

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: P684910

Luminaire Tested: **LX6C20D010 EX6209050 6LCSWLI**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684910
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 EX6209050 6LCSWLI
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Summary

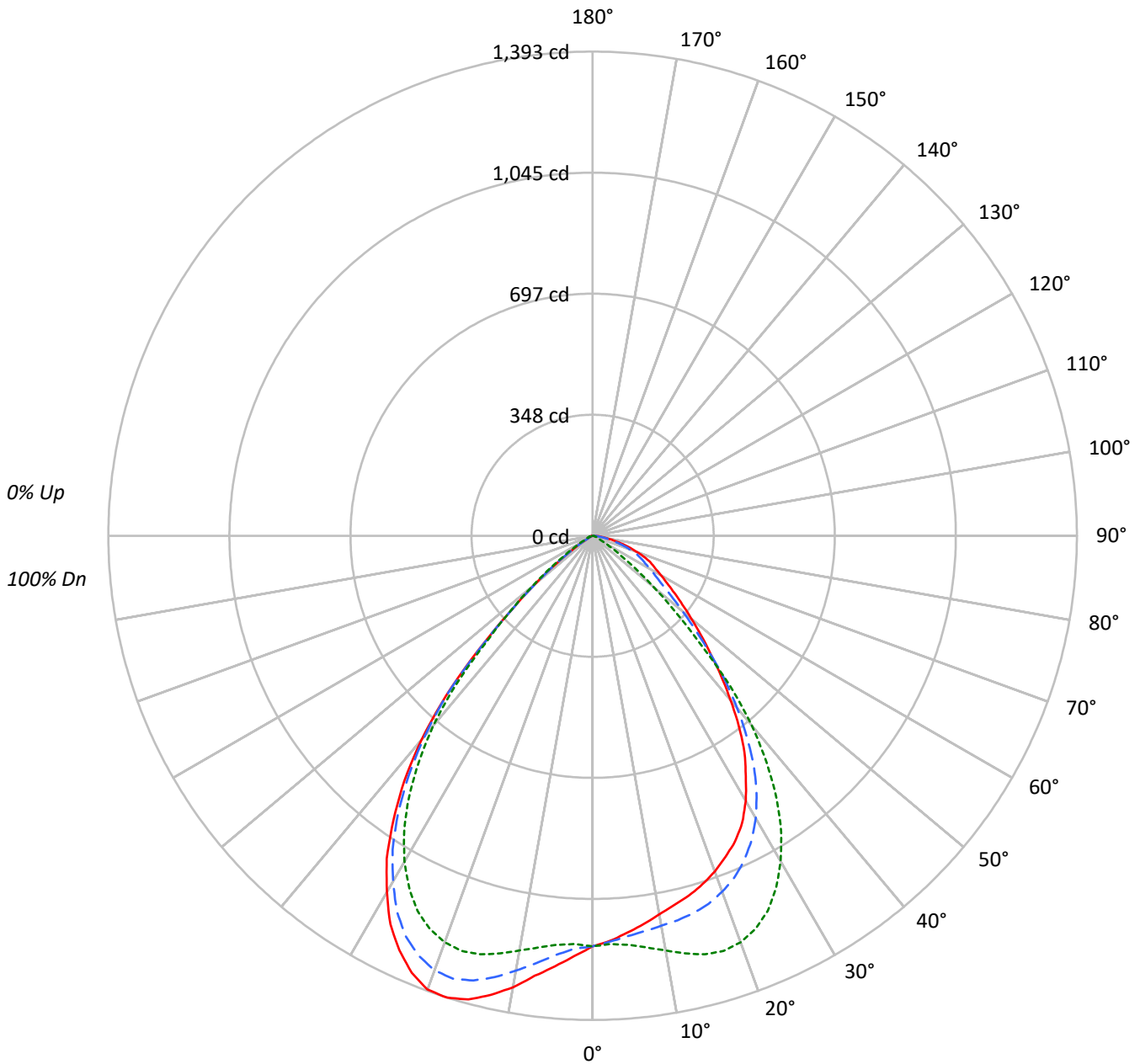
Lumens per Lamp: N/A
Luminaire Lumens: 2159.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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°	64748	64748	64748
5°	63069	64995	68413
10°	61539	67445	73418
15°	60818	70750	78377
20°	59949	72596	81026
25°	58673	72059	79571
30°	55755	68479	74910
35°	51009	61743	66876
40°	44118	50988	54867
45°	37205	33445	35895
50°	31590	19360	18200
55°	27411	9280	7015
60°	24757	4331	1732
65°	24023	2491	584
70°	21542	1988	545
75°	17707	1440	233
80°	13196	695	0
85°	11385	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	5.3
10°-20°	347.7	16.1
20°-30°	531.3	24.6
30°-40°	555.6	25.7
40°-50°	360.4	16.7
50°-60°	143.1	6.6
60°-70°	67.9	3.1
70°-80°	32.3	1.5
80°-90°	6.6	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°	993.0	46.0
0°-40°	1548.7	71.7
0°-60°	2052.2	95.1
0°-90°	2159.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2159.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1181	1181	1181	1181	1181	
5°	1146	1156	1181	1210	1243	108
15°	1072	1124	1247	1325	1381	302
25°	970	1031	1191	1272	1316	444
35°	762	808	923	977	999	471
45°	480	475	431	457	463	373
55°	287	244	97	76	73	260
65°	185	154	19	4	4	181
75°	84	68	7	2	1	90
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°	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1
2.5°	1166.5	1168.7	1156.3	1152.9	1162.0	1165.3	1166.5	1163.1	1164.2	1168.7	1168.7
5°	1146.1	1148.4	1137.1	1133.7	1142.7	1145.0	1148.4	1147.3	1150.7	1157.4	1156.3
7.5°	1126.9	1130.3	1117.9	1113.4	1124.7	1130.3	1132.6	1132.6	1137.1	1146.1	1147.3
10°	1105.5	1110.0	1098.7	1096.4	1108.9	1114.5	1115.7	1117.9	1124.7	1137.1	1139.3
12.5°	1087.4	1091.9	1084.0	1080.6	1094.2	1099.8	1102.1	1106.6	1114.5	1130.3	1132.6
15°	1071.6	1075.0	1066.0	1063.7	1077.3	1084.0	1085.1	1091.9	1102.1	1120.2	1123.6
17.5°	1051.3	1053.5	1046.8	1044.5	1058.1	1064.8	1066.0	1073.9	1086.3	1104.4	1110.0
20°	1027.6	1029.8	1023.1	1020.8	1034.3	1042.2	1043.4	1050.2	1064.8	1084.0	1089.7
22.5°	999.3	1003.9	996.0	993.7	1007.3	1014.0	1017.4	1023.1	1037.7	1056.9	1064.8
25°	970.0	970.0	964.4	963.2	975.6	983.5	982.4	990.3	1005.0	1024.2	1030.9
27.5°	931.6	930.4	924.8	923.7	937.2	944.0	941.7	949.7	963.2	982.4	989.2
30°	880.8	883.0	875.1	872.9	884.2	895.5	894.3	902.2	915.8	933.8	938.4
32.5°	819.8	822.0	820.9	817.6	827.7	833.3	836.7	842.4	853.7	872.9	877.4
35°	762.2	758.8	754.3	754.3	764.5	773.5	770.1	776.9	788.2	807.4	808.5
37.5°	691.1	689.9	687.7	685.4	696.7	699.0	700.1	704.6	714.8	730.6	728.3
40°	616.5	617.7	616.5	612.0	618.8	627.8	626.7	629.0	638.0	649.3	645.9
42.5°	546.5	546.5	546.5	542.0	549.9	554.5	556.7	555.6	557.8	568.0	563.5
45°	479.9	481.0	479.9	478.8	479.9	482.2	479.9	478.8	478.8	482.2	475.4
47.5°	422.3	422.3	418.9	415.5	418.9	420.0	416.7	413.3	412.1	411.0	399.8
50°	370.4	369.2	368.1	362.5	365.8	367.0	362.5	360.2	355.7	350.1	336.5
52.5°	325.2	324.1	322.9	317.3	319.6	320.7	316.2	311.6	306.0	301.5	284.6
55°	286.8	285.7	285.7	282.3	280.0	282.3	277.8	274.4	266.5	260.8	243.9
57.5°	254.1	254.1	251.8	248.4	249.6	249.6	245.1	240.5	233.7	227.0	213.4
60°	225.8	225.8	225.8	222.4	222.4	222.4	220.2	215.7	210.0	203.3	189.7
62.5°	203.3	203.3	202.1	198.8	199.9	199.9	197.6	193.1	187.5	182.9	169.4
65°	185.2	185.2	185.2	181.8	181.8	182.9	180.7	176.2	171.6	166.0	153.6
67.5°	162.6	161.5	161.5	159.2	160.3	161.5	159.2	155.8	150.2	146.8	135.5
70°	134.4	135.5	136.6	133.3	134.4	134.4	133.3	129.9	126.5	123.1	112.9
72.5°	109.5	109.5	108.4	107.3	107.3	108.4	106.1	102.8	100.5	98.3	90.3
75°	83.6	82.4	83.6	81.3	81.3	81.3	79.0	77.9	76.8	73.4	67.7
77.5°	61.0	59.8	59.8	57.6	58.7	58.7	57.6	55.3	53.1	51.9	47.4
80°	41.8	41.8	41.8	40.7	40.7	39.5	39.5	38.4	36.1	35.0	32.8
82.5°	28.2	28.2	28.2	27.1	27.1	27.1	26.0	24.8	23.7	22.6	20.3
85°	18.1	18.1	18.1	16.9	16.9	16.9	15.8	15.8	14.7	13.5	11.3
87.5°	10.1	10.1	10.1	9.0	9.0	9.0	9.0	9.0	7.9	6.8	5.6
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°	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1
2.5°	1176.6	1160.8	1171.0	1171.0	1167.6	1176.6	1182.3	1186.8	1185.6	1175.5	1174.4
5°	1167.6	1154.0	1165.3	1166.5	1163.1	1175.5	1183.4	1189.0	1190.2	1181.1	1182.3
7.5°	1160.8	1149.5	1164.2	1168.7	1167.6	1178.9	1187.9	1196.9	1201.5	1194.7	1195.8
10°	1157.4	1148.4	1164.2	1171.0	1172.1	1184.5	1198.1	1210.5	1216.2	1211.6	1215.0
12.5°	1152.9	1147.3	1165.3	1175.5	1180.0	1192.4	1209.4	1224.1	1233.1	1230.8	1237.6
15°	1148.4	1143.9	1165.3	1180.0	1185.6	1196.9	1216.2	1237.6	1247.8	1246.6	1255.7
17.5°	1137.1	1136.0	1158.6	1174.4	1182.3	1195.8	1213.9	1239.8	1250.0	1252.3	1263.6
20°	1119.1	1119.1	1143.9	1160.8	1169.9	1182.3	1204.9	1229.7	1242.1	1244.4	1256.8
22.5°	1094.2	1096.4	1120.2	1137.1	1150.7	1159.7	1183.4	1209.4	1220.7	1224.1	1237.6
25°	1061.5	1063.7	1086.3	1103.2	1117.9	1128.1	1150.7	1174.4	1187.9	1191.3	1201.5
27.5°	1018.6	1023.1	1044.5	1061.5	1073.9	1080.6	1104.4	1129.2	1139.3	1142.7	1152.9
30°	968.9	970.0	991.4	1006.1	1018.6	1024.2	1044.5	1070.5	1078.4	1081.8	1096.4
32.5°	907.9	906.8	927.1	940.6	950.8	957.6	979.0	996.0	1003.9	1009.5	1017.4
35°	834.5	833.3	848.0	863.9	871.7	874.0	895.5	913.5	918.1	922.6	932.7
37.5°	752.1	752.1	764.5	772.4	781.4	784.8	795.0	815.3	823.2	822.0	829.9
40°	665.1	660.6	669.6	677.5	679.8	680.9	691.1	706.9	712.5	712.5	718.2
42.5°	573.6	566.8	568.0	572.5	574.7	566.8	573.6	583.8	580.4	584.9	586.1
45°	476.5	466.3	461.8	451.7	454.0	446.0	441.5	443.8	442.7	431.4	433.6
47.5°	397.5	379.4	371.5	356.8	353.5	344.4	338.8	328.6	319.6	319.6	313.9
50°	330.9	312.8	297.0	280.0	274.4	266.5	254.1	240.5	233.7	227.0	221.3
52.5°	277.8	258.6	239.4	221.3	213.4	203.3	186.3	172.8	160.3	153.6	146.8
55°	234.9	213.4	193.1	173.9	163.7	153.6	136.6	120.8	106.1	97.1	91.5
57.5°	202.1	181.8	160.3	140.0	131.0	119.7	101.6	84.7	71.1	61.0	55.3
60°	178.4	158.1	138.9	117.4	108.4	97.1	77.9	62.1	48.6	39.5	32.8
62.5°	158.1	140.0	119.7	100.5	91.5	80.2	62.1	46.3	33.9	24.8	19.2
65°	143.4	125.3	108.4	89.2	81.3	70.0	53.1	38.4	27.1	19.2	13.5
67.5°	126.5	110.6	93.7	77.9	70.0	61.0	45.2	32.8	22.6	15.8	11.3
70°	106.1	93.7	79.0	64.4	58.7	50.8	37.3	27.1	18.1	12.4	9.0
72.5°	84.7	74.5	63.2	51.9	47.4	39.5	30.5	21.5	13.5	9.0	6.8
75°	64.4	56.4	47.4	39.5	35.0	30.5	22.6	15.8	10.1	6.8	4.5
77.5°	44.1	40.7	33.9	27.1	24.8	21.5	14.7	10.1	6.8	4.5	2.2
80°	30.5	27.1	22.6	18.1	15.8	13.5	9.0	6.8	3.4	2.2	1.1
82.5°	19.2	15.8	13.5	11.3	10.1	7.9	5.6	3.4	2.2	1.1	1.1
85°	10.1	9.0	7.9	5.6	5.6	4.5	3.4	2.2	1.1	0.0	0.0
87.5°	5.6	4.5	3.4	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°	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1
2.5°	1187.9	1187.9	1186.8	1200.3	1184.5	1200.3	1192.4	1200.3	1189.0	1187.9	1189.0
5°	1196.9	1200.3	1201.5	1213.9	1199.2	1218.4	1211.6	1218.4	1210.5	1212.8	1216.2
7.5°	1215.0	1220.7	1219.6	1235.3	1220.7	1242.1	1237.6	1247.8	1239.8	1242.1	1246.6
10°	1235.3	1242.1	1243.2	1259.1	1245.5	1271.5	1265.8	1277.1	1270.4	1273.8	1279.4
12.5°	1259.1	1267.0	1268.1	1286.1	1271.5	1298.6	1295.2	1306.5	1300.8	1304.2	1311.0
15°	1277.1	1288.4	1290.7	1308.7	1292.9	1321.2	1318.9	1333.6	1324.6	1330.2	1335.8
17.5°	1286.1	1296.3	1300.8	1317.8	1304.2	1332.5	1330.2	1342.6	1335.8	1341.5	1348.3
20°	1280.5	1292.9	1296.3	1313.3	1299.7	1328.0	1324.6	1337.0	1330.2	1334.7	1341.5
22.5°	1260.2	1272.6	1277.1	1292.9	1280.5	1306.5	1305.4	1316.7	1307.6	1313.3	1318.9
25°	1224.1	1237.6	1239.8	1254.5	1241.0	1268.1	1265.8	1278.3	1271.5	1274.9	1282.8
27.5°	1172.1	1187.9	1191.3	1203.7	1193.6	1216.2	1216.2	1226.3	1218.4	1218.4	1226.3
30°	1110.0	1125.8	1128.1	1138.2	1129.2	1149.5	1150.7	1160.8	1148.4	1155.2	1156.3
32.5°	1034.3	1044.5	1051.3	1060.3	1046.8	1072.8	1069.4	1077.3	1070.5	1070.5	1076.1
35°	942.9	955.3	958.7	970.0	958.7	979.0	979.0	983.5	976.7	976.7	985.8
37.5°	843.5	852.6	853.7	865.0	855.9	872.9	871.7	875.1	868.4	872.9	872.9
40°	727.2	734.0	736.2	741.9	740.8	753.2	752.1	754.3	750.9	752.1	754.3
42.5°	591.7	600.7	605.3	609.8	603.0	619.9	616.5	619.9	618.8	619.9	623.3
45°	435.9	442.7	446.0	447.2	444.9	455.1	463.0	456.2	457.3	455.1	459.6
47.5°	315.0	316.2	313.9	320.7	315.0	319.6	321.8	322.9	316.2	315.0	319.6
50°	215.7	221.3	213.4	216.8	215.7	220.2	217.9	219.1	212.3	215.7	213.4
52.5°	143.4	142.3	140.0	141.2	138.9	138.9	138.9	141.2	136.6	134.4	132.1
55°	87.0	84.7	80.2	79.0	79.0	80.2	77.9	75.7	75.7	74.5	74.5
57.5°	50.8	47.4	45.2	44.1	41.8	40.7	39.5	39.5	37.3	37.3	37.3
60°	28.2	24.8	22.6	20.3	20.3	19.2	18.1	16.9	16.9	16.9	15.8
62.5°	14.7	12.4	10.1	9.0	9.0	7.9	6.8	6.8	6.8	6.8	5.6
65°	10.1	7.9	6.8	5.6	5.6	4.5	4.5	4.5	4.5	4.5	4.5
67.5°	7.9	6.8	5.6	4.5	4.5	4.5	3.4	3.4	3.4	3.4	3.4
70°	6.8	4.5	4.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
72.5°	4.5	4.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
75°	3.4	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: P684910

CATALOG NUMBER: LX6C20D010 EX6209050 6LCSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1	1181.1
2.5°	1199.2	1198.1	1199.2	1201.5	1196.9	1210.5	1203.7	1210.5
5°	1225.2	1226.3	1227.5	1230.8	1225.2	1242.1	1233.1	1243.2
7.5°	1259.1	1260.2	1261.3	1264.7	1261.3	1278.3	1268.1	1277.1
10°	1294.1	1296.3	1296.3	1302.0	1298.6	1314.4	1307.6	1318.9
12.5°	1326.8	1329.1	1331.3	1334.7	1332.5	1349.4	1343.7	1352.8
15°	1352.8	1357.3	1358.4	1362.9	1360.7	1378.8	1372.0	1381.0
17.5°	1365.2	1369.7	1369.7	1375.4	1373.1	1392.3	1383.3	1393.4
20°	1358.4	1361.8	1362.9	1368.6	1366.3	1385.5	1376.5	1388.9
22.5°	1337.0	1338.1	1339.2	1344.9	1343.7	1360.7	1352.8	1360.7
25°	1297.4	1300.8	1299.7	1304.2	1304.2	1317.8	1308.7	1315.5
27.5°	1241.0	1244.4	1244.4	1250.0	1245.5	1259.1	1250.0	1260.2
30°	1172.1	1175.5	1173.3	1177.8	1173.3	1186.8	1180.0	1183.4
32.5°	1089.7	1089.7	1090.8	1091.9	1089.7	1102.1	1095.3	1102.1
35°	991.4	993.7	994.8	996.0	993.7	1002.7	994.8	999.3
37.5°	880.8	886.4	885.3	886.4	883.0	894.3	887.5	889.8
40°	762.2	762.2	761.1	763.4	760.0	769.0	764.5	766.7
42.5°	624.4	627.8	623.3	629.0	619.9	632.3	627.8	624.4
45°	468.6	464.1	463.0	464.1	460.7	461.8	465.2	463.0
47.5°	319.6	319.6	317.3	313.9	318.4	319.6	315.0	315.0
50°	214.5	214.5	212.3	211.1	213.4	212.3	210.0	213.4
52.5°	136.6	132.1	132.1	134.4	132.1	129.9	133.3	131.0
55°	74.5	72.3	72.3	74.5	72.3	72.3	71.1	73.4
57.5°	36.1	37.3	36.1	36.1	36.1	36.1	35.0	36.1
60°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
62.5°	6.8	6.8	5.6	5.6	5.6	5.6	5.6	5.6
65°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
67.5°	3.4	3.4	3.4	3.4	3.4	4.5	3.4	3.4
70°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
72.5°	3.4	3.4	4.5	4.5	4.5	4.5	4.5	4.5
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)