

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: P563918

Luminaire Tested: **LX6C20D010 EX6C209030 6LCSWH**

Issue Date: 2/15/2022

Test Information

Test Method: LM-79-08
Report Number: P563918
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 EX6C209030 6LCSWH
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LCSW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

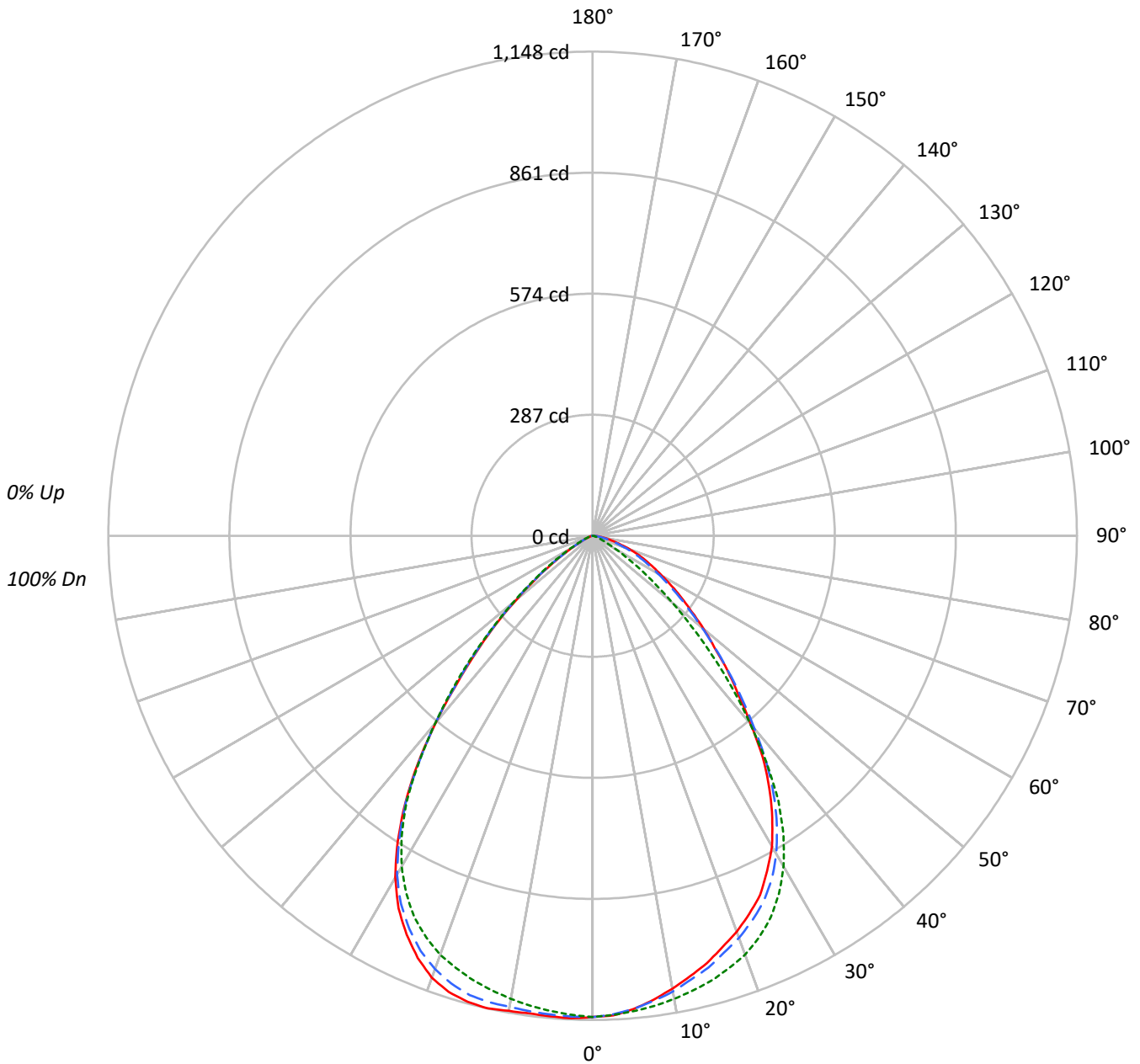
Lumens per Lamp: N/A
Luminaire Lumens: 1914.4 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	62555	62555	62555
5°	61958	62260	62943
10°	60681	62062	63671
15°	59518	61947	64915
20°	58286	61664	65041
25°	56852	60433	63100
30°	53825	57313	59231
35°	48887	51370	51832
40°	41721	41521	41327
45°	35042	31088	30135
50°	29270	21040	19982
55°	24640	12912	11727
60°	20854	6798	5888
65°	18056	3580	2867
70°	15019	2212	1555
75°	11099	1461	890
80°	8713	852	442
85°	6982	881	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	5.6
10°-20°	307.9	16.1
20°-30°	454.7	23.8
30°-40°	468.6	24.5
40°-50°	323.6	16.9
50°-60°	159.5	8.3
60°-70°	64.7	3.4
70°-80°	23.1	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°	870.1	45.5
0°-40°	1338.7	69.9
0°-60°	1821.9	95.2
0°-90°	1914.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1914.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1141	1141	1141	1141	1141	
5°	1126	1126	1131	1140	1144	106
15°	1049	1060	1092	1127	1144	295
25°	940	958	999	1028	1043	430
35°	730	748	768	772	774	453
45°	452	455	401	396	389	349
55°	258	248	135	127	123	233
65°	139	125	28	22	22	138
75°	52	44	7	4	4	59
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°	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1
2.5°	1138.3	1134.2	1136.9	1131.4	1138.3	1131.4	1132.9	1134.2	1132.9	1134.2	1135.6
5°	1125.9	1121.8	1125.9	1119.0	1125.9	1121.8	1121.8	1123.2	1123.2	1124.5	1125.9
7.5°	1109.4	1105.3	1109.4	1102.5	1110.8	1106.6	1106.6	1109.4	1108.0	1109.4	1112.1
10°	1090.1	1084.5	1088.7	1084.5	1092.9	1087.3	1090.1	1090.1	1090.1	1094.2	1097.1
12.5°	1069.4	1063.9	1069.4	1062.6	1070.8	1066.6	1068.1	1072.1	1073.6	1076.3	1077.6
15°	1048.7	1041.8	1044.6	1040.5	1048.7	1044.6	1046.0	1051.5	1051.5	1055.7	1059.8
17.5°	1022.6	1017.0	1022.6	1017.0	1023.9	1021.2	1023.9	1028.1	1028.1	1032.3	1036.3
20°	999.1	993.6	997.8	993.6	1001.9	997.8	999.1	1004.7	1006.0	1010.2	1014.3
22.5°	970.2	966.0	968.8	964.7	973.0	970.2	971.6	977.1	978.4	981.2	988.1
25°	939.9	931.6	935.7	933.0	941.3	937.1	939.9	945.4	948.1	952.3	957.8
27.5°	895.7	891.6	894.3	894.3	901.2	897.2	898.5	904.1	908.2	912.3	919.2
30°	850.3	843.5	846.2	847.5	853.0	850.3	853.0	858.5	859.9	865.4	870.9
32.5°	792.4	789.7	795.1	792.4	795.1	795.1	796.6	800.6	803.4	806.2	813.1
35°	730.5	725.0	730.5	727.7	734.5	730.5	734.5	738.7	738.7	744.2	748.4
37.5°	662.9	656.0	658.7	658.7	661.5	660.2	660.2	667.0	668.4	672.5	676.6
40°	583.0	580.2	585.7	584.3	585.7	585.7	587.0	591.2	593.9	595.4	596.8
42.5°	511.2	512.7	514.0	514.0	514.0	514.0	514.0	519.5	518.2	522.3	523.7
45°	452.0	446.6	449.3	447.9	452.0	447.9	452.0	456.1	453.4	457.5	454.8
47.5°	391.4	391.4	391.4	390.0	392.7	391.4	394.2	395.5	395.5	395.5	394.2
50°	343.2	339.0	340.4	340.4	341.8	340.4	343.2	344.5	344.5	341.8	336.3
52.5°	296.3	294.9	294.9	297.6	297.6	296.3	296.3	296.3	296.3	292.1	289.4
55°	257.8	255.0	256.3	256.3	256.3	256.3	257.8	256.3	256.3	252.2	248.1
57.5°	223.3	220.5	220.5	220.5	221.9	220.5	220.5	220.5	219.1	214.9	209.4
60°	190.2	188.8	190.2	190.2	191.5	190.2	190.2	190.2	187.5	183.3	177.7
62.5°	162.7	162.7	162.7	164.0	164.0	162.7	162.7	161.2	159.9	154.3	148.8
65°	139.2	137.8	139.2	139.2	140.6	140.6	139.2	137.8	136.4	130.9	125.4
67.5°	115.8	114.3	115.8	115.8	117.1	115.8	115.8	115.8	111.6	108.8	103.3
70°	93.7	92.4	92.4	92.4	93.7	90.9	92.4	92.4	89.6	85.4	80.0
72.5°	71.7	71.7	71.7	71.7	71.7	71.7	70.3	70.3	67.5	63.4	60.6
75°	52.4	52.4	53.7	53.7	52.4	52.4	52.4	51.0	49.6	46.9	44.1
77.5°	38.7	38.7	38.7	38.7	37.2	37.2	37.2	35.8	34.5	33.1	30.3
80°	27.6	27.6	27.6	26.1	27.6	26.1	26.1	26.1	23.4	22.1	20.6
82.5°	19.3	17.9	17.9	17.9	17.9	17.9	17.9	16.6	16.6	15.2	13.8
85°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	9.7	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	4.2
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°	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1
2.5°	1135.6	1135.6	1138.3	1134.2	1141.1	1136.9	1135.6	1142.4	1138.3	1136.9	1139.7
5°	1125.9	1127.4	1128.7	1125.9	1132.9	1128.7	1128.7	1135.6	1132.9	1131.4	1135.6
7.5°	1113.5	1114.9	1117.6	1116.3	1121.8	1119.0	1120.4	1127.4	1124.5	1124.5	1128.7
10°	1098.4	1101.1	1103.9	1103.9	1110.8	1108.0	1108.0	1116.3	1113.5	1114.9	1120.4
12.5°	1080.4	1084.5	1088.7	1090.1	1097.1	1092.9	1094.2	1103.9	1102.5	1103.9	1109.4
15°	1061.1	1066.6	1070.8	1070.8	1079.0	1074.9	1079.0	1088.7	1086.0	1091.5	1098.4
17.5°	1039.1	1044.6	1050.1	1051.5	1059.8	1057.0	1062.6	1072.1	1072.1	1074.9	1083.2
20°	1018.4	1025.3	1028.1	1032.3	1040.5	1039.1	1041.8	1052.9	1052.9	1057.0	1065.3
22.5°	990.9	997.8	1003.3	1007.4	1014.3	1014.3	1018.4	1028.1	1028.1	1030.8	1039.1
25°	960.5	968.8	973.0	977.1	983.9	982.6	986.7	995.0	996.3	999.1	1007.4
27.5°	922.0	928.8	934.4	937.1	946.8	941.3	945.4	955.0	953.6	956.4	963.3
30°	873.8	880.6	886.1	886.1	894.3	894.3	898.5	902.7	902.7	905.4	911.0
32.5°	817.2	825.5	825.5	829.6	835.1	829.6	835.1	840.6	837.9	842.0	846.2
35°	752.4	756.6	758.0	758.0	762.1	760.8	759.3	763.5	760.8	767.6	771.7
37.5°	673.9	679.4	676.6	679.4	678.0	673.9	673.9	680.8	675.2	676.6	680.8
40°	598.1	598.1	596.8	589.9	591.2	587.0	585.7	587.0	581.5	580.2	585.7
42.5°	519.5	518.2	514.0	504.4	505.8	498.8	493.3	493.3	490.6	489.2	490.6
45°	449.3	445.1	438.2	427.2	424.5	419.0	407.9	405.2	401.0	401.0	402.4
47.5°	384.5	379.0	367.9	355.5	348.7	341.8	330.7	326.6	319.7	317.0	319.7
50°	330.7	321.1	307.3	289.4	282.5	274.2	263.3	256.3	249.4	246.7	245.2
52.5°	281.2	267.3	253.6	231.5	226.0	217.8	202.6	195.7	188.8	183.3	183.3
55°	238.4	226.0	206.7	186.0	177.7	169.5	154.3	144.6	137.8	135.1	132.3
57.5°	199.9	186.0	168.1	146.1	137.8	129.6	114.3	104.8	97.9	93.7	90.9
60°	168.1	153.0	135.1	115.8	106.1	97.9	82.7	73.0	66.1	62.0	59.2
62.5°	137.8	125.4	107.5	89.6	81.3	73.0	60.6	51.0	44.1	41.4	37.2
65°	115.8	103.3	86.8	71.7	64.8	56.5	45.5	37.2	31.7	27.6	24.8
67.5°	93.7	84.0	70.3	56.5	49.6	44.1	34.5	27.6	22.1	19.3	17.9
70°	74.5	64.8	53.7	42.7	38.7	33.1	26.1	19.3	16.6	13.8	12.4
72.5°	55.1	48.2	40.0	31.7	27.6	24.8	17.9	15.2	11.1	9.7	8.3
75°	40.0	34.5	28.9	22.1	19.3	17.9	13.8	9.7	8.3	6.9	5.5
77.5°	27.6	24.8	19.3	15.2	13.8	12.4	9.7	6.9	5.5	4.2	4.2
80°	17.9	15.2	12.4	9.7	9.7	8.3	5.5	4.2	4.2	2.7	2.7
82.5°	11.1	9.7	8.3	6.9	5.5	5.5	4.2	2.7	2.7	1.4	1.4
85°	6.9	5.5	4.2	4.2	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°	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1
2.5°	1139.7	1139.7	1142.4	1138.3	1141.1	1141.1	1143.8	1138.3	1141.1	1142.4	1145.2
5°	1134.2	1135.6	1138.3	1136.9	1138.3	1138.3	1141.1	1134.2	1139.7	1139.7	1143.8
7.5°	1128.7	1128.7	1131.4	1130.1	1132.9	1134.2	1136.9	1131.4	1136.9	1136.9	1141.1
10°	1121.8	1121.8	1125.9	1124.5	1128.7	1130.1	1134.2	1128.7	1134.2	1135.6	1139.7
12.5°	1112.1	1113.5	1117.6	1117.6	1121.8	1124.5	1128.7	1125.9	1132.9	1134.2	1139.7
15°	1101.1	1103.9	1109.4	1108.0	1112.1	1116.3	1121.8	1117.6	1127.4	1130.1	1135.6
17.5°	1087.3	1090.1	1094.2	1094.2	1098.4	1101.1	1108.0	1105.3	1113.5	1114.9	1121.8
20°	1066.6	1070.8	1076.3	1074.9	1079.0	1081.8	1087.3	1084.5	1092.9	1095.6	1102.5
22.5°	1041.8	1044.6	1048.7	1048.7	1052.9	1055.7	1061.1	1057.0	1065.3	1066.6	1072.1
25°	1008.8	1011.5	1014.3	1015.7	1019.7	1021.2	1023.9	1021.2	1028.1	1029.5	1036.3
27.5°	966.0	967.5	971.6	971.6	974.4	975.7	979.9	974.4	983.9	983.9	988.1
30°	915.1	913.8	919.2	916.5	919.2	919.2	923.3	920.6	927.5	924.7	928.8
32.5°	847.5	850.3	850.3	847.5	853.0	851.7	851.7	849.0	853.0	854.4	857.2
35°	769.0	773.1	773.1	774.5	775.9	771.7	773.1	764.8	771.7	773.1	774.5
37.5°	683.6	679.4	682.1	678.0	684.9	676.6	676.6	671.1	676.6	676.6	678.0
40°	585.7	584.3	587.0	584.3	583.0	581.5	578.8	574.7	580.2	577.5	581.5
42.5°	493.3	491.9	491.9	489.2	487.8	487.8	485.1	482.4	480.9	480.9	487.8
45°	398.2	401.0	398.2	396.9	399.7	396.9	398.2	392.7	395.5	392.7	395.5
47.5°	318.4	319.7	317.0	314.2	318.4	314.2	314.2	310.0	315.6	315.6	312.8
50°	246.7	245.2	242.5	245.2	243.9	243.9	243.9	239.8	242.5	238.4	241.2
52.5°	181.9	180.6	180.6	179.1	180.6	179.1	179.1	177.7	177.7	176.4	177.7
55°	132.3	130.9	128.2	128.2	128.2	129.6	128.2	126.8	126.8	125.4	126.8
57.5°	89.6	86.8	86.8	86.8	86.8	85.4	85.4	84.0	85.4	84.0	85.4
60°	57.9	57.9	55.1	55.1	55.1	55.1	55.1	53.7	55.1	55.1	55.1
62.5°	35.8	35.8	34.5	33.1	34.5	33.1	33.1	33.1	34.5	33.1	34.5
65°	23.4	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
67.5°	16.6	15.2	15.2	15.2	15.2	15.2	15.2	13.8	15.2	15.2	15.2
70°	11.1	11.1	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
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	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	4.2	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: P563918

CATALOG NUMBER: LX6C20D010 EX6C209030 6LCSWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1	1141.1
2.5°	1141.1	1142.4	1139.7	1141.1	1138.3	1141.1	1142.4	1145.2
5°	1138.3	1139.7	1136.9	1139.7	1136.9	1139.7	1141.1	1143.8
7.5°	1135.6	1138.3	1135.6	1138.3	1135.6	1138.3	1139.7	1142.4
10°	1135.6	1139.7	1136.9	1141.1	1136.9	1139.7	1142.4	1143.8
12.5°	1135.6	1139.7	1138.3	1141.1	1139.7	1142.4	1145.2	1147.9
15°	1132.9	1136.9	1134.2	1138.3	1136.9	1138.3	1143.8	1143.8
17.5°	1117.6	1121.8	1121.8	1124.5	1124.5	1128.7	1131.4	1134.2
20°	1098.4	1102.5	1101.1	1105.3	1105.3	1109.4	1112.1	1114.9
22.5°	1069.4	1074.9	1073.6	1077.6	1076.3	1079.0	1084.5	1083.2
25°	1032.3	1039.1	1037.7	1040.5	1039.1	1039.1	1041.8	1043.2
27.5°	986.7	990.9	989.4	992.3	989.4	992.3	995.0	996.3
30°	927.5	930.2	928.8	930.2	928.8	931.6	933.0	935.7
32.5°	855.8	859.9	855.8	858.5	857.2	857.2	862.7	859.9
35°	770.3	771.7	773.1	773.1	770.3	771.7	774.5	774.5
37.5°	675.2	682.1	673.9	678.0	676.6	676.6	676.6	680.8
40°	576.0	577.5	574.7	574.7	574.7	573.3	578.8	577.5
42.5°	482.4	483.7	482.4	478.2	479.6	479.6	483.7	478.2
45°	391.4	394.2	392.7	392.7	390.0	390.0	391.4	388.7
47.5°	310.0	312.8	308.7	310.0	307.3	310.0	308.7	311.5
50°	235.7	238.4	237.0	238.4	238.4	235.7	239.8	234.3
52.5°	176.4	177.7	176.4	175.0	173.6	173.6	176.4	175.0
55°	125.4	124.0	124.0	124.0	125.4	125.4	124.0	122.7
57.5°	84.0	84.0	82.7	82.7	84.0	81.3	82.7	81.3
60°	53.7	53.7	53.7	53.7	52.4	53.7	53.7	53.7
62.5°	33.1	33.1	33.1	33.1	33.1	33.1	33.1	33.1
65°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
67.5°	13.8	15.2	15.2	15.2	13.8	13.8	13.8	13.8
70°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
72.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
75°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
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)