

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: P684894

Luminaire Tested: **LX6C20D010 EX6209030 6LCSWLI**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684894  
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 EX6209030 6LCSWLI  
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

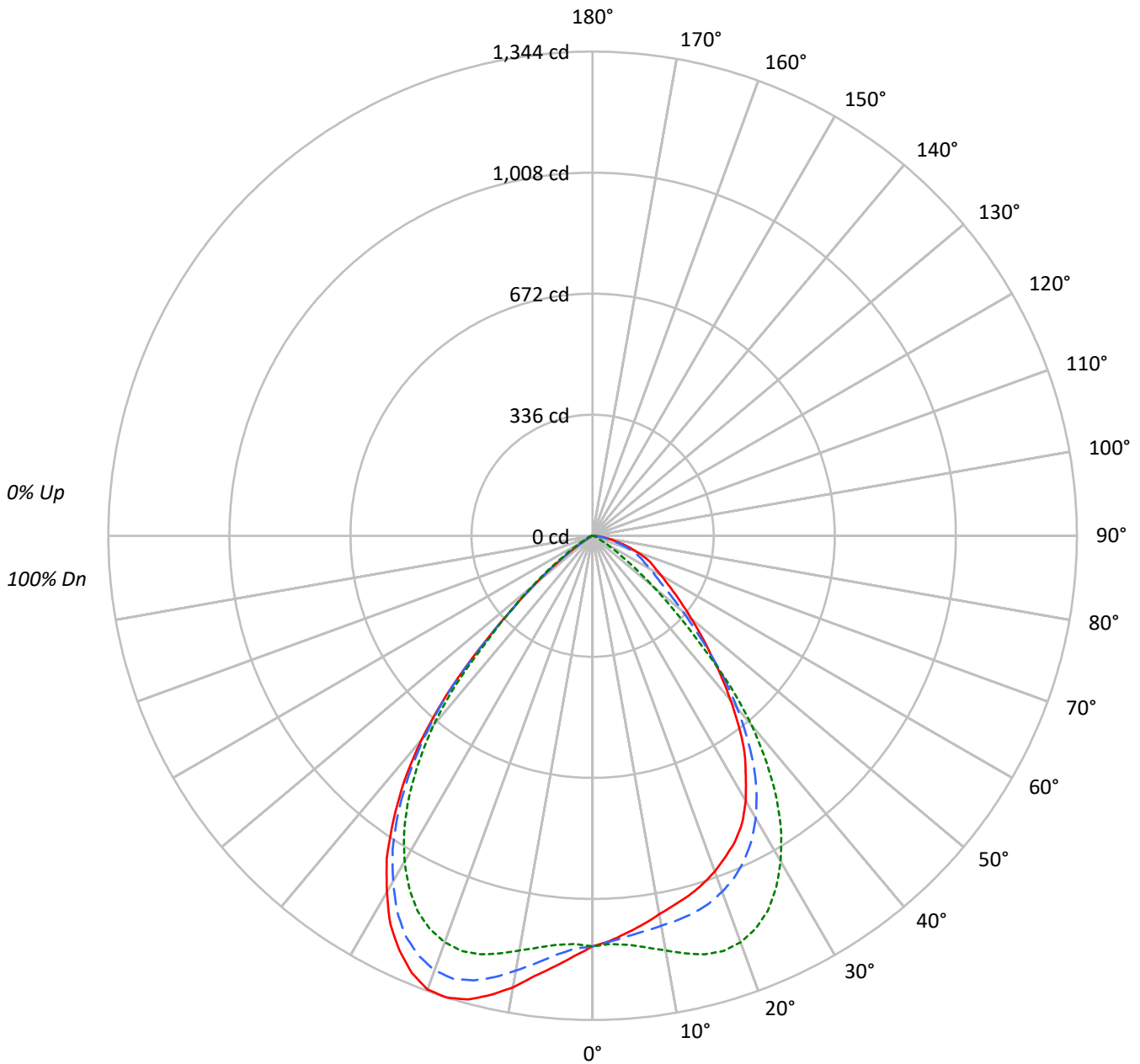
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2083.0 lumens  
Efficiency: N/A  
Efficacy: 95.5 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<sub>in</sub>): 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	100	100	100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90	90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80	80	80	80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72	72	72	72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53	53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48	48	48	48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37	37	37	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	62473	62473	62473
5°	60852	62712	66008
10°	59373	65073	70835
15°	58678	68264	75619
20°	57837	70041	78173
25°	56610	69524	76771
30°	53793	66067	72271
35°	49215	59568	64521
40°	42565	49192	52935
45°	35895	32267	34632
50°	30472	18677	17560
55°	26446	8955	6767
60°	23891	4177	1667
65°	23180	2400	558
70°	20773	1923	529
75°	17072	1398	233
80°	12723	695	0
85°	10944	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.1	5.3
10°-20°	335.5	16.1
20°-30°	512.5	24.6
30°-40°	536.1	25.7
40°-50°	347.8	16.7
50°-60°	138.1	6.6
60°-70°	65.5	3.1
70°-80°	31.2	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°	958.1	46.0
0°-40°	1494.2	71.7
0°-60°	1980.0	95.1
0°-90°	2083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2083.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1140	1140	1140	1140	1140	
5°	1106	1116	1140	1168	1200	104
15°	1034	1084	1203	1278	1332	291
25°	936	995	1149	1227	1269	429
35°	735	780	890	942	964	455
45°	463	459	416	441	447	360
55°	277	235	94	73	71	251
65°	179	148	18	4	4	175
75°	81	65	7	2	1	87
85°	17	11	0	0	0	20
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°	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6
2.5°	1125.4	1127.6	1115.6	1112.3	1121.1	1124.3	1125.4	1122.1	1123.2	1127.6	1127.6
5°	1105.8	1108.0	1097.1	1093.8	1102.5	1104.7	1108.0	1106.9	1110.2	1116.7	1115.6
7.5°	1087.3	1090.6	1078.6	1074.2	1085.1	1090.6	1092.7	1092.7	1097.1	1105.8	1106.9
10°	1066.6	1070.9	1060.0	1057.8	1069.8	1075.3	1076.4	1078.6	1085.1	1097.1	1099.2
12.5°	1049.2	1053.5	1045.9	1042.6	1055.7	1061.1	1063.3	1067.7	1075.3	1090.6	1092.7
15°	1033.9	1037.2	1028.4	1026.3	1039.3	1045.9	1046.9	1053.5	1063.3	1080.7	1084.0
17.5°	1014.3	1016.4	1009.9	1007.8	1020.8	1027.3	1028.4	1036.1	1048.1	1065.5	1070.9
20°	991.4	993.6	987.0	984.9	997.9	1005.5	1006.7	1013.2	1027.3	1045.9	1051.3
22.5°	964.1	968.5	960.9	958.7	971.8	978.3	981.6	987.0	1001.2	1019.7	1027.3
25°	935.9	935.9	930.4	929.3	941.3	948.9	947.8	955.4	969.6	988.1	994.7
27.5°	898.8	897.7	892.2	891.2	904.2	910.8	908.6	916.2	929.3	947.8	954.4
30°	849.8	852.0	844.3	842.1	853.1	864.0	862.8	870.5	883.5	901.0	905.3
32.5°	790.9	793.1	792.0	788.8	798.6	804.0	807.3	812.7	823.6	842.1	846.5
35°	735.4	732.1	727.8	727.8	737.5	746.3	743.0	749.5	760.4	778.9	780.0
37.5°	666.7	665.6	663.5	661.3	672.2	674.4	675.5	679.8	689.6	704.9	702.7
40°	594.8	595.9	594.8	590.5	597.0	605.7	604.6	606.8	615.5	626.4	623.2
42.5°	527.3	527.3	527.3	522.9	530.6	534.9	537.1	536.0	538.2	548.0	543.6
45°	463.0	464.1	463.0	461.9	463.0	465.2	463.0	461.9	461.9	465.2	458.7
47.5°	407.5	407.5	404.2	400.9	404.2	405.3	402.0	398.7	397.6	396.6	385.7
50°	357.3	356.2	355.2	349.7	353.0	354.1	349.7	347.5	343.2	337.7	324.7
52.5°	313.8	312.7	311.6	306.1	308.3	309.4	305.1	300.7	295.2	290.9	274.6
55°	276.7	275.6	275.6	272.4	270.2	272.4	268.0	264.7	257.1	251.7	235.3
57.5°	245.1	245.1	242.9	239.7	240.8	240.8	236.4	232.0	225.5	219.0	205.9
60°	217.9	217.9	217.9	214.6	214.6	214.6	212.4	208.1	202.6	196.1	183.0
62.5°	196.1	196.1	195.0	191.8	192.8	192.8	190.7	186.3	180.9	176.5	163.4
65°	178.7	178.7	178.7	175.4	175.4	176.5	174.3	170.0	165.6	160.1	148.1
67.5°	156.9	155.8	155.8	153.6	154.7	155.8	153.6	150.4	144.9	141.6	130.7
70°	129.6	130.7	131.8	128.6	129.6	129.6	128.6	125.3	122.0	118.7	109.0
72.5°	105.7	105.7	104.6	103.5	103.5	104.6	102.4	99.1	97.0	94.8	87.1
75°	80.6	79.5	80.6	78.5	78.5	78.5	76.2	75.2	74.1	70.8	65.4
77.5°	58.8	57.7	57.7	55.6	56.7	56.7	55.6	53.4	51.2	50.1	45.7
80°	40.3	40.3	40.3	39.2	39.2	38.1	38.1	37.1	34.8	33.8	31.6
82.5°	27.2	27.2	27.2	26.2	26.2	26.2	25.1	24.0	22.9	21.8	19.6
85°	17.4	17.4	17.4	16.3	16.3	16.3	15.2	15.2	14.2	13.1	10.9
87.5°	9.8	9.8	9.8	8.7	8.7	8.7	8.7	8.7	7.6	6.6	5.4
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°	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6
2.5°	1135.2	1120.0	1129.7	1129.7	1126.5	1135.2	1140.7	1145.0	1143.9	1134.1	1133.0
5°	1126.5	1113.4	1124.3	1125.4	1122.1	1134.1	1141.7	1147.2	1148.3	1139.6	1140.7
7.5°	1120.0	1109.1	1123.2	1127.6	1126.5	1137.4	1146.1	1154.8	1159.2	1152.6	1153.7
10°	1116.7	1108.0	1123.2	1129.7	1130.8	1142.8	1155.9	1167.9	1173.4	1169.0	1172.2
12.5°	1112.3	1106.9	1124.3	1134.1	1138.5	1150.5	1166.8	1181.0	1189.7	1187.5	1194.0
15°	1108.0	1103.6	1124.3	1138.5	1143.9	1154.8	1173.4	1194.0	1203.9	1202.8	1211.5
17.5°	1097.1	1096.0	1117.8	1133.0	1140.7	1153.7	1171.1	1196.2	1206.0	1208.2	1219.1
20°	1079.7	1079.7	1103.6	1120.0	1128.7	1140.7	1162.5	1186.4	1198.4	1200.6	1212.6
22.5°	1055.7	1057.8	1080.7	1097.1	1110.2	1118.8	1141.7	1166.8	1177.7	1181.0	1194.0
25°	1024.1	1026.3	1048.1	1064.4	1078.6	1088.3	1110.2	1133.0	1146.1	1149.4	1159.2
27.5°	982.7	987.0	1007.8	1024.1	1036.1	1042.6	1065.5	1089.4	1099.2	1102.5	1112.3
30°	934.7	935.9	956.5	970.7	982.7	988.1	1007.8	1032.8	1040.4	1043.7	1057.8
32.5°	875.9	874.8	894.5	907.5	917.3	923.9	944.5	960.9	968.5	974.0	981.6
35°	805.1	804.0	818.2	833.4	841.1	843.2	864.0	881.4	885.7	890.1	899.9
37.5°	725.6	725.6	737.5	745.2	753.9	757.2	767.0	786.6	794.2	793.1	800.7
40°	641.7	637.3	646.0	653.7	655.9	656.9	666.7	682.0	687.4	687.4	692.9
42.5°	553.4	546.9	548.0	552.3	554.5	546.9	553.4	563.2	560.0	564.3	565.4
45°	459.8	449.9	445.6	435.8	438.0	430.3	426.0	428.1	427.1	416.2	418.4
47.5°	383.5	366.1	358.4	344.3	341.0	332.3	326.8	317.0	308.3	308.3	302.8
50°	319.2	301.8	286.5	270.2	264.7	257.1	245.1	232.0	225.5	219.0	213.5
52.5°	268.0	249.5	230.9	213.5	205.9	196.1	179.8	166.7	154.7	148.1	141.6
55°	226.6	205.9	186.3	167.8	158.0	148.1	131.8	116.6	102.4	93.7	88.2
57.5°	195.0	175.4	154.7	135.1	126.4	115.5	98.1	81.7	68.6	58.8	53.4
60°	172.1	152.5	134.0	113.3	104.6	93.7	75.2	59.9	46.8	38.1	31.6
62.5°	152.5	135.1	115.5	97.0	88.2	77.3	59.9	44.7	32.7	24.0	18.5
65°	138.4	120.9	104.6	86.1	78.5	67.6	51.2	37.1	26.2	18.5	13.1
67.5°	122.0	106.8	90.4	75.2	67.6	58.8	43.6	31.6	21.8	15.2	10.9
70°	102.4	90.4	76.2	62.1	56.7	49.0	36.0	26.2	17.4	12.0	8.7
72.5°	81.7	71.9	61.0	50.1	45.7	38.1	29.4	20.7	13.1	8.7	6.6
75°	62.1	54.5	45.7	38.1	33.8	29.4	21.8	15.2	9.8	6.6	4.3
77.5°	42.5	39.2	32.7	26.2	24.0	20.7	14.2	9.8	6.6	4.3	2.2
80°	29.4	26.2	21.8	17.4	15.2	13.1	8.7	6.6	3.3	2.2	1.1
82.5°	18.5	15.2	13.1	10.9	9.8	7.6	5.4	3.3	2.2	1.1	1.1
85°	9.8	8.7	7.6	5.4	5.4	4.3	3.3	2.2	1.1	0.0	0.0
87.5°	5.4	4.3	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°	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6
2.5°	1146.1	1146.1	1145.0	1158.1	1142.8	1158.1	1150.5	1158.1	1147.2	1146.1	1147.2
5°	1154.8	1158.1	1159.2	1171.1	1157.0	1175.5	1169.0	1175.5	1167.9	1170.1	1173.4
7.5°	1172.2	1177.7	1176.6	1191.9	1177.7	1198.4	1194.0	1203.9	1196.2	1198.4	1202.8
10°	1191.9	1198.4	1199.5	1214.7	1201.6	1226.7	1221.3	1232.2	1225.6	1228.9	1234.4
12.5°	1214.7	1222.4	1223.5	1240.9	1226.7	1252.9	1249.6	1260.5	1255.0	1258.3	1264.9
15°	1232.2	1243.0	1245.3	1262.7	1247.4	1274.7	1272.5	1286.7	1277.9	1283.4	1288.8
17.5°	1240.9	1250.7	1255.0	1271.4	1258.3	1285.5	1283.4	1295.4	1288.8	1294.3	1300.8
20°	1235.4	1247.4	1250.7	1267.0	1254.0	1281.2	1277.9	1289.9	1283.4	1287.7	1294.3
22.5°	1215.8	1227.8	1232.2	1247.4	1235.4	1260.5	1259.4	1270.3	1261.6	1267.0	1272.5
25°	1181.0	1194.0	1196.2	1210.4	1197.3	1223.5	1221.3	1233.3	1226.7	1230.0	1237.6
27.5°	1130.8	1146.1	1149.4	1161.4	1151.6	1173.4	1173.4	1183.1	1175.5	1175.5	1183.1
30°	1070.9	1086.2	1088.3	1098.2	1089.4	1109.1	1110.2	1120.0	1108.0	1114.5	1115.6
32.5°	997.9	1007.8	1014.3	1023.0	1009.9	1035.0	1031.7	1039.3	1032.8	1032.8	1038.3
35°	909.7	921.7	925.0	935.9	925.0	944.5	944.5	948.9	942.4	942.4	951.1
37.5°	813.8	822.6	823.6	834.5	825.8	842.1	841.1	844.3	837.8	842.1	842.1
40°	701.6	708.1	710.3	715.8	714.7	726.7	725.6	727.8	724.5	725.6	727.8
42.5°	570.9	579.6	584.0	588.3	581.8	598.1	594.8	598.1	597.0	598.1	601.4
45°	420.5	427.1	430.3	431.4	429.3	439.0	446.7	440.1	441.2	439.0	443.4
47.5°	304.0	305.1	302.8	309.4	304.0	308.3	310.5	311.6	305.1	304.0	308.3
50°	208.1	213.5	205.9	209.2	208.1	212.4	210.3	211.4	204.8	208.1	205.9
52.5°	138.4	137.3	135.1	136.2	134.0	134.0	134.0	136.2	131.8	129.6	127.5
55°	83.9	81.7	77.3	76.2	76.2	77.3	75.2	73.0	73.0	71.9	71.9
57.5°	49.0	45.7	43.6	42.5	40.3	39.2	38.1	38.1	36.0	36.0	36.0
60°	27.2	24.0	21.8	19.6	19.6	18.5	17.4	16.3	16.3	16.3	15.2
62.5°	14.2	12.0	9.8	8.7	8.7	7.6	6.6	6.6	6.6	6.6	5.4
65°	9.8	7.6	6.6	5.4	5.4	4.3	4.3	4.3	4.3	4.3	4.3
67.5°	7.6	6.6	5.4	4.3	4.3	4.3	3.3	3.3	3.3	3.3	3.3
70°	6.6	4.3	4.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
72.5°	4.3	4.3	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: P684894

CATALOG NUMBER: LX6C20D010 EX6209030 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6	1139.6
2.5°	1157.0	1155.9	1157.0	1159.2	1154.8	1167.9	1161.4	1167.9
5°	1182.1	1183.1	1184.2	1187.5	1182.1	1198.4	1189.7	1199.5
7.5°	1214.7	1215.8	1216.9	1220.2	1216.9	1233.3	1223.5	1232.2
10°	1248.5	1250.7	1250.7	1256.1	1252.9	1268.1	1261.6	1272.5
12.5°	1280.1	1282.3	1284.5	1287.7	1285.5	1301.9	1296.4	1305.2
15°	1305.2	1309.5	1310.6	1314.9	1312.8	1330.2	1323.7	1332.4
17.5°	1317.2	1321.5	1321.5	1326.9	1324.8	1343.3	1334.6	1344.4
20°	1310.6	1313.9	1314.9	1320.4	1318.2	1336.8	1328.0	1340.0
22.5°	1289.9	1291.0	1292.1	1297.5	1296.4	1312.8	1305.2	1312.8
25°	1251.8	1255.0	1254.0	1258.3	1258.3	1271.4	1262.7	1269.2
27.5°	1197.3	1200.6	1200.6	1206.0	1201.6	1214.7	1206.0	1215.8
30°	1130.8	1134.1	1132.0	1136.3	1132.0	1145.0	1138.5	1141.7
32.5°	1051.3	1051.3	1052.4	1053.5	1051.3	1063.3	1056.8	1063.3
35°	956.5	958.7	959.8	960.9	958.7	967.4	959.8	964.1
37.5°	849.8	855.2	854.1	855.2	852.0	862.8	856.3	858.5
40°	735.4	735.4	734.3	736.5	733.2	741.9	737.5	739.7
42.5°	602.5	605.7	601.4	606.8	598.1	610.1	605.7	602.5
45°	452.1	447.8	446.7	447.8	444.5	445.6	448.9	446.7
47.5°	308.3	308.3	306.1	302.8	307.2	308.3	304.0	304.0
50°	207.0	207.0	204.8	203.7	205.9	204.8	202.6	205.9
52.5°	131.8	127.5	127.5	129.6	127.5	125.3	128.6	126.4
55°	71.9	69.7	69.7	71.9	69.7	69.7	68.6	70.8
57.5°	34.8	36.0	34.8	34.8	34.8	34.8	33.8	34.8
60°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
62.5°	6.6	6.6	5.4	5.4	5.4	5.4	5.4	5.4
65°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
67.5°	3.3	3.3	3.3	3.3	3.3	4.3	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	4.3	4.3	4.3	4.3	4.3	4.3
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)