

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: P684925

Luminaire Tested: **LX6C25D010 EX6259035 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C25D010 EX6259035 6LCSWLI
Description: 6 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

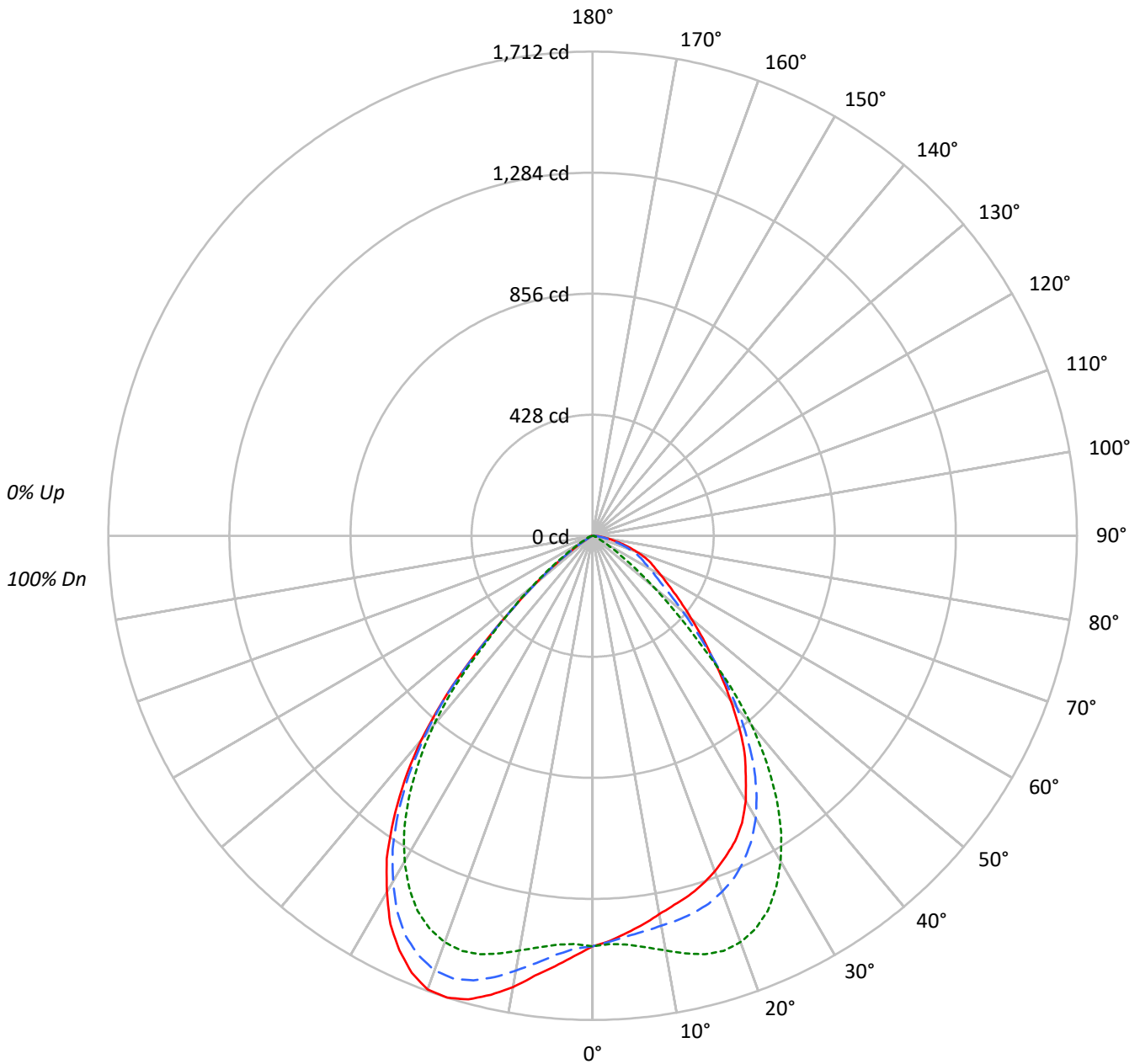
Lumens per Lamp: N/A
Luminaire Lumens: 2653.0 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V):
Input Current (A_{in}): 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	79566	79566	79566
5°	77504	79870	84069
10°	75617	82881	90218
15°	74734	86941	96312
20°	73664	89205	99566
25°	72095	88547	97778
30°	68511	84146	92052
35°	62680	75864	82182
40°	54216	62653	67419
45°	45718	41097	44105
50°	38813	23786	22370
55°	33681	11402	8621
60°	30425	5329	2127
65°	29510	3061	713
70°	26463	2452	673
75°	21753	1758	297
80°	16195	884	0
85°	13964	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	5.3
10°-20°	427.3	16.1
20°-30°	652.8	24.6
30°-40°	682.8	25.7
40°-50°	442.9	16.7
50°-60°	175.9	6.6
60°-70°	83.4	3.1
70°-80°	39.7	1.5
80°-90°	8.1	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°	1220.3	46.0
0°-40°	1903.0	71.7
0°-60°	2521.8	95.1
0°-90°	2653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2653.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1451	1451	1451	1451	1451	
5°	1408	1421	1451	1488	1528	133
15°	1317	1381	1532	1628	1697	371
25°	1192	1267	1464	1562	1616	546
35°	937	994	1134	1200	1228	579
45°	590	584	530	562	569	459
55°	352	300	119	93	90	319
65°	228	189	24	6	6	222
75°	103	83	8	3	1	111
85°	22	14	0	0	0	26
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°	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4
2.5°	1433.4	1436.1	1420.9	1416.7	1427.8	1432.0	1433.4	1429.2	1430.6	1436.1	1436.1
5°	1408.4	1411.1	1397.3	1393.1	1404.2	1407.0	1411.1	1409.8	1414.0	1422.3	1420.9
7.5°	1384.8	1389.0	1373.7	1368.2	1382.0	1389.0	1391.7	1391.7	1397.3	1408.4	1409.8
10°	1358.4	1364.0	1350.1	1347.3	1362.6	1369.5	1370.9	1373.7	1382.0	1397.3	1400.0
12.5°	1336.3	1341.8	1332.1	1327.9	1344.5	1351.5	1354.2	1359.8	1369.5	1389.0	1391.7
15°	1316.8	1321.0	1309.9	1307.1	1323.7	1332.1	1333.4	1341.8	1354.2	1376.5	1380.6
17.5°	1291.8	1294.6	1286.3	1283.5	1300.2	1308.5	1309.9	1319.6	1334.8	1357.1	1364.0
20°	1262.7	1265.5	1257.1	1254.4	1271.0	1280.7	1282.1	1290.5	1308.5	1332.1	1339.0
22.5°	1228.0	1233.6	1223.9	1221.0	1237.7	1246.0	1250.2	1257.1	1275.2	1298.8	1308.5
25°	1191.9	1191.9	1185.0	1183.6	1198.9	1208.6	1207.2	1216.9	1234.9	1258.5	1266.8
27.5°	1144.7	1143.3	1136.4	1135.0	1151.7	1160.0	1157.2	1167.0	1183.6	1207.2	1215.5
30°	1082.3	1085.1	1075.4	1072.6	1086.5	1100.4	1099.0	1108.7	1125.3	1147.5	1153.1
32.5°	1007.4	1010.1	1008.8	1004.6	1017.1	1024.0	1028.2	1035.1	1049.0	1072.6	1078.1
35°	936.6	932.4	926.9	926.9	939.4	950.5	946.3	954.7	968.5	992.1	993.5
37.5°	849.2	847.8	845.0	842.3	856.1	858.9	860.3	865.8	878.4	897.8	895.0
40°	757.6	759.0	757.6	752.0	760.4	771.5	770.1	772.9	784.0	797.8	793.7
42.5°	671.6	671.6	671.6	666.0	675.7	681.3	684.1	682.7	685.4	698.0	692.4
45°	589.7	591.1	589.7	588.3	589.7	592.5	589.7	588.3	588.3	592.5	584.2
47.5°	519.0	519.0	514.8	510.6	514.8	516.2	512.0	507.9	506.5	505.1	491.2
50°	455.1	453.7	452.4	445.4	449.6	451.0	445.4	442.6	437.1	430.2	413.5
52.5°	399.6	398.2	396.8	389.9	392.7	394.1	388.5	383.0	376.0	370.5	349.7
55°	352.4	351.0	351.0	346.9	344.1	346.9	341.3	337.2	327.5	320.5	299.7
57.5°	312.2	312.2	309.4	305.2	306.7	306.7	301.1	295.5	287.2	278.9	262.3
60°	277.5	277.5	277.5	273.3	273.3	273.3	270.6	265.0	258.1	249.8	233.1
62.5°	249.8	249.8	248.4	244.2	245.6	245.6	242.8	237.3	230.4	224.8	208.1
65°	227.5	227.5	227.5	223.4	223.4	224.8	222.0	216.5	210.9	204.0	188.7
67.5°	199.8	198.4	198.4	195.6	197.0	198.4	195.6	191.5	184.6	180.4	166.5
70°	165.1	166.5	167.9	163.8	165.1	165.1	163.8	159.6	155.4	151.2	138.8
72.5°	134.6	134.6	133.2	131.8	131.8	133.2	130.4	126.3	123.5	120.7	111.0
75°	102.7	101.3	102.7	99.9	99.9	99.9	97.1	95.8	94.3	90.2	83.2
77.5°	74.9	73.5	73.5	70.8	72.2	72.2	70.8	68.0	65.2	63.8	58.3
80°	51.3	51.3	51.3	50.0	50.0	48.6	48.6	47.2	44.4	43.0	40.3
82.5°	34.7	34.7	34.7	33.3	33.3	33.3	31.9	30.5	29.2	27.7	25.0
85°	22.2	22.2	22.2	20.8	20.8	20.8	19.4	19.4	18.0	16.6	13.9
87.5°	12.5	12.5	12.5	11.1	11.1	11.1	11.1	11.1	9.7	8.3	6.9
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°	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4
2.5°	1445.8	1426.4	1438.9	1438.9	1434.8	1445.8	1452.8	1458.3	1456.9	1444.5	1443.1
5°	1434.8	1418.1	1432.0	1433.4	1429.2	1444.5	1454.2	1461.1	1462.5	1451.4	1452.8
7.5°	1426.4	1412.6	1430.6	1436.1	1434.8	1448.6	1459.7	1470.8	1476.4	1468.0	1469.4
10°	1422.3	1411.1	1430.6	1438.9	1440.3	1455.6	1472.2	1487.5	1494.4	1488.9	1493.0
12.5°	1416.7	1409.8	1432.0	1444.5	1450.0	1465.3	1486.1	1504.1	1515.2	1512.5	1520.8
15°	1411.1	1405.6	1432.0	1450.0	1456.9	1470.8	1494.4	1520.8	1533.3	1531.9	1543.0
17.5°	1397.3	1395.9	1423.7	1443.1	1452.8	1469.4	1491.6	1523.5	1536.0	1538.8	1552.7
20°	1375.1	1375.1	1405.6	1426.4	1437.5	1452.8	1480.6	1511.1	1526.3	1529.1	1544.4
22.5°	1344.5	1347.3	1376.5	1397.3	1414.0	1425.0	1454.2	1486.1	1500.0	1504.1	1520.8
25°	1304.3	1307.1	1334.8	1355.7	1373.7	1386.2	1414.0	1443.1	1459.7	1463.9	1476.4
27.5°	1251.6	1257.1	1283.5	1304.3	1319.6	1327.9	1357.1	1387.6	1400.0	1404.2	1416.7
30°	1190.5	1191.9	1218.3	1236.3	1251.6	1258.5	1283.5	1315.4	1325.1	1329.3	1347.3
32.5°	1115.6	1114.2	1139.2	1155.9	1168.3	1176.7	1203.0	1223.9	1233.6	1240.5	1250.2
35°	1025.4	1024.0	1042.1	1061.5	1071.2	1074.0	1100.4	1122.5	1128.1	1133.6	1146.2
37.5°	924.1	924.1	939.4	949.1	960.2	964.4	976.9	1001.8	1011.6	1010.1	1019.8
40°	817.3	811.8	822.8	832.6	835.3	836.7	849.2	868.6	875.5	875.5	882.5
42.5°	704.9	696.5	698.0	703.5	706.2	696.5	704.9	717.4	713.2	718.8	720.2
45°	585.6	573.1	567.5	555.0	557.8	548.1	542.5	545.3	544.0	530.1	532.8
47.5°	488.4	466.2	456.5	438.5	434.3	423.2	416.3	403.8	392.7	392.7	385.7
50°	406.6	384.4	364.9	344.1	337.2	327.5	312.2	295.5	287.2	278.9	272.0
52.5°	341.3	317.8	294.1	272.0	262.3	249.8	228.9	212.3	197.0	188.7	180.4
55°	288.6	262.3	237.3	213.7	201.2	188.7	167.9	148.5	130.4	119.3	112.4
57.5°	248.4	223.4	197.0	172.1	160.9	147.1	124.9	104.0	87.4	74.9	68.0
60°	219.2	194.3	170.7	144.3	133.2	119.3	95.8	76.3	59.7	48.6	40.3
62.5°	194.3	172.1	147.1	123.5	112.4	98.5	76.3	56.9	41.6	30.5	23.6
65°	176.2	154.0	133.2	109.6	99.9	86.1	65.2	47.2	33.3	23.6	16.6
67.5°	155.4	136.0	115.2	95.8	86.1	74.9	55.5	40.3	27.7	19.4	13.9
70°	130.4	115.2	97.1	79.1	72.2	62.4	45.8	33.3	22.2	15.3	11.1
72.5°	104.0	91.6	77.7	63.8	58.3	48.6	37.4	26.4	16.6	11.1	8.3
75°	79.1	69.4	58.3	48.6	43.0	37.4	27.7	19.4	12.5	8.3	5.5
77.5°	54.1	50.0	41.6	33.3	30.5	26.4	18.0	12.5	8.3	5.5	2.8
80°	37.4	33.3	27.7	22.2	19.4	16.6	11.1	8.3	4.2	2.8	1.4
82.5°	23.6	19.4	16.6	13.9	12.5	9.7	6.9	4.2	2.8	1.4	1.4
85°	12.5	11.1	9.7	6.9	6.9	5.5	4.2	2.8	1.4	0.0	0.0
87.5°	6.9	5.5	4.2	2.8	2.8	1.4	1.4	1.4	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°	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4
2.5°	1459.7	1459.7	1458.3	1475.0	1455.6	1475.0	1465.3	1475.0	1461.1	1459.7	1461.1
5°	1470.8	1475.0	1476.4	1491.6	1473.6	1497.2	1488.9	1497.2	1487.5	1490.3	1494.4
7.5°	1493.0	1500.0	1498.6	1518.0	1500.0	1526.3	1520.8	1533.3	1523.5	1526.3	1531.9
10°	1518.0	1526.3	1527.7	1547.2	1530.5	1562.4	1555.4	1569.3	1561.0	1565.2	1572.1
12.5°	1547.2	1556.9	1558.3	1580.4	1562.4	1595.7	1591.5	1605.4	1598.5	1602.6	1611.0
15°	1569.3	1583.2	1586.0	1608.2	1588.8	1623.5	1620.7	1638.7	1627.6	1634.6	1641.5
17.5°	1580.4	1592.9	1598.5	1619.3	1602.6	1637.3	1634.6	1649.8	1641.5	1648.4	1656.8
20°	1573.5	1588.8	1592.9	1613.8	1597.1	1631.8	1627.6	1642.9	1634.6	1640.1	1648.4
22.5°	1548.5	1563.8	1569.3	1588.8	1573.5	1605.4	1604.1	1617.9	1606.8	1613.8	1620.7
25°	1504.1	1520.8	1523.5	1541.6	1524.9	1558.3	1555.4	1570.7	1562.4	1566.6	1576.3
27.5°	1440.3	1459.7	1463.9	1479.1	1466.7	1494.4	1494.4	1506.9	1497.2	1497.2	1506.9
30°	1364.0	1383.4	1386.2	1398.7	1387.6	1412.6	1414.0	1426.4	1411.1	1419.5	1420.9
32.5°	1271.0	1283.5	1291.8	1302.9	1286.3	1318.2	1314.0	1323.7	1315.4	1315.4	1322.4
35°	1158.6	1173.9	1178.1	1191.9	1178.1	1203.0	1203.0	1208.6	1200.2	1200.2	1211.3
37.5°	1036.5	1047.6	1049.0	1062.9	1051.8	1072.6	1071.2	1075.4	1067.0	1072.6	1072.6
40°	893.6	901.9	904.7	911.6	910.3	925.5	924.1	926.9	922.7	924.1	926.9
42.5°	727.1	738.2	743.7	749.3	741.0	761.8	757.6	761.8	760.4	761.8	766.0
45°	535.6	544.0	548.1	549.5	546.7	559.2	568.9	560.6	561.9	559.2	564.8
47.5°	387.1	388.5	385.7	394.1	387.1	392.7	395.5	396.8	388.5	387.1	392.7
50°	265.0	272.0	262.3	266.4	265.0	270.6	267.8	269.2	260.9	265.0	262.3
52.5°	176.2	174.8	172.1	173.5	170.7	170.7	170.7	173.5	167.9	165.1	162.4
55°	106.9	104.0	98.5	97.1	97.1	98.5	95.8	93.0	93.0	91.6	91.6
57.5°	62.4	58.3	55.5	54.1	51.3	50.0	48.6	48.6	45.8	45.8	45.8
60°	34.7	30.5	27.7	25.0	25.0	23.6	22.2	20.8	20.8	20.8	19.4
62.5°	18.0	15.3	12.5	11.1	11.1	9.7	8.3	8.3	8.3	8.3	6.9
65°	12.5	9.7	8.3	6.9	6.9	5.5	5.5	5.5	5.5	5.5	5.5
67.5°	9.7	8.3	6.9	5.5	5.5	5.5	4.2	4.2	4.2	4.2	4.2
70°	8.3	5.5	5.5	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
72.5°	5.5	5.5	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
75°	4.2	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
80°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P684925

CATALOG NUMBER: LX6C25D010 EX6259035 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4	1451.4
2.5°	1473.6	1472.2	1473.6	1476.4	1470.8	1487.5	1479.1	1487.5
5°	1505.5	1506.9	1508.3	1512.5	1505.5	1526.3	1515.2	1527.7
7.5°	1547.2	1548.5	1549.9	1554.1	1549.9	1570.7	1558.3	1569.3
10°	1590.2	1592.9	1592.9	1599.9	1595.7	1615.1	1606.8	1620.7
12.5°	1630.4	1633.2	1636.0	1640.1	1637.3	1658.1	1651.2	1662.3
15°	1662.3	1667.8	1669.2	1674.8	1672.0	1694.2	1685.9	1697.0
17.5°	1677.6	1683.1	1683.1	1690.1	1687.3	1710.9	1699.8	1712.3
20°	1669.2	1673.4	1674.8	1681.8	1678.9	1702.6	1691.5	1706.7
22.5°	1642.9	1644.3	1645.7	1652.6	1651.2	1672.0	1662.3	1672.0
25°	1594.3	1598.5	1597.1	1602.6	1602.6	1619.3	1608.2	1616.5
27.5°	1524.9	1529.1	1529.1	1536.0	1530.5	1547.2	1536.0	1548.5
30°	1440.3	1444.5	1441.7	1447.2	1441.7	1458.3	1450.0	1454.2
32.5°	1339.0	1339.0	1340.4	1341.8	1339.0	1354.2	1346.0	1354.2
35°	1218.3	1221.0	1222.5	1223.9	1221.0	1232.2	1222.5	1228.0
37.5°	1082.3	1089.3	1087.8	1089.3	1085.1	1099.0	1090.6	1093.4
40°	936.6	936.6	935.2	938.0	933.8	945.0	939.4	942.1
42.5°	767.3	771.5	766.0	772.9	761.8	777.0	771.5	767.3
45°	575.9	570.3	568.9	570.3	566.1	567.5	571.7	568.9
47.5°	392.7	392.7	389.9	385.7	391.3	392.7	387.1	387.1
50°	263.6	263.6	260.9	259.5	262.3	260.9	258.1	262.3
52.5°	167.9	162.4	162.4	165.1	162.4	159.6	163.8	160.9
55°	91.6	88.8	88.8	91.6	88.8	88.8	87.4	90.2
57.5°	44.4	45.8	44.4	44.4	44.4	44.4	43.0	44.4
60°	19.4	19.4	19.4	19.4	19.4	19.4	19.4	19.4
62.5°	8.3	8.3	6.9	6.9	6.9	6.9	6.9	6.9
65°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
67.5°	4.2	4.2	4.2	4.2	4.2	5.5	4.2	4.2
70°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
72.5°	4.2	4.2	5.5	5.5	5.5	5.5	5.5	5.5
75°	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	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)