

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: P684112

Luminaire Tested: **LX6C20D010 EX6C209035 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P684112
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 EX6C209035 6LCSWH
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

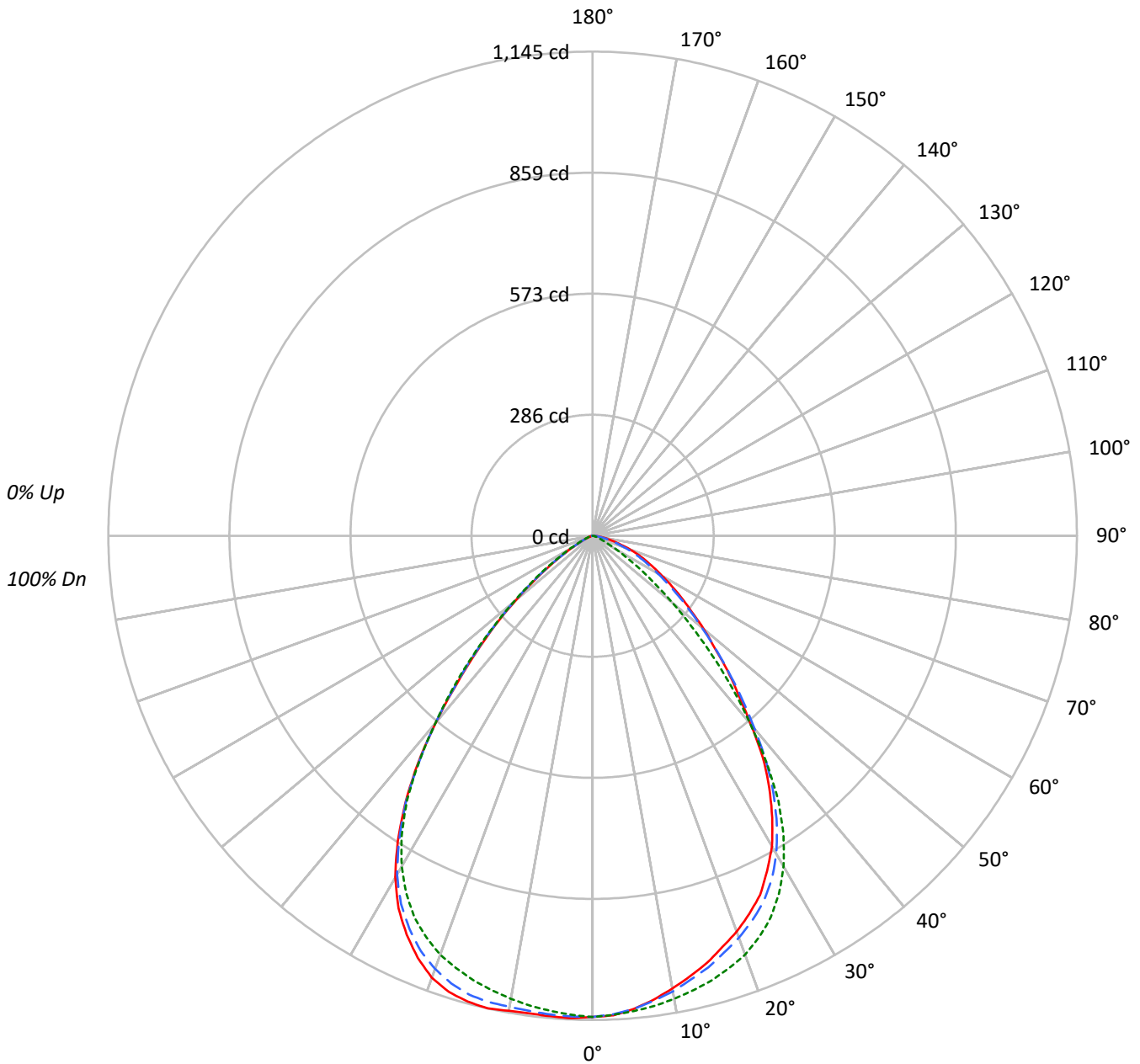
Lumens per Lamp: N/A
Luminaire Lumens: 1909.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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				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	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°	62380	62380	62380
5°	61787	62084	62767
10°	60514	61889	63492
15°	59353	61771	64734
20°	58123	61489	64861
25°	56689	60264	62925
30°	53673	57154	59066
35°	48747	51230	51685
40°	41599	41399	41206
45°	34942	31003	30042
50°	29185	20980	19923
55°	24563	12874	11689
60°	20799	6787	5877
65°	18005	3567	2854
70°	14970	2196	1539
75°	11056	1461	868
80°	8682	852	442
85°	6919	881	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.2	5.6
10°-20°	307.1	16.1
20°-30°	453.4	23.8
30°-40°	467.3	24.5
40°-50°	322.7	16.9
50°-60°	159.1	8.3
60°-70°	64.5	3.4
70°-80°	23.0	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°	867.7	45.5
0°-40°	1335.0	69.9
0°-60°	1816.8	95.2
0°-90°	1909.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1909.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1138	1138	1138	1138	1138	
5°	1123	1123	1128	1136	1141	106
15°	1046	1057	1088	1124	1141	294
25°	937	955	996	1025	1040	428
35°	728	746	766	770	772	451
45°	451	454	400	394	388	348
55°	257	247	135	126	122	232
65°	139	125	28	22	22	138
75°	52	44	7	4	4	59
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°	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9
2.5°	1135.1	1131.0	1133.8	1128.2	1135.1	1128.2	1129.6	1131.0	1129.6	1131.0	1132.4
5°	1122.8	1118.6	1122.8	1115.9	1122.8	1118.6	1118.6	1120.0	1120.0	1121.4	1122.8
7.5°	1106.3	1102.1	1106.3	1099.4	1107.6	1103.5	1103.5	1106.3	1104.9	1106.3	1109.0
10°	1087.1	1081.5	1085.7	1081.5	1089.8	1084.3	1087.1	1087.1	1087.1	1091.1	1093.9
12.5°	1066.4	1060.9	1066.4	1059.6	1067.8	1063.7	1065.0	1069.2	1070.5	1073.3	1074.6
15°	1045.8	1038.9	1041.7	1037.5	1045.8	1041.7	1043.1	1048.6	1048.6	1052.7	1056.8
17.5°	1019.7	1014.2	1019.7	1014.2	1021.1	1018.3	1021.1	1025.2	1025.2	1029.3	1033.4
20°	996.3	990.8	995.0	990.8	999.1	995.0	996.3	1001.8	1003.2	1007.3	1011.4
22.5°	967.5	963.3	966.1	962.0	970.2	967.5	968.9	974.3	975.7	978.5	985.3
25°	937.2	929.0	933.1	930.4	938.6	934.5	937.2	942.7	945.5	949.6	955.1
27.5°	893.3	889.1	891.9	891.9	898.7	894.7	896.0	901.5	905.6	909.7	916.6
30°	847.9	841.1	843.8	845.1	850.7	847.9	850.7	856.2	857.5	863.0	868.5
32.5°	790.2	787.4	793.0	790.2	793.0	793.0	794.3	798.4	801.2	804.0	810.8
35°	728.4	722.9	728.4	725.6	732.5	728.4	732.5	736.6	736.6	742.1	746.2
37.5°	661.0	654.1	656.9	656.9	659.6	658.3	658.3	665.2	666.5	670.6	674.8
40°	581.3	578.5	584.1	582.7	584.1	584.1	585.4	589.5	592.3	593.7	595.1
42.5°	509.9	511.2	512.6	512.6	512.6	512.6	512.6	518.1	516.7	520.9	522.2
45°	450.7	445.3	448.0	446.7	450.7	446.7	450.7	454.9	452.1	456.3	453.5
47.5°	390.3	390.3	390.3	388.9	391.7	390.3	393.0	394.4	394.4	394.4	393.0
50°	342.2	338.1	339.4	339.4	340.8	339.4	342.2	343.6	343.6	340.8	335.3
52.5°	295.4	294.1	294.1	296.8	296.8	295.4	295.4	295.4	295.4	291.4	288.6
55°	257.0	254.3	255.6	255.6	255.6	255.6	257.0	255.6	255.6	251.5	247.4
57.5°	222.6	219.9	219.9	219.9	221.2	219.9	219.9	219.9	218.5	214.4	208.9
60°	189.7	188.3	189.7	189.7	191.0	189.7	189.7	189.7	186.9	182.8	177.3
62.5°	162.2	162.2	162.2	163.5	163.5	162.2	162.2	160.8	159.4	153.9	148.4
65°	138.8	137.4	138.8	138.8	140.2	140.2	138.8	137.4	136.1	130.5	125.1
67.5°	115.4	114.1	115.4	115.4	116.8	115.4	115.4	115.4	111.3	108.6	103.0
70°	93.4	92.1	92.1	92.1	93.4	90.7	92.1	92.1	89.4	85.2	79.7
72.5°	71.5	71.5	71.5	71.5	71.5	71.5	70.1	70.1	67.3	63.2	60.5
75°	52.2	52.2	53.6	53.6	52.2	52.2	52.2	50.9	49.5	46.7	44.0
77.5°	38.5	38.5	38.5	38.5	37.1	37.1	37.1	35.7	34.4	33.0	30.2
80°	27.5	27.5	27.5	26.1	27.5	26.1	26.1	26.1	23.4	22.0	20.6
82.5°	19.2	17.9	17.9	17.9	17.9	17.9	17.9	16.5	16.5	15.1	13.7
85°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	9.6	8.3	8.3
87.5°	5.5	6.9	6.9	6.9	6.9	6.9	6.9	5.5	5.5	5.5	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°	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9
2.5°	1132.4	1132.4	1135.1	1131.0	1137.9	1133.8	1132.4	1139.2	1135.1	1133.8	1136.5
5°	1122.8	1124.2	1125.5	1122.8	1129.6	1125.5	1125.5	1132.4	1129.6	1128.2	1132.4
7.5°	1110.4	1111.8	1114.5	1113.1	1118.6	1115.9	1117.3	1124.2	1121.4	1121.4	1125.5
10°	1095.3	1098.0	1100.8	1100.8	1107.6	1104.9	1104.9	1113.1	1110.4	1111.8	1117.3
12.5°	1077.4	1081.5	1085.7	1087.1	1093.9	1089.8	1091.1	1100.8	1099.4	1100.8	1106.3
15°	1058.2	1063.7	1067.8	1067.8	1076.0	1071.9	1076.0	1085.7	1082.9	1088.4	1095.3
17.5°	1036.2	1041.7	1047.2	1048.6	1056.8	1054.0	1059.6	1069.2	1069.2	1071.9	1080.2
20°	1015.6	1022.5	1025.2	1029.3	1037.5	1036.2	1038.9	1049.9	1049.9	1054.0	1062.3
22.5°	988.1	995.0	1000.4	1004.6	1011.4	1011.4	1015.6	1025.2	1025.2	1027.9	1036.2
25°	957.9	966.1	970.2	974.3	981.2	979.8	984.0	992.2	993.6	996.3	1004.6
27.5°	919.4	926.2	931.8	934.5	944.1	938.6	942.7	952.4	951.0	953.7	960.6
30°	871.3	878.2	883.6	883.6	891.9	891.9	896.0	900.1	900.1	902.9	908.4
32.5°	814.9	823.2	823.2	827.3	832.8	827.3	832.8	838.3	835.5	839.7	843.8
35°	750.3	754.5	755.8	755.8	760.0	758.6	757.2	761.3	758.6	765.5	769.6
37.5°	672.0	677.5	674.8	677.5	676.1	672.0	672.0	678.9	673.4	674.8	678.9
40°	596.4	596.4	595.1	588.2	589.5	585.4	584.1	585.4	579.9	578.5	584.1
42.5°	518.1	516.7	512.6	503.0	504.3	497.5	492.0	492.0	489.2	487.8	489.2
45°	448.0	443.9	437.0	426.0	423.2	417.8	406.8	404.0	399.9	399.9	401.3
47.5°	383.4	377.9	366.9	354.6	347.7	340.8	329.8	325.7	318.8	316.1	318.8
50°	329.8	320.2	306.5	288.6	281.7	273.5	262.5	255.6	248.7	246.0	244.6
52.5°	280.4	266.6	252.9	230.9	225.4	217.2	202.0	195.1	188.3	182.8	182.8
55°	237.7	225.4	206.1	185.5	177.3	169.0	153.9	144.3	137.4	134.7	131.9
57.5°	199.3	185.5	167.6	145.7	137.4	129.2	114.1	104.4	97.6	93.4	90.7
60°	167.6	152.6	134.7	115.4	105.8	97.6	82.5	72.8	65.9	61.9	59.1
62.5°	137.4	125.1	107.2	89.4	81.1	72.8	60.5	50.9	44.0	41.2	37.1
65°	115.4	103.0	86.6	71.5	64.6	56.3	45.4	37.1	31.6	27.5	24.8
67.5°	93.4	83.8	70.1	56.3	49.5	44.0	34.4	27.5	22.0	19.2	17.9
70°	74.2	64.6	53.6	42.6	38.5	33.0	26.1	19.2	16.5	13.7	12.4
72.5°	55.0	48.1	39.8	31.6	27.5	24.8	17.9	15.1	11.0	9.6	8.3
75°	39.8	34.4	28.8	22.0	19.2	17.9	13.7	9.6	8.3	6.9	5.5
77.5°	27.5	24.8	19.2	15.1	13.7	12.4	9.6	6.9	5.5	4.1	4.1
80°	17.9	15.1	12.4	9.6	9.6	8.3	5.5	4.1	4.1	2.7	2.7
82.5°	11.0	9.6	8.3	6.9	5.5	5.5	4.1	2.7	2.7	1.4	1.4
85°	6.9	5.5	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°	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9
2.5°	1136.5	1136.5	1139.2	1135.1	1137.9	1137.9	1140.6	1135.1	1137.9	1139.2	1142.0
5°	1131.0	1132.4	1135.1	1133.8	1135.1	1135.1	1137.9	1131.0	1136.5	1136.5	1140.6
7.5°	1125.5	1125.5	1128.2	1126.9	1129.6	1131.0	1133.8	1128.2	1133.8	1133.8	1137.9
10°	1118.6	1118.6	1122.8	1121.4	1125.5	1126.9	1131.0	1125.5	1131.0	1132.4	1136.5
12.5°	1109.0	1110.4	1114.5	1114.5	1118.6	1121.4	1125.5	1122.8	1129.6	1131.0	1136.5
15°	1098.0	1100.8	1106.3	1104.9	1109.0	1113.1	1118.6	1114.5	1124.2	1126.9	1132.4
17.5°	1084.3	1087.1	1091.1	1091.1	1095.3	1098.0	1104.9	1102.1	1110.4	1111.8	1118.6
20°	1063.7	1067.8	1073.3	1071.9	1076.0	1078.8	1084.3	1081.5	1089.8	1092.5	1099.4
22.5°	1038.9	1041.7	1045.8	1045.8	1049.9	1052.7	1058.2	1054.0	1062.3	1063.7	1069.2
25°	1006.0	1008.7	1011.4	1012.8	1016.9	1018.3	1021.1	1018.3	1025.2	1026.6	1033.4
27.5°	963.3	964.7	968.9	968.9	971.6	972.9	977.1	971.6	981.2	981.2	985.3
30°	912.5	911.1	916.6	913.9	916.6	916.6	920.8	918.0	924.9	922.1	926.2
32.5°	845.1	847.9	847.9	845.1	850.7	849.3	849.3	846.5	850.7	852.0	854.8
35°	766.9	770.9	770.9	772.3	773.7	769.6	770.9	762.7	769.6	770.9	772.3
37.5°	681.6	677.5	680.2	676.1	683.0	674.8	674.8	669.3	674.8	674.8	676.1
40°	584.1	582.7	585.4	582.7	581.3	579.9	577.2	573.1	578.5	575.8	579.9
42.5°	492.0	490.6	490.6	487.8	486.5	486.5	483.8	481.0	479.6	479.6	486.5
45°	397.1	399.9	397.1	395.8	398.5	395.8	397.1	391.7	394.4	391.7	394.4
47.5°	317.5	318.8	316.1	313.3	317.5	313.3	313.3	309.2	314.7	314.7	311.9
50°	246.0	244.6	241.9	244.6	243.2	243.2	243.2	239.1	241.9	237.7	240.5
52.5°	181.4	180.0	180.0	178.7	180.0	178.7	178.7	177.3	177.3	175.9	177.3
55°	131.9	130.5	127.8	127.8	127.8	129.2	127.8	126.5	126.5	125.1	126.5
57.5°	89.4	86.6	86.6	86.6	86.6	85.2	85.2	83.8	85.2	83.8	85.2
60°	57.7	57.7	55.0	55.0	55.0	55.0	55.0	53.6	55.0	55.0	55.0
62.5°	35.7	35.7	34.4	33.0	34.4	33.0	33.0	33.0	34.4	33.0	34.4
65°	23.4	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
67.5°	16.5	15.1	15.1	15.1	15.1	15.1	15.1	13.7	15.1	15.1	15.1
70°	11.0	11.0	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
72.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
75°	5.5	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: P684112

CATALOG NUMBER: LX6C20D010 EX6C209035 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9	1137.9
2.5°	1137.9	1139.2	1136.5	1137.9	1135.1	1137.9	1139.2	1142.0
5°	1135.1	1136.5	1133.8	1136.5	1133.8	1136.5	1137.9	1140.6
7.5°	1132.4	1135.1	1132.4	1135.1	1132.4	1135.1	1136.5	1139.2
10°	1132.4	1136.5	1133.8	1137.9	1133.8	1136.5	1139.2	1140.6
12.5°	1132.4	1136.5	1135.1	1137.9	1136.5	1139.2	1142.0	1144.7
15°	1129.6	1133.8	1131.0	1135.1	1133.8	1135.1	1140.6	1140.6
17.5°	1114.5	1118.6	1118.6	1121.4	1121.4	1125.5	1128.2	1131.0
20°	1095.3	1099.4	1098.0	1102.1	1102.1	1106.3	1109.0	1111.8
22.5°	1066.4	1071.9	1070.5	1074.6	1073.3	1076.0	1081.5	1080.2
25°	1029.3	1036.2	1034.8	1037.5	1036.2	1036.2	1038.9	1040.3
27.5°	984.0	988.1	986.7	989.5	986.7	989.5	992.2	993.6
30°	924.9	927.6	926.2	927.6	926.2	929.0	930.4	933.1
32.5°	853.4	857.5	853.4	856.2	854.8	854.8	860.3	857.5
35°	768.2	769.6	770.9	770.9	768.2	769.6	772.3	772.3
37.5°	673.4	680.2	672.0	676.1	674.8	674.8	674.8	678.9
40°	574.5	575.8	573.1	573.1	573.1	571.7	577.2	575.8
42.5°	481.0	482.4	481.0	476.9	478.2	478.2	482.4	476.9
45°	390.3	393.0	391.7	391.7	388.9	388.9	390.3	387.5
47.5°	309.2	311.9	307.8	309.2	306.5	309.2	307.8	310.6
50°	235.0	237.7	236.4	237.7	237.7	235.0	239.1	233.6
52.5°	175.9	177.3	175.9	174.5	173.2	173.2	175.9	174.5
55°	125.1	123.7	123.7	123.7	125.1	125.1	123.7	122.3
57.5°	83.8	83.8	82.5	82.5	83.8	81.1	82.5	81.1
60°	53.6	53.6	53.6	53.6	52.2	53.6	53.6	53.6
62.5°	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0
65°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	22.0
67.5°	13.7	15.1	15.1	15.1	13.7	13.7	13.7	13.7
70°	9.6	9.6	9.6	9.6	9.6	9.6	9.6	9.6
72.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
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)