

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: P684915

Luminaire Tested: **LX6C25D010 EX6259027 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684915
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 EX6259027 6LCSWLI
Description: 6 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

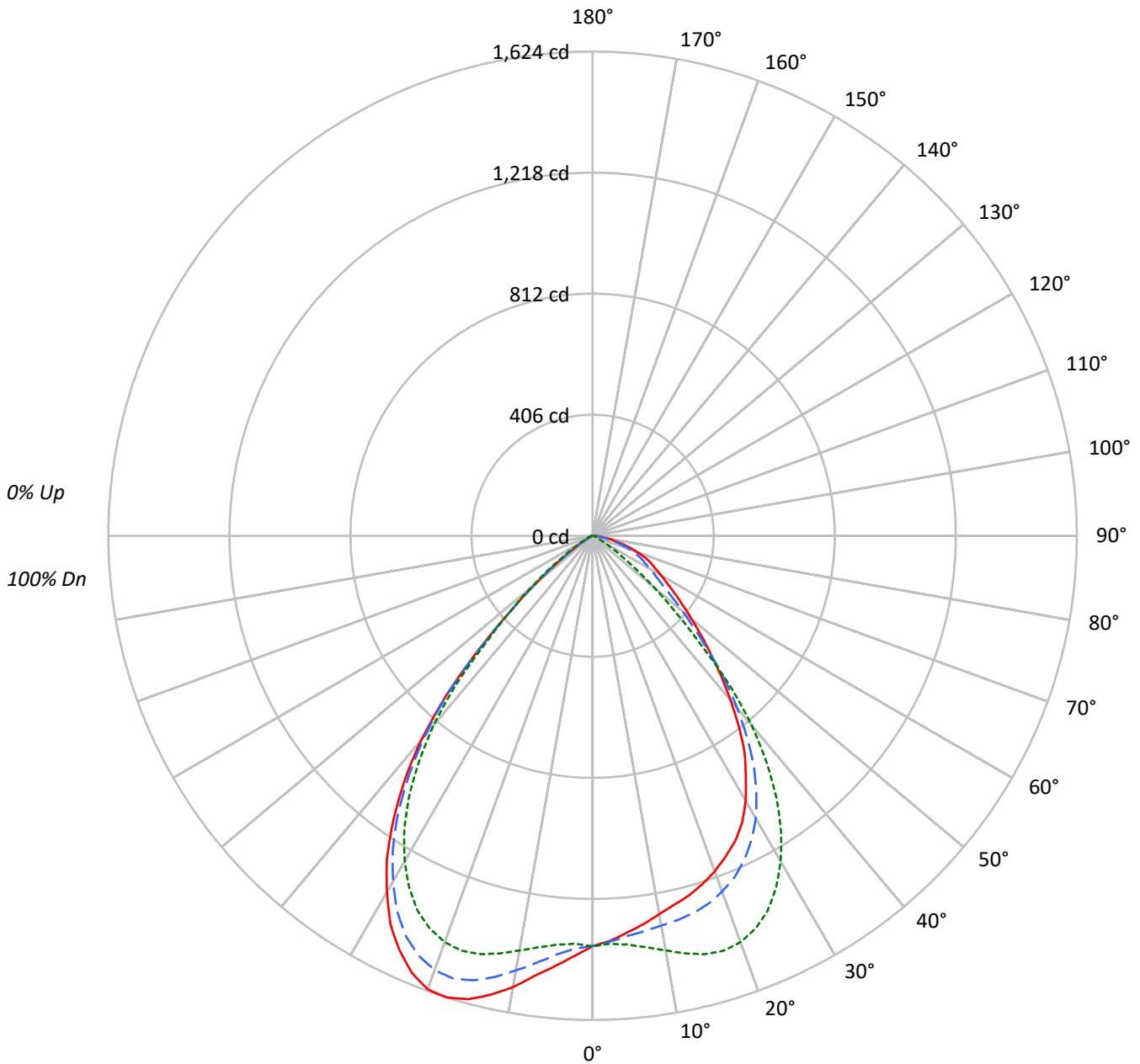
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2516.0 lumens
Efficiency: N/A
Efficacy: 79.9 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					20					
RC	80					70					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°	75460	75460	75460
5°	73503	75748	79727
10°	71714	78600	85558
15°	70874	82452	91340
20°	69860	84597	94427
25°	68375	83975	92727
30°	64972	79803	87298
35°	59441	71949	77939
40°	51418	59418	63941
45°	43361	38973	41826
50°	36809	22558	21210
55°	31942	10819	8172
60°	28857	5043	2017
65°	27993	2906	675
70°	25100	2324	641
75°	20630	1673	275
80°	15374	821	0
85°	13272	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	5.3
10°-20°	405.2	16.1
20°-30°	619.1	24.6
30°-40°	647.5	25.7
40°-50°	420.0	16.7
50°-60°	166.8	6.6
60°-70°	79.1	3.1
70°-80°	37.6	1.5
80°-90°	7.7	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°	1157.2	46.0
0°-40°	1804.8	71.7
0°-60°	2391.6	95.1
0°-90°	2516.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2516.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1376	1376	1376	1376	1376	
5°	1336	1348	1376	1411	1449	126
15°	1249	1309	1453	1544	1609	352
25°	1130	1201	1388	1482	1533	518
35°	888	942	1075	1138	1165	549
45°	559	554	503	533	540	435
55°	334	284	113	88	86	303
65°	216	179	22	5	5	211
75°	97	79	8	3	1	105
85°	21	13	0	0	0	25
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°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5
2.5°	1359.3	1362.0	1347.5	1343.6	1354.1	1358.0	1359.3	1355.4	1356.7	1362.0	1362.0
5°	1335.7	1338.3	1325.1	1321.2	1331.7	1334.4	1338.3	1337.0	1340.9	1348.8	1347.5
7.5°	1313.3	1317.3	1302.8	1297.5	1310.7	1317.3	1319.9	1319.9	1325.1	1335.7	1337.0
10°	1288.3	1293.6	1280.4	1277.7	1292.2	1298.8	1300.1	1302.8	1310.7	1325.1	1327.7
12.5°	1267.2	1272.5	1263.3	1259.3	1275.1	1281.7	1284.3	1289.6	1298.8	1317.3	1319.9
15°	1248.8	1252.8	1242.2	1239.6	1255.4	1263.3	1264.6	1272.5	1284.3	1305.4	1309.3
17.5°	1225.1	1227.7	1219.9	1217.2	1233.0	1240.9	1242.2	1251.4	1265.9	1287.0	1293.6
20°	1197.5	1200.1	1192.2	1189.6	1205.4	1214.6	1215.9	1223.8	1240.9	1263.3	1269.9
22.5°	1164.6	1169.9	1160.7	1158.0	1173.8	1181.7	1185.6	1192.2	1209.3	1231.7	1240.9
25°	1130.4	1130.4	1123.8	1122.5	1137.0	1146.2	1144.8	1154.0	1171.1	1193.6	1201.4
27.5°	1085.6	1084.3	1077.7	1076.4	1092.2	1100.1	1097.5	1106.7	1122.5	1144.8	1152.7
30°	1026.4	1029.1	1019.9	1017.2	1030.4	1043.5	1042.2	1051.4	1067.2	1088.3	1093.5
32.5°	955.4	958.0	956.7	952.7	964.6	971.1	975.1	981.7	994.8	1017.2	1022.5
35°	888.2	884.3	879.0	879.0	890.9	901.4	897.4	905.4	918.5	940.9	942.2
37.5°	805.3	804.0	801.4	798.8	811.9	814.5	815.9	821.1	833.0	851.4	848.8
40°	718.5	719.8	718.5	713.2	721.1	731.7	730.3	733.0	743.5	756.6	752.7
42.5°	636.9	636.9	636.9	631.6	640.8	646.1	648.8	647.4	650.0	661.9	656.6
45°	559.3	560.6	559.3	558.0	559.3	561.9	559.3	558.0	558.0	561.9	554.0
47.5°	492.2	492.2	488.2	484.3	488.2	489.5	485.6	481.6	480.3	479.0	465.9
50°	431.6	430.3	429.0	422.4	426.3	427.7	422.4	419.8	414.5	407.9	392.2
52.5°	379.0	377.7	376.3	369.8	372.4	373.7	368.5	363.2	356.6	351.4	331.6
55°	334.2	332.9	332.9	329.0	326.3	329.0	323.7	319.8	310.6	304.0	284.2
57.5°	296.1	296.1	293.4	289.5	290.8	290.8	285.6	280.3	272.4	264.5	248.7
60°	263.2	263.2	263.2	259.2	259.2	259.2	256.6	251.4	244.8	236.9	221.1
62.5°	236.9	236.9	235.5	231.6	232.9	232.9	230.3	225.0	218.5	213.2	197.4
65°	215.8	215.8	215.8	211.9	211.9	213.2	210.5	205.3	200.0	193.4	178.9
67.5°	189.5	188.2	188.2	185.5	186.9	188.2	185.5	181.6	175.0	171.1	157.9
70°	156.6	157.9	159.2	155.3	156.6	156.6	155.3	151.3	147.4	143.4	131.6
72.5°	127.7	127.7	126.3	125.0	125.0	126.3	123.7	119.7	117.1	114.5	105.2
75°	97.4	96.1	97.4	94.8	94.8	94.8	92.1	90.8	89.5	85.5	78.9
77.5°	71.1	69.7	69.7	67.1	68.5	68.5	67.1	64.5	61.8	60.5	55.2
80°	48.7	48.7	48.7	47.4	47.4	46.0	46.0	44.8	42.1	40.8	38.2
82.5°	32.9	32.9	32.9	31.6	31.6	31.6	30.3	28.9	27.6	26.3	23.7
85°	21.1	21.1	21.1	19.7	19.7	19.7	18.4	18.4	17.1	15.8	13.2
87.5°	11.8	11.8	11.8	10.5	10.5	10.5	10.5	10.5	9.2	7.9	6.6
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°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5
2.5°	1371.2	1352.8	1364.6	1364.6	1360.7	1371.2	1377.8	1383.0	1381.7	1369.9	1368.5
5°	1360.7	1344.9	1358.0	1359.3	1355.4	1369.9	1379.1	1385.7	1387.0	1376.5	1377.8
7.5°	1352.8	1339.6	1356.7	1362.0	1360.7	1373.8	1384.4	1394.9	1400.1	1392.2	1393.6
10°	1348.8	1338.3	1356.7	1364.6	1365.9	1380.4	1396.2	1410.7	1417.3	1412.0	1415.9
12.5°	1343.6	1337.0	1358.0	1369.9	1375.1	1389.6	1409.3	1426.5	1437.0	1434.4	1442.2
15°	1338.3	1333.0	1358.0	1375.1	1381.7	1394.9	1417.3	1442.2	1454.1	1452.8	1463.3
17.5°	1325.1	1323.8	1350.1	1368.5	1377.8	1393.6	1414.6	1444.9	1456.7	1459.3	1472.5
20°	1304.1	1304.1	1333.0	1352.8	1363.3	1377.8	1404.1	1433.0	1447.5	1450.1	1464.6
22.5°	1275.1	1277.7	1305.4	1325.1	1340.9	1351.4	1379.1	1409.3	1422.5	1426.5	1442.2
25°	1237.0	1239.6	1265.9	1285.6	1302.8	1314.6	1340.9	1368.5	1384.4	1388.3	1400.1
27.5°	1187.0	1192.2	1217.2	1237.0	1251.4	1259.3	1287.0	1315.9	1327.7	1331.7	1343.6
30°	1129.1	1130.4	1155.4	1172.5	1187.0	1193.6	1217.2	1247.5	1256.7	1260.7	1277.7
32.5°	1058.0	1056.7	1080.4	1096.2	1108.0	1115.9	1140.9	1160.7	1169.9	1176.4	1185.6
35°	972.5	971.1	988.2	1006.7	1015.9	1018.5	1043.5	1064.6	1069.9	1075.1	1087.0
37.5°	876.4	876.4	890.9	900.1	910.6	914.6	926.4	950.1	959.3	958.0	967.2
40°	775.1	769.8	780.3	789.6	792.2	793.5	805.3	823.7	830.3	830.3	836.9
42.5°	668.5	660.6	661.9	667.2	669.8	660.6	668.5	680.3	676.4	681.6	683.0
45°	555.3	543.5	538.2	526.3	529.0	519.8	514.5	517.1	515.9	502.7	505.3
47.5°	463.2	442.2	432.9	415.9	411.9	401.4	394.8	382.9	372.4	372.4	365.8
50°	385.6	364.5	346.1	326.3	319.8	310.6	296.1	280.3	272.4	264.5	257.9
52.5°	323.7	301.4	279.0	257.9	248.7	236.9	217.1	201.3	186.9	178.9	171.1
55°	273.7	248.7	225.0	202.6	190.8	178.9	159.2	140.8	123.7	113.2	106.6
57.5°	235.5	211.9	186.9	163.2	152.6	139.5	118.5	98.7	82.9	71.1	64.5
60°	207.9	184.2	161.9	136.9	126.3	113.2	90.8	72.4	56.6	46.0	38.2
62.5°	184.2	163.2	139.5	117.1	106.6	93.4	72.4	54.0	39.5	28.9	22.4
65°	167.1	146.1	126.3	104.0	94.8	81.6	61.8	44.8	31.6	22.4	15.8
67.5°	147.4	128.9	109.2	90.8	81.6	71.1	52.6	38.2	26.3	18.4	13.2
70°	123.7	109.2	92.1	75.0	68.5	59.2	43.4	31.6	21.1	14.5	10.5
72.5°	98.7	86.9	73.7	60.5	55.2	46.0	35.5	25.0	15.8	10.5	7.9
75°	75.0	65.8	55.2	46.0	40.8	35.5	26.3	18.4	11.8	7.9	5.2
77.5°	51.3	47.4	39.5	31.6	28.9	25.0	17.1	11.8	7.9	5.2	2.6
80°	35.5	31.6	26.3	21.1	18.4	15.8	10.5	7.9	4.0	2.6	1.3
82.5°	22.4	18.4	15.8	13.2	11.8	9.2	6.6	4.0	2.6	1.3	1.3
85°	11.8	10.5	9.2	6.6	6.6	5.2	4.0	2.6	1.3	0.0	0.0
87.5°	6.6	5.2	4.0	2.6	2.6	1.3	1.3	1.3	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°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5
2.5°	1384.4	1384.4	1383.0	1398.8	1380.4	1398.8	1389.6	1398.8	1385.7	1384.4	1385.7
5°	1394.9	1398.8	1400.1	1414.6	1397.5	1419.9	1412.0	1419.9	1410.7	1413.3	1417.3
7.5°	1415.9	1422.5	1421.2	1439.6	1422.5	1447.5	1442.2	1454.1	1444.9	1447.5	1452.8
10°	1439.6	1447.5	1448.8	1467.3	1451.4	1481.7	1475.1	1488.3	1480.4	1484.4	1491.0
12.5°	1467.3	1476.5	1477.8	1498.8	1481.7	1513.3	1509.4	1522.5	1515.9	1519.9	1527.8
15°	1488.3	1501.4	1504.1	1525.1	1506.7	1539.6	1537.0	1554.1	1543.6	1550.2	1556.7
17.5°	1498.8	1510.7	1515.9	1535.7	1519.9	1552.8	1550.2	1564.6	1556.7	1563.3	1571.2
20°	1492.2	1506.7	1510.7	1530.4	1514.6	1547.5	1543.6	1558.1	1550.2	1555.4	1563.3
22.5°	1468.5	1483.0	1488.3	1506.7	1492.2	1522.5	1521.2	1534.4	1523.8	1530.4	1537.0
25°	1426.5	1442.2	1444.9	1462.0	1446.2	1477.8	1475.1	1489.6	1481.7	1485.7	1494.9
27.5°	1365.9	1384.4	1388.3	1402.8	1390.9	1417.3	1417.3	1429.1	1419.9	1419.9	1429.1
30°	1293.6	1312.0	1314.6	1326.5	1315.9	1339.6	1340.9	1352.8	1338.3	1346.2	1347.5
32.5°	1205.4	1217.2	1225.1	1235.6	1219.9	1250.1	1246.2	1255.4	1247.5	1247.5	1254.1
35°	1098.8	1113.3	1117.2	1130.4	1117.2	1140.9	1140.9	1146.2	1138.3	1138.3	1148.8
37.5°	983.0	993.5	994.8	1008.0	997.4	1017.2	1015.9	1019.9	1011.9	1017.2	1017.2
40°	847.4	855.4	858.0	864.5	863.3	877.7	876.4	879.0	875.1	876.4	879.0
42.5°	689.6	700.0	705.3	710.6	702.7	722.5	718.5	722.5	721.1	722.5	726.4
45°	507.9	515.9	519.8	521.1	518.5	530.3	539.5	531.6	532.9	530.3	535.6
47.5°	367.1	368.5	365.8	373.7	367.1	372.4	375.1	376.3	368.5	367.1	372.4
50°	251.4	257.9	248.7	252.6	251.4	256.6	254.0	255.3	247.4	251.4	248.7
52.5°	167.1	165.8	163.2	164.5	161.9	161.9	161.9	164.5	159.2	156.6	154.0
55°	101.3	98.7	93.4	92.1	92.1	93.4	90.8	88.2	88.2	86.9	86.9
57.5°	59.2	55.2	52.6	51.3	48.7	47.4	46.0	46.0	43.4	43.4	43.4
60°	32.9	28.9	26.3	23.7	23.7	22.4	21.1	19.7	19.7	19.7	18.4
62.5°	17.1	14.5	11.8	10.5	10.5	9.2	7.9	7.9	7.9	7.9	6.6
65°	11.8	9.2	7.9	6.6	6.6	5.2	5.2	5.2	5.2	5.2	5.2
67.5°	9.2	7.9	6.6	5.2	5.2	5.2	4.0	4.0	4.0	4.0	4.0
70°	7.9	5.2	5.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
72.5°	5.2	5.2	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
75°	4.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
80°	1.3	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: P684915

CATALOG NUMBER: LX6C25D010 EX6259027 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5	1376.5
2.5°	1397.5	1396.2	1397.5	1400.1	1394.9	1410.7	1402.8	1410.7
5°	1427.8	1429.1	1430.4	1434.4	1427.8	1447.5	1437.0	1448.8
7.5°	1467.3	1468.5	1469.9	1473.8	1469.9	1489.6	1477.8	1488.3
10°	1508.1	1510.7	1510.7	1517.3	1513.3	1531.7	1523.8	1537.0
12.5°	1546.2	1548.8	1551.5	1555.4	1552.8	1572.5	1565.9	1576.5
15°	1576.5	1581.7	1583.0	1588.3	1585.7	1606.7	1598.8	1609.4
17.5°	1591.0	1596.2	1596.2	1602.8	1600.2	1622.5	1612.0	1623.9
20°	1583.0	1587.0	1588.3	1594.9	1592.2	1614.7	1604.1	1618.6
22.5°	1558.1	1559.4	1560.7	1567.3	1565.9	1585.7	1576.5	1585.7
25°	1512.0	1515.9	1514.6	1519.9	1519.9	1535.7	1525.1	1533.0
27.5°	1446.2	1450.1	1450.1	1456.7	1451.4	1467.3	1456.7	1468.5
30°	1365.9	1369.9	1367.3	1372.5	1367.3	1383.0	1375.1	1379.1
32.5°	1269.9	1269.9	1271.2	1272.5	1269.9	1284.3	1276.4	1284.3
35°	1155.4	1158.0	1159.3	1160.7	1158.0	1168.5	1159.3	1164.6
37.5°	1026.4	1033.0	1031.7	1033.0	1029.1	1042.2	1034.3	1037.0
40°	888.2	888.2	886.9	889.6	885.6	896.2	890.9	893.5
42.5°	727.7	731.7	726.4	733.0	722.5	736.9	731.7	727.7
45°	546.1	540.8	539.5	540.8	536.9	538.2	542.2	539.5
47.5°	372.4	372.4	369.8	365.8	371.1	372.4	367.1	367.1
50°	250.0	250.0	247.4	246.1	248.7	247.4	244.8	248.7
52.5°	159.2	154.0	154.0	156.6	154.0	151.3	155.3	152.6
55°	86.9	84.2	84.2	86.9	84.2	84.2	82.9	85.5
57.5°	42.1	43.4	42.1	42.1	42.1	42.1	40.8	42.1
60°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
62.5°	7.9	7.9	6.6	6.6	6.6	6.6	6.6	6.6
65°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
67.5°	4.0	4.0	4.0	4.0	4.0	5.2	4.0	4.0
70°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
72.5°	4.0	4.0	5.2	5.2	5.2	5.2	5.2	5.2
75°	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3
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)