

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: P684889

Luminaire Tested: **LX6C20D010 EX6209027 6LCSWLI**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684889  
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 EX6209027 6LCSWLI  
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

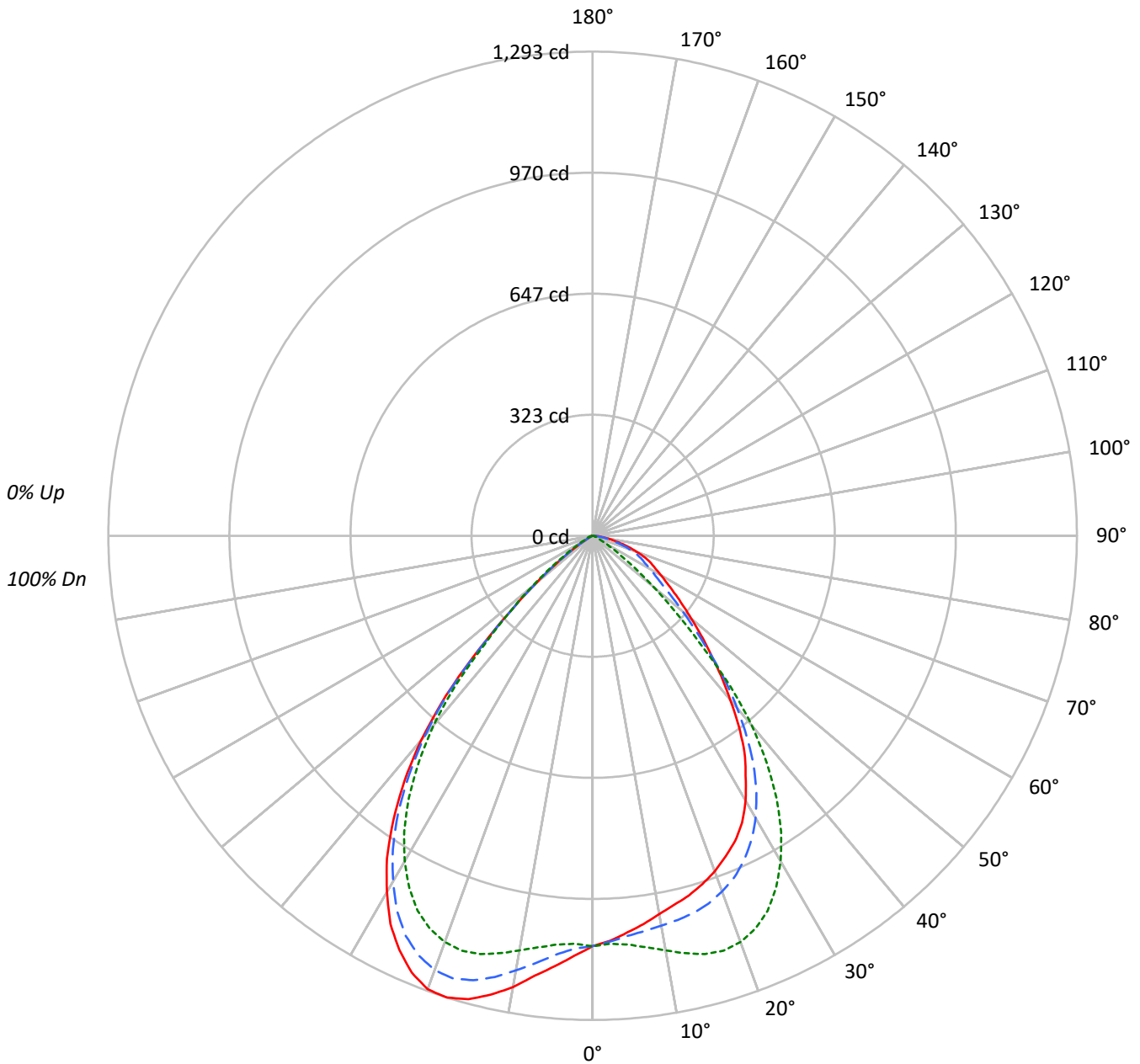
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2003.0 lumens  
Efficiency: N/A  
Efficacy: 91.9 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<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			
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°	60072	60072	60072
5°	58513	60301	63471
10°	57091	62574	68113
15°	56425	65642	72713
20°	55614	67352	75169
25°	54433	66851	73825
30°	51723	63529	69498
35°	47321	57279	62044
40°	40934	47303	50903
45°	34523	31026	33298
50°	29304	17961	16886
55°	25433	8611	6509
60°	22970	4024	1601
65°	22285	2309	545
70°	19987	1843	497
75°	16415	1334	233
80°	12217	663	0
85°	10567	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.8	5.3
10°-20°	322.6	16.1
20°-30°	492.9	24.6
30°-40°	515.5	25.7
40°-50°	334.4	16.7
50°-60°	132.8	6.6
60°-70°	63.0	3.1
70°-80°	30.0	1.5
80°-90°	6.1	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°	921.3	46.0
0°-40°	1436.8	71.7
0°-60°	1904.0	95.1
0°-90°	2003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2003.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1096	1096	1096	1096	1096	
5°	1063	1073	1096	1123	1153	100
15°	994	1042	1157	1229	1281	280
25°	900	956	1105	1180	1220	412
35°	707	750	856	906	927	437
45°	445	441	400	424	430	346
55°	266	226	90	70	68	241
65°	172	142	18	4	4	168
75°	78	63	6	2	1	84
85°	17	10	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°	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8
2.5°	1082.2	1084.3	1072.8	1069.6	1078.0	1081.1	1082.2	1079.0	1080.1	1084.3	1084.3
5°	1063.3	1065.4	1054.9	1051.8	1060.2	1062.3	1065.4	1064.4	1067.5	1073.8	1072.8
7.5°	1045.5	1048.7	1037.1	1033.0	1043.4	1048.7	1050.8	1050.8	1054.9	1063.3	1064.4
10°	1025.6	1029.8	1019.3	1017.2	1028.7	1034.0	1035.0	1037.1	1043.4	1054.9	1057.0
12.5°	1008.9	1013.0	1005.7	1002.6	1015.1	1020.4	1022.4	1026.7	1034.0	1048.7	1050.8
15°	994.2	997.3	988.9	986.9	999.4	1005.7	1006.7	1013.0	1022.4	1039.2	1042.4
17.5°	975.3	977.4	971.1	969.1	981.6	987.9	988.9	996.3	1007.8	1024.6	1029.8
20°	953.3	955.4	949.1	947.0	959.6	966.9	968.0	974.3	987.9	1005.7	1010.9
22.5°	927.1	931.3	924.0	921.9	934.5	940.7	943.9	949.1	962.8	980.6	987.9
25°	899.9	899.9	894.7	893.6	905.1	912.5	911.4	918.7	932.4	950.2	956.5
27.5°	864.3	863.2	858.0	857.0	869.5	875.8	873.7	881.1	893.6	911.4	917.7
30°	817.1	819.2	811.9	809.8	820.3	830.8	829.7	837.0	849.6	866.4	870.6
32.5°	760.6	762.7	761.6	758.5	767.9	773.1	776.3	781.5	792.0	809.8	814.0
35°	707.1	704.0	699.8	699.8	709.2	717.6	714.5	720.8	731.2	749.0	750.1
37.5°	641.1	640.1	638.0	635.9	646.4	648.5	649.5	653.7	663.2	677.8	675.7
40°	572.0	573.0	572.0	567.8	574.1	582.5	581.4	583.5	591.9	602.4	599.2
42.5°	507.0	507.0	507.0	502.9	510.2	514.4	516.5	515.4	517.5	527.0	522.7
45°	445.3	446.3	445.3	444.2	445.3	447.3	445.3	444.2	444.2	447.3	441.0
47.5°	391.8	391.8	388.7	385.5	388.7	389.7	386.6	383.4	382.4	381.3	370.9
50°	343.6	342.6	341.5	336.3	339.4	340.5	336.3	334.2	330.0	324.8	312.2
52.5°	301.7	300.7	299.6	294.4	296.5	297.5	293.3	289.1	283.9	279.7	264.0
55°	266.1	265.0	265.0	261.9	259.8	261.9	257.7	254.6	247.2	242.0	226.3
57.5°	235.7	235.7	233.6	230.5	231.5	231.5	227.4	223.1	216.8	210.6	198.0
60°	209.5	209.5	209.5	206.4	206.4	206.4	204.3	200.1	194.9	188.6	176.0
62.5°	188.6	188.6	187.5	184.4	185.4	185.4	183.3	179.2	173.9	169.7	157.1
65°	171.8	171.8	171.8	168.7	168.7	169.7	167.6	163.4	159.2	154.0	142.5
67.5°	150.8	149.8	149.8	147.7	148.8	149.8	147.7	144.6	139.3	136.2	125.7
70°	124.7	125.7	126.7	123.6	124.7	124.7	123.6	120.5	117.3	114.2	104.8
72.5°	101.6	101.6	100.6	99.5	99.5	100.6	98.5	95.3	93.2	91.2	83.8
75°	77.5	76.5	77.5	75.4	75.4	75.4	73.3	72.3	71.2	68.1	62.8
77.5°	56.6	55.5	55.5	53.4	54.5	54.5	53.4	51.3	49.2	48.2	44.0
80°	38.7	38.7	38.7	37.7	37.7	36.7	36.7	35.6	33.5	32.5	30.4
82.5°	26.2	26.2	26.2	25.2	25.2	25.2	24.1	23.0	22.0	20.9	18.9
85°	16.8	16.8	16.8	15.7	15.7	15.7	14.6	14.6	13.6	12.6	10.5
87.5°	9.4	9.4	9.4	8.4	8.4	8.4	8.4	8.4	7.3	6.3	5.2
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°	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8
2.5°	1091.6	1076.9	1086.4	1086.4	1083.2	1091.6	1096.9	1101.0	1100.0	1090.6	1089.5
5°	1083.2	1070.6	1081.1	1082.2	1079.0	1090.6	1097.9	1103.1	1104.2	1095.8	1096.9
7.5°	1076.9	1066.5	1080.1	1084.3	1083.2	1093.7	1102.1	1110.4	1114.7	1108.4	1109.4
10°	1073.8	1065.4	1080.1	1086.4	1087.4	1099.0	1111.5	1123.0	1128.3	1124.1	1127.2
12.5°	1069.6	1064.4	1081.1	1090.6	1094.7	1106.3	1122.0	1135.6	1144.0	1141.9	1148.2
15°	1065.4	1061.2	1081.1	1094.7	1100.0	1110.4	1128.3	1148.2	1157.6	1156.6	1164.9
17.5°	1054.9	1053.9	1074.9	1089.5	1096.9	1109.4	1126.2	1150.3	1159.7	1161.8	1172.3
20°	1038.2	1038.2	1061.2	1076.9	1085.3	1096.9	1117.8	1140.8	1152.4	1154.5	1166.0
22.5°	1015.1	1017.2	1039.2	1054.9	1067.5	1075.9	1097.9	1122.0	1132.5	1135.6	1148.2
25°	984.8	986.9	1007.8	1023.5	1037.1	1046.5	1067.5	1089.5	1102.1	1105.2	1114.7
27.5°	945.0	949.1	969.1	984.8	996.3	1002.6	1024.6	1047.6	1057.0	1060.2	1069.6
30°	898.8	899.9	919.8	933.4	945.0	950.2	969.1	993.2	1000.5	1003.6	1017.2
32.5°	842.3	841.2	860.1	872.7	882.1	888.4	908.3	924.0	931.3	936.6	943.9
35°	774.2	773.1	786.7	801.4	808.8	810.8	830.8	847.5	851.7	855.9	865.3
37.5°	697.7	697.7	709.2	716.6	724.9	728.1	737.5	756.4	763.7	762.7	770.0
40°	617.0	612.9	621.2	628.6	630.7	631.7	641.1	655.8	661.0	661.0	666.3
42.5°	532.2	525.9	527.0	531.1	533.2	525.9	532.2	541.6	538.5	542.7	543.7
45°	442.1	432.7	428.5	419.0	421.2	413.8	409.6	411.7	410.7	400.2	402.3
47.5°	368.7	352.0	344.6	331.1	327.9	319.5	314.3	304.8	296.5	296.5	291.2
50°	307.0	290.2	275.5	259.8	254.6	247.2	235.7	223.1	216.8	210.6	205.3
52.5°	257.7	239.9	222.1	205.3	198.0	188.6	172.9	160.3	148.8	142.5	136.2
55°	217.9	198.0	179.2	161.3	151.9	142.5	126.7	112.1	98.5	90.1	84.9
57.5°	187.5	168.7	148.8	129.9	121.5	111.0	94.3	78.6	66.0	56.6	51.3
60°	165.5	146.7	128.9	109.0	100.6	90.1	72.3	57.6	45.0	36.7	30.4
62.5°	146.7	129.9	111.0	93.2	84.9	74.4	57.6	43.0	31.4	23.0	17.8
65°	133.0	116.3	100.6	82.8	75.4	65.0	49.2	35.6	25.2	17.8	12.6
67.5°	117.3	102.7	86.9	72.3	65.0	56.6	41.9	30.4	20.9	14.6	10.5
70°	98.5	86.9	73.3	59.7	54.5	47.1	34.6	25.2	16.8	11.5	8.4
72.5°	78.6	69.1	58.7	48.2	44.0	36.7	28.3	19.9	12.6	8.4	6.3
75°	59.7	52.4	44.0	36.7	32.5	28.3	20.9	14.6	9.4	6.3	4.2
77.5°	40.9	37.7	31.4	25.2	23.0	19.9	13.6	9.4	6.3	4.2	2.1
80°	28.3	25.2	20.9	16.8	14.6	12.6	8.4	6.3	3.1	2.1	1.1
82.5°	17.8	14.6	12.6	10.5	9.4	7.3	5.2	3.1	2.1	1.1	1.1
85°	9.4	8.4	7.3	5.2	5.2	4.2	3.1	2.1	1.1	0.0	0.0
87.5°	5.2	4.2	3.1	2.1	2.1	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°	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8
2.5°	1102.1	1102.1	1101.0	1113.6	1099.0	1113.6	1106.3	1113.6	1103.1	1102.1	1103.1
5°	1110.4	1113.6	1114.7	1126.2	1112.6	1130.4	1124.1	1130.4	1123.0	1125.1	1128.3
7.5°	1127.2	1132.5	1131.4	1146.1	1132.5	1152.4	1148.2	1157.6	1150.3	1152.4	1156.6
10°	1146.1	1152.4	1153.4	1168.1	1155.5	1179.6	1174.4	1184.8	1178.6	1181.7	1187.0
12.5°	1168.1	1175.4	1176.5	1193.2	1179.6	1204.8	1201.6	1212.1	1206.8	1210.0	1216.3
15°	1184.8	1195.3	1197.4	1214.2	1199.5	1225.7	1223.6	1237.2	1228.8	1234.1	1239.3
17.5°	1193.2	1202.7	1206.8	1222.5	1210.0	1236.2	1234.1	1245.6	1239.3	1244.6	1250.9
20°	1188.0	1199.5	1202.7	1218.4	1205.8	1232.0	1228.8	1240.4	1234.1	1238.3	1244.6
22.5°	1169.1	1180.7	1184.8	1199.5	1188.0	1212.1	1211.1	1221.5	1213.1	1218.4	1223.6
25°	1135.6	1148.2	1150.3	1163.9	1151.3	1176.5	1174.4	1185.9	1179.6	1182.7	1190.1
27.5°	1087.4	1102.1	1105.2	1116.7	1107.3	1128.3	1128.3	1137.7	1130.4	1130.4	1137.7
30°	1029.8	1044.5	1046.5	1056.0	1047.6	1066.5	1067.5	1076.9	1065.4	1071.7	1072.8
32.5°	959.6	969.1	975.3	983.7	971.1	995.2	992.1	999.4	993.2	993.2	998.4
35°	874.8	886.3	889.4	899.9	889.4	908.3	908.3	912.5	906.2	906.2	914.6
37.5°	782.6	791.0	792.0	802.5	794.1	809.8	808.8	811.9	805.6	809.8	809.8
40°	674.6	680.9	683.0	688.3	687.2	698.7	697.7	699.8	696.7	697.7	699.8
42.5°	549.0	557.3	561.5	565.7	559.4	575.1	572.0	575.1	574.1	575.1	578.3
45°	404.4	410.7	413.8	414.9	412.8	422.2	429.5	423.2	424.3	422.2	426.4
47.5°	292.3	293.3	291.2	297.5	292.3	296.5	298.6	299.6	293.3	292.3	296.5
50°	200.1	205.3	198.0	201.1	200.1	204.3	202.2	203.3	197.0	200.1	198.0
52.5°	133.0	132.0	129.9	131.0	128.9	128.9	128.9	131.0	126.7	124.7	122.6
55°	80.7	78.6	74.4	73.3	73.3	74.4	72.3	70.2	70.2	69.1	69.1
57.5°	47.1	44.0	41.9	40.9	38.7	37.7	36.7	36.7	34.6	34.6	34.6
60°	26.2	23.0	20.9	18.9	18.9	17.8	16.8	15.7	15.7	15.7	14.6
62.5°	13.6	11.5	9.4	8.4	8.4	7.3	6.3	6.3	6.3	6.3	5.2
65°	9.4	7.3	6.3	5.2	5.2	4.2	4.2	4.2	4.2	4.2	4.2
67.5°	7.3	6.3	5.2	4.2	4.2	4.2	3.1	3.1	3.1	3.1	3.1
70°	6.3	4.2	4.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
72.5°	4.2	4.2	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
75°	3.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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: P684889

CATALOG NUMBER: LX6C20D010 EX6209027 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8	1095.8
2.5°	1112.6	1111.5	1112.6	1114.7	1110.4	1123.0	1116.7	1123.0
5°	1136.7	1137.7	1138.8	1141.9	1136.7	1152.4	1144.0	1153.4
7.5°	1168.1	1169.1	1170.2	1173.3	1170.2	1185.9	1176.5	1184.8
10°	1200.6	1202.7	1202.7	1207.9	1204.8	1219.4	1213.1	1223.6
12.5°	1230.9	1233.0	1235.1	1238.3	1236.2	1251.9	1246.6	1255.0
15°	1255.0	1259.2	1260.3	1264.4	1262.4	1279.1	1272.8	1281.2
17.5°	1266.6	1270.7	1270.7	1276.0	1273.9	1291.7	1283.3	1292.8
20°	1260.3	1263.4	1264.4	1269.7	1267.6	1285.4	1277.0	1288.5
22.5°	1240.4	1241.4	1242.5	1247.7	1246.6	1262.4	1255.0	1262.4
25°	1203.7	1206.8	1205.8	1210.0	1210.0	1222.5	1214.2	1220.5
27.5°	1151.3	1154.5	1154.5	1159.7	1155.5	1168.1	1159.7	1169.1
30°	1087.4	1090.6	1088.5	1092.7	1088.5	1101.0	1094.7	1097.9
32.5°	1010.9	1010.9	1012.0	1013.0	1010.9	1022.4	1016.2	1022.4
35°	919.8	921.9	922.9	924.0	921.9	930.3	922.9	927.1
37.5°	817.1	822.4	821.3	822.4	819.2	829.7	823.4	825.5
40°	707.1	707.1	706.1	708.2	705.0	713.4	709.2	711.3
42.5°	579.3	582.5	578.3	583.5	575.1	586.6	582.5	579.3
45°	434.8	430.6	429.5	430.6	427.4	428.5	431.6	429.5
47.5°	296.5	296.5	294.4	291.2	295.4	296.5	292.3	292.3
50°	199.0	199.0	197.0	195.9	198.0	197.0	194.9	198.0
52.5°	126.7	122.6	122.6	124.7	122.6	120.5	123.6	121.5
55°	69.1	67.1	67.1	69.1	67.1	67.1	66.0	68.1
57.5°	33.5	34.6	33.5	33.5	33.5	33.5	32.5	33.5
60°	14.6	14.6	14.6	14.6	14.6	14.6	14.6	14.6
62.5°	6.3	6.3	5.2	5.2	5.2	5.2	5.2	5.2
65°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
67.5°	3.1	3.1	3.1	3.1	3.1	4.2	3.1	3.1
70°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
72.5°	3.1	3.1	4.2	4.2	4.2	4.2	4.2	4.2
75°	2.1	2.1	2.1	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)