

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: P857953

Luminaire Tested: **LX4C40D010 EX4C409040 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C40D010 EX4C409040 4LBLWWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

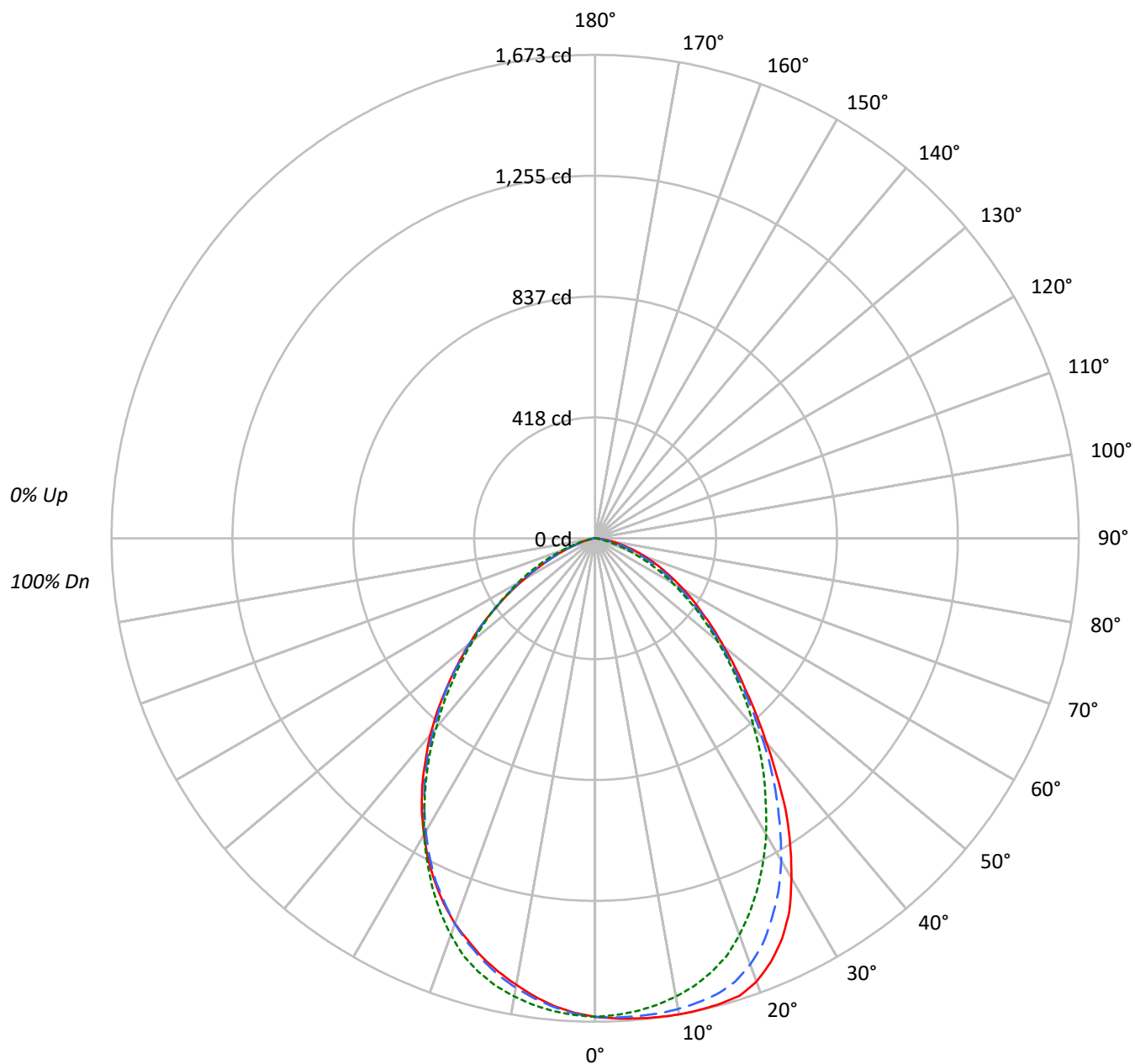
Lumens per Lamp: N/A
Luminaire Lumens: 3121.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			94
2	103	96	90	86	100	94	89	85		91	86	83			88	84	81			85
3	95	86	79	74	93	85	78	73		82	76	72			79	75	71			77
4	88	78	70	64	86	77	69	64		74	68	63			72	67	62			70
5	82	71	63	57	80	69	62	57		67	61	56			66	60	55			64
6	76	64	56	51	74	63	56	50		62	55	50			60	54	50			59
7	71	59	51	46	69	58	51	45		57	50	45			55	49	45			54
8	67	54	47	41	65	54	46	41		52	46	41			51	45	41			50
9	62	50	43	38	61	50	42	37		49	42	37			47	41	37			47
10	59	47	39	34	58	46	39	34		45	39	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	203458	203458	203458
5°	205727	202582	200387
10°	208742	200870	195793
15°	212174	197674	191112
20°	213508	190943	185452
25°	207397	180625	177860
30°	192730	167890	167975
35°	172518	153036	156290
40°	147704	137184	142187
45°	127161	120959	125493
50°	110547	105310	108464
55°	97263	90580	89766
60°	86538	75579	69633
65°	75930	60552	50378
70°	65195	42781	34088
75°	52926	24778	19936
80°	37850	10825	9905
85°	14378	4511	4511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.1	5.0
10°-20°	441.8	14.2
20°-30°	630.9	20.2
30°-40°	660.0	21.1
40°-50°	553.0	17.7
50°-60°	387.0	12.4
60°-70°	210.7	6.8
70°-80°	73.1	2.3
80°-90°	8.4	0.3
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°	1228.8	39.4
0°-40°	1888.7	60.5
0°-60°	2828.7	90.6
0°-90°	3121.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3121.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1656	1656	1656	1656	1656	
5°	1668	1660	1643	1629	1625	159
15°	1668	1633	1554	1510	1503	471
25°	1530	1448	1332	1306	1312	699
35°	1150	1094	1020	1028	1042	713
45°	732	715	696	719	722	569
55°	454	439	423	423	419	410
65°	261	238	208	175	173	260
75°	112	90	52	42	42	120
85°	10	6	3	3	3	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°	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1
2.5°	1663.7	1661.8	1662.4	1662.4	1662.4	1661.8	1662.4	1661.8	1661.8	1661.2	1659.9
5°	1668.2	1666.9	1666.9	1666.9	1666.3	1665.6	1665.6	1665.0	1663.7	1663.1	1660.5
7.5°	1671.4	1670.1	1670.1	1669.5	1668.8	1668.2	1667.5	1665.6	1663.7	1662.4	1659.3
10°	1673.3	1671.4	1671.4	1670.1	1668.8	1668.2	1666.9	1664.4	1661.8	1658.6	1654.2
12.5°	1672.0	1670.1	1669.5	1668.2	1665.6	1664.4	1663.1	1659.9	1655.4	1651.0	1645.3
15°	1668.2	1666.9	1665.6	1663.7	1660.5	1658.6	1657.4	1652.3	1646.5	1640.2	1633.1
17.5°	1660.5	1658.6	1656.1	1653.5	1649.1	1647.2	1644.0	1637.6	1629.3	1620.4	1609.6
20°	1633.1	1631.9	1629.3	1624.9	1617.9	1615.3	1610.9	1602.6	1591.7	1580.9	1569.5
22.5°	1587.9	1586.0	1582.2	1578.4	1572.0	1567.5	1563.7	1552.3	1540.2	1528.7	1517.9
25°	1530.0	1528.1	1523.0	1517.9	1511.5	1503.8	1500.0	1491.1	1479.0	1464.4	1448.4
27.5°	1455.4	1449.1	1447.2	1441.4	1431.9	1429.3	1423.6	1412.1	1400.7	1387.9	1374.5
30°	1358.6	1358.6	1354.8	1352.3	1343.3	1340.8	1334.4	1322.3	1315.9	1298.1	1287.9
32.5°	1256.1	1254.8	1251.6	1249.7	1244.6	1240.1	1233.8	1227.4	1213.4	1204.5	1190.5
35°	1150.3	1142.7	1144.0	1140.1	1137.0	1131.9	1131.2	1124.2	1111.5	1106.4	1093.6
37.5°	1030.0	1026.8	1031.2	1025.5	1022.3	1022.9	1017.9	1013.4	1008.3	999.4	996.8
40°	921.0	923.6	922.9	917.8	920.4	917.2	912.1	907.7	905.1	899.4	897.5
42.5°	823.6	819.8	818.5	818.5	819.1	819.1	816.6	813.4	813.4	807.7	801.9
45°	731.9	731.9	730.6	734.4	728.7	728.7	726.8	726.1	723.6	722.3	715.3
47.5°	652.9	652.2	651.6	651.0	650.3	650.3	646.5	643.3	642.7	638.9	635.0
50°	578.4	582.2	580.9	577.7	576.4	577.1	574.5	572.6	572.0	565.6	566.3
52.5°	515.9	515.3	516.6	514.7	511.5	512.1	509.6	507.0	504.5	501.3	498.7
55°	454.1	457.3	456.1	454.1	453.5	452.2	450.3	447.1	446.5	439.5	438.9
57.5°	402.6	401.9	400.6	397.5	396.8	394.9	394.9	392.4	388.5	384.7	381.5
60°	352.2	352.2	350.3	349.7	347.1	346.5	345.9	343.3	338.9	335.7	330.6
62.5°	303.8	305.1	303.8	301.9	300.0	297.5	296.2	294.3	290.5	287.3	282.8
65°	261.2	260.5	259.9	257.3	256.7	254.1	253.5	249.7	245.9	243.3	238.2
67.5°	220.4	218.5	218.5	217.2	215.9	214.0	212.7	208.9	204.5	201.9	196.8
70°	181.5	180.3	180.3	180.3	177.1	175.2	174.5	172.6	166.2	163.7	158.6
72.5°	145.9	145.2	144.6	142.7	140.8	140.8	138.2	134.4	131.2	128.0	124.2
75°	111.5	112.7	111.5	108.9	108.3	107.0	105.1	101.9	98.7	94.9	90.4
77.5°	81.5	80.3	79.0	79.0	77.7	75.2	74.5	72.0	68.2	65.6	61.1
80°	53.5	52.9	51.6	50.3	49.7	49.0	48.4	45.9	42.0	40.1	36.3
82.5°	29.3	28.7	28.7	28.0	26.1	26.1	25.5	22.9	21.0	19.7	17.8
85°	10.2	10.2	10.2	9.6	9.6	9.6	8.9	8.3	7.6	7.0	5.7
87.5°	1.3	0.6	1.3	0.6	1.3	0.6	0.6	0.6	0.6	0.6	0.6
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°	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1
2.5°	1658.6	1657.4	1656.7	1656.1	1655.4	1654.8	1654.2	1652.9	1652.3	1651.6	1650.3
5°	1658.6	1656.1	1654.8	1652.9	1651.6	1650.3	1648.4	1646.5	1644.6	1642.7	1640.8
7.5°	1656.1	1652.3	1649.7	1645.9	1644.6	1642.7	1638.9	1636.3	1633.1	1629.3	1624.9
10°	1649.7	1645.3	1640.2	1635.1	1633.1	1630.0	1624.9	1620.4	1615.3	1610.2	1605.8
12.5°	1639.5	1632.5	1626.1	1619.1	1615.3	1612.1	1605.1	1598.8	1592.4	1586.7	1579.0
15°	1624.2	1616.0	1607.7	1598.1	1593.7	1589.8	1579.6	1572.0	1561.8	1554.2	1546.5
17.5°	1599.4	1586.7	1576.5	1564.4	1558.0	1553.5	1544.6	1532.5	1523.0	1514.7	1505.8
20°	1556.7	1544.6	1530.6	1517.2	1510.2	1504.5	1491.7	1479.0	1469.5	1460.5	1451.0
22.5°	1500.7	1485.4	1475.2	1458.6	1452.9	1445.9	1430.6	1419.1	1408.3	1399.4	1390.5
25°	1432.5	1419.1	1405.1	1389.8	1382.8	1374.5	1361.8	1349.7	1342.7	1332.5	1321.7
27.5°	1354.2	1343.3	1326.1	1312.8	1305.8	1299.4	1287.3	1276.5	1266.3	1259.3	1249.1
30°	1271.4	1258.6	1243.3	1229.3	1225.5	1217.9	1207.0	1198.7	1187.9	1183.5	1179.0
32.5°	1180.3	1165.6	1154.2	1145.2	1137.6	1131.2	1125.5	1112.1	1110.2	1098.7	1097.5
35°	1080.9	1074.5	1063.7	1056.1	1049.7	1045.2	1035.7	1029.3	1022.3	1020.4	1015.9
37.5°	987.3	979.6	969.4	962.4	958.0	957.3	950.3	946.5	941.4	938.9	933.8
40°	889.2	886.0	877.1	875.8	868.8	868.2	864.3	859.9	855.4	855.4	856.1
42.5°	798.7	794.9	791.1	786.6	782.8	782.8	780.9	779.6	778.4	776.4	779.6
45°	714.0	708.9	706.4	701.9	703.8	700.0	698.7	698.7	696.8	696.2	700.6
47.5°	635.0	629.3	626.8	625.5	625.5	626.1	620.4	622.3	621.7	622.9	624.9
50°	563.1	558.0	554.1	554.1	554.8	552.2	549.7	551.6	549.7	551.0	555.4
52.5°	496.2	491.1	489.2	489.2	485.4	484.7	486.0	483.4	484.1	484.7	487.3
55°	434.4	431.2	428.0	424.8	425.5	424.2	421.7	421.0	422.3	422.9	426.1
57.5°	379.0	374.5	370.1	368.8	367.5	367.5	364.3	363.7	365.0	361.8	361.8
60°	326.1	323.6	317.8	315.9	315.9	312.7	310.2	311.5	308.3	307.6	308.3
62.5°	277.1	275.2	271.3	267.5	266.2	265.0	261.8	260.5	259.2	256.7	252.9
65°	234.4	229.9	225.5	222.9	221.0	217.8	215.9	213.4	209.6	208.3	204.5
67.5°	191.7	187.3	182.8	180.9	179.0	177.1	173.9	170.7	166.2	161.1	156.7
70°	154.1	148.4	145.9	140.8	139.5	136.9	132.5	129.3	124.8	119.1	114.7
72.5°	117.8	114.0	110.2	105.7	102.5	100.6	96.8	91.7	86.6	83.4	79.0
75°	84.7	82.8	77.7	72.6	71.3	68.8	64.3	61.1	57.3	52.2	48.4
77.5°	57.3	53.5	50.3	45.9	44.6	42.0	39.5	36.3	33.8	30.6	28.0
80°	33.8	30.6	28.7	25.5	24.2	22.9	21.0	18.5	16.6	15.3	14.6
82.5°	16.6	14.0	13.4	11.5	10.8	10.2	8.9	8.3	7.0	7.0	7.0
85°	5.7	4.5	4.5	3.8	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	0.6
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°	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1
2.5°	1649.7	1649.1	1648.4	1647.8	1647.8	1647.2	1647.2	1646.5	1646.5	1645.9	1645.9
5°	1638.2	1636.3	1635.1	1633.8	1633.8	1631.9	1630.6	1629.3	1628.7	1628.7	1627.4
7.5°	1622.3	1619.8	1617.2	1615.3	1614.7	1611.5	1608.9	1608.9	1606.4	1605.1	1603.8
10°	1601.3	1596.8	1593.0	1591.1	1588.6	1586.7	1583.5	1581.6	1579.6	1576.5	1575.8
12.5°	1572.6	1569.5	1563.7	1561.2	1559.9	1556.1	1551.0	1548.4	1547.8	1545.2	1543.3
15°	1540.2	1533.1	1528.1	1524.9	1524.9	1518.5	1515.9	1512.1	1509.6	1507.7	1507.0
17.5°	1498.1	1491.1	1486.0	1481.6	1480.3	1475.2	1471.4	1470.1	1466.9	1468.2	1465.0
20°	1444.0	1438.2	1434.4	1428.7	1428.7	1425.5	1424.2	1421.0	1419.8	1418.5	1419.8
22.5°	1386.0	1379.0	1372.6	1372.0	1372.0	1367.5	1366.9	1366.3	1363.7	1365.6	1365.0
25°	1317.9	1312.8	1308.9	1308.3	1308.3	1305.8	1303.2	1304.5	1306.4	1305.8	1307.7
27.5°	1247.2	1242.1	1240.8	1240.1	1238.9	1238.2	1239.5	1239.5	1241.4	1244.0	1246.5
30°	1170.7	1169.4	1167.5	1166.9	1165.6	1168.8	1170.1	1172.0	1171.4	1175.2	1177.7
32.5°	1094.3	1091.7	1091.1	1092.4	1094.3	1093.6	1097.5	1098.7	1100.0	1104.5	1106.4
35°	1017.2	1016.6	1015.3	1015.3	1015.9	1021.0	1021.0	1025.5	1028.0	1029.3	1034.4
37.5°	934.4	937.0	938.2	940.1	940.8	942.7	944.0	948.4	951.0	953.5	956.1
40°	858.6	857.3	863.1	859.3	860.5	866.3	868.8	868.2	872.0	875.8	878.4
42.5°	777.7	779.6	780.9	782.2	785.4	786.0	789.2	793.6	794.9	799.4	800.7
45°	699.4	700.0	702.6	705.1	707.0	712.1	713.4	715.3	719.1	719.1	721.0
47.5°	625.5	628.0	628.0	631.9	635.0	634.4	638.9	640.1	639.5	642.7	644.0
50°	554.8	558.6	558.0	560.5	561.8	562.4	566.3	567.5	565.0	568.2	568.8
52.5°	487.3	489.2	491.7	492.4	491.1	494.3	493.0	495.5	494.9	497.5	494.9
55°	425.5	424.8	424.8	426.1	424.8	426.1	427.4	424.8	422.9	425.5	424.8
57.5°	363.7	363.7	362.4	364.3	362.4	360.5	359.9	358.0	356.1	356.1	355.4
60°	305.7	304.5	301.9	301.3	301.3	298.1	296.8	294.3	294.3	291.7	289.2
62.5°	251.6	248.4	246.5	246.5	245.2	242.0	236.3	232.5	231.2	227.4	226.8
65°	200.6	197.5	195.5	191.7	188.5	187.3	181.5	177.1	175.2	171.3	172.0
67.5°	154.1	149.0	143.3	140.8	138.9	134.4	132.5	129.3	127.4	127.4	127.4
70°	110.8	106.4	100.6	98.7	97.5	93.6	91.7	91.1	93.0	92.4	93.0
72.5°	74.5	70.1	67.5	66.2	65.0	63.1	64.3	65.0	63.7	64.3	65.0
75°	45.2	43.9	42.0	41.4	41.4	42.0	41.4	41.4	42.0	42.0	42.7
77.5°	26.1	24.8	24.8	24.2	25.5	24.8	24.8	24.8	25.5	25.5	25.5
80°	14.0	14.0	14.0	14.0	14.6	14.0	14.6	14.6	14.6	14.6	14.6
82.5°	7.0	7.0	7.0	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.0
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	0.6	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.6
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: P857953

CATALOG NUMBER: LX4C40D010 EX4C409040 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1	1656.1
2.5°	1644.6	1644.6	1644.6	1643.3	1644.0	1644.0	1643.3	1643.3
5°	1626.8	1626.1	1624.9	1624.9	1623.6	1624.9	1624.2	1624.9
7.5°	1602.6	1602.6	1600.7	1600.7	1600.0	1599.4	1598.8	1599.4
10°	1573.9	1573.9	1572.6	1572.0	1572.6	1570.1	1570.1	1569.5
12.5°	1542.1	1540.8	1539.5	1540.2	1539.5	1537.6	1537.0	1537.6
15°	1505.1	1503.2	1503.8	1501.9	1501.9	1501.3	1502.6	1502.6
17.5°	1464.4	1463.1	1461.8	1462.4	1461.2	1461.8	1461.2	1460.5
20°	1419.1	1418.5	1418.5	1415.9	1416.6	1415.9	1416.6	1418.5
22.5°	1366.9	1366.3	1366.9	1365.0	1366.3	1366.3	1368.2	1368.2
25°	1309.6	1308.9	1310.2	1310.8	1311.5	1313.4	1311.5	1312.1
27.5°	1245.9	1247.8	1249.7	1250.3	1252.9	1251.0	1249.7	1251.6
30°	1181.5	1181.5	1180.9	1183.5	1185.4	1187.3	1184.1	1184.1
32.5°	1107.7	1110.8	1110.8	1111.5	1113.4	1113.4	1113.4	1115.9
35°	1037.0	1038.9	1039.5	1037.0	1038.2	1037.6	1042.1	1042.1
37.5°	958.0	958.0	958.6	963.1	963.1	961.2	962.4	962.4
40°	882.8	883.5	880.9	882.2	885.4	884.1	885.4	886.6
42.5°	800.7	805.1	802.6	803.8	803.2	803.8	804.5	804.5
45°	722.3	723.6	723.6	724.2	725.5	726.8	722.9	722.3
47.5°	645.9	646.5	648.4	645.2	649.1	645.2	649.1	644.6
50°	568.8	571.3	569.4	570.7	568.8	568.8	568.2	567.5
52.5°	495.5	494.9	494.9	494.3	494.3	495.5	494.3	496.2
55°	422.3	422.9	421.7	421.0	420.4	422.3	420.4	419.1
57.5°	352.9	354.1	351.6	352.9	348.4	350.3	351.0	351.6
60°	288.5	286.6	286.6	284.1	284.1	286.0	283.4	283.4
62.5°	223.6	224.8	222.9	225.5	225.5	228.0	226.8	228.0
65°	171.3	172.0	172.6	172.6	172.6	176.4	175.2	173.3
67.5°	129.3	129.9	130.6	129.9	131.8	130.6	130.6	131.2
70°	93.6	94.3	94.9	94.9	94.3	94.9	94.9	94.9
72.5°	65.0	65.6	65.0	65.6	66.2	65.6	65.6	66.2
75°	42.7	42.7	42.0	42.0	42.0	42.0	42.7	42.0
77.5°	24.8	25.5	24.8	25.5	25.5	25.5	25.5	25.5
80°	14.6	14.6	14.6	14.0	14.6	14.6	14.6	14.0
82.5°	7.6	7.6	7.0	7.0	7.6	7.6	7.6	7.6
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	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)