

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: P684128

Luminaire Tested: **LX6C20D010 EX6C209727 6LCSWH**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684128  
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 EX6C209727 6LCSWH  
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS  
AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

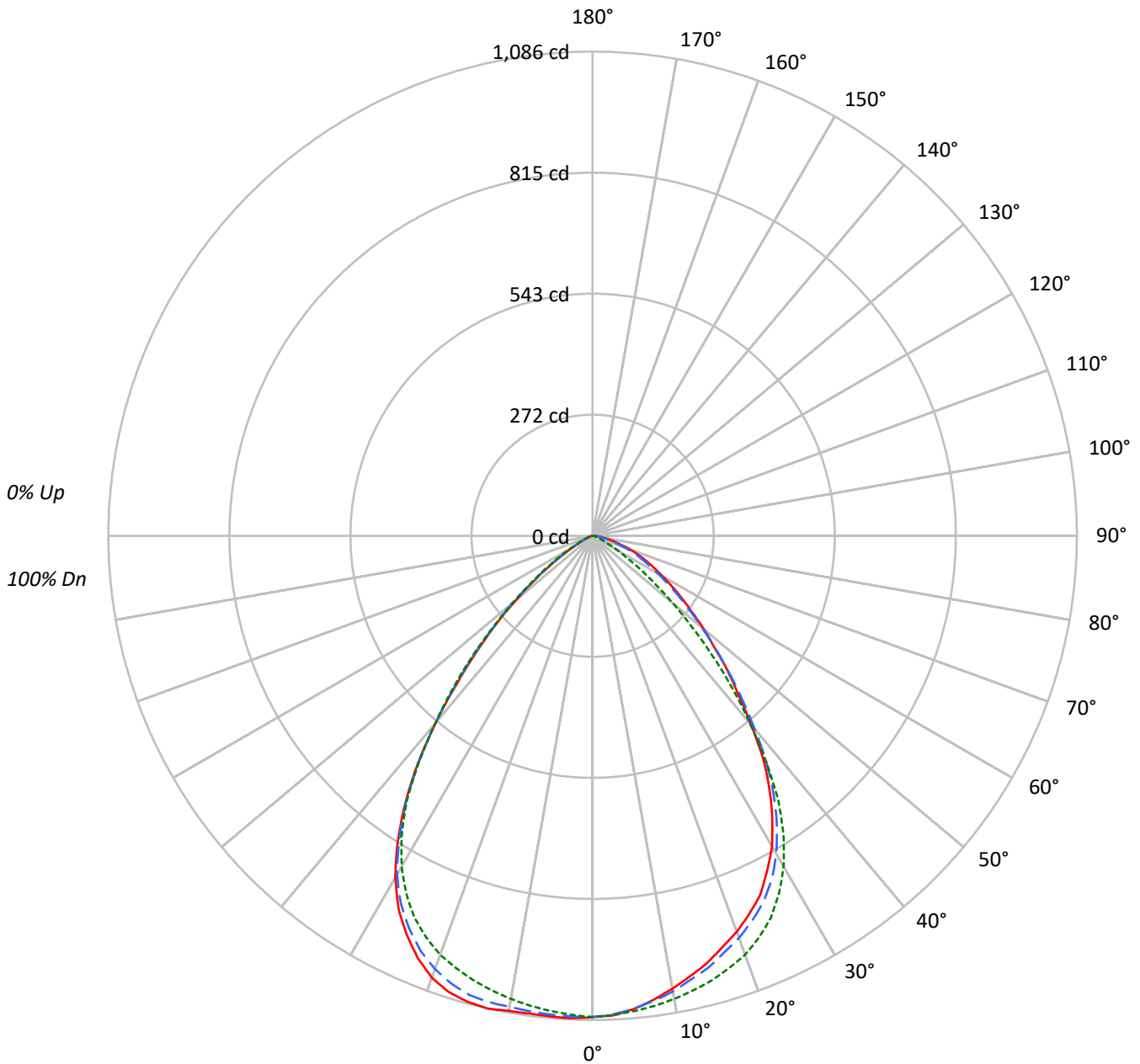
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1811.0 lumens  
Efficiency: N/A  
Efficacy: 83.1 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°	59178	59178	59178
5°	58612	58898	59548
10°	57403	58711	60236
15°	56306	58599	61414
20°	55141	58333	61530
25°	53779	57173	59695
30°	50919	54217	56034
35°	46244	48600	49035
40°	39467	39274	39088
45°	33151	29414	28499
50°	27684	19906	18899
55°	23301	12215	11087
60°	19724	6436	5570
65°	17084	3386	2698
70°	14201	2084	1459
75°	10506	1377	826
80°	8240	821	410
85°	6542	818	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.7	5.6
10°-20°	291.3	16.1
20°-30°	430.1	23.8
30°-40°	443.3	24.5
40°-50°	306.2	16.9
50°-60°	150.9	8.3
60°-70°	61.1	3.4
70°-80°	21.8	1.2
80°-90°	4.5	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°	823.2	45.5
0°-40°	1266.5	69.9
0°-60°	1723.5	95.2
0°-90°	1811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1811.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1080	1080	1080	1080	1080	
5°	1065	1065	1070	1078	1082	101
15°	992	1003	1032	1066	1082	279
25°	889	906	945	973	987	406
35°	691	708	726	730	733	428
45°	428	430	379	374	368	331
55°	244	235	128	120	116	220
65°	132	119	26	21	21	131
75°	50	42	6	4	4	56
85°	10	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°	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5
2.5°	1076.8	1073.0	1075.6	1070.3	1076.8	1070.3	1071.6	1073.0	1071.6	1073.0	1074.2
5°	1065.1	1061.2	1065.1	1058.6	1065.1	1061.2	1061.2	1062.5	1062.5	1063.8	1065.1
7.5°	1049.5	1045.6	1049.5	1043.0	1050.8	1046.9	1046.9	1049.5	1048.2	1049.5	1052.1
10°	1031.2	1026.0	1029.9	1026.0	1033.8	1028.6	1031.2	1031.2	1031.2	1035.1	1037.8
12.5°	1011.7	1006.4	1011.7	1005.2	1013.0	1009.1	1010.4	1014.3	1015.6	1018.2	1019.5
15°	992.1	985.6	988.2	984.3	992.1	988.2	989.5	994.7	994.7	998.6	1002.6
17.5°	967.4	962.1	967.4	962.1	968.6	966.0	968.6	972.6	972.6	976.5	980.4
20°	945.2	940.0	943.9	940.0	947.8	943.9	945.2	950.4	951.7	955.6	959.5
22.5°	917.8	913.9	916.5	912.6	920.4	917.8	919.1	924.3	925.6	928.2	934.8
25°	889.1	881.3	885.2	882.6	890.4	886.5	889.1	894.3	897.0	900.8	906.1
27.5°	847.4	843.5	846.1	846.1	852.6	848.7	850.0	855.2	859.1	863.0	869.6
30°	804.4	797.9	800.5	801.8	807.0	804.4	807.0	812.2	813.5	818.7	823.9
32.5°	749.6	747.0	752.2	749.6	752.2	752.2	753.5	757.4	760.0	762.7	769.2
35°	691.0	685.8	691.0	688.4	694.9	691.0	694.9	698.8	698.8	704.0	707.9
37.5°	627.1	620.6	623.2	623.2	625.8	624.5	624.5	631.0	632.3	636.2	640.1
40°	551.5	548.8	554.1	552.8	554.1	554.1	555.4	559.3	561.9	563.2	564.5
42.5°	483.7	485.0	486.3	486.3	486.3	486.3	486.3	491.5	490.2	494.1	495.4
45°	427.6	422.4	425.0	423.7	427.6	423.7	427.6	431.5	428.9	432.8	430.2
47.5°	370.2	370.2	370.2	369.0	371.6	370.2	372.8	374.2	374.2	374.2	372.8
50°	324.6	320.7	322.0	322.0	323.3	322.0	324.6	325.9	325.9	323.3	318.1
52.5°	280.3	279.0	279.0	281.6	281.6	280.3	280.3	280.3	280.3	276.4	273.8
55°	243.8	241.2	242.5	242.5	242.5	242.5	243.8	242.5	242.5	238.6	234.7
57.5°	211.2	208.6	208.6	208.6	209.9	208.6	208.6	208.6	207.3	203.4	198.2
60°	179.9	178.6	179.9	179.9	181.2	179.9	179.9	179.9	177.3	173.4	168.2
62.5°	153.8	153.8	153.8	155.1	155.1	153.8	153.8	152.5	151.2	146.0	140.8
65°	131.7	130.4	131.7	131.7	133.0	133.0	131.7	130.4	129.1	123.8	118.6
67.5°	109.5	108.2	109.5	109.5	110.8	109.5	109.5	109.5	105.6	103.0	97.8
70°	88.6	87.4	87.4	87.4	88.6	86.0	87.4	87.4	84.8	80.8	75.6
72.5°	67.8	67.8	67.8	67.8	67.8	67.8	66.5	66.5	63.9	60.0	57.4
75°	49.6	49.6	50.8	50.8	49.6	49.6	49.6	48.2	46.9	44.3	41.7
77.5°	36.5	36.5	36.5	36.5	35.2	35.2	35.2	33.9	32.6	31.3	28.7
80°	26.1	26.1	26.1	24.8	26.1	24.8	24.8	24.8	22.2	20.8	19.6
82.5°	18.2	17.0	17.0	17.0	17.0	17.0	17.0	15.6	15.6	14.4	13.0
85°	10.4	10.4	10.4	10.4	10.4	10.4	10.4	10.4	9.1	7.8	7.8
87.5°	5.2	6.5	6.5	6.5	6.5	6.5	6.5	5.2	5.2	5.2	3.9
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°	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5
2.5°	1074.2	1074.2	1076.8	1073.0	1079.5	1075.6	1074.2	1080.8	1076.8	1075.6	1078.2
5°	1065.1	1066.4	1067.7	1065.1	1071.6	1067.7	1067.7	1074.2	1071.6	1070.3	1074.2
7.5°	1053.4	1054.7	1057.3	1056.0	1061.2	1058.6	1059.9	1066.4	1063.8	1063.8	1067.7
10°	1039.0	1041.6	1044.3	1044.3	1050.8	1048.2	1048.2	1056.0	1053.4	1054.7	1059.9
12.5°	1022.1	1026.0	1029.9	1031.2	1037.8	1033.8	1035.1	1044.3	1043.0	1044.3	1049.5
15°	1003.8	1009.1	1013.0	1013.0	1020.8	1016.9	1020.8	1029.9	1027.3	1032.5	1039.0
17.5°	983.0	988.2	993.4	994.7	1002.6	999.9	1005.2	1014.3	1014.3	1016.9	1024.7
20°	963.4	970.0	972.6	976.5	984.3	983.0	985.6	996.0	996.0	999.9	1007.8
22.5°	937.4	943.9	949.1	953.0	959.5	959.5	963.4	972.6	972.6	975.2	983.0
25°	908.7	916.5	920.4	924.3	930.8	929.5	933.4	941.3	942.6	945.2	953.0
27.5°	872.2	878.7	883.9	886.5	895.6	890.4	894.3	903.5	902.2	904.8	911.3
30°	826.6	833.1	838.3	838.3	846.1	846.1	850.0	853.9	853.9	856.5	861.8
32.5°	773.1	780.9	780.9	784.8	790.0	784.8	790.0	795.2	792.6	796.6	800.5
35°	711.8	715.7	717.0	717.0	721.0	719.6	718.3	722.2	719.6	726.2	730.1
37.5°	637.5	642.7	640.1	642.7	641.4	637.5	637.5	644.0	638.8	640.1	644.0
40°	565.8	565.8	564.5	558.0	559.3	555.4	554.1	555.4	550.2	548.8	554.1
42.5°	491.5	490.2	486.3	477.2	478.4	471.9	466.7	466.7	464.1	462.8	464.1
45°	425.0	421.1	414.6	404.2	401.5	396.3	385.9	383.3	379.4	379.4	380.7
47.5°	363.7	358.5	348.1	336.4	329.8	323.3	312.9	309.0	302.4	299.8	302.4
50°	312.9	303.8	290.7	273.8	267.2	259.4	249.0	242.5	236.0	233.4	232.0
52.5°	266.0	252.9	239.9	219.0	213.8	206.0	191.6	185.1	178.6	173.4	173.4
55°	225.5	213.8	195.6	176.0	168.2	160.4	146.0	136.9	130.4	127.8	125.2
57.5°	189.0	176.0	159.0	138.2	130.4	122.6	108.2	99.1	92.6	88.6	86.0
60°	159.0	144.7	127.8	109.5	100.4	92.6	78.2	69.1	62.6	58.7	56.0
62.5°	130.4	118.6	101.7	84.8	76.9	69.1	57.4	48.2	41.7	39.1	35.2
65°	109.5	97.8	82.1	67.8	61.3	53.4	43.0	35.2	30.0	26.1	23.5
67.5°	88.6	79.5	66.5	53.4	46.9	41.7	32.6	26.1	20.8	18.2	17.0
70°	70.4	61.3	50.8	40.4	36.5	31.3	24.8	18.2	15.6	13.0	11.7
72.5°	52.2	45.6	37.8	30.0	26.1	23.5	17.0	14.4	10.4	9.1	7.8
75°	37.8	32.6	27.4	20.8	18.2	17.0	13.0	9.1	7.8	6.5	5.2
77.5°	26.1	23.5	18.2	14.4	13.0	11.7	9.1	6.5	5.2	3.9	3.9
80°	17.0	14.4	11.7	9.1	9.1	7.8	5.2	3.9	3.9	2.6	2.6
82.5°	10.4	9.1	7.8	6.5	5.2	5.2	3.9	2.6	2.6	1.3	1.3
85°	6.5	5.2	3.9	3.9	2.6	2.6	2.6	1.3	1.3	1.3	1.3
87.5°	2.6	2.6	2.6	1.3	1.3	1.3	1.3	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°	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5
2.5°	1078.2	1078.2	1080.8	1076.8	1079.5	1079.5	1082.1	1076.8	1079.5	1080.8	1083.4
5°	1073.0	1074.2	1076.8	1075.6	1076.8	1076.8	1079.5	1073.0	1078.2	1078.2	1082.1
7.5°	1067.7	1067.7	1070.3	1069.0	1071.6	1073.0	1075.6	1070.3	1075.6	1075.6	1079.5
10°	1061.2	1061.2	1065.1	1063.8	1067.7	1069.0	1073.0	1067.7	1073.0	1074.2	1078.2
12.5°	1052.1	1053.4	1057.3	1057.3	1061.2	1063.8	1067.7	1065.1	1071.6	1073.0	1078.2
15°	1041.6	1044.3	1049.5	1048.2	1052.1	1056.0	1061.2	1057.3	1066.4	1069.0	1074.2
17.5°	1028.6	1031.2	1035.1	1035.1	1039.0	1041.6	1048.2	1045.6	1053.4	1054.7	1061.2
20°	1009.1	1013.0	1018.2	1016.9	1020.8	1023.4	1028.6	1026.0	1033.8	1036.4	1043.0
22.5°	985.6	988.2	992.1	992.1	996.0	998.6	1003.8	999.9	1007.8	1009.1	1014.3
25°	954.3	956.9	959.5	960.8	964.7	966.0	968.6	966.0	972.6	973.9	980.4
27.5°	913.9	915.2	919.1	919.1	921.7	923.0	926.9	921.7	930.8	930.8	934.8
30°	865.6	864.4	869.6	867.0	869.6	869.6	873.5	870.9	877.4	874.8	878.7
32.5°	801.8	804.4	804.4	801.8	807.0	805.7	805.7	803.1	807.0	808.3	810.9
35°	727.5	731.4	731.4	732.7	734.0	730.1	731.4	723.6	730.1	731.4	732.7
37.5°	646.6	642.7	645.3	641.4	647.9	640.1	640.1	634.9	640.1	640.1	641.4
40°	554.1	552.8	555.4	552.8	551.5	550.2	547.6	543.6	548.8	546.2	550.2
42.5°	466.7	465.4	465.4	462.8	461.5	461.5	458.9	456.3	455.0	455.0	461.5
45°	376.8	379.4	376.8	375.5	378.1	375.5	376.8	371.6	374.2	371.6	374.2
47.5°	301.2	302.4	299.8	297.2	301.2	297.2	297.2	293.3	298.6	298.6	295.9
50°	233.4	232.0	229.4	232.0	230.8	230.8	230.8	226.8	229.4	225.5	228.2
52.5°	172.1	170.8	170.8	169.5	170.8	169.5	169.5	168.2	168.2	166.9	168.2
55°	125.2	123.8	121.2	121.2	121.2	122.6	121.2	120.0	120.0	118.6	120.0
57.5°	84.8	82.1	82.1	82.1	82.1	80.8	80.8	79.5	80.8	79.5	80.8
60°	54.8	54.8	52.2	52.2	52.2	52.2	52.2	50.8	52.2	52.2	52.2
62.5°	33.9	33.9	32.6	31.3	32.6	31.3	31.3	31.3	32.6	31.3	32.6
65°	22.2	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
67.5°	15.6	14.4	14.4	14.4	14.4	14.4	14.4	13.0	14.4	14.4	14.4
70°	10.4	10.4	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
72.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
75°	5.2	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
77.5°	3.9	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
80°	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	1.3	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	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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: P684128

CATALOG NUMBER: LX6C20D010 EX6C209727 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5	1079.5
2.5°	1079.5	1080.8	1078.2	1079.5	1076.8	1079.5	1080.8	1083.4
5°	1076.8	1078.2	1075.6	1078.2	1075.6	1078.2	1079.5	1082.1
7.5°	1074.2	1076.8	1074.2	1076.8	1074.2	1076.8	1078.2	1080.8
10°	1074.2	1078.2	1075.6	1079.5	1075.6	1078.2	1080.8	1082.1
12.5°	1074.2	1078.2	1076.8	1079.5	1078.2	1080.8	1083.4	1086.0
15°	1071.6	1075.6	1073.0	1076.8	1075.6	1076.8	1082.1	1082.1
17.5°	1057.3	1061.2	1061.2	1063.8	1063.8	1067.7	1070.3	1073.0
20°	1039.0	1043.0	1041.6	1045.6	1045.6	1049.5	1052.1	1054.7
22.5°	1011.7	1016.9	1015.6	1019.5	1018.2	1020.8	1026.0	1024.7
25°	976.5	983.0	981.7	984.3	983.0	983.0	985.6	986.9
27.5°	933.4	937.4	936.0	938.7	936.0	938.7	941.3	942.6
30°	877.4	880.0	878.7	880.0	878.7	881.3	882.6	885.2
32.5°	809.6	813.5	809.6	812.2	810.9	810.9	816.1	813.5
35°	728.8	730.1	731.4	731.4	728.8	730.1	732.7	732.7
37.5°	638.8	645.3	637.5	641.4	640.1	640.1	640.1	644.0
40°	545.0	546.2	543.6	543.6	543.6	542.3	547.6	546.2
42.5°	456.3	457.6	456.3	452.4	453.7	453.7	457.6	452.4
45°	370.2	372.8	371.6	371.6	369.0	369.0	370.2	367.6
47.5°	293.3	295.9	292.0	293.3	290.7	293.3	292.0	294.6
50°	222.9	225.5	224.2	225.5	225.5	222.9	226.8	221.6
52.5°	166.9	168.2	166.9	165.6	164.3	164.3	166.9	165.6
55°	118.6	117.3	117.3	117.3	118.6	118.6	117.3	116.0
57.5°	79.5	79.5	78.2	78.2	79.5	76.9	78.2	76.9
60°	50.8	50.8	50.8	50.8	49.6	50.8	50.8	50.8
62.5°	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
65°	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8
67.5°	13.0	14.4	14.4	14.4	13.0	13.0	13.0	13.0
70°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
72.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
75°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	1.3	1.3	1.3	1.3	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)