

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: P857865

Luminaire Tested: **LX4C35D010 EX4C359840 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857865
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: LX4C35D010 EX4C359840 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

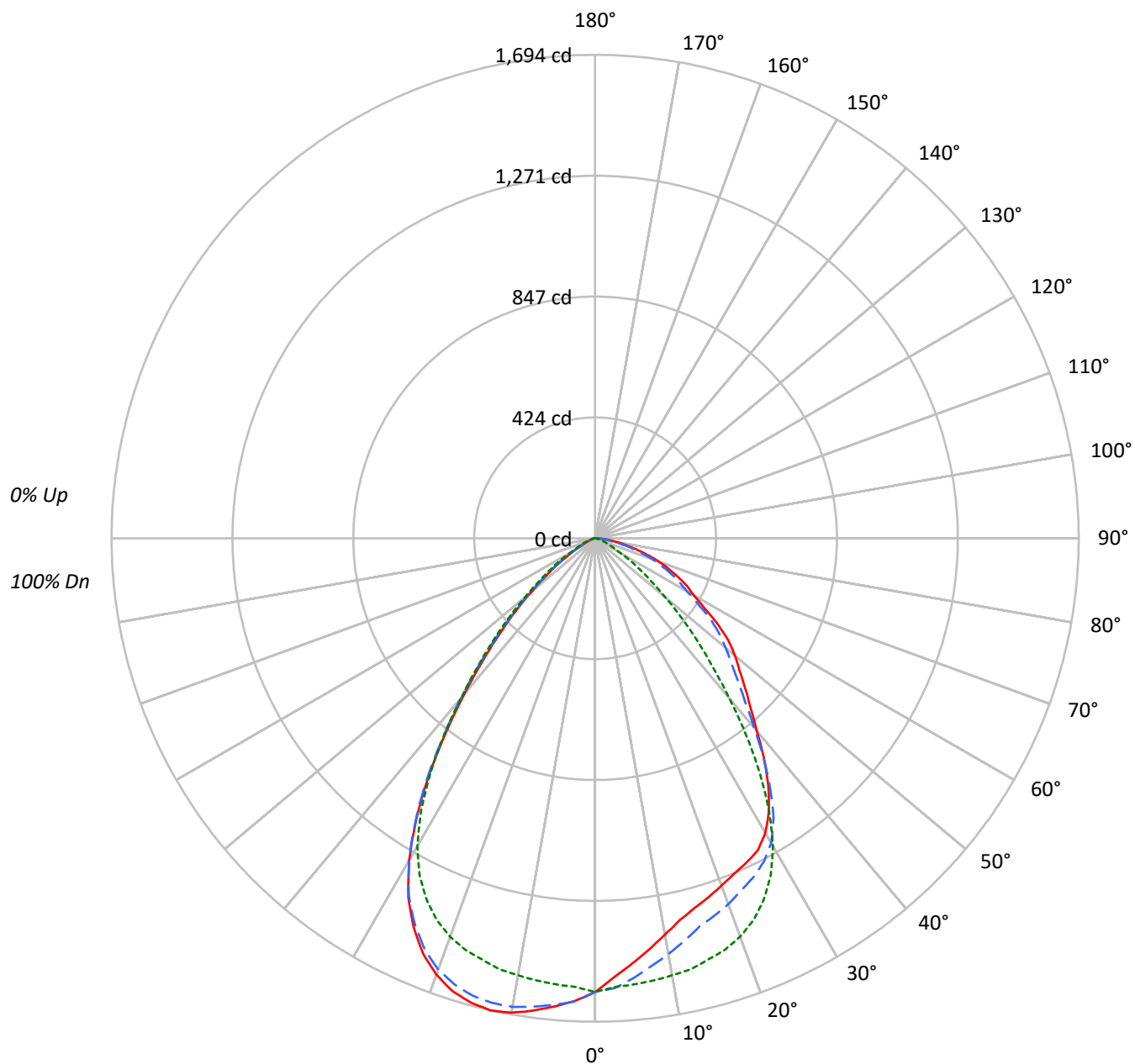
Lumens per Lamp: N/A
Luminaire Lumens: 2786.7 lumens
Efficiency: N/A
Efficacy: 69.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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°	195312	195312	195312
5°	184429	193530	203125
10°	175833	193972	210588
15°	170673	194393	214183
20°	169266	194185	212658
25°	169957	189396	203832
30°	169138	176700	184828
35°	158540	150876	152391
40°	141273	116977	114330
45°	129194	87218	81867
50°	122168	61084	55197
55°	112342	41253	34677
60°	98135	24153	19116
65°	92906	15465	10698
70°	84627	11063	6645
75°	70014	7785	4889
80°	55042	4386	2901
85°	49195	2960	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.2	5.4
10°-20°	430.9	15.5
20°-30°	638.8	22.9
30°-40°	639.7	23.0
40°-50°	447.1	16.0
50°-60°	266.0	9.5
60°-70°	138.8	5.0
70°-80°	61.7	2.2
80°-90°	13.5	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°	1219.9	43.8
0°-40°	1859.6	66.7
0°-60°	2572.7	92.3
0°-90°	2786.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2786.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1590	1590	1590	1590	1590	
5°	1496	1547	1569	1641	1647	140
15°	1342	1410	1528	1659	1684	380
25°	1254	1311	1397	1494	1504	578
35°	1057	1069	1006	1024	1016	655
45°	744	707	502	486	471	577
55°	524	492	193	168	162	465
65°	320	293	53	39	37	316
75°	148	129	16	10	10	159
85°	35	27	2	2	0	39
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°	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8
2.5°	1538.5	1557.0	1538.5	1544.7	1569.3	1546.7	1559.0	1559.0	1552.9	1567.2	1577.5
5°	1495.5	1514.0	1495.5	1503.7	1530.3	1507.8	1522.1	1518.0	1520.2	1532.5	1546.7
7.5°	1452.6	1466.8	1450.4	1460.7	1485.3	1466.8	1479.1	1479.1	1481.2	1499.6	1511.9
10°	1409.5	1421.8	1409.5	1417.7	1444.4	1427.9	1436.2	1438.1	1444.4	1460.7	1479.1
12.5°	1370.5	1380.8	1368.6	1380.8	1403.3	1386.9	1397.2	1399.2	1405.4	1423.8	1444.4
15°	1341.9	1352.1	1339.8	1350.0	1370.5	1358.2	1366.4	1370.5	1374.6	1391.0	1409.5
17.5°	1319.3	1327.5	1317.3	1329.6	1346.0	1331.6	1343.9	1343.9	1350.0	1366.4	1386.9
20°	1294.7	1302.9	1294.7	1305.0	1323.4	1311.2	1321.4	1321.4	1327.5	1346.0	1364.5
22.5°	1272.2	1276.4	1272.2	1280.5	1298.8	1288.7	1294.7	1296.8	1302.9	1319.3	1335.7
25°	1253.8	1262.0	1257.9	1266.0	1278.3	1268.1	1274.2	1276.4	1282.4	1296.8	1311.2
27.5°	1233.3	1237.4	1233.3	1243.5	1253.8	1245.6	1251.7	1249.7	1253.8	1266.0	1278.3
30°	1192.3	1196.5	1196.5	1202.5	1210.8	1206.7	1212.8	1206.7	1210.8	1221.0	1233.3
32.5°	1132.9	1135.0	1137.0	1143.2	1149.3	1143.2	1147.3	1147.3	1147.3	1155.4	1163.6
35°	1057.1	1061.2	1059.2	1063.3	1069.4	1067.3	1067.3	1065.3	1061.2	1065.3	1069.4
37.5°	971.1	964.9	964.9	971.1	975.2	967.0	971.1	967.0	967.0	969.0	969.0
40°	880.9	874.8	880.9	883.0	885.0	880.9	878.9	874.8	868.6	870.7	866.6
42.5°	805.2	801.0	803.1	803.1	805.2	801.0	803.1	794.9	788.7	784.6	778.5
45°	743.6	737.6	743.6	739.5	739.5	737.6	735.4	731.3	723.2	717.0	706.8
47.5°	686.3	686.3	688.3	688.3	688.3	684.2	684.2	676.0	667.8	659.6	645.4
50°	639.2	635.1	643.3	643.3	637.1	635.1	637.1	626.9	620.7	610.5	596.1
52.5°	587.9	587.9	590.0	590.0	587.9	583.8	586.0	577.8	571.5	561.4	547.0
55°	524.5	520.4	526.5	526.5	524.5	522.4	524.5	518.3	512.2	504.0	491.6
57.5°	452.7	450.7	454.8	456.8	452.7	452.7	454.8	448.6	446.6	438.4	426.1
60°	399.4	397.4	401.6	403.6	399.4	399.4	399.4	391.3	387.2	379.0	370.8
62.5°	362.6	360.6	364.6	362.6	360.6	358.5	360.6	352.4	348.3	340.1	331.9
65°	319.6	321.7	323.7	323.7	321.7	319.6	319.6	315.5	311.4	303.3	292.9
67.5°	278.6	278.6	280.6	282.7	280.6	280.6	280.6	274.5	270.4	264.3	252.0
70°	235.6	233.5	239.7	239.7	235.6	237.6	235.6	233.5	229.4	221.2	211.1
72.5°	190.5	190.5	192.6	192.6	190.5	190.5	190.5	188.5	182.3	178.2	168.0
75°	147.5	147.5	149.5	151.6	147.5	147.5	149.5	145.4	141.3	135.3	129.0
77.5°	110.7	108.6	110.7	110.7	108.6	108.6	108.6	106.6	104.5	98.3	92.2
80°	77.8	75.8	77.8	77.8	77.8	75.8	75.8	73.7	73.7	69.6	63.5
82.5°	53.2	51.3	53.2	53.2	53.2	51.3	51.3	51.3	49.1	47.2	43.1
85°	34.9	32.7	32.7	34.9	32.7	32.7	32.7	32.7	30.8	28.7	26.7
87.5°	16.4	16.4	16.4	16.4	16.4	16.4	16.4	14.4	14.4	14.4	12.3
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°	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8
2.5°	1569.3	1565.2	1577.5	1573.4	1575.4	1565.2	1581.6	1573.4	1583.6	1573.4	1593.9
5°	1542.6	1538.5	1557.0	1554.9	1557.0	1548.8	1567.2	1565.2	1577.5	1569.3	1591.8
7.5°	1514.0	1509.9	1530.3	1532.5	1536.6	1528.4	1552.9	1552.9	1565.2	1563.1	1587.7
10°	1481.2	1483.2	1503.7	1507.8	1516.1	1511.9	1534.4	1540.7	1557.0	1554.9	1585.7
12.5°	1450.4	1450.4	1477.1	1485.3	1491.3	1489.4	1516.1	1524.3	1542.6	1546.7	1575.4
15°	1419.7	1421.8	1446.3	1458.6	1466.8	1464.8	1493.5	1503.7	1526.2	1528.4	1563.1
17.5°	1395.1	1393.1	1419.7	1430.0	1442.2	1440.3	1470.9	1483.2	1505.8	1511.9	1544.7
20°	1374.6	1372.7	1397.2	1409.5	1417.7	1415.6	1446.3	1460.7	1481.2	1485.3	1518.0
22.5°	1350.0	1346.0	1370.5	1380.8	1389.0	1386.9	1413.6	1423.8	1444.4	1448.5	1479.1
25°	1321.4	1317.3	1339.8	1346.0	1352.1	1348.0	1370.5	1376.7	1393.1	1397.2	1427.9
27.5°	1288.7	1278.3	1296.8	1296.8	1300.9	1294.7	1311.2	1317.3	1331.6	1331.6	1360.4
30°	1237.4	1223.1	1233.3	1231.3	1233.3	1225.1	1235.3	1237.4	1247.6	1245.6	1266.0
32.5°	1165.7	1145.2	1151.3	1145.2	1139.1	1126.8	1139.1	1135.0	1143.2	1135.0	1153.4
35°	1067.3	1046.9	1044.8	1036.6	1030.5	1020.2	1020.2	1010.0	1012.0	1006.0	1018.2
37.5°	960.8	934.2	930.1	913.8	903.4	891.2	891.2	883.0	872.7	868.6	878.9
40°	856.3	827.6	817.5	790.8	780.5	768.2	760.0	749.9	745.8	729.4	737.6
42.5°	766.2	735.4	712.9	684.2	674.0	655.5	643.3	631.0	624.8	606.4	614.6
45°	690.4	653.6	628.9	592.0	577.8	557.2	538.8	524.5	510.1	502.0	497.9
47.5°	626.9	587.9	555.2	514.2	491.6	473.2	448.6	434.3	415.9	405.7	399.4
50°	573.7	530.6	493.8	446.6	424.1	403.6	374.9	352.4	336.0	319.6	315.5
52.5°	526.5	481.5	440.5	387.2	360.6	336.0	305.2	280.6	266.3	247.9	245.9
55°	471.2	432.3	387.2	331.9	305.2	280.6	247.9	223.3	204.8	192.6	188.5
57.5°	411.8	374.9	331.9	276.6	250.0	223.3	192.6	170.1	153.6	143.4	141.3
60°	356.5	321.7	280.6	225.3	198.7	176.2	143.4	120.8	106.6	98.3	94.2
62.5°	315.5	282.7	243.8	192.6	168.0	145.4	114.8	94.2	82.0	73.7	69.6
65°	276.6	243.8	208.9	161.9	141.3	120.8	92.2	73.7	61.4	53.2	49.1
67.5°	235.6	207.0	174.1	135.3	114.8	98.3	73.7	57.3	47.2	40.9	36.8
70°	194.6	168.0	141.3	108.6	94.2	77.8	57.3	45.0	34.9	30.8	26.7
72.5°	153.6	133.1	110.7	84.0	71.7	61.4	45.0	32.7	26.7	22.6	18.5
75°	114.8	100.4	82.0	63.5	53.2	45.0	32.7	24.6	20.5	16.4	14.4
77.5°	82.0	69.6	57.3	43.1	39.0	32.7	22.6	18.5	14.4	10.3	8.2
80°	55.3	49.1	39.0	30.8	24.6	22.6	16.4	12.3	8.2	6.2	6.2
82.5°	36.8	30.8	24.6	18.5	16.4	14.4	10.3	8.2	6.2	4.1	4.1
85°	22.6	18.5	14.4	10.3	10.3	8.2	6.2	4.1	2.1	2.1	2.1
87.5°	10.3	8.2	6.2	4.1	4.1	2.1	2.1	2.1	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°	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8
2.5°	1610.2	1598.0	1589.8	1600.0	1604.1	1598.0	1604.1	1614.3	1624.7	1626.6	1598.0
5°	1612.4	1600.0	1595.9	1608.2	1610.2	1608.2	1614.3	1628.7	1641.0	1645.1	1616.5
7.5°	1612.4	1604.1	1602.0	1616.5	1618.4	1616.5	1626.6	1643.0	1655.3	1663.5	1634.8
10°	1608.2	1604.1	1606.1	1618.4	1622.5	1622.5	1636.9	1655.3	1667.6	1675.8	1647.1
12.5°	1602.0	1602.0	1602.0	1616.5	1620.6	1622.5	1634.8	1659.4	1667.6	1679.9	1651.2
15°	1591.8	1591.8	1591.8	1606.1	1612.4	1612.4	1626.6	1649.2	1659.4	1671.7	1643.0
17.5°	1573.4	1573.4	1575.4	1587.7	1593.9	1593.9	1608.2	1632.8	1638.9	1653.3	1624.7
20°	1546.7	1546.7	1548.8	1561.1	1567.2	1563.1	1581.6	1602.0	1608.2	1620.6	1591.8
22.5°	1507.8	1507.8	1507.8	1520.2	1524.3	1522.1	1540.7	1559.0	1559.0	1575.4	1544.7
25°	1450.4	1454.5	1450.4	1462.7	1466.8	1464.8	1481.2	1497.6	1493.5	1511.9	1481.2
27.5°	1380.8	1378.7	1378.7	1389.0	1389.0	1386.9	1399.2	1417.7	1413.6	1425.9	1397.2
30°	1284.6	1290.6	1280.5	1294.7	1288.7	1284.6	1292.7	1309.1	1302.9	1313.2	1290.6
32.5°	1173.9	1165.7	1165.7	1165.7	1169.8	1159.5	1167.7	1175.9	1169.8	1180.0	1155.4
35°	1028.4	1030.5	1024.3	1026.4	1028.4	1016.1	1024.3	1032.5	1024.3	1030.5	1007.9
37.5°	883.0	885.0	870.7	878.9	870.7	866.6	874.8	878.9	870.7	876.8	852.2
40°	737.6	733.5	731.3	731.3	733.5	723.2	729.4	735.4	729.4	733.5	710.9
42.5°	610.5	608.5	604.4	606.4	600.2	598.2	600.2	606.4	600.2	604.4	587.9
45°	499.8	495.7	489.7	491.6	491.6	481.5	487.5	491.6	485.6	487.5	473.2
47.5°	397.4	391.3	391.3	389.2	389.2	385.1	391.3	389.2	383.1	387.2	372.8
50°	309.3	305.2	305.2	305.2	305.2	299.1	301.1	305.2	299.1	299.1	290.9
52.5°	241.8	235.6	231.5	231.5	231.5	229.4	229.4	231.5	225.3	225.3	223.3
55°	182.3	180.3	174.1	174.1	174.1	168.0	170.1	170.1	168.0	168.0	161.9
57.5°	135.3	129.0	124.9	124.9	120.8	120.8	118.9	120.8	116.7	116.7	112.6
60°	90.1	86.1	84.0	82.0	82.0	79.9	82.0	79.9	79.9	77.8	75.8
62.5°	65.5	61.4	57.3	57.3	57.3	55.3	55.3	55.3	55.3	55.3	53.2
65°	47.2	43.1	43.1	40.9	40.9	39.0	39.0	39.0	39.0	39.0	36.8
67.5°	32.7	30.8	28.7	28.7	28.7	28.7	28.7	28.7	26.7	26.7	26.7
70°	24.6	22.6	20.5	20.5	20.5	20.5	20.5	18.5	20.5	20.5	18.5
72.5°	16.4	16.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
75°	12.3	12.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
77.5°	8.2	8.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
80°	6.2	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	4.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	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: P857865

CATALOG NUMBER: LX4C35D010 EX4C359840 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8	1589.8
2.5°	1628.7	1626.6	1622.5	1628.7	1612.4	1606.1	1604.1	1622.5
5°	1651.2	1647.1	1647.1	1653.3	1634.8	1630.7	1626.6	1647.1
7.5°	1671.7	1667.6	1667.6	1673.8	1657.4	1653.3	1649.2	1669.7
10°	1684.0	1684.0	1684.0	1688.1	1673.8	1669.7	1667.6	1688.1
12.5°	1690.1	1690.1	1688.1	1696.3	1677.9	1677.9	1673.8	1694.2
15°	1682.0	1682.0	1682.0	1688.1	1671.7	1667.6	1667.6	1684.0
17.5°	1661.5	1661.5	1659.4	1665.6	1647.1	1647.1	1645.1	1663.5
20°	1630.7	1630.7	1626.6	1634.8	1616.5	1610.2	1608.2	1626.6
22.5°	1581.6	1579.5	1577.5	1581.6	1565.2	1561.1	1559.0	1575.4
25°	1518.0	1516.1	1511.9	1516.1	1497.6	1491.3	1491.3	1503.7
27.5°	1427.9	1427.9	1421.8	1427.9	1407.3	1405.4	1403.3	1417.7
30°	1317.3	1309.1	1305.0	1313.2	1292.7	1292.7	1288.7	1302.9
32.5°	1180.0	1171.8	1169.8	1173.9	1155.4	1149.3	1157.5	1165.7
35°	1022.3	1024.3	1016.1	1016.1	999.7	1001.8	1003.8	1016.1
37.5°	870.7	866.6	864.5	866.6	854.3	850.2	846.1	858.4
40°	729.4	719.1	717.0	717.0	706.8	704.7	706.8	712.9
42.5°	596.1	594.1	586.0	590.0	579.7	583.8	581.9	581.9
45°	481.5	483.4	475.3	481.5	473.2	467.1	467.1	471.2
47.5°	381.0	381.0	379.0	379.0	372.8	374.9	370.8	376.9
50°	295.0	295.0	290.9	292.9	288.8	288.8	286.8	288.8
52.5°	225.3	223.3	223.3	221.2	217.1	219.3	221.2	217.1
55°	163.9	166.0	161.9	163.9	159.8	161.9	159.8	161.9
57.5°	112.6	114.8	110.7	114.8	110.7	112.6	110.7	110.7
60°	77.8	77.8	75.8	77.8	75.8	75.8	73.7	77.8
62.5°	53.2	53.2	53.2	53.2	53.2	51.3	53.2	53.2
65°	39.0	36.8	36.8	36.8	36.8	36.8	36.8	36.8
67.5°	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7
70°	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
72.5°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
75°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
77.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
85°	2.1	2.1	2.1	0.0	2.1	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)