

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: P684126

Luminaire Tested: **LX6C20D010 EX6C209050 6LCSWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684126
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 EX6C209050 6LCSWH
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

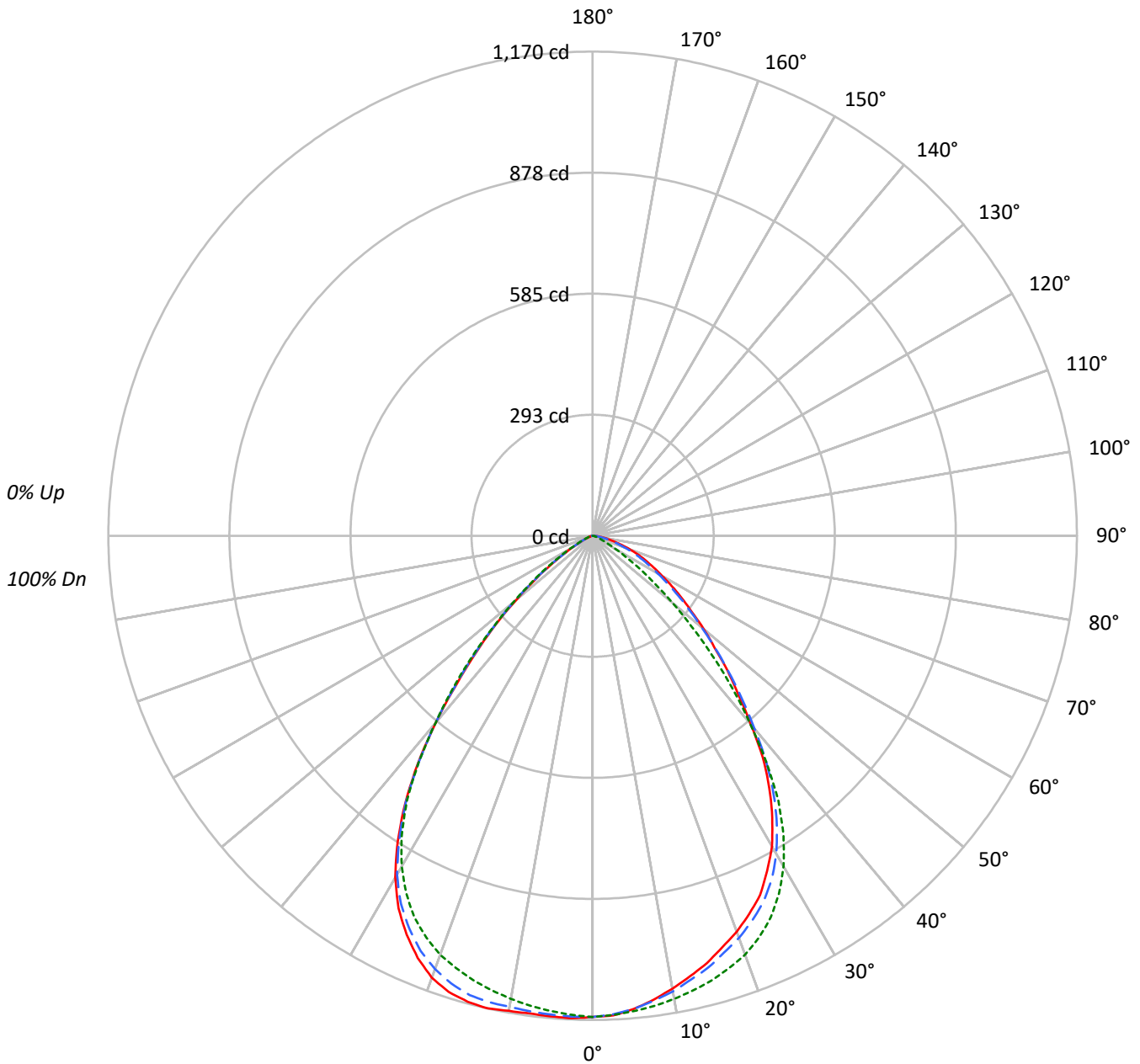
Lumens per Lamp: N/A
Luminaire Lumens: 1951.0 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V):
Input Current (A_{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									
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°	63750	63750	63750
5°	63146	63455	64148
10°	61845	63248	64890
15°	60659	63127	66158
20°	59400	62842	66284
25°	57941	61588	64310
30°	54857	58408	60364
35°	49818	52354	52822
40°	42515	42315	42115
45°	35717	31685	30709
50°	29824	21441	20366
55°	25098	13151	11947
60°	21248	6929	6008
65°	18407	3645	2906
70°	15307	2244	1571
75°	11311	1483	890
80°	8871	884	442
85°	7045	881	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	5.6
10°-20°	313.8	16.1
20°-30°	463.4	23.8
30°-40°	477.6	24.5
40°-50°	329.9	16.9
50°-60°	162.6	8.3
60°-70°	65.9	3.4
70°-80°	23.5	1.2
80°-90°	4.8	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°	886.8	45.5
0°-40°	1364.4	69.9
0°-60°	1856.8	95.2
0°-90°	1951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1951.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1163	1163	1163	1163	1163	
5°	1148	1148	1153	1162	1166	108
15°	1069	1080	1112	1149	1166	301
25°	958	976	1018	1048	1063	438
35°	744	763	782	786	789	461
45°	461	464	409	403	396	356
55°	263	253	138	129	125	237
65°	142	128	28	22	22	141
75°	53	45	7	4	4	60
85°	11	8	1	0	0	14
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°	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9
2.5°	1160.1	1155.9	1158.7	1153.1	1160.1	1153.1	1154.5	1155.9	1154.5	1155.9	1157.3
5°	1147.5	1143.2	1147.5	1140.4	1147.5	1143.2	1143.2	1144.7	1144.7	1146.0	1147.5
7.5°	1130.6	1126.4	1130.6	1123.6	1132.0	1127.8	1127.8	1130.6	1129.2	1130.6	1133.4
10°	1111.0	1105.3	1109.5	1105.3	1113.8	1108.1	1111.0	1111.0	1111.0	1115.1	1118.0
12.5°	1089.9	1084.2	1089.9	1082.9	1091.3	1087.1	1088.5	1092.7	1094.1	1096.9	1098.3
15°	1068.8	1061.8	1064.6	1060.4	1068.8	1064.6	1066.0	1071.6	1071.6	1075.8	1080.1
17.5°	1042.1	1036.5	1042.1	1036.5	1043.5	1040.7	1043.5	1047.7	1047.7	1052.0	1056.1
20°	1018.2	1012.6	1016.9	1012.6	1021.1	1016.9	1018.2	1023.9	1025.2	1029.5	1033.7
22.5°	988.8	984.5	987.3	983.2	991.6	988.8	990.2	995.8	997.2	1000.0	1007.0
25°	957.9	949.4	953.6	950.8	959.3	955.1	957.9	963.5	966.3	970.5	976.1
27.5°	912.9	908.7	911.5	911.5	918.5	914.3	915.7	921.4	925.5	929.8	936.8
30°	866.6	859.6	862.4	863.7	869.4	866.6	869.4	875.0	876.4	882.0	887.6
32.5°	807.6	804.7	810.4	807.6	810.4	810.4	811.8	816.0	818.8	821.6	828.7
35°	744.4	738.8	744.4	741.6	748.6	744.4	748.6	752.8	752.8	758.4	762.7
37.5°	675.6	668.5	671.3	671.3	674.1	672.8	672.8	679.8	681.2	685.4	689.6
40°	594.1	591.3	596.9	595.5	596.9	596.9	598.3	602.5	605.3	606.7	608.2
42.5°	521.1	522.4	523.9	523.9	523.9	523.9	523.9	529.5	528.1	532.3	533.7
45°	460.7	455.1	457.9	456.5	460.7	456.5	460.7	464.9	462.1	466.3	463.5
47.5°	398.9	398.9	398.9	397.5	400.3	398.9	401.7	403.1	403.1	403.1	401.7
50°	349.7	345.5	346.9	346.9	348.3	346.9	349.7	351.1	351.1	348.3	342.7
52.5°	301.9	300.6	300.6	303.4	303.4	301.9	301.9	301.9	301.9	297.8	294.9
55°	262.6	259.9	261.2	261.2	261.2	261.2	262.6	261.2	261.2	257.0	252.8
57.5°	227.5	224.7	224.7	224.7	226.1	224.7	224.7	224.7	223.3	219.1	213.5
60°	193.8	192.4	193.8	193.8	195.2	193.8	193.8	193.8	191.0	186.8	181.2
62.5°	165.7	165.7	165.7	167.1	167.1	165.7	165.7	164.3	162.9	157.3	151.7
65°	141.9	140.4	141.9	141.9	143.2	143.2	141.9	140.4	139.1	133.4	127.8
67.5°	118.0	116.6	118.0	118.0	119.4	118.0	118.0	118.0	113.8	111.0	105.3
70°	95.5	94.1	94.1	94.1	95.5	92.7	94.1	94.1	91.3	87.1	81.4
72.5°	73.0	73.0	73.0	73.0	73.0	73.0	71.6	71.6	68.8	64.6	61.8
75°	53.4	53.4	54.8	54.8	53.4	53.4	53.4	52.0	50.5	47.7	44.9
77.5°	39.3	39.3	39.3	39.3	37.9	37.9	37.9	36.5	35.1	33.7	30.9
80°	28.1	28.1	28.1	26.7	28.1	26.7	26.7	26.7	23.9	22.4	21.1
82.5°	19.6	18.3	18.3	18.3	18.3	18.3	18.3	16.8	16.8	15.5	14.0
85°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	9.8	8.5	8.5
87.5°	5.6	7.0	7.0	7.0	7.0	7.0	7.0	5.6	5.6	5.6	4.2
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°	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9
2.5°	1157.3	1157.3	1160.1	1155.9	1162.9	1158.7	1157.3	1164.3	1160.1	1158.7	1161.5
5°	1147.5	1148.9	1150.3	1147.5	1154.5	1150.3	1150.3	1157.3	1154.5	1153.1	1157.3
7.5°	1134.8	1136.2	1139.0	1137.6	1143.2	1140.4	1141.9	1148.9	1146.0	1146.0	1150.3
10°	1119.4	1122.2	1125.0	1125.0	1132.0	1129.2	1129.2	1137.6	1134.8	1136.2	1141.9
12.5°	1101.1	1105.3	1109.5	1111.0	1118.0	1113.8	1115.1	1125.0	1123.6	1125.0	1130.6
15°	1081.4	1087.1	1091.3	1091.3	1099.7	1095.5	1099.7	1109.5	1106.7	1112.3	1119.4
17.5°	1059.0	1064.6	1070.2	1071.6	1080.1	1077.2	1082.9	1092.7	1092.7	1095.5	1103.9
20°	1037.9	1044.9	1047.7	1052.0	1060.4	1059.0	1061.8	1073.0	1073.0	1077.2	1085.7
22.5°	1009.8	1016.9	1022.4	1026.7	1033.7	1033.7	1037.9	1047.7	1047.7	1050.5	1059.0
25°	978.9	987.3	991.6	995.8	1002.8	1001.4	1005.6	1014.1	1015.4	1018.2	1026.7
27.5°	939.6	946.6	952.3	955.1	964.9	959.3	963.5	973.3	971.9	974.7	981.7
30°	890.5	897.5	903.1	903.1	911.5	911.5	915.7	919.9	919.9	922.7	928.4
32.5°	832.8	841.3	841.3	845.5	851.1	845.5	851.1	856.7	853.9	858.1	862.4
35°	766.8	771.0	772.5	772.5	776.7	775.3	773.8	778.1	775.3	782.3	786.5
37.5°	686.8	692.4	689.6	692.4	691.0	686.8	686.8	693.8	688.2	689.6	693.8
40°	609.5	609.5	608.2	601.1	602.5	598.3	596.9	598.3	592.7	591.3	596.9
42.5°	529.5	528.1	523.9	514.1	515.4	508.4	502.8	502.8	500.0	498.6	500.0
45°	457.9	453.6	446.6	435.4	432.6	427.0	415.7	412.9	408.7	408.7	410.1
47.5°	391.8	386.2	375.0	362.4	355.3	348.3	337.1	332.8	325.8	323.0	325.8
50°	337.1	327.2	313.2	294.9	287.9	279.5	268.2	261.2	254.2	251.4	250.0
52.5°	286.5	272.5	258.4	236.0	230.3	221.9	206.5	199.4	192.4	186.8	186.8
55°	242.9	230.3	210.7	189.6	181.2	172.8	157.3	147.5	140.4	137.6	134.8
57.5°	203.7	189.6	171.3	148.9	140.4	132.0	116.6	106.7	99.7	95.5	92.7
60°	171.3	155.9	137.6	118.0	108.2	99.7	84.3	74.4	67.4	63.2	60.4
62.5°	140.4	127.8	109.5	91.3	82.9	74.4	61.8	52.0	44.9	42.1	37.9
65°	118.0	105.3	88.5	73.0	66.0	57.6	46.4	37.9	32.3	28.1	25.3
67.5°	95.5	85.7	71.6	57.6	50.5	44.9	35.1	28.1	22.4	19.6	18.3
70°	75.8	66.0	54.8	43.5	39.3	33.7	26.7	19.6	16.8	14.0	12.6
72.5°	56.2	49.2	40.7	32.3	28.1	25.3	18.3	15.5	11.2	9.8	8.5
75°	40.7	35.1	29.5	22.4	19.6	18.3	14.0	9.8	8.5	7.0	5.6
77.5°	28.1	25.3	19.6	15.5	14.0	12.6	9.8	7.0	5.6	4.2	4.2
80°	18.3	15.5	12.6	9.8	9.8	8.5	5.6	4.2	4.2	2.8	2.8
82.5°	11.2	9.8	8.5	7.0	5.6	5.6	4.2	2.8	2.8	1.4	1.4
85°	7.0	5.6	4.2	4.2	2.8	2.8	2.8	1.4	1.4	1.4	1.4
87.5°	2.8	2.8	2.8	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°	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9
2.5°	1161.5	1161.5	1164.3	1160.1	1162.9	1162.9	1165.7	1160.1	1162.9	1164.3	1167.1
5°	1155.9	1157.3	1160.1	1158.7	1160.1	1160.1	1162.9	1155.9	1161.5	1161.5	1165.7
7.5°	1150.3	1150.3	1153.1	1151.7	1154.5	1155.9	1158.7	1153.1	1158.7	1158.7	1162.9
10°	1143.2	1143.2	1147.5	1146.0	1150.3	1151.7	1155.9	1150.3	1155.9	1157.3	1161.5
12.5°	1133.4	1134.8	1139.0	1139.0	1143.2	1146.0	1150.3	1147.5	1154.5	1155.9	1161.5
15°	1122.2	1125.0	1130.6	1129.2	1133.4	1137.6	1143.2	1139.0	1148.9	1151.7	1157.3
17.5°	1108.1	1111.0	1115.1	1115.1	1119.4	1122.2	1129.2	1126.4	1134.8	1136.2	1143.2
20°	1087.1	1091.3	1096.9	1095.5	1099.7	1102.5	1108.1	1105.3	1113.8	1116.6	1123.6
22.5°	1061.8	1064.6	1068.8	1068.8	1073.0	1075.8	1081.4	1077.2	1085.7	1087.1	1092.7
25°	1028.1	1030.9	1033.7	1035.1	1039.3	1040.7	1043.5	1040.7	1047.7	1049.2	1056.1
27.5°	984.5	986.0	990.2	990.2	993.0	994.4	998.6	993.0	1002.8	1002.8	1007.0
30°	932.6	931.2	936.8	934.0	936.8	936.8	941.0	938.2	945.2	942.4	946.6
32.5°	863.7	866.6	866.6	863.7	869.4	868.0	868.0	865.2	869.4	870.8	873.6
35°	783.7	787.9	787.9	789.3	790.7	786.5	787.9	779.5	786.5	787.9	789.3
37.5°	696.6	692.4	695.2	691.0	698.0	689.6	689.6	684.0	689.6	689.6	691.0
40°	596.9	595.5	598.3	595.5	594.1	592.7	589.9	585.7	591.3	588.5	592.7
42.5°	502.8	501.4	501.4	498.6	497.2	497.2	494.4	491.6	490.2	490.2	497.2
45°	405.9	408.7	405.9	404.5	407.3	404.5	405.9	400.3	403.1	400.3	403.1
47.5°	324.4	325.8	323.0	320.2	324.4	320.2	320.2	316.0	321.6	321.6	318.8
50°	251.4	250.0	247.2	250.0	248.6	248.6	248.6	244.4	247.2	242.9	245.8
52.5°	185.4	184.0	184.0	182.6	184.0	182.6	182.6	181.2	181.2	179.8	181.2
55°	134.8	133.4	130.6	130.6	130.6	132.0	130.6	129.2	129.2	127.8	129.2
57.5°	91.3	88.5	88.5	88.5	88.5	87.1	87.1	85.7	87.1	85.7	87.1
60°	59.0	59.0	56.2	56.2	56.2	56.2	56.2	54.8	56.2	56.2	56.2
62.5°	36.5	36.5	35.1	33.7	35.1	33.7	33.7	33.7	35.1	33.7	35.1
65°	23.9	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
67.5°	16.8	15.5	15.5	15.5	15.5	15.5	15.5	14.0	15.5	15.5	15.5
70°	11.2	11.2	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
72.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
75°	5.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	4.2	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	2.8	2.8	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: P684126

CATALOG NUMBER: LX6C20D010 EX6C209050 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9	1162.9
2.5°	1162.9	1164.3	1161.5	1162.9	1160.1	1162.9	1164.3	1167.1
5°	1160.1	1161.5	1158.7	1161.5	1158.7	1161.5	1162.9	1165.7
7.5°	1157.3	1160.1	1157.3	1160.1	1157.3	1160.1	1161.5	1164.3
10°	1157.3	1161.5	1158.7	1162.9	1158.7	1161.5	1164.3	1165.7
12.5°	1157.3	1161.5	1160.1	1162.9	1161.5	1164.3	1167.1	1169.9
15°	1154.5	1158.7	1155.9	1160.1	1158.7	1160.1	1165.7	1165.7
17.5°	1139.0	1143.2	1143.2	1146.0	1146.0	1150.3	1153.1	1155.9
20°	1119.4	1123.6	1122.2	1126.4	1126.4	1130.6	1133.4	1136.2
22.5°	1089.9	1095.5	1094.1	1098.3	1096.9	1099.7	1105.3	1103.9
25°	1052.0	1059.0	1057.6	1060.4	1059.0	1059.0	1061.8	1063.2
27.5°	1005.6	1009.8	1008.4	1011.3	1008.4	1011.3	1014.1	1015.4
30°	945.2	948.0	946.6	948.0	946.6	949.4	950.8	953.6
32.5°	872.2	876.4	872.2	875.0	873.6	873.6	879.2	876.4
35°	785.1	786.5	787.9	787.9	785.1	786.5	789.3	789.3
37.5°	688.2	695.2	686.8	691.0	689.6	689.6	689.6	693.8
40°	587.1	588.5	585.7	585.7	585.7	584.2	589.9	588.5
42.5°	491.6	493.0	491.6	487.4	488.8	488.8	493.0	487.4
45°	398.9	401.7	400.3	400.3	397.5	397.5	398.9	396.1
47.5°	316.0	318.8	314.6	316.0	313.2	316.0	314.6	317.4
50°	240.2	242.9	241.6	242.9	242.9	240.2	244.4	238.8
52.5°	179.8	181.2	179.8	178.4	177.0	177.0	179.8	178.4
55°	127.8	126.4	126.4	126.4	127.8	127.8	126.4	125.0
57.5°	85.7	85.7	84.3	84.3	85.7	82.9	84.3	82.9
60°	54.8	54.8	54.8	54.8	53.4	54.8	54.8	54.8
62.5°	33.7	33.7	33.7	33.7	33.7	33.7	33.7	33.7
65°	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
67.5°	14.0	15.5	15.5	15.5	14.0	14.0	14.0	14.0
70°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
72.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
75°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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)