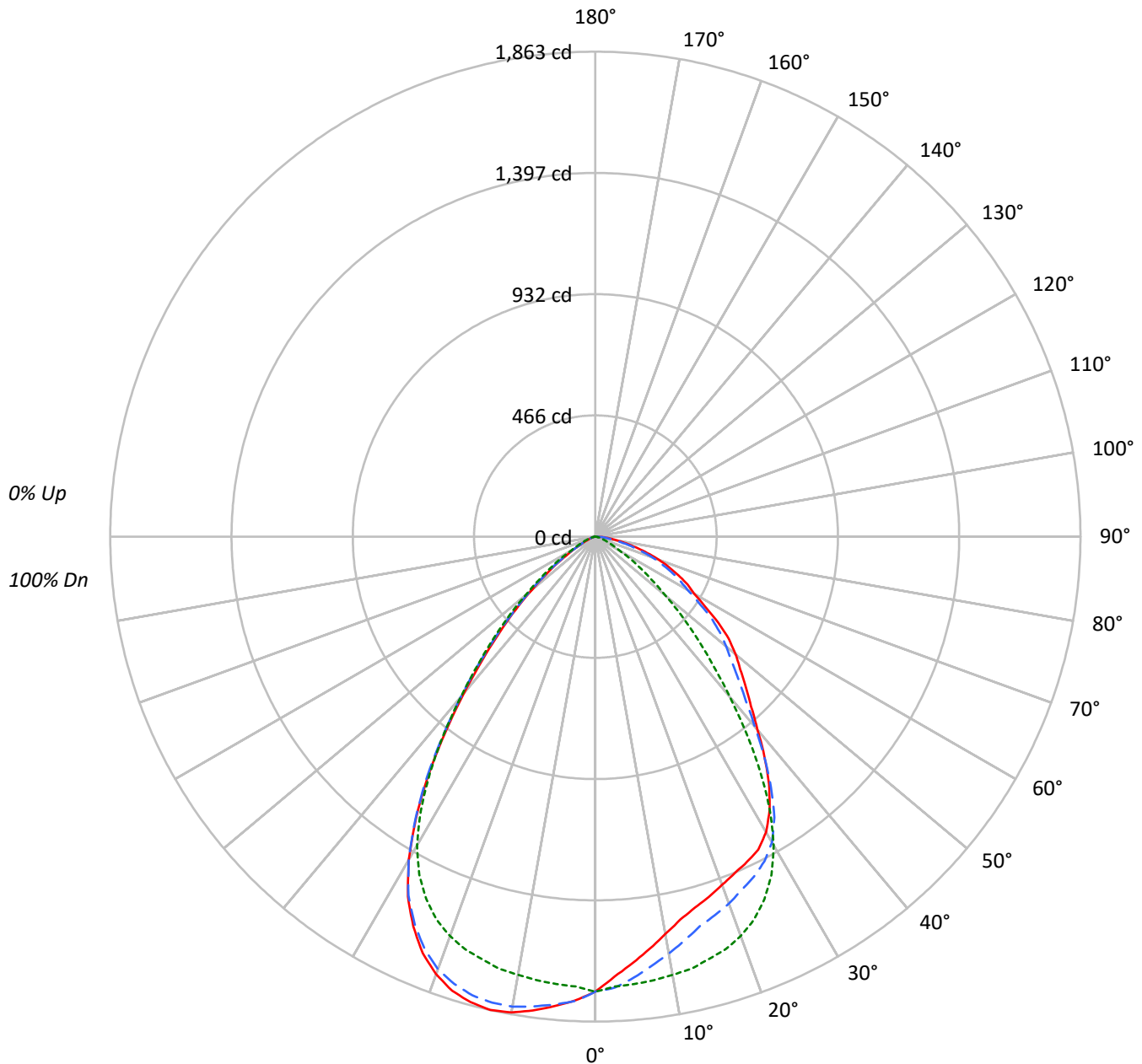
Lumens per Lamp: N/A
Luminaire Lumens: 3064.0 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P858002

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBSWNH

Luminous Intensity Polar Plot





TEST NUMBER: P858002

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBSWNH

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°	214748	214748	214748
5°	202780	212781	223338
10°	193336	213270	231546
15°	187652	213725	235487
20°	186119	213508	233825
25°	186861	208238	224111
30°	185963	194276	203227
35°	174318	165874	167569
40°	155322	128604	125717
45°	142051	95888	89998
50°	134323	67162	60702
55°	123523	45344	38104
60°	107914	26561	21008
65°	102151	17006	11773
70°	93069	12141	7292
75°	76991	8544	5364
80°	60490	4811	3184
85°	53987	3242	0



TEST NUMBER: P858002

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBSWNH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	5.4
10°-20°	473.8	15.5
20°-30°	702.4	22.9
30°-40°	703.3	23.0
40°-50°	491.5	16.0
50°-60°	292.5	9.5
60°-70°	152.6	5.0
70°-80°	67.9	2.2
80°-90°	14.8	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°	1341.3	43.8
0°-40°	2044.6	66.7
0°-60°	2828.7	92.3
0°-90°	3064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3064.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1748	1748	1748	1748	1748	
5°	1644	1701	1725	1804	1811	154
15°	1475	1550	1680	1824	1852	418
25°	1378	1442	1536	1642	1653	635
35°	1162	1176	1106	1126	1117	721
45°	818	777	552	534	518	635
55°	577	541	212	185	178	512
65°	351	322	58	43	40	348
75°	162	142	18	11	11	175
85°	38	29	2	2	0	43
90°	0	0	0	0	0	



TEST NUMBER: P858002

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBSWNH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0
2.5°	1691.6	1712.0	1691.6	1698.4	1725.4	1700.6	1714.2	1714.2	1707.4	1723.2	1734.4
5°	1644.3	1664.6	1644.3	1653.3	1682.6	1657.8	1673.6	1669.2	1671.4	1684.9	1700.6
7.5°	1597.1	1612.8	1594.8	1606.1	1633.1	1612.8	1626.3	1626.3	1628.6	1648.8	1662.4
10°	1549.8	1563.2	1549.8	1558.8	1588.1	1570.1	1579.1	1581.2	1588.1	1606.1	1626.3
12.5°	1507.0	1518.2	1504.7	1518.2	1543.0	1525.0	1536.2	1538.4	1545.2	1565.5	1588.1
15°	1475.4	1486.7	1473.2	1484.4	1507.0	1493.4	1502.4	1507.0	1511.4	1529.4	1549.8
17.5°	1450.7	1459.7	1448.4	1461.9	1479.9	1464.2	1477.7	1477.7	1484.4	1502.4	1525.0
20°	1423.6	1432.6	1423.6	1434.9	1455.1	1441.7	1452.9	1452.9	1459.7	1479.9	1500.2
22.5°	1398.9	1403.3	1398.9	1407.9	1428.0	1416.9	1423.6	1425.9	1432.6	1450.7	1468.7
25°	1378.5	1387.6	1383.0	1392.0	1405.6	1394.3	1401.0	1403.3	1410.0	1425.9	1441.7
27.5°	1356.0	1360.5	1356.0	1367.3	1378.5	1369.5	1376.3	1374.0	1378.5	1392.0	1405.6
30°	1310.9	1315.5	1315.5	1322.2	1331.3	1326.8	1333.5	1326.8	1331.3	1342.5	1356.0
32.5°	1245.7	1247.9	1250.1	1256.9	1263.7	1256.9	1261.5	1261.5	1261.5	1270.5	1279.5
35°	1162.3	1166.8	1164.6	1169.1	1175.8	1173.6	1173.6	1171.3	1166.8	1171.3	1175.8
37.5°	1067.7	1060.9	1060.9	1067.7	1072.2	1063.2	1067.7	1063.2	1063.2	1065.5	1065.5
40°	968.5	961.8	968.5	970.8	973.1	968.5	966.4	961.8	955.1	957.4	952.8
42.5°	885.3	880.7	883.0	883.0	885.3	880.7	883.0	874.0	867.2	862.7	856.0
45°	817.6	811.0	817.6	813.2	813.2	811.0	808.6	804.2	795.2	788.4	777.2
47.5°	754.6	754.6	756.8	756.8	756.8	752.3	752.3	743.3	734.3	725.3	709.6
50°	702.8	698.2	707.2	707.2	700.6	698.2	700.6	689.2	682.5	671.2	655.4
52.5°	646.4	646.4	648.7	648.7	646.4	642.0	644.2	635.2	628.4	617.2	601.4
55°	576.7	572.1	578.9	578.9	576.7	574.4	576.7	569.9	563.1	554.1	540.6
57.5°	497.9	495.5	500.0	502.3	497.9	497.9	500.0	493.3	491.0	482.0	468.5
60°	439.2	437.0	441.5	443.8	439.2	439.2	439.2	430.2	425.7	416.7	407.7
62.5°	398.7	396.5	400.9	398.7	396.5	394.1	396.5	387.5	382.9	373.9	364.9
65°	351.4	353.7	355.9	355.9	353.7	351.4	351.4	346.9	342.4	333.4	322.1
67.5°	306.3	306.3	308.6	310.8	308.6	308.6	308.6	301.8	297.3	290.6	277.1
70°	259.1	256.7	263.6	263.6	259.1	261.3	259.1	256.7	252.3	243.3	232.0
72.5°	209.5	209.5	211.7	211.7	209.5	209.5	209.5	207.2	200.5	195.9	184.7
75°	162.2	162.2	164.4	166.7	162.2	162.2	164.4	159.9	155.4	148.7	141.9
77.5°	121.6	119.4	121.6	121.6	119.4	119.4	119.4	117.2	114.9	108.1	101.4
80°	85.5	83.4	85.5	85.5	85.5	83.4	83.4	81.1	81.1	76.5	69.8
82.5°	58.5	56.4	58.5	58.5	58.5	56.4	56.4	56.4	54.0	51.8	47.4
85°	38.3	36.0	36.0	38.3	36.0	36.0	36.0	36.0	33.8	31.5	29.3
87.5°	18.0	18.0	18.0	18.0	18.0	18.0	18.0	15.8	15.8	15.8	13.5
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: P858002

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBSWNH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0
2.5°	1725.4	1721.0	1734.4	1730.0	1732.2	1721.0	1739.0	1730.0	1741.2	1730.0	1752.5
5°	1696.2	1691.6	1712.0	1709.6	1712.0	1703.0	1723.2	1721.0	1734.4	1725.4	1750.2
7.5°	1664.6	1660.2	1682.6	1684.9	1689.4	1680.4	1707.4	1707.4	1721.0	1718.7	1745.7
10°	1628.6	1630.8	1653.3	1657.8	1666.9	1662.4	1687.2	1694.0	1712.0	1709.6	1743.4
12.5°	1594.8	1594.8	1624.1	1633.1	1639.8	1637.6	1666.9	1675.9	1696.2	1700.6	1732.2
15°	1561.1	1563.2	1590.2	1603.8	1612.8	1610.6	1642.1	1653.3	1678.2	1680.4	1718.7
17.5°	1534.0	1531.7	1561.1	1572.2	1585.8	1583.6	1617.3	1630.8	1655.6	1662.4	1698.4
20°	1511.4	1509.2	1536.2	1549.8	1558.8	1556.5	1590.2	1606.1	1628.6	1633.1	1669.2
22.5°	1484.4	1479.9	1507.0	1518.2	1527.2	1525.0	1554.2	1565.5	1588.1	1592.6	1626.3
25°	1452.9	1448.4	1473.2	1479.9	1486.7	1482.2	1507.0	1513.7	1531.7	1536.2	1570.1
27.5°	1416.9	1405.6	1425.9	1425.9	1430.4	1423.6	1441.7	1448.4	1464.2	1464.2	1495.7
30°	1360.5	1344.8	1356.0	1353.8	1356.0	1347.0	1358.3	1360.5	1371.9	1369.5	1392.0
32.5°	1281.7	1259.1	1265.9	1259.1	1252.5	1238.9	1252.5	1247.9	1256.9	1247.9	1268.1
35°	1173.6	1151.1	1148.7	1139.7	1133.0	1121.7	1121.7	1110.6	1112.7	1106.0	1119.6
37.5°	1056.4	1027.2	1022.6	1004.6	993.4	979.8	979.8	970.8	959.5	955.1	966.4
40°	941.5	910.0	898.8	869.4	858.2	844.7	835.7	824.4	820.0	801.9	811.0
42.5°	842.4	808.6	783.9	752.3	741.1	720.8	707.2	693.8	687.1	666.8	675.8
45°	759.1	718.6	691.5	651.0	635.2	612.7	592.4	576.7	560.9	551.9	547.4
47.5°	689.2	646.4	610.4	565.4	540.6	520.3	493.3	477.5	457.3	446.0	439.2
50°	630.7	583.4	542.9	491.0	466.3	443.8	412.2	387.5	369.4	351.4	346.9
52.5°	578.9	529.3	484.3	425.7	396.5	369.4	335.7	308.6	292.8	272.6	270.3
55°	518.0	475.3	425.7	364.9	335.7	308.6	272.6	245.6	225.3	211.7	207.2
57.5°	452.8	412.2	364.9	304.1	274.7	245.6	211.7	186.9	168.9	157.7	155.4
60°	391.9	353.7	308.6	247.7	218.5	193.7	157.7	132.9	117.2	108.1	103.5
62.5°	346.9	310.8	268.1	211.7	184.7	159.9	126.2	103.5	90.1	81.1	76.5
65°	304.1	268.1	229.7	177.9	155.4	132.9	101.4	81.1	67.5	58.5	54.0
67.5°	259.1	227.6	191.5	148.7	126.2	108.1	81.1	63.0	51.8	45.0	40.5
70°	213.9	184.7	155.4	119.4	103.5	85.5	63.0	49.5	38.3	33.8	29.3
72.5°	168.9	146.4	121.6	92.4	78.8	67.5	49.5	36.0	29.3	24.8	20.3
75°	126.2	110.4	90.1	69.8	58.5	49.5	36.0	27.0	22.5	18.0	15.8
77.5°	90.1	76.5	63.0	47.4	42.8	36.0	24.8	20.3	15.8	11.3	9.0
80°	60.8	54.0	42.8	33.8	27.0	24.8	18.0	13.5	9.0	6.8	6.8
82.5°	40.5	33.8	27.0	20.3	18.0	15.8	11.3	9.0	6.8	4.5	4.5
85°	24.8	20.3	15.8	11.3	11.3	9.0	6.8	4.5	2.3	2.3	2.3
87.5°	11.3	9.0	6.8	4.5	4.5	2.3	2.3	2.3	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: P858002

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBSWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0
2.5°	1770.5	1757.0	1748.0	1759.2	1763.7	1757.0	1763.7	1775.0	1786.3	1788.5	1757.0
5°	1772.8	1759.2	1754.7	1768.2	1770.5	1768.2	1775.0	1790.8	1804.4	1808.8	1777.3
7.5°	1772.8	1763.7	1761.5	1777.3	1779.5	1777.3	1788.5	1806.5	1820.0	1829.1	1797.5
10°	1768.2	1763.7	1766.0	1779.5	1784.0	1784.0	1799.8	1820.0	1833.5	1842.5	1811.0
12.5°	1761.5	1761.5	1761.5	1777.3	1781.8	1784.0	1797.5	1824.5	1833.5	1847.1	1815.5
15°	1750.2	1750.2	1750.2	1766.0	1772.8	1772.8	1788.5	1813.4	1824.5	1838.1	1806.5
17.5°	1730.0	1730.0	1732.2	1745.7	1752.5	1752.5	1768.2	1795.3	1802.0	1817.8	1786.3
20°	1700.6	1700.6	1703.0	1716.4	1723.2	1718.7	1739.0	1761.5	1768.2	1781.8	1750.2
22.5°	1657.8	1657.8	1657.8	1671.4	1675.9	1673.6	1694.0	1714.2	1714.2	1732.2	1698.4
25°	1594.8	1599.2	1594.8	1608.3	1612.8	1610.6	1628.6	1646.6	1642.1	1662.4	1628.6
27.5°	1518.2	1516.0	1516.0	1527.2	1527.2	1525.0	1538.4	1558.8	1554.2	1567.8	1536.2
30°	1412.3	1419.0	1407.9	1423.6	1416.9	1412.3	1421.3	1439.4	1432.6	1443.9	1419.0
32.5°	1290.7	1281.7	1281.7	1281.7	1286.2	1274.9	1283.9	1292.9	1286.2	1297.5	1270.5
35°	1130.7	1133.0	1126.3	1128.6	1130.7	1117.3	1126.3	1135.3	1126.3	1133.0	1108.3
37.5°	970.8	973.1	957.4	966.4	957.4	952.8	961.8	966.4	957.4	964.1	937.0
40°	811.0	806.4	804.2	804.2	806.4	795.2	801.9	808.6	801.9	806.4	781.6
42.5°	671.2	669.1	664.5	666.8	660.0	657.7	660.0	666.8	660.0	664.5	646.4
45°	549.6	545.0	538.3	540.6	540.6	529.3	536.0	540.6	533.9	536.0	520.3
47.5°	437.0	430.2	430.2	427.9	427.9	423.5	430.2	427.9	421.2	425.7	409.9
50°	340.1	335.7	335.7	335.7	335.7	328.8	331.1	335.7	328.8	328.8	319.8
52.5°	265.7	259.1	254.6	254.6	254.6	252.3	252.3	254.6	247.7	247.7	245.6
55°	200.5	198.2	191.5	191.5	191.5	184.7	186.9	186.9	184.7	184.7	177.9
57.5°	148.7	141.9	137.4	137.4	132.9	132.9	130.6	132.9	128.4	128.4	123.9
60°	99.1	94.5	92.4	90.1	90.1	87.8	90.1	87.8	87.8	85.5	83.4
62.5°	72.1	67.5	63.0	63.0	63.0	60.8	60.8	60.8	60.8	60.8	58.5
65°	51.8	47.4	47.4	45.0	45.0	42.8	42.8	42.8	42.8	42.8	40.5
67.5°	36.0	33.8	31.5	31.5	31.5	31.5	31.5	31.5	29.3	29.3	29.3
70°	27.0	24.8	22.5	22.5	22.5	22.5	22.5	20.3	22.5	22.5	20.3
72.5°	18.0	18.0	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
75°	13.5	13.5	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
77.5°	9.0	9.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
80°	6.8	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	4.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
85°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	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: P858002

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0	1748.0
2.5°	1790.8	1788.5	1784.0	1790.8	1772.8	1766.0	1763.7	1784.0
5°	1815.5	1811.0	1811.0	1817.8	1797.5	1793.0	1788.5	1811.0
7.5°	1838.1	1833.5	1833.5	1840.4	1822.4	1817.8	1813.4	1835.8
10°	1851.5	1851.5	1851.5	1856.1	1840.4	1835.8	1833.5	1856.1
12.5°	1858.4	1858.4	1856.1	1865.1	1844.8	1844.8	1840.4	1862.8
15°	1849.4	1849.4	1849.4	1856.1	1838.1	1833.5	1833.5	1851.5
17.5°	1826.8	1826.8	1824.5	1831.4	1811.0	1811.0	1808.8	1829.1
20°	1793.0	1793.0	1788.5	1797.5	1777.3	1770.5	1768.2	1788.5
22.5°	1739.0	1736.7	1734.4	1739.0	1721.0	1716.4	1714.2	1732.2
25°	1669.2	1666.9	1662.4	1666.9	1646.6	1639.8	1639.8	1653.3
27.5°	1570.1	1570.1	1563.2	1570.1	1547.4	1545.2	1543.0	1558.8
30°	1448.4	1439.4	1434.9	1443.9	1421.3	1421.3	1416.9	1432.6
32.5°	1297.5	1288.5	1286.2	1290.7	1270.5	1263.7	1272.7	1281.7
35°	1124.0	1126.3	1117.3	1117.3	1099.3	1101.5	1103.7	1117.3
37.5°	957.4	952.8	950.5	952.8	939.4	934.8	930.4	943.8
40°	801.9	790.6	788.4	788.4	777.2	774.9	777.2	783.9
42.5°	655.4	653.2	644.2	648.7	637.4	642.0	639.7	639.7
45°	529.3	531.6	522.6	529.3	520.3	513.6	513.6	518.0
47.5°	418.9	418.9	416.7	416.7	409.9	412.2	407.7	414.5
50°	324.3	324.3	319.8	322.1	317.6	317.6	315.3	317.6
52.5°	247.7	245.6	245.6	243.3	238.7	241.0	243.3	238.7
55°	180.2	182.5	177.9	180.2	175.7	177.9	175.7	177.9
57.5°	123.9	126.2	121.6	126.2	121.6	123.9	121.6	121.6
60°	85.5	85.5	83.4	85.5	83.4	83.4	81.1	85.5
62.5°	58.5	58.5	58.5	58.5	58.5	56.4	58.5	58.5
65°	42.8	40.5	40.5	40.5	40.5	40.5	40.5	40.5
67.5°	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
70°	20.3	20.3	20.3	20.3	20.3	20.3	20.3	20.3
72.5°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
75°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
85°	2.3	2.3	2.3	0.0	2.3	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)