

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: P857952

Luminaire Tested: **LX4C40D010 EX4C409040 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857952
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 EX4C409040 4LBLWW*
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

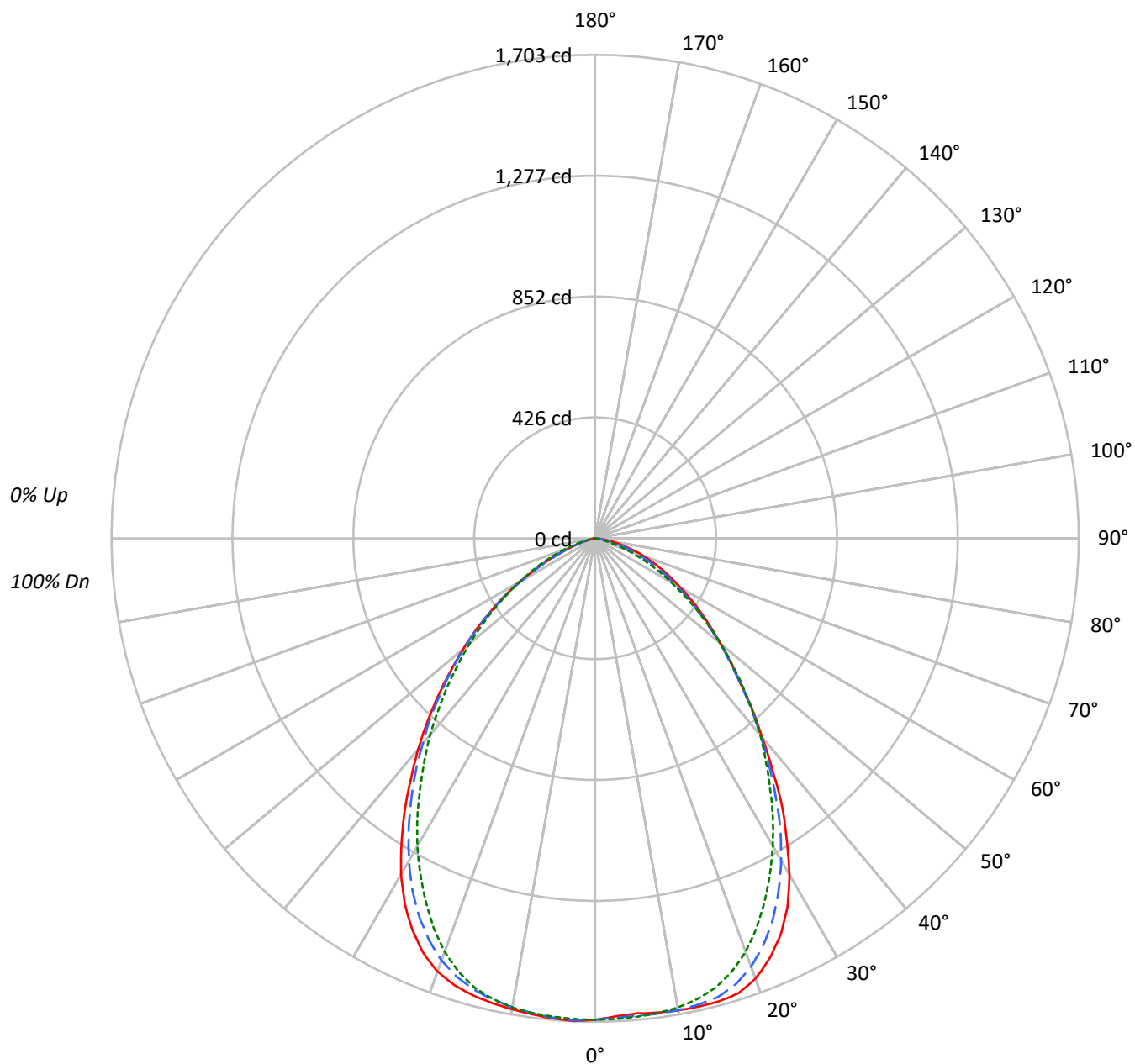
Lumens per Lamp: N/A
Luminaire Lumens: 3252.0 lumens
Efficiency: N/A
Efficacy: 69.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P857952

CATALOG NUMBER: LX4C40D010 EX4C409040 4LBLWW*

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	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78		
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54		
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48		
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43		
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39		
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36		
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	208384	208384	208384
5°	207219	208637	209414
10°	210651	209378	210177
15°	214768	208447	211932
20°	215848	202605	212266
25°	209214	191334	206354
30°	194177	177551	193822
35°	171948	161060	175202
40°	146582	145058	155370
45°	125945	127370	135344
50°	109936	110184	116014
55°	97134	93043	96192
60°	85137	75899	75604
65°	75348	58895	52413
70°	64297	40482	31107
75°	52024	21787	14193
80°	35586	5377	3608
85°	10713	1832	1832



TEST NUMBER: P857952

CATALOG NUMBER: LX4C40D010 EX4C409040 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	5.0
10°-20°	466.7	14.4
20°-30°	674.3	20.7
30°-40°	697.1	21.4
40°-50°	576.0	17.7
50°-60°	397.5	12.2
60°-70°	208.1	6.4
70°-80°	65.5	2.0
80°-90°	5.6	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°	1302.2	40.0
0°-40°	1999.3	61.5
0°-60°	2972.8	91.4
0°-90°	3252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3252.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1696	1696	1696	1696	1696	
5°	1680	1689	1692	1695	1698	161
15°	1689	1673	1639	1647	1666	476
25°	1543	1481	1412	1468	1522	705
35°	1146	1108	1074	1130	1168	712
45°	725	722	733	767	779	565
55°	454	440	434	446	449	407
65°	259	235	203	168	180	257
75°	110	86	46	31	30	117
85°	8	4	1	1	1	16
90°	0	0	0	0	0	



TEST NUMBER: P857952

CATALOG NUMBER: LX4C40D010 EX4C409040 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2
2.5°	1685.4	1686.0	1686.0	1687.3	1687.3	1687.3	1688.0	1688.0	1688.6	1689.2	1689.9
5°	1680.3	1680.3	1681.6	1682.2	1683.5	1684.1	1685.4	1686.0	1687.3	1688.0	1688.6
7.5°	1685.4	1685.4	1686.0	1686.7	1686.7	1687.3	1687.3	1688.0	1688.6	1689.2	1689.2
10°	1688.6	1688.6	1688.6	1688.6	1689.2	1689.2	1689.2	1688.6	1688.6	1688.6	1688.0
12.5°	1689.9	1689.9	1689.2	1688.6	1689.2	1688.6	1688.6	1686.7	1685.4	1684.1	1682.2
15°	1688.6	1688.6	1688.0	1687.3	1686.7	1685.4	1684.8	1681.6	1679.0	1675.2	1672.7
17.5°	1680.3	1679.0	1677.8	1676.5	1673.9	1672.0	1670.8	1665.0	1660.6	1654.2	1647.2
20°	1651.0	1649.7	1647.8	1644.6	1641.5	1638.9	1635.1	1626.8	1622.4	1612.8	1605.8
22.5°	1603.2	1602.0	1602.6	1596.9	1590.5	1586.7	1584.1	1577.1	1569.5	1557.4	1549.7
25°	1543.4	1539.5	1539.5	1530.6	1527.4	1524.9	1521.7	1513.4	1502.0	1491.1	1480.9
27.5°	1465.7	1460.6	1458.0	1456.7	1449.1	1443.4	1438.9	1432.5	1423.0	1413.4	1399.4
30°	1368.8	1368.2	1365.0	1359.3	1353.6	1351.0	1345.9	1335.1	1326.2	1319.2	1310.2
32.5°	1254.8	1254.2	1254.2	1254.2	1250.4	1249.7	1242.1	1236.3	1229.3	1218.5	1212.8
35°	1146.5	1145.9	1146.5	1137.0	1134.4	1132.5	1131.9	1128.1	1118.5	1113.4	1108.3
37.5°	1024.2	1026.2	1024.9	1022.3	1025.5	1019.8	1024.2	1016.0	1012.1	1010.9	1005.1
40°	914.0	919.1	914.0	914.7	917.9	912.1	912.1	910.9	908.3	907.0	905.8
42.5°	819.8	813.4	817.2	814.0	817.2	815.3	812.1	814.0	814.7	812.1	811.5
45°	724.9	726.1	727.4	725.5	725.5	723.6	728.7	725.5	725.5	726.1	721.7
47.5°	647.8	645.9	647.2	645.9	646.5	645.2	646.5	647.2	645.9	645.9	642.1
50°	575.2	573.9	578.4	574.5	574.5	573.9	574.5	573.3	571.4	571.4	572.6
52.5°	512.1	509.6	508.9	512.1	507.7	507.7	508.3	507.0	504.5	503.2	500.0
55°	453.5	452.9	453.5	451.0	449.7	449.7	446.5	445.2	444.6	441.4	439.5
57.5°	398.7	396.8	397.5	396.8	394.3	393.6	391.1	391.1	388.5	386.0	382.8
60°	346.5	346.5	348.4	345.9	344.0	342.7	341.4	340.1	335.7	331.2	327.4
62.5°	300.0	300.6	300.0	298.1	296.8	295.6	294.3	290.5	286.6	284.1	279.6
65°	259.2	258.6	256.7	255.4	252.2	252.2	249.7	247.8	243.3	239.5	235.0
67.5°	217.2	215.9	215.9	215.9	212.1	211.5	210.2	206.4	202.6	197.5	193.6
70°	179.0	180.3	178.4	176.4	174.5	173.9	172.0	168.2	163.7	158.6	155.4
72.5°	142.7	144.0	142.0	141.4	137.6	136.3	135.7	132.5	127.4	124.2	119.1
75°	109.6	110.2	108.9	107.6	105.1	104.5	101.3	98.7	95.5	90.4	86.0
77.5°	79.0	77.7	77.7	75.2	72.6	72.6	72.0	68.2	63.7	59.9	56.1
80°	50.3	49.7	47.8	46.5	44.6	44.0	43.3	40.1	36.9	34.4	31.8
82.5°	25.5	24.8	24.2	23.6	22.3	21.0	21.7	19.1	17.8	15.3	13.4
85°	7.6	8.3	8.3	7.6	7.0	7.0	7.0	6.4	5.1	4.5	3.8
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: P857952

CATALOG NUMBER: LX4C40D010 EX4C409040 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2
2.5°	1690.5	1691.1	1691.8	1692.4	1692.4	1693.1	1693.7	1694.3	1695.0	1695.0	1695.6
5°	1689.2	1690.5	1690.5	1691.1	1691.1	1691.1	1691.8	1691.8	1691.8	1691.8	1692.4
7.5°	1689.9	1689.9	1689.9	1689.2	1689.2	1688.6	1688.6	1688.6	1687.3	1687.3	1687.3
10°	1686.7	1686.0	1685.4	1684.1	1683.5	1682.9	1681.6	1680.3	1679.0	1678.4	1677.1
12.5°	1680.3	1677.8	1675.2	1672.7	1671.4	1670.8	1668.2	1666.3	1664.4	1662.5	1661.2
15°	1667.6	1663.8	1659.3	1654.2	1652.9	1651.7	1647.2	1643.4	1640.8	1638.9	1635.7
17.5°	1642.1	1634.5	1629.4	1621.7	1618.5	1617.3	1610.2	1606.4	1602.0	1600.7	1598.1
20°	1596.9	1589.9	1580.3	1573.3	1569.5	1565.7	1559.9	1554.8	1549.7	1549.7	1546.6
22.5°	1540.2	1531.3	1519.2	1510.2	1509.6	1502.0	1496.9	1491.1	1489.2	1485.4	1485.4
25°	1468.8	1461.2	1447.8	1440.2	1436.4	1434.4	1426.2	1418.5	1414.7	1411.5	1414.1
27.5°	1389.9	1378.4	1368.2	1358.6	1355.5	1351.6	1344.0	1340.8	1333.8	1333.2	1332.5
30°	1299.4	1287.9	1277.8	1273.3	1266.9	1263.7	1258.0	1254.2	1251.6	1251.6	1250.4
32.5°	1204.5	1194.3	1189.2	1179.7	1176.5	1172.0	1168.2	1164.4	1165.6	1164.4	1165.0
35°	1101.9	1099.4	1089.8	1084.1	1084.1	1083.5	1077.1	1074.6	1073.3	1073.9	1077.1
37.5°	1004.5	996.9	990.5	986.7	989.8	986.0	985.4	985.4	989.2	986.7	991.8
40°	900.7	900.0	897.5	898.8	899.4	894.9	896.2	896.8	899.4	904.5	905.1
42.5°	810.2	809.6	809.6	809.6	808.3	805.8	808.3	812.8	812.1	816.0	819.1
45°	723.0	721.7	724.2	722.3	726.1	727.4	725.5	726.8	730.6	733.1	738.2
47.5°	643.3	643.3	644.0	645.2	641.4	644.6	645.9	648.4	650.3	651.6	654.2
50°	569.4	569.4	568.2	568.2	568.2	570.1	567.5	570.7	571.4	576.5	579.6
52.5°	501.3	498.1	500.0	498.7	496.2	494.9	496.2	496.8	500.7	501.9	505.8
55°	436.3	436.3	431.2	430.0	431.9	431.2	430.6	430.6	432.5	434.4	437.6
57.5°	379.0	375.2	371.4	370.7	368.8	369.4	369.4	368.8	367.5	368.2	368.8
60°	324.9	322.3	316.6	316.6	315.9	315.3	312.1	311.5	308.3	308.9	306.4
62.5°	275.2	273.9	266.3	263.7	263.7	261.8	258.6	258.0	253.5	253.5	251.0
65°	230.6	226.8	222.3	217.8	217.8	215.3	213.4	207.7	204.5	202.6	198.7
67.5°	189.8	184.1	179.6	175.8	173.3	172.6	168.2	164.3	159.2	156.1	150.3
70°	150.3	145.9	141.4	137.6	135.0	132.5	128.0	122.3	118.5	112.7	108.9
72.5°	113.4	109.6	105.7	100.6	97.5	95.5	91.1	86.0	79.6	75.8	70.7
75°	81.5	77.1	72.0	67.5	65.6	63.7	58.6	54.8	50.3	45.9	40.8
77.5°	52.9	47.8	44.0	38.9	38.2	36.9	31.8	28.0	24.8	22.3	19.1
80°	28.0	25.5	22.3	19.1	17.8	15.9	13.4	11.5	9.6	7.6	6.4
82.5°	12.1	10.2	8.3	7.0	6.4	5.7	4.5	3.8	3.2	3.2	2.5
85°	3.2	2.5	2.5	1.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.0	0.6	0.6	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: P857952

CATALOG NUMBER: LX4C40D010 EX4C409040 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2
2.5°	1696.2	1696.9	1697.5	1697.5	1698.1	1698.8	1698.8	1699.4	1700.1	1700.7	1700.7
5°	1693.1	1693.1	1693.1	1693.7	1693.7	1693.7	1693.7	1695.0	1695.0	1695.6	1696.2
7.5°	1686.7	1686.7	1686.7	1686.7	1686.0	1686.7	1686.0	1686.0	1687.3	1688.0	1688.6
10°	1676.5	1675.9	1675.9	1675.2	1675.2	1675.2	1675.9	1676.5	1677.1	1677.8	1679.7
12.5°	1660.6	1659.9	1659.9	1659.3	1659.3	1659.9	1660.6	1661.8	1664.4	1665.7	1668.2
15°	1635.1	1634.5	1635.1	1635.7	1637.0	1638.9	1640.8	1642.7	1646.6	1649.7	1652.9
17.5°	1598.1	1598.8	1599.4	1600.7	1602.6	1605.2	1610.2	1615.3	1619.8	1624.9	1630.0
20°	1547.2	1549.7	1550.4	1554.8	1556.1	1561.8	1567.6	1575.2	1582.2	1588.6	1595.6
22.5°	1486.0	1488.0	1490.5	1495.6	1498.8	1506.4	1513.4	1522.3	1530.0	1538.3	1548.5
25°	1416.6	1417.2	1424.9	1424.9	1432.5	1438.9	1447.2	1456.7	1468.2	1479.0	1486.0
27.5°	1337.6	1340.8	1346.5	1349.1	1354.8	1365.0	1372.0	1383.5	1395.0	1404.5	1412.2
30°	1254.8	1257.4	1266.9	1268.2	1272.7	1281.6	1291.1	1302.0	1310.9	1321.7	1328.7
32.5°	1167.6	1174.6	1180.3	1184.8	1186.0	1199.4	1204.5	1212.1	1222.3	1233.2	1240.2
35°	1082.8	1086.0	1094.3	1096.9	1100.7	1108.3	1118.5	1124.9	1130.0	1137.0	1145.3
37.5°	993.0	1002.6	1004.5	1012.1	1013.4	1020.4	1025.5	1033.2	1039.5	1045.9	1047.2
40°	909.6	912.8	919.8	921.7	923.0	932.5	938.9	940.8	944.0	949.7	957.4
42.5°	824.9	828.1	835.7	833.8	839.5	844.0	847.2	854.8	858.0	859.9	859.9
45°	741.4	742.7	747.8	750.3	753.5	756.1	761.8	765.6	766.9	772.6	774.5
47.5°	661.8	663.1	666.9	671.4	670.1	673.3	679.6	681.6	682.2	686.0	687.9
50°	583.5	586.6	591.7	590.5	594.3	596.2	601.9	603.2	603.2	603.8	604.5
52.5°	510.2	512.8	514.0	515.3	517.2	520.4	522.9	521.7	524.2	526.8	524.9
55°	437.6	439.5	442.7	444.0	444.0	444.6	443.3	449.1	446.5	445.9	446.5
57.5°	371.4	368.8	368.2	371.4	372.6	372.0	370.1	372.6	372.6	371.4	369.4
60°	307.0	305.1	304.5	305.1	302.6	300.6	301.9	300.6	297.5	296.2	296.8
62.5°	248.4	246.5	241.4	241.4	240.1	239.5	234.4	235.0	232.5	228.7	229.9
65°	194.3	189.2	186.6	186.0	181.5	177.7	176.4	172.0	168.2	167.5	168.2
67.5°	145.9	140.1	135.7	133.8	131.2	128.0	123.6	119.7	121.0	120.4	122.9
70°	101.3	97.5	93.0	89.8	91.1	87.3	84.7	84.7	85.4	86.0	87.3
72.5°	67.5	62.4	60.5	58.6	57.3	54.8	56.1	56.1	55.4	56.1	54.8
75°	38.2	35.7	33.8	33.1	31.8	31.8	31.8	31.8	31.2	30.6	30.6
77.5°	17.2	15.9	15.3	14.7	14.7	14.7	14.0	13.4	13.4	13.4	12.7
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
82.5°	2.5	2.5	3.2	3.2	3.2	2.5	3.2	3.2	2.5	2.5	3.2
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.6	0.6	0.6	0.0	0.6	0.6	0.6	0.6	0.0	0.6	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: P857952

CATALOG NUMBER: LX4C40D010 EX4C409040 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2	1696.2
2.5°	1701.3	1702.0	1702.0	1702.0	1702.6	1702.6	1702.6	1702.6
5°	1696.9	1697.5	1697.5	1697.5	1698.1	1698.1	1698.1	1698.1
7.5°	1689.2	1689.9	1689.9	1690.5	1690.5	1691.1	1691.1	1691.8
10°	1680.3	1681.6	1682.2	1682.9	1683.5	1684.1	1684.1	1684.8
12.5°	1670.8	1672.0	1672.7	1673.9	1675.2	1675.9	1676.5	1677.1
15°	1656.7	1659.3	1660.6	1661.2	1663.8	1665.0	1665.7	1666.3
17.5°	1634.5	1639.5	1641.5	1642.7	1645.3	1647.8	1649.7	1650.4
20°	1602.6	1608.3	1610.9	1614.1	1617.9	1621.1	1622.4	1623.6
22.5°	1558.0	1564.4	1568.2	1572.0	1575.2	1578.4	1583.5	1581.6
25°	1494.3	1505.1	1509.6	1511.5	1518.5	1522.3	1524.9	1522.3
27.5°	1423.0	1429.3	1433.2	1437.6	1442.7	1446.5	1447.8	1451.6
30°	1337.0	1347.8	1347.2	1351.6	1358.0	1361.8	1363.1	1366.3
32.5°	1247.8	1252.9	1256.7	1256.1	1258.6	1265.6	1263.1	1268.8
35°	1152.9	1153.5	1159.9	1159.3	1164.4	1164.4	1164.4	1168.2
37.5°	1051.6	1059.3	1056.1	1063.7	1061.2	1063.1	1063.1	1064.4
40°	959.3	961.8	961.8	964.4	966.3	964.4	965.6	968.8
42.5°	863.7	866.3	866.9	865.6	867.5	873.3	868.8	872.6
45°	774.5	776.5	779.0	777.1	780.3	778.4	780.3	779.0
47.5°	690.5	689.8	689.2	694.3	689.8	690.5	693.0	688.6
50°	604.5	608.3	605.8	607.7	608.9	608.9	607.0	607.0
52.5°	528.0	527.4	525.5	527.4	526.1	526.8	528.0	526.8
55°	449.1	451.6	450.3	449.7	450.3	450.3	454.2	449.1
57.5°	371.4	370.1	372.0	376.4	372.0	375.2	377.1	377.7
60°	297.5	297.5	301.3	299.4	303.2	306.4	308.9	307.7
62.5°	226.8	229.9	231.2	231.9	235.7	238.2	238.2	237.6
65°	168.2	172.6	172.6	175.2	176.4	176.4	177.7	180.3
67.5°	124.2	124.2	124.8	126.1	125.5	125.5	126.8	127.4
70°	86.6	85.4	87.3	86.6	86.6	86.0	86.6	86.6
72.5°	54.8	54.8	55.4	54.8	53.5	54.1	54.1	55.4
75°	29.3	30.6	29.3	29.3	29.9	28.7	29.3	29.9
77.5°	12.1	12.1	12.1	12.1	12.1	11.5	11.5	11.5
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.1	5.1
82.5°	2.5	3.2	2.5	3.2	2.5	2.5	2.5	2.5
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.0	0.6	0.0	0.6	0.0	0.0	0.0	0.6
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)