

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: P857932

Luminaire Tested: **LX4C40D010 EX4C409035 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857932
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 EX4C409035 4LBLWWH
Description: 4 INCH 4000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

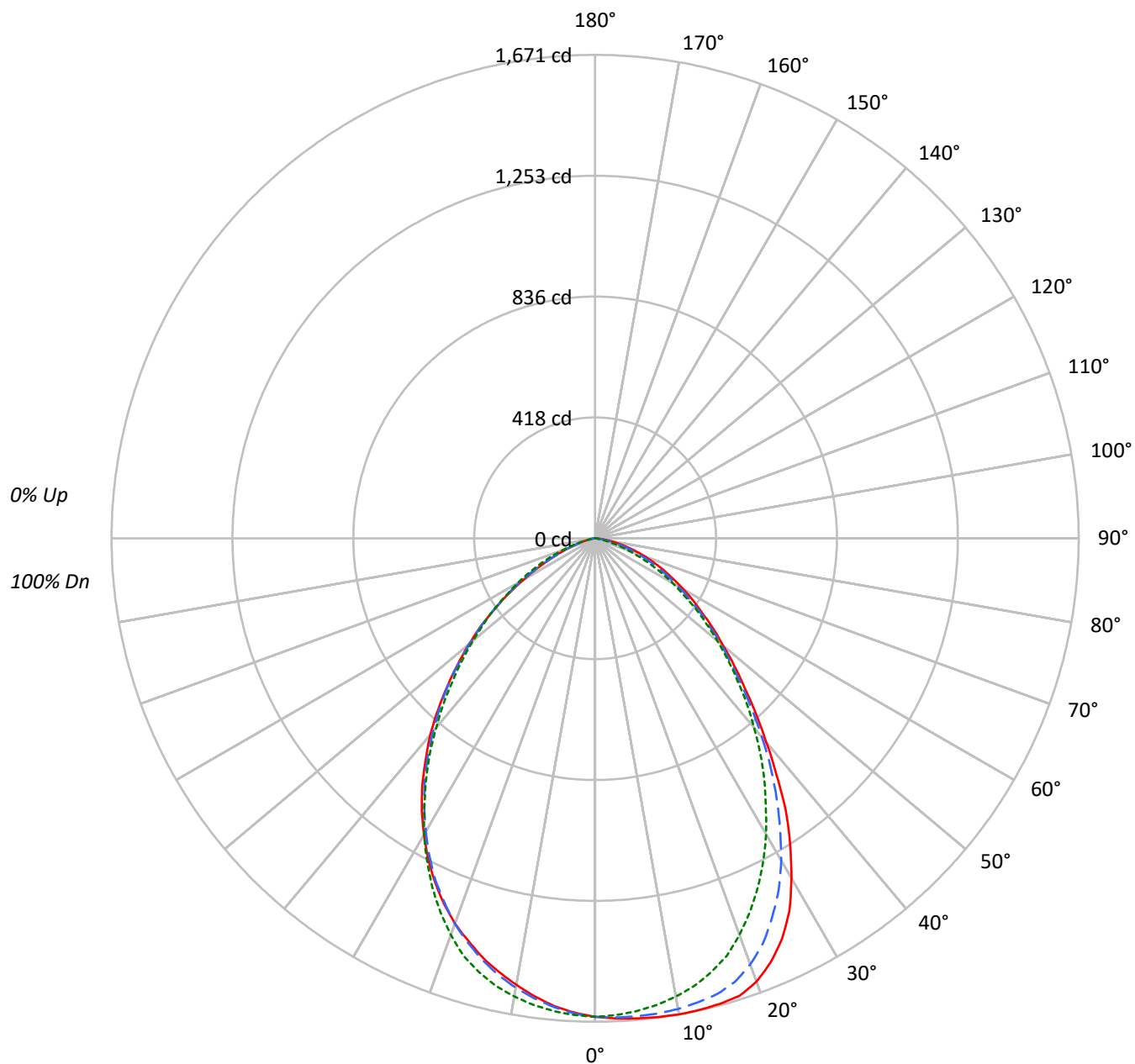
Lumens per Lamp: N/A
Luminaire Lumens: 3117.0 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68		
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60		
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39		
9	62	50	43	38	61	50	42	37	49	42	37	47	41	37	47	41	37	35		
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	203200	203200	203200
5°	205456	202323	200128
10°	208468	200621	195531
15°	211894	197420	190857
20°	213247	190707	185216
25°	207126	180395	177630
30°	192488	167663	167762
35°	172308	152841	156080
40°	147528	137007	142011
45°	126987	120802	125337
50°	110394	105177	108330
55°	97156	90473	89659
60°	86440	75506	69560
65°	75814	60465	50290
70°	65123	42745	34052
75°	52831	24778	19936
80°	37780	10825	9905
85°	14378	4511	4511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	5.0
10°-20°	441.2	14.2
20°-30°	630.1	20.2
30°-40°	659.1	21.1
40°-50°	552.3	17.7
50°-60°	386.5	12.4
60°-70°	210.5	6.8
70°-80°	73.0	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°	1227.2	39.4
0°-40°	1886.3	60.5
0°-60°	2825.1	90.6
0°-90°	3117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3117.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1654	1654	1654	1654	1654	
5°	1666	1658	1641	1627	1623	159
15°	1666	1631	1552	1508	1501	470
25°	1528	1447	1331	1305	1310	698
35°	1149	1092	1019	1027	1041	712
45°	731	714	695	718	721	568
55°	454	438	422	422	419	410
65°	261	238	208	175	173	260
75°	111	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°	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0
2.5°	1661.6	1659.7	1660.3	1660.3	1660.3	1659.7	1660.3	1659.7	1659.7	1659.0	1657.8
5°	1666.0	1664.8	1664.8	1664.8	1664.1	1663.5	1663.5	1662.9	1661.6	1661.0	1658.4
7.5°	1669.2	1668.0	1668.0	1667.3	1666.7	1666.0	1665.4	1663.5	1661.6	1660.3	1657.1
10°	1671.1	1669.2	1669.2	1668.0	1666.7	1666.0	1664.8	1662.2	1659.7	1656.5	1652.0
12.5°	1669.9	1668.0	1667.3	1666.0	1663.5	1662.2	1661.0	1657.8	1653.3	1648.9	1643.1
15°	1666.0	1664.8	1663.5	1661.6	1658.4	1656.5	1655.2	1650.1	1644.4	1638.1	1631.1
17.5°	1658.4	1656.5	1654.0	1651.4	1647.0	1645.1	1641.9	1635.5	1627.2	1618.3	1607.5
20°	1631.1	1629.8	1627.2	1622.8	1615.8	1613.2	1608.8	1600.5	1589.7	1578.9	1567.4
22.5°	1585.9	1584.0	1580.2	1576.3	1570.0	1565.5	1561.7	1550.3	1538.2	1526.7	1515.9
25°	1528.0	1526.1	1521.0	1515.9	1509.6	1501.9	1498.1	1489.2	1477.1	1462.5	1446.6
27.5°	1453.6	1447.2	1445.3	1439.6	1430.0	1427.5	1421.8	1410.3	1398.9	1386.1	1372.8
30°	1356.9	1356.9	1353.1	1350.5	1341.6	1339.1	1332.7	1320.6	1314.3	1296.4	1286.3
32.5°	1254.5	1253.2	1250.0	1248.1	1243.0	1238.6	1232.2	1225.8	1211.8	1202.9	1188.9
35°	1148.9	1141.2	1142.5	1138.7	1135.5	1130.4	1129.8	1122.8	1110.1	1105.0	1092.2
37.5°	1028.6	1025.5	1029.9	1024.2	1021.0	1021.6	1016.5	1012.1	1007.0	998.1	995.6
40°	919.9	922.4	921.8	916.7	919.2	916.0	910.9	906.5	904.0	898.2	896.3
42.5°	822.5	818.7	817.4	817.4	818.1	818.1	815.5	812.3	812.3	806.6	800.9
45°	730.9	730.9	729.6	733.5	727.7	727.7	725.8	725.2	722.7	721.4	714.4
47.5°	652.0	651.4	650.8	650.1	649.5	649.5	645.7	642.5	641.9	638.0	634.2
50°	577.6	581.4	580.2	577.0	575.7	576.3	573.8	571.9	571.3	564.9	565.5
52.5°	515.3	514.6	515.9	514.0	510.8	511.5	508.9	506.4	503.8	500.6	498.1
55°	453.6	456.7	455.5	453.6	452.9	451.7	449.7	446.6	445.9	438.9	438.3
57.5°	402.0	401.4	400.1	396.9	396.3	394.4	394.4	391.9	388.0	384.2	381.0
60°	351.8	351.8	349.9	349.2	346.7	346.1	345.4	342.9	338.4	335.2	330.2
62.5°	303.4	304.7	303.4	301.5	299.6	297.1	295.8	293.9	290.1	286.9	282.4
65°	260.8	260.2	259.5	257.0	256.4	253.8	253.2	249.4	245.5	243.0	237.9
67.5°	220.1	218.2	218.2	216.9	215.7	213.7	212.5	208.7	204.2	201.7	196.6
70°	181.3	180.0	180.0	180.0	176.8	174.9	174.3	172.4	166.0	163.5	158.4
72.5°	145.7	145.0	144.4	142.5	140.6	140.6	138.0	134.2	131.0	127.9	124.0
75°	111.3	112.6	111.3	108.8	108.1	106.9	105.0	101.8	98.6	94.8	90.3
77.5°	81.4	80.2	78.9	78.9	77.6	75.1	74.4	71.9	68.1	65.5	61.1
80°	53.4	52.8	51.5	50.3	49.6	49.0	48.3	45.8	42.0	40.1	36.3
82.5°	29.3	28.6	28.6	28.0	26.1	26.1	25.4	22.9	21.0	19.7	17.8
85°	10.2	10.2	10.2	9.5	9.5	9.5	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°	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0
2.5°	1656.5	1655.2	1654.6	1654.0	1653.3	1652.7	1652.0	1650.8	1650.1	1649.5	1648.2
5°	1656.5	1654.0	1652.7	1650.8	1649.5	1648.2	1646.3	1644.4	1642.5	1640.6	1638.7
7.5°	1654.0	1650.1	1647.6	1643.8	1642.5	1640.6	1636.8	1634.2	1631.1	1627.2	1622.8
10°	1647.6	1643.1	1638.1	1633.0	1631.1	1627.9	1622.8	1618.3	1613.2	1608.2	1603.7
12.5°	1637.4	1630.4	1624.1	1617.1	1613.2	1610.1	1603.1	1596.7	1590.3	1584.6	1577.0
15°	1622.1	1613.9	1605.6	1596.1	1591.6	1587.8	1577.6	1570.0	1559.8	1552.2	1544.5
17.5°	1597.3	1584.6	1574.4	1562.4	1556.0	1551.5	1542.6	1530.5	1521.0	1512.7	1503.8
20°	1554.7	1542.6	1528.6	1515.3	1508.3	1502.6	1489.8	1477.1	1467.6	1458.7	1449.1
22.5°	1498.7	1483.5	1473.3	1456.8	1451.0	1444.0	1428.8	1417.3	1406.5	1397.6	1388.7
25°	1430.7	1417.3	1403.3	1388.1	1381.1	1372.8	1360.1	1348.0	1341.0	1330.8	1320.0
27.5°	1352.4	1341.6	1324.4	1311.1	1304.1	1297.7	1285.6	1274.8	1264.6	1257.6	1247.5
30°	1269.7	1257.0	1241.7	1227.7	1223.9	1216.3	1205.5	1197.2	1186.4	1181.9	1177.5
32.5°	1178.8	1164.1	1152.7	1143.8	1136.1	1129.8	1124.1	1110.7	1108.8	1097.3	1096.1
35°	1079.5	1073.2	1062.3	1054.7	1048.4	1043.9	1034.4	1028.0	1021.0	1019.1	1014.6
37.5°	986.0	978.4	968.2	961.2	956.8	956.1	949.1	945.3	940.2	937.7	932.6
40°	888.0	884.9	876.0	874.7	867.7	867.1	863.2	858.8	854.3	854.3	855.0
42.5°	797.7	793.9	790.1	785.6	781.8	781.8	779.9	778.6	777.4	775.5	778.6
45°	713.1	708.0	705.5	701.0	702.9	699.1	697.8	697.8	695.9	695.3	699.8
47.5°	634.2	628.5	626.0	624.7	624.7	625.3	619.6	621.5	620.9	622.1	624.1
50°	562.3	557.3	553.4	553.4	554.1	551.5	549.0	550.9	549.0	550.3	554.7
52.5°	495.6	490.5	488.6	488.6	484.7	484.1	485.4	482.8	483.5	484.1	486.6
55°	433.8	430.7	427.5	424.3	424.9	423.7	421.1	420.5	421.8	422.4	425.6
57.5°	378.5	374.0	369.6	368.3	367.1	367.1	363.9	363.2	364.5	361.3	361.3
60°	325.7	323.2	317.4	315.5	315.5	312.3	309.8	311.1	307.9	307.3	307.9
62.5°	276.7	274.8	271.0	267.2	265.9	264.6	261.5	260.2	258.9	256.4	252.5
65°	234.1	229.6	225.2	222.6	220.7	217.6	215.7	213.1	209.3	208.0	204.2
67.5°	191.5	187.0	182.6	180.7	178.8	176.8	173.7	170.5	166.0	160.9	156.5
70°	153.9	148.2	145.7	140.6	139.3	136.8	132.3	129.1	124.7	119.0	114.5
72.5°	117.7	113.9	110.1	105.6	102.4	100.5	96.7	91.6	86.5	83.3	78.9
75°	84.6	82.7	77.6	72.5	71.2	68.7	64.2	61.1	57.3	52.2	48.3
77.5°	57.3	53.4	50.3	45.8	44.5	42.0	39.4	36.3	33.7	30.5	28.0
80°	33.7	30.5	28.6	25.4	24.2	22.9	21.0	18.4	16.5	15.3	14.6
82.5°	16.5	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°	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0
2.5°	1647.6	1647.0	1646.3	1645.7	1645.7	1645.1	1645.1	1644.4	1644.4	1643.8	1643.8
5°	1636.1	1634.2	1633.0	1631.7	1631.7	1629.8	1628.5	1627.2	1626.6	1626.6	1625.3
7.5°	1620.2	1617.7	1615.2	1613.2	1612.6	1609.4	1606.9	1606.9	1604.3	1603.1	1601.8
10°	1599.2	1594.8	1591.0	1589.1	1586.5	1584.6	1581.4	1579.5	1577.6	1574.4	1573.8
12.5°	1570.6	1567.4	1561.7	1559.2	1557.9	1554.1	1549.0	1546.4	1545.8	1543.3	1541.4
15°	1538.2	1531.2	1526.1	1522.9	1522.9	1516.6	1514.0	1510.2	1507.6	1505.7	1505.1
17.5°	1496.2	1489.2	1484.1	1479.7	1478.4	1473.3	1469.5	1468.2	1465.0	1466.3	1463.1
20°	1442.1	1436.4	1432.6	1426.9	1426.9	1423.7	1422.4	1419.2	1417.9	1416.7	1417.9
22.5°	1384.2	1377.2	1370.9	1370.2	1370.2	1365.8	1365.1	1364.5	1362.0	1363.9	1363.2
25°	1316.2	1311.1	1307.3	1306.6	1306.6	1304.1	1301.5	1302.8	1304.7	1304.1	1306.0
27.5°	1245.6	1240.5	1239.2	1238.6	1237.3	1236.7	1237.9	1237.9	1239.8	1242.4	1244.9
30°	1169.2	1167.9	1166.0	1165.4	1164.1	1167.3	1168.6	1170.5	1169.9	1173.7	1176.2
32.5°	1092.9	1090.3	1089.7	1091.0	1092.9	1092.2	1096.1	1097.3	1098.6	1103.1	1105.0
35°	1015.9	1015.3	1014.0	1014.0	1014.6	1019.7	1019.7	1024.2	1026.7	1028.0	1033.1
37.5°	933.2	935.8	937.0	938.9	939.6	941.5	942.8	947.2	949.8	952.3	954.8
40°	857.5	856.2	862.0	858.1	859.4	865.1	867.7	867.1	870.9	874.7	877.2
42.5°	776.7	778.6	779.9	781.2	784.4	785.0	788.2	792.6	793.9	798.4	799.6
45°	698.5	699.1	701.7	704.2	706.1	711.2	712.5	714.4	718.2	718.2	720.1
47.5°	624.7	627.2	627.2	631.0	634.2	633.6	638.0	639.3	638.7	641.9	643.1
50°	554.1	557.9	557.3	559.8	561.1	561.7	565.5	566.8	564.3	567.4	568.1
52.5°	486.6	488.6	491.1	491.7	490.5	493.6	492.4	494.9	494.3	496.8	494.3
55°	424.9	424.3	424.3	425.6	424.3	425.6	426.8	424.3	422.4	424.9	424.3
57.5°	363.2	363.2	362.0	363.9	362.0	360.1	359.4	357.5	355.6	355.6	355.0
60°	305.3	304.1	301.5	300.9	300.9	297.7	296.4	293.9	293.9	291.4	288.8
62.5°	251.3	248.1	246.2	246.2	244.9	241.7	236.0	232.2	230.9	227.1	226.5
65°	200.4	197.2	195.3	191.5	188.3	187.0	181.3	176.8	174.9	171.1	171.8
67.5°	153.9	148.9	143.1	140.6	138.7	134.2	132.3	129.1	127.2	127.2	127.2
70°	110.7	106.2	100.5	98.6	97.3	93.5	91.6	91.0	92.9	92.2	92.9
72.5°	74.4	70.0	67.4	66.2	64.9	63.0	64.2	64.9	63.6	64.2	64.9
75°	45.2	43.9	42.0	41.3	41.3	42.0	41.3	41.3	42.0	42.0	42.6
77.5°	26.1	24.8	24.8	24.2	25.4	24.8	24.8	24.8	25.4	25.4	25.4
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: P857932

CATALOG NUMBER: LX4C40D010 EX4C409035 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0	1654.0
2.5°	1642.5	1642.5	1642.5	1641.2	1641.9	1641.9	1641.2	1641.2
5°	1624.7	1624.1	1622.8	1622.8	1621.5	1622.8	1622.1	1622.8
7.5°	1600.5	1600.5	1598.6	1598.6	1598.0	1597.3	1596.7	1597.3
10°	1571.9	1571.9	1570.6	1570.0	1570.6	1568.1	1568.1	1567.4
12.5°	1540.1	1538.8	1537.5	1538.2	1537.5	1535.6	1535.0	1535.6
15°	1503.2	1501.3	1501.9	1500.0	1500.0	1499.4	1500.6	1500.6
17.5°	1462.5	1461.2	1459.9	1460.6	1459.3	1459.9	1459.3	1458.7
20°	1417.3	1416.7	1416.7	1414.1	1414.8	1414.1	1414.8	1416.7
22.5°	1365.1	1364.5	1365.1	1363.2	1364.5	1364.5	1366.4	1366.4
25°	1307.9	1307.3	1308.5	1309.2	1309.8	1311.7	1309.8	1310.4
27.5°	1244.3	1246.2	1248.1	1248.7	1251.3	1249.4	1248.1	1250.0
30°	1180.0	1180.0	1179.4	1181.9	1183.9	1185.8	1182.6	1182.6
32.5°	1106.2	1109.4	1109.4	1110.1	1112.0	1112.0	1112.0	1114.5
35°	1035.6	1037.5	1038.2	1035.6	1036.9	1036.3	1040.7	1040.7
37.5°	956.8	956.8	957.4	961.8	961.8	959.9	961.2	961.2
40°	881.7	882.3	879.8	881.0	884.2	883.0	884.2	885.5
42.5°	799.6	804.1	801.5	802.8	802.2	802.8	803.4	803.4
45°	721.4	722.7	722.7	723.3	724.6	725.8	722.0	721.4
47.5°	645.0	645.7	647.6	644.4	648.2	644.4	648.2	643.8
50°	568.1	570.6	568.7	570.0	568.1	568.1	567.4	566.8
52.5°	494.9	494.3	494.3	493.6	493.6	494.9	493.6	495.6
55°	421.8	422.4	421.1	420.5	419.9	421.8	419.9	418.6
57.5°	352.4	353.7	351.1	352.4	348.0	349.9	350.5	351.1
60°	288.2	286.3	286.3	283.7	283.7	285.6	283.1	283.1
62.5°	223.3	224.6	222.6	225.2	225.2	227.7	226.5	227.7
65°	171.1	171.8	172.4	172.4	172.4	176.2	174.9	173.0
67.5°	129.1	129.8	130.4	129.8	131.7	130.4	130.4	131.0
70°	93.5	94.1	94.8	94.8	94.1	94.8	94.8	94.8
72.5°	64.9	65.5	64.9	65.5	66.2	65.5	65.5	66.2
75°	42.6	42.6	42.0	42.0	42.0	42.0	42.6	42.0
77.5°	24.8	25.4	24.8	25.4	25.4	25.4	25.4	25.4
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)