

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: P684130

Luminaire Tested: **LX6C20D010 EX6C209730 6LCSWH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684130  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C20D010 EX6C209730 6LCSWH  
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

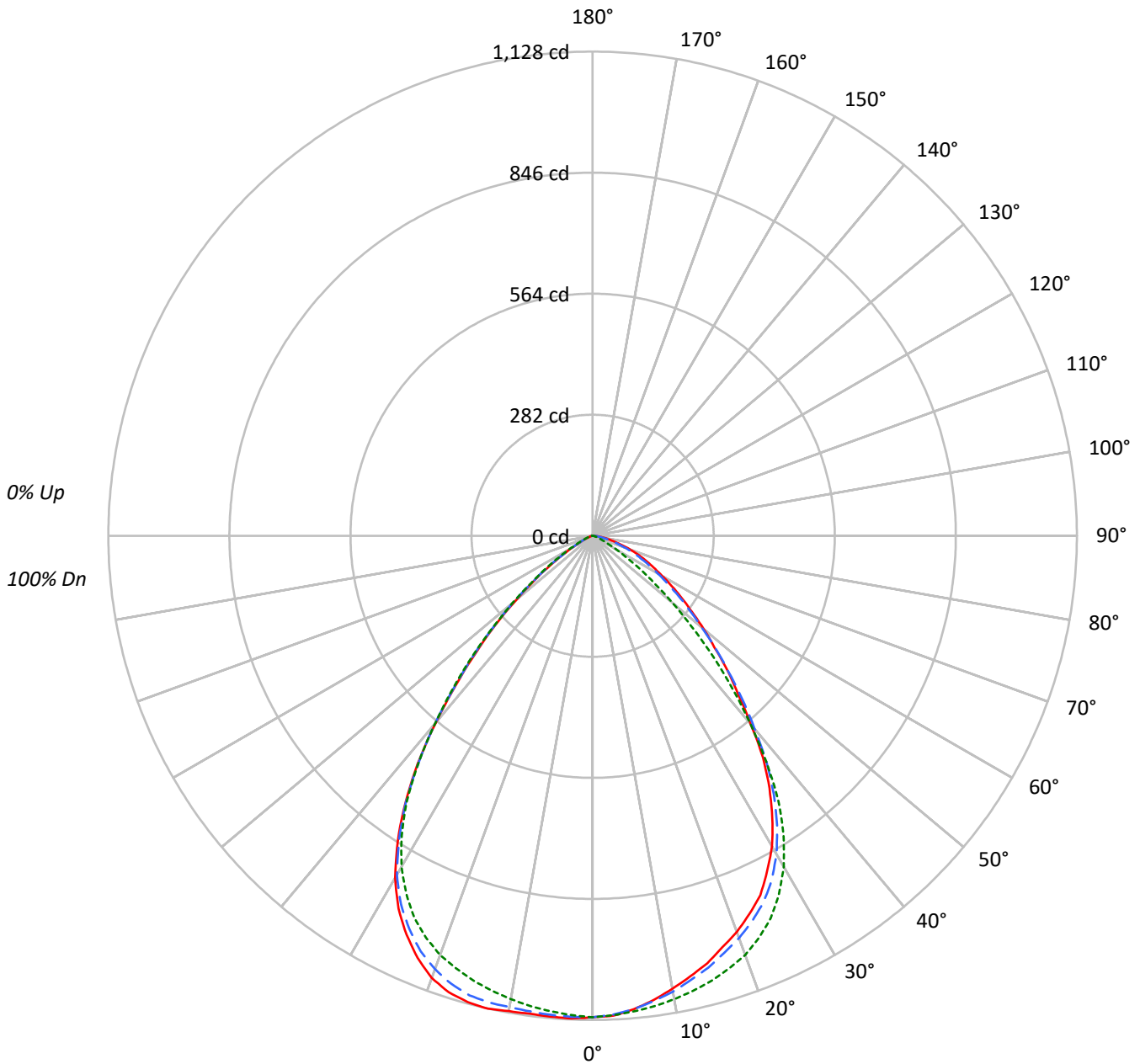
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1882.0 lumens  
Efficiency: N/A  
Efficacy: 86.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
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									
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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

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

	0°	90°	180°
0°	61497	61497	61497
5°	60912	61209	61881
10°	59657	61010	62596
15°	58513	60897	63820
20°	57300	60619	63939
25°	55890	59411	62036
30°	52913	56344	58230
35°	48057	50500	50955
40°	41013	40819	40626
45°	34453	30561	29623
50°	28775	20682	19641
55°	24219	12692	11526
60°	20503	6688	5789
65°	17745	3515	2815
70°	14762	2180	1523
75°	10908	1440	868
80°	8555	852	442
85°	6856	881	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.7	5.6
10°-20°	302.7	16.1
20°-30°	447.0	23.8
30°-40°	460.7	24.5
40°-50°	318.2	16.9
50°-60°	156.8	8.3
60°-70°	63.6	3.4
70°-80°	22.7	1.2
80°-90°	4.7	0.2
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°	855.4	45.5
0°-40°	1316.1	69.9
0°-60°	1791.1	95.2
0°-90°	1882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1882.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1122	1122	1122	1122	1122	
5°	1107	1107	1112	1120	1124	105
15°	1031	1042	1073	1108	1124	290
25°	924	942	982	1011	1026	422
35°	718	736	755	759	761	445
45°	444	447	394	389	382	344
55°	253	244	133	125	121	229
65°	137	123	27	22	22	136
75°	52	43	7	4	4	58
85°	11	8	1	0	0	13
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°	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8
2.5°	1119.1	1115.0	1117.7	1112.3	1119.1	1112.3	1113.7	1115.0	1113.7	1115.0	1116.4
5°	1106.9	1102.8	1106.9	1100.1	1106.9	1102.8	1102.8	1104.2	1104.2	1105.5	1106.9
7.5°	1090.6	1086.6	1090.6	1083.9	1092.0	1087.9	1087.9	1090.6	1089.3	1090.6	1093.3
10°	1071.7	1066.2	1070.3	1066.2	1074.4	1068.9	1071.7	1071.7	1071.7	1075.7	1078.5
12.5°	1051.3	1045.9	1051.3	1044.6	1052.7	1048.6	1050.0	1054.0	1055.4	1058.1	1059.4
15°	1031.0	1024.2	1026.9	1022.9	1031.0	1026.9	1028.3	1033.7	1033.7	1037.8	1041.9
17.5°	1005.3	999.8	1005.3	999.8	1006.6	1003.9	1006.6	1010.7	1010.7	1014.8	1018.8
20°	982.2	976.8	980.9	976.8	985.0	980.9	982.2	987.7	989.0	993.1	997.1
22.5°	953.8	949.7	952.4	948.4	956.5	953.8	955.2	960.6	961.9	964.6	971.4
25°	924.0	915.8	919.9	917.2	925.4	921.3	924.0	929.4	932.1	936.2	941.6
27.5°	880.6	876.5	879.2	879.2	886.0	882.0	883.3	888.8	892.8	896.9	903.7
30°	835.9	829.2	831.9	833.2	838.6	835.9	838.6	844.0	845.4	850.8	856.2
32.5°	779.0	776.3	781.7	779.0	781.7	781.7	783.1	787.1	789.8	792.6	799.4
35°	718.1	712.7	718.1	715.4	722.1	718.1	722.1	726.2	726.2	731.6	735.7
37.5°	651.7	644.9	647.6	647.6	650.3	649.0	649.0	655.7	657.1	661.1	665.2
40°	573.1	570.4	575.8	574.4	575.8	575.8	577.1	581.2	583.9	585.3	586.7
42.5°	502.6	504.0	505.3	505.3	505.3	505.3	505.3	510.7	509.4	513.5	514.8
45°	444.4	439.0	441.7	440.3	444.4	440.3	444.4	448.4	445.7	449.8	447.1
47.5°	384.8	384.8	384.8	383.4	386.1	384.8	387.5	388.8	388.8	388.8	387.5
50°	337.4	333.3	334.6	334.6	336.0	334.6	337.4	338.7	338.7	336.0	330.6
52.5°	291.3	289.9	289.9	292.6	292.6	291.3	291.3	291.3	291.3	287.2	284.5
55°	253.4	250.7	252.0	252.0	252.0	252.0	253.4	252.0	252.0	247.9	243.9
57.5°	219.5	216.8	216.8	216.8	218.1	216.8	216.8	216.8	215.4	211.3	205.9
60°	187.0	185.6	187.0	187.0	188.3	187.0	187.0	187.0	184.3	180.2	174.7
62.5°	159.9	159.9	159.9	161.2	161.2	159.9	159.9	158.5	157.2	151.7	146.3
65°	136.8	135.5	136.8	136.8	138.2	138.2	136.8	135.5	134.1	128.7	123.3
67.5°	113.8	112.4	113.8	113.8	115.1	113.8	113.8	113.8	109.7	107.0	101.6
70°	92.1	90.8	90.8	90.8	92.1	89.4	90.8	90.8	88.1	84.0	78.6
72.5°	70.5	70.5	70.5	70.5	70.5	70.5	69.1	69.1	66.4	62.3	59.6
75°	51.5	51.5	52.8	52.8	51.5	51.5	51.5	50.1	48.8	46.1	43.4
77.5°	38.0	38.0	38.0	38.0	36.6	36.6	36.6	35.2	33.9	32.5	29.8
80°	27.1	27.1	27.1	25.7	27.1	25.7	25.7	25.7	23.0	21.7	20.3
82.5°	19.0	17.6	17.6	17.6	17.6	17.6	17.6	16.3	16.3	14.9	13.6
85°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	9.5	8.2	8.2
87.5°	5.4	6.8	6.8	6.8	6.8	6.8	6.8	5.4	5.4	5.4	4.1
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°	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8
2.5°	1116.4	1116.4	1119.1	1115.0	1121.8	1117.7	1116.4	1123.1	1119.1	1117.7	1120.4
5°	1106.9	1108.3	1109.6	1106.9	1113.7	1109.6	1109.6	1116.4	1113.7	1112.3	1116.4
7.5°	1094.7	1096.0	1098.7	1097.4	1102.8	1100.1	1101.5	1108.3	1105.5	1105.5	1109.6
10°	1079.8	1082.5	1085.2	1085.2	1092.0	1089.3	1089.3	1097.4	1094.7	1096.0	1101.5
12.5°	1062.1	1066.2	1070.3	1071.7	1078.5	1074.4	1075.7	1085.2	1083.9	1085.2	1090.6
15°	1043.2	1048.6	1052.7	1052.7	1060.8	1056.7	1060.8	1070.3	1067.6	1073.0	1079.8
17.5°	1021.5	1026.9	1032.3	1033.7	1041.9	1039.1	1044.6	1054.0	1054.0	1056.7	1064.9
20°	1001.2	1008.0	1010.7	1014.8	1022.9	1021.5	1024.2	1035.1	1035.1	1039.1	1047.3
22.5°	974.1	980.9	986.3	990.4	997.1	997.1	1001.2	1010.7	1010.7	1013.4	1021.5
25°	944.3	952.4	956.5	960.6	967.3	966.0	970.0	978.2	979.5	982.2	990.4
27.5°	906.4	913.1	918.6	921.3	930.8	925.4	929.4	938.9	937.5	940.2	947.0
30°	859.0	865.7	871.1	871.1	879.2	879.2	883.3	887.4	887.4	890.1	895.6
32.5°	803.4	811.5	811.5	815.6	821.0	815.6	821.0	826.4	823.7	827.8	831.9
35°	739.7	743.8	745.2	745.2	749.2	747.9	746.5	750.6	747.9	754.6	758.7
37.5°	662.5	667.9	665.2	667.9	666.5	662.5	662.5	669.3	663.8	665.2	669.3
40°	588.0	588.0	586.7	579.9	581.2	577.1	575.8	577.1	571.7	570.4	575.8
42.5°	510.7	509.4	505.3	495.9	497.2	490.4	485.0	485.0	482.3	480.9	482.3
45°	441.7	437.6	430.8	420.0	417.3	411.9	401.0	398.3	394.2	394.2	395.6
47.5°	378.0	372.6	361.7	349.5	342.8	336.0	325.1	321.1	314.3	311.6	314.3
50°	325.1	315.7	302.1	284.5	277.7	269.6	258.8	252.0	245.2	242.5	241.1
52.5°	276.4	262.8	249.3	227.6	222.2	214.1	199.2	192.4	185.6	180.2	180.2
55°	234.4	222.2	203.2	182.9	174.7	166.6	151.7	142.2	135.5	132.8	130.1
57.5°	196.5	182.9	165.3	143.6	135.5	127.4	112.4	103.0	96.2	92.1	89.4
60°	165.3	150.4	132.8	113.8	104.3	96.2	81.3	71.8	65.0	61.0	58.2
62.5°	135.5	123.3	105.7	88.1	79.9	71.8	59.6	50.1	43.4	40.7	36.6
65°	113.8	101.6	85.3	70.5	63.7	55.5	44.7	36.6	31.2	27.1	24.4
67.5°	92.1	82.6	69.1	55.5	48.8	43.4	33.9	27.1	21.7	19.0	17.6
70°	73.2	63.7	52.8	42.0	38.0	32.5	25.7	19.0	16.3	13.6	12.2
72.5°	54.2	47.4	39.3	31.2	27.1	24.4	17.6	14.9	10.9	9.5	8.2
75°	39.3	33.9	28.4	21.7	19.0	17.6	13.6	9.5	8.2	6.8	5.4
77.5°	27.1	24.4	19.0	14.9	13.6	12.2	9.5	6.8	5.4	4.1	4.1
80°	17.6	14.9	12.2	9.5	9.5	8.2	5.4	4.1	4.1	2.7	2.7
82.5°	10.9	9.5	8.2	6.8	5.4	5.4	4.1	2.7	2.7	1.4	1.4
85°	6.8	5.4	4.1	4.1	2.7	2.7	2.7	1.4	1.4	1.4	1.4
87.5°	2.7	2.7	2.7	1.4	1.4	1.4	1.4	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



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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8
2.5°	1120.4	1120.4	1123.1	1119.1	1121.8	1121.8	1124.5	1119.1	1121.8	1123.1	1125.8
5°	1115.0	1116.4	1119.1	1117.7	1119.1	1119.1	1121.8	1115.0	1120.4	1120.4	1124.5
7.5°	1109.6	1109.6	1112.3	1111.0	1113.7	1115.0	1117.7	1112.3	1117.7	1117.7	1121.8
10°	1102.8	1102.8	1106.9	1105.5	1109.6	1111.0	1115.0	1109.6	1115.0	1116.4	1120.4
12.5°	1093.3	1094.7	1098.7	1098.7	1102.8	1105.5	1109.6	1106.9	1113.7	1115.0	1120.4
15°	1082.5	1085.2	1090.6	1089.3	1093.3	1097.4	1102.8	1098.7	1108.3	1111.0	1116.4
17.5°	1068.9	1071.7	1075.7	1075.7	1079.8	1082.5	1089.3	1086.6	1094.7	1096.0	1102.8
20°	1048.6	1052.7	1058.1	1056.7	1060.8	1063.5	1068.9	1066.2	1074.4	1077.1	1083.9
22.5°	1024.2	1026.9	1031.0	1031.0	1035.1	1037.8	1043.2	1039.1	1047.3	1048.6	1054.0
25°	991.7	994.4	997.1	998.5	1002.5	1003.9	1006.6	1003.9	1010.7	1012.1	1018.8
27.5°	949.7	951.1	955.2	955.2	957.9	959.2	963.3	957.9	967.3	967.3	971.4
30°	899.6	898.3	903.7	901.0	903.7	903.7	907.7	905.0	911.8	909.1	913.1
32.5°	833.2	835.9	835.9	833.2	838.6	837.3	837.3	834.6	838.6	840.0	842.7
35°	756.0	760.0	760.0	761.4	762.8	758.7	760.0	751.9	758.7	760.0	761.4
37.5°	672.0	667.9	670.6	666.5	673.3	665.2	665.2	659.8	665.2	665.2	666.5
40°	575.8	574.4	577.1	574.4	573.1	571.7	569.0	565.0	570.4	567.7	571.7
42.5°	485.0	483.6	483.6	480.9	479.6	479.6	476.9	474.2	472.8	472.8	479.6
45°	391.5	394.2	391.5	390.2	392.9	390.2	391.5	386.1	388.8	386.1	388.8
47.5°	313.0	314.3	311.6	308.9	313.0	308.9	308.9	304.8	310.3	310.3	307.5
50°	242.5	241.1	238.4	241.1	239.8	239.8	239.8	235.7	238.4	234.4	237.1
52.5°	178.8	177.5	177.5	176.1	177.5	176.1	176.1	174.7	174.7	173.4	174.7
55°	130.1	128.7	126.0	126.0	126.0	127.4	126.0	124.7	124.7	123.3	124.7
57.5°	88.1	85.3	85.3	85.3	85.3	84.0	84.0	82.6	84.0	82.6	84.0
60°	56.9	56.9	54.2	54.2	54.2	54.2	54.2	52.8	54.2	54.2	54.2
62.5°	35.2	35.2	33.9	32.5	33.9	32.5	32.5	32.5	33.9	32.5	33.9
65°	23.0	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
67.5°	16.3	14.9	14.9	14.9	14.9	14.9	14.9	13.6	14.9	14.9	14.9
70°	10.9	10.9	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
72.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
75°	5.4	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
77.5°	4.1	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
80°	2.7	2.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	1.4	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	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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: P684130

CATALOG NUMBER: LX6C20D010 EX6C209730 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8	1121.8
2.5°	1121.8	1123.1	1120.4	1121.8	1119.1	1121.8	1123.1	1125.8
5°	1119.1	1120.4	1117.7	1120.4	1117.7	1120.4	1121.8	1124.5
7.5°	1116.4	1119.1	1116.4	1119.1	1116.4	1119.1	1120.4	1123.1
10°	1116.4	1120.4	1117.7	1121.8	1117.7	1120.4	1123.1	1124.5
12.5°	1116.4	1120.4	1119.1	1121.8	1120.4	1123.1	1125.8	1128.5
15°	1113.7	1117.7	1115.0	1119.1	1117.7	1119.1	1124.5	1124.5
17.5°	1098.7	1102.8	1102.8	1105.5	1105.5	1109.6	1112.3	1115.0
20°	1079.8	1083.9	1082.5	1086.6	1086.6	1090.6	1093.3	1096.0
22.5°	1051.3	1056.7	1055.4	1059.4	1058.1	1060.8	1066.2	1064.9
25°	1014.8	1021.5	1020.2	1022.9	1021.5	1021.5	1024.2	1025.6
27.5°	970.0	974.1	972.7	975.5	972.7	975.5	978.2	979.5
30°	911.8	914.5	913.1	914.5	913.1	915.8	917.2	919.9
32.5°	841.3	845.4	841.3	844.0	842.7	842.7	848.1	845.4
35°	757.3	758.7	760.0	760.0	757.3	758.7	761.4	761.4
37.5°	663.8	670.6	662.5	666.5	665.2	665.2	665.2	669.3
40°	566.3	567.7	565.0	565.0	565.0	563.6	569.0	567.7
42.5°	474.2	475.5	474.2	470.1	471.5	471.5	475.5	470.1
45°	384.8	387.5	386.1	386.1	383.4	383.4	384.8	382.1
47.5°	304.8	307.5	303.5	304.8	302.1	304.8	303.5	306.2
50°	231.7	234.4	233.0	234.4	234.4	231.7	235.7	230.3
52.5°	173.4	174.7	173.4	172.0	170.7	170.7	173.4	172.0
55°	123.3	121.9	121.9	121.9	123.3	123.3	121.9	120.6
57.5°	82.6	82.6	81.3	81.3	82.6	79.9	81.3	79.9
60°	52.8	52.8	52.8	52.8	51.5	52.8	52.8	52.8
62.5°	32.5	32.5	32.5	32.5	32.5	32.5	32.5	32.5
65°	21.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
67.5°	13.6	14.9	14.9	14.9	13.6	13.6	13.6	13.6
70°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
72.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	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)