

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: P684900

Luminaire Tested: **LX6C20D010 EX6209035 6LCSWLI**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684900
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: LX6C20D010 EX6209035 6LCSWLI
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

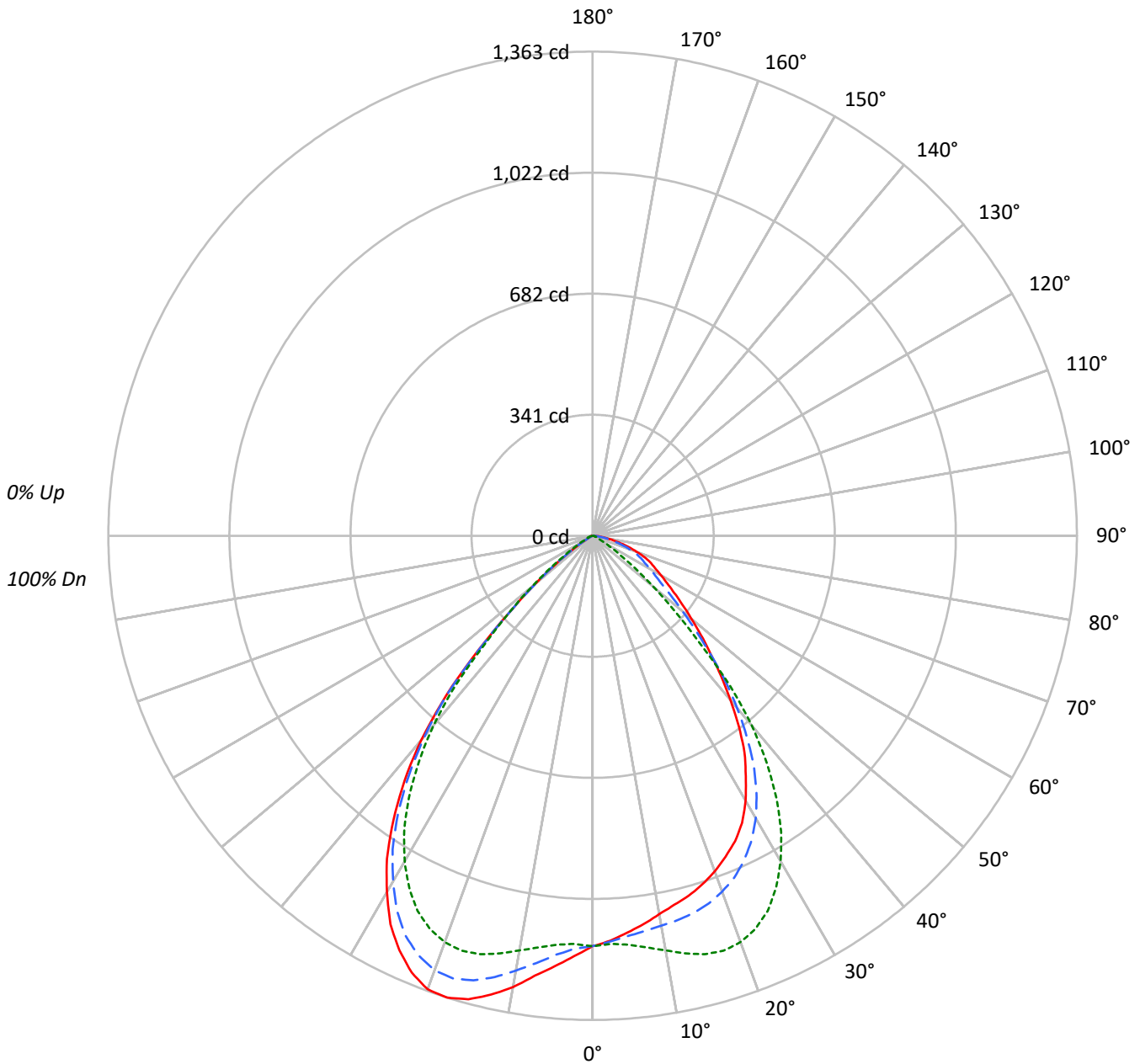
Lumens per Lamp: N/A
Luminaire Lumens: 2112.0 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
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°	63339	63339	63339
5°	61699	63581	66927
10°	60197	65975	71820
15°	59495	69212	76669
20°	58642	71015	79264
25°	57396	70492	77841
30°	54540	66985	73277
35°	49898	60398	65424
40°	43159	49879	53672
45°	36399	32717	35112
50°	30899	18933	17808
55°	26819	9080	6862
60°	24220	4243	1688
65°	23491	2439	571
70°	21061	1955	529
75°	17305	1398	233
80°	12912	695	0
85°	11133	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	5.3
10°-20°	340.1	16.1
20°-30°	519.7	24.6
30°-40°	543.5	25.7
40°-50°	352.6	16.7
50°-60°	140.0	6.6
60°-70°	66.4	3.1
70°-80°	31.6	1.5
80°-90°	6.4	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°	971.4	46.0
0°-40°	1515.0	71.7
0°-60°	2007.6	95.1
0°-90°	2112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2112.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1155	1155	1155	1155	1155	
5°	1121	1131	1155	1184	1216	106
15°	1048	1099	1220	1296	1351	295
25°	949	1008	1165	1244	1287	435
35°	746	791	902	956	978	461
45°	470	465	422	447	453	365
55°	281	239	95	74	72	254
65°	181	150	19	4	4	177
75°	82	66	7	2	1	88
85°	18	11	0	0	0	21
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°	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4
2.5°	1141.1	1143.3	1131.1	1127.8	1136.7	1139.9	1141.1	1137.7	1138.9	1143.3	1143.3
5°	1121.2	1123.4	1112.3	1109.0	1117.9	1120.1	1123.4	1122.3	1125.6	1132.2	1131.1
7.5°	1102.4	1105.7	1093.6	1089.2	1100.2	1105.7	1107.9	1107.9	1112.3	1121.2	1122.3
10°	1081.4	1085.9	1074.8	1072.6	1084.7	1090.3	1091.4	1093.6	1100.2	1112.3	1114.5
12.5°	1063.8	1068.2	1060.4	1057.1	1070.4	1075.9	1078.1	1082.5	1090.3	1105.7	1107.9
15°	1048.3	1051.6	1042.8	1040.6	1053.8	1060.4	1061.5	1068.2	1078.1	1095.8	1099.1
17.5°	1028.4	1030.6	1024.0	1021.8	1035.0	1041.6	1042.8	1050.5	1062.6	1080.3	1085.9
20°	1005.2	1007.4	1000.8	998.6	1011.8	1019.5	1020.7	1027.3	1041.6	1060.4	1066.0
22.5°	977.6	982.0	974.3	972.1	985.3	991.9	995.3	1000.8	1015.1	1033.9	1041.6
25°	948.9	948.9	943.4	942.2	954.4	962.1	961.0	968.7	983.1	1001.9	1008.5
27.5°	911.3	910.2	904.7	903.6	916.8	923.5	921.2	929.0	942.2	961.0	967.7
30°	861.6	863.8	856.1	853.9	864.9	876.0	874.9	882.6	895.8	913.5	918.0
32.5°	802.0	804.2	803.1	799.8	809.7	815.2	818.5	824.0	835.1	853.9	858.3
35°	745.6	742.3	737.9	737.9	747.8	756.7	753.3	760.0	771.0	789.8	790.9
37.5°	676.0	674.9	672.7	670.5	681.6	683.8	684.9	689.3	699.2	714.7	712.5
40°	603.1	604.2	603.1	598.7	605.3	614.2	613.0	615.3	624.1	635.1	631.9
42.5°	534.6	534.6	534.6	530.2	537.9	542.4	544.6	543.5	545.7	555.6	551.2
45°	469.5	470.6	469.5	468.4	469.5	471.7	469.5	468.4	468.4	471.7	465.0
47.5°	413.1	413.1	409.8	406.5	409.8	410.9	407.6	404.3	403.2	402.1	391.1
50°	362.3	361.2	360.1	354.6	357.9	359.0	354.6	352.4	348.0	342.4	329.2
52.5°	318.1	317.0	315.9	310.4	312.6	313.7	309.3	304.9	299.3	294.9	278.4
55°	280.6	279.5	279.5	276.2	273.9	276.2	271.7	268.4	260.7	255.2	238.6
57.5°	248.5	248.5	246.3	243.0	244.1	244.1	239.7	235.3	228.6	222.0	208.8
60°	220.9	220.9	220.9	217.6	217.6	217.6	215.4	211.0	205.5	198.8	185.6
62.5°	198.8	198.8	197.7	194.4	195.5	195.5	193.3	188.9	183.4	178.9	165.7
65°	181.1	181.1	181.1	177.9	177.9	178.9	176.7	172.3	167.9	162.4	150.2
67.5°	159.1	158.0	158.0	155.7	156.9	158.0	155.7	152.5	146.9	143.6	132.6
70°	131.4	132.6	133.6	130.4	131.4	131.4	130.4	127.0	123.7	120.4	110.5
72.5°	107.2	107.2	106.0	105.0	105.0	106.0	103.8	100.5	98.3	96.1	88.3
75°	81.7	80.6	81.7	79.5	79.5	79.5	77.3	76.2	75.1	71.8	66.3
77.5°	59.7	58.5	58.5	56.3	57.5	57.5	56.3	54.1	51.9	50.8	46.4
80°	40.9	40.9	40.9	39.8	39.8	38.7	38.7	37.6	35.3	34.3	32.1
82.5°	27.6	27.6	27.6	26.5	26.5	26.5	25.4	24.3	23.2	22.1	19.9
85°	17.7	17.7	17.7	16.6	16.6	16.6	15.4	15.4	14.4	13.2	11.0
87.5°	9.9	9.9	9.9	8.8	8.8	8.8	8.8	8.8	7.7	6.6	5.5
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°	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4
2.5°	1151.0	1135.5	1145.5	1145.5	1142.2	1151.0	1156.6	1161.0	1159.8	1149.9	1148.8
5°	1142.2	1128.9	1139.9	1141.1	1137.7	1149.9	1157.6	1163.2	1164.3	1155.4	1156.6
7.5°	1135.5	1124.5	1138.9	1143.3	1142.2	1153.2	1162.1	1170.9	1175.3	1168.7	1169.8
10°	1132.2	1123.4	1138.9	1145.5	1146.6	1158.8	1172.0	1184.2	1189.7	1185.2	1188.6
12.5°	1127.8	1122.3	1139.9	1149.9	1154.3	1166.5	1183.0	1197.4	1206.3	1204.1	1210.7
15°	1123.4	1119.0	1139.9	1154.3	1159.8	1170.9	1189.7	1210.7	1220.6	1219.5	1228.3
17.5°	1112.3	1111.3	1133.3	1148.8	1156.6	1169.8	1187.4	1212.9	1222.8	1225.0	1236.1
20°	1094.7	1094.7	1119.0	1135.5	1144.4	1156.6	1178.6	1202.9	1215.1	1217.3	1229.5
22.5°	1070.4	1072.6	1095.8	1112.3	1125.6	1134.4	1157.6	1183.0	1194.1	1197.4	1210.7
25°	1038.4	1040.6	1062.6	1079.2	1093.6	1103.5	1125.6	1148.8	1162.1	1165.4	1175.3
27.5°	996.4	1000.8	1021.8	1038.4	1050.5	1057.1	1080.3	1104.6	1114.5	1117.9	1127.8
30°	947.8	948.9	969.9	984.2	996.4	1001.9	1021.8	1047.2	1054.9	1058.2	1072.6
32.5°	888.1	887.0	906.9	920.2	930.1	936.7	957.7	974.3	982.0	987.5	995.3
35°	816.3	815.2	829.6	845.0	852.8	855.0	876.0	893.6	898.1	902.5	912.4
37.5°	735.7	735.7	747.8	755.6	764.4	767.7	777.7	797.6	805.3	804.2	811.9
40°	650.6	646.2	655.0	662.8	665.0	666.1	676.0	691.5	697.0	697.0	702.5
42.5°	561.2	554.5	555.6	560.0	562.2	554.5	561.2	571.1	567.8	572.2	573.3
45°	466.2	456.2	451.8	441.8	444.1	436.3	431.9	434.1	433.0	422.0	424.2
47.5°	388.8	371.2	363.4	349.1	345.8	336.9	331.4	321.4	312.6	312.6	307.1
50°	323.7	306.0	290.5	273.9	268.4	260.7	248.5	235.3	228.6	222.0	216.5
52.5°	271.7	253.0	234.2	216.5	208.8	198.8	182.3	169.0	156.9	150.2	143.6
55°	229.8	208.8	188.9	170.1	160.2	150.2	133.6	118.2	103.8	95.0	89.5
57.5°	197.7	177.9	156.9	137.0	128.1	117.1	99.4	82.8	69.6	59.7	54.1
60°	174.5	154.7	135.9	114.9	106.0	95.0	76.2	60.7	47.5	38.7	32.1
62.5°	154.7	137.0	117.1	98.3	89.5	78.4	60.7	45.3	33.1	24.3	18.8
65°	140.3	122.6	106.0	87.3	79.5	68.5	51.9	37.6	26.5	18.8	13.2
67.5°	123.7	108.2	91.7	76.2	68.5	59.7	44.2	32.1	22.1	15.4	11.0
70°	103.8	91.7	77.3	63.0	57.5	49.7	36.5	26.5	17.7	12.2	8.8
72.5°	82.8	72.9	61.9	50.8	46.4	38.7	29.8	21.0	13.2	8.8	6.6
75°	63.0	55.2	46.4	38.7	34.3	29.8	22.1	15.4	9.9	6.6	4.4
77.5°	43.1	39.8	33.1	26.5	24.3	21.0	14.4	9.9	6.6	4.4	2.2
80°	29.8	26.5	22.1	17.7	15.4	13.2	8.8	6.6	3.3	2.2	1.1
82.5°	18.8	15.4	13.2	11.0	9.9	7.7	5.5	3.3	2.2	1.1	1.1
85°	9.9	8.8	7.7	5.5	5.5	4.4	3.3	2.2	1.1	0.0	0.0
87.5°	5.5	4.4	3.3	2.2	2.2	1.1	1.1	1.1	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°	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4
2.5°	1162.1	1162.1	1161.0	1174.2	1158.8	1174.2	1166.5	1174.2	1163.2	1162.1	1163.2
5°	1170.9	1174.2	1175.3	1187.4	1173.1	1191.9	1185.2	1191.9	1184.2	1186.4	1189.7
7.5°	1188.6	1194.1	1193.0	1208.5	1194.1	1215.1	1210.7	1220.6	1212.9	1215.1	1219.5
10°	1208.5	1215.1	1216.2	1231.7	1218.4	1243.8	1238.3	1249.3	1242.7	1246.0	1251.5
12.5°	1231.7	1239.4	1240.5	1258.1	1243.8	1270.3	1267.0	1278.0	1272.5	1275.8	1282.5
15°	1249.3	1260.3	1262.6	1280.2	1264.8	1292.4	1290.2	1304.6	1295.7	1301.2	1306.8
17.5°	1258.1	1268.1	1272.5	1289.1	1275.8	1303.4	1301.2	1313.4	1306.8	1312.3	1318.9
20°	1252.6	1264.8	1268.1	1284.7	1271.4	1299.0	1295.7	1307.9	1301.2	1305.6	1312.3
22.5°	1232.7	1244.9	1249.3	1264.8	1252.6	1278.0	1277.0	1288.0	1279.2	1284.7	1290.2
25°	1197.4	1210.7	1212.9	1227.2	1214.0	1240.5	1238.3	1250.4	1243.8	1247.1	1254.8
27.5°	1146.6	1162.1	1165.4	1177.5	1167.6	1189.7	1189.7	1199.6	1191.9	1191.9	1199.6
30°	1085.9	1101.3	1103.5	1113.5	1104.6	1124.5	1125.6	1135.5	1123.4	1130.0	1131.1
32.5°	1011.8	1021.8	1028.4	1037.2	1024.0	1049.4	1046.1	1053.8	1047.2	1047.2	1052.7
35°	922.4	934.5	937.8	948.9	937.8	957.7	957.7	962.1	955.5	955.5	964.3
37.5°	825.2	834.0	835.1	846.1	837.3	853.9	852.8	856.1	849.4	853.9	853.9
40°	711.4	718.0	720.2	725.7	724.6	736.8	735.7	737.9	734.6	735.7	737.9
42.5°	578.8	587.6	592.1	596.5	589.9	606.4	603.1	606.4	605.3	606.4	609.8
45°	426.4	433.0	436.3	437.4	435.2	445.2	452.9	446.3	447.4	445.2	449.6
47.5°	308.2	309.3	307.1	313.7	308.2	312.6	314.8	315.9	309.3	308.2	312.6
50°	211.0	216.5	208.8	212.1	211.0	215.4	213.2	214.3	207.7	211.0	208.8
52.5°	140.3	139.2	137.0	138.1	135.9	135.9	135.9	138.1	133.6	131.4	129.2
55°	85.1	82.8	78.4	77.3	77.3	78.4	76.2	74.0	74.0	72.9	72.9
57.5°	49.7	46.4	44.2	43.1	40.9	39.8	38.7	38.7	36.5	36.5	36.5
60°	27.6	24.3	22.1	19.9	19.9	18.8	17.7	16.6	16.6	16.6	15.4
62.5°	14.4	12.2	9.9	8.8	8.8	7.7	6.6	6.6	6.6	6.6	5.5
65°	9.9	7.7	6.6	5.5	5.5	4.4	4.4	4.4	4.4	4.4	4.4
67.5°	7.7	6.6	5.5	4.4	4.4	4.4	3.3	3.3	3.3	3.3	3.3
70°	6.6	4.4	4.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
72.5°	4.4	4.4	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
75°	3.3	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	1.1	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: P684900

CATALOG NUMBER: LX6C20D010 EX6209035 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4	1155.4
2.5°	1173.1	1172.0	1173.1	1175.3	1170.9	1184.2	1177.5	1184.2
5°	1198.5	1199.6	1200.7	1204.1	1198.5	1215.1	1206.3	1216.2
7.5°	1231.7	1232.7	1233.9	1237.2	1233.9	1250.4	1240.5	1249.3
10°	1265.9	1268.1	1268.1	1273.6	1270.3	1285.8	1279.2	1290.2
12.5°	1297.9	1300.1	1302.4	1305.6	1303.4	1320.0	1314.5	1323.3
15°	1323.3	1327.7	1328.9	1333.3	1331.1	1348.7	1342.1	1350.9
17.5°	1335.5	1339.9	1339.9	1345.4	1343.2	1362.0	1353.1	1363.1
20°	1328.9	1332.2	1333.3	1338.8	1336.6	1355.4	1346.5	1358.7
22.5°	1307.9	1309.0	1310.1	1315.6	1314.5	1331.1	1323.3	1331.1
25°	1269.2	1272.5	1271.4	1275.8	1275.8	1289.1	1280.2	1286.9
27.5°	1214.0	1217.3	1217.3	1222.8	1218.4	1231.7	1222.8	1232.7
30°	1146.6	1149.9	1147.7	1152.1	1147.7	1161.0	1154.3	1157.6
32.5°	1066.0	1066.0	1067.0	1068.2	1066.0	1078.1	1071.5	1078.1
35°	969.9	972.1	973.2	974.3	972.1	980.9	973.2	977.6
37.5°	861.6	867.1	866.0	867.1	863.8	874.9	868.2	870.5
40°	745.6	745.6	744.5	746.7	743.4	752.3	747.8	750.0
42.5°	610.8	614.2	609.8	615.3	606.4	618.6	614.2	610.8
45°	458.4	454.0	452.9	454.0	450.7	451.8	455.1	452.9
47.5°	312.6	312.6	310.4	307.1	311.5	312.6	308.2	308.2
50°	209.9	209.9	207.7	206.5	208.8	207.7	205.5	208.8
52.5°	133.6	129.2	129.2	131.4	129.2	127.0	130.4	128.1
55°	72.9	70.7	70.7	72.9	70.7	70.7	69.6	71.8
57.5°	35.3	36.5	35.3	35.3	35.3	35.3	34.3	35.3
60°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
62.5°	6.6	6.6	5.5	5.5	5.5	5.5	5.5	5.5
65°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
67.5°	3.3	3.3	3.3	3.3	3.3	4.4	3.3	3.3
70°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
72.5°	3.3	3.3	4.4	4.4	4.4	4.4	4.4	4.4
75°	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1
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)