

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: P857666

Luminaire Tested: **LX4C30D010 EX4C309850 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C30D010 EX4C309850 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

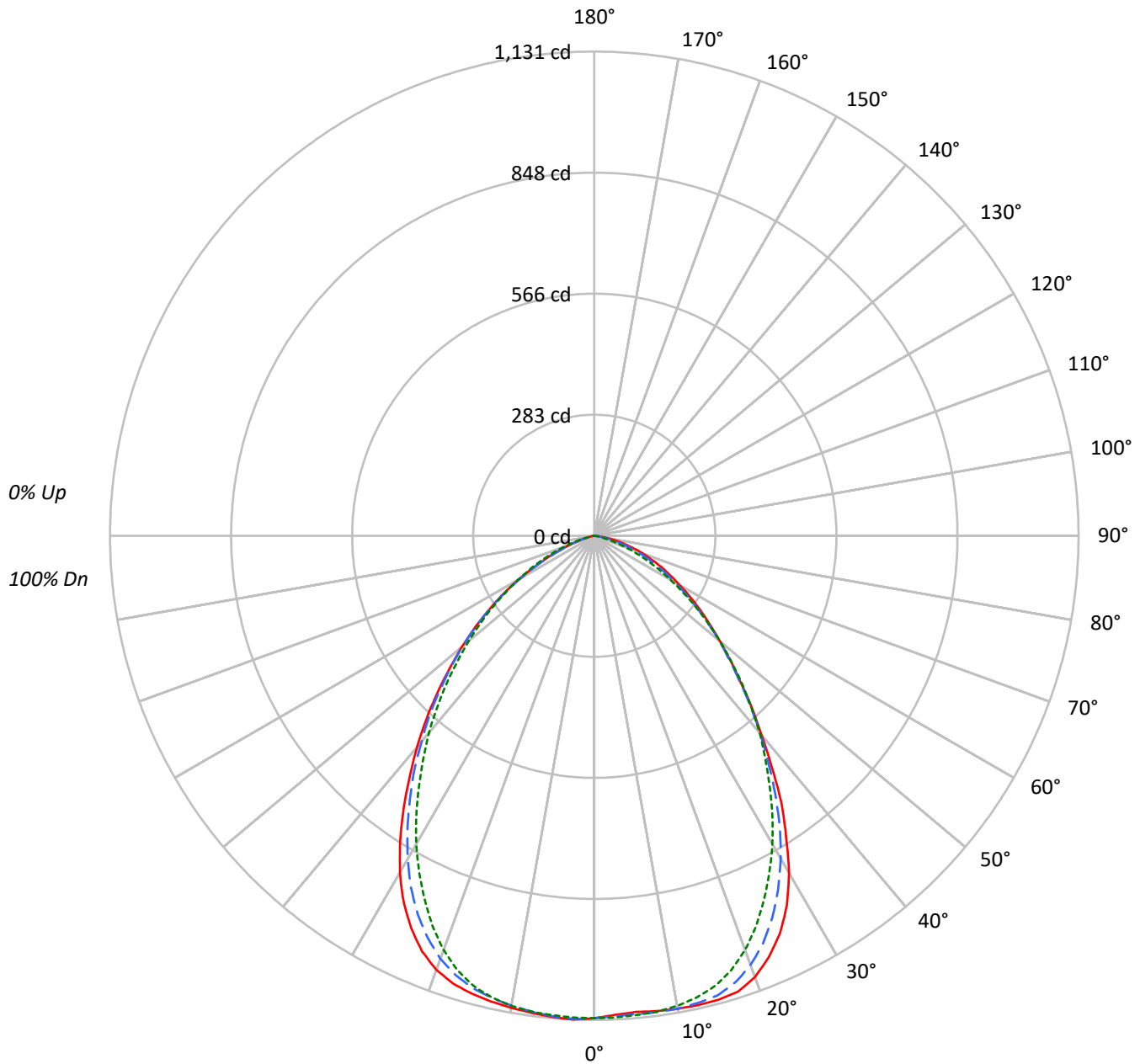
Lumens per Lamp: N/A
Luminaire Lumens: 2160.7 lumens
Efficiency: N/A
Efficacy: 68.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
Input Voltage (V):
Input Current (Ain): 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78		
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54		
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48		
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43		
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39		
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36		
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	138456	138456	138456
5°	137690	138615	139145
10°	139956	139107	139644
15°	142691	138494	140809
20°	143406	134621	141027
25°	138997	127122	137113
30°	129021	117970	128780
35°	114252	107023	116412
40°	97395	96369	103233
45°	83674	84647	89928
50°	73048	73201	77081
55°	64535	61836	63914
60°	56562	50444	50223
65°	50087	39128	34825
70°	42745	26904	20654
75°	34556	14477	9446
80°	23630	3608	2405
85°	7189	1128	1128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.1	5.0
10°-20°	310.1	14.4
20°-30°	448.0	20.7
30°-40°	463.2	21.4
40°-50°	382.7	17.7
50°-60°	264.1	12.2
60°-70°	138.3	6.4
70°-80°	43.5	2.0
80°-90°	3.7	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°	865.2	40.0
0°-40°	1328.4	61.5
0°-60°	1975.2	91.4
0°-90°	2160.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2160.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1127	1127	1127	1127	1127	
5°	1116	1122	1124	1126	1128	107
15°	1122	1111	1089	1094	1107	317
25°	1025	984	938	976	1012	468
35°	762	736	714	751	776	473
45°	482	480	487	510	518	375
55°	301	292	289	297	298	271
65°	172	156	135	112	120	171
75°	73	57	30	21	20	78
85°	5	2	1	1	1	11
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°	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0
2.5°	1119.8	1120.2	1120.2	1121.1	1121.1	1121.1	1121.5	1121.5	1121.9	1122.3	1122.8
5°	1116.5	1116.5	1117.3	1117.7	1118.5	1119.0	1119.8	1120.2	1121.1	1121.5	1121.9
7.5°	1119.8	1119.8	1120.2	1120.7	1120.7	1121.1	1121.1	1121.5	1121.9	1122.3	1122.3
10°	1121.9	1121.9	1121.9	1121.9	1122.3	1122.3	1122.3	1121.9	1121.9	1121.9	1121.5
12.5°	1122.8	1122.8	1122.3	1121.9	1122.3	1121.9	1121.9	1120.7	1119.8	1119.0	1117.7
15°	1121.9	1121.9	1121.5	1121.1	1120.7	1119.8	1119.4	1117.3	1115.6	1113.1	1111.4
17.5°	1116.5	1115.6	1114.8	1113.9	1112.2	1110.9	1110.0	1106.3	1103.4	1099.1	1094.4
20°	1096.9	1096.1	1094.9	1092.7	1090.6	1088.9	1086.4	1080.9	1077.9	1071.6	1066.9
22.5°	1065.2	1064.4	1064.8	1061.0	1056.8	1054.2	1052.5	1047.9	1042.8	1034.8	1029.7
25°	1025.4	1022.9	1022.9	1016.9	1014.9	1013.2	1011.1	1005.5	997.9	990.7	983.9
27.5°	973.8	970.4	968.7	967.9	962.8	959.0	956.0	951.8	945.4	939.1	929.8
30°	909.5	909.0	906.9	903.2	899.3	897.6	894.2	887.0	881.1	876.5	870.5
32.5°	833.7	833.3	833.3	833.3	830.7	830.3	825.3	821.5	816.8	809.6	805.8
35°	761.8	761.4	761.8	755.4	753.7	752.5	752.0	749.5	743.2	739.8	736.4
37.5°	680.5	681.8	680.9	679.2	681.4	677.5	680.5	675.0	672.5	671.7	667.8
40°	607.3	610.7	607.3	607.7	609.9	606.0	606.0	605.2	603.5	602.6	601.8
42.5°	544.7	540.5	543.0	540.8	543.0	541.7	539.6	540.8	541.3	539.6	539.1
45°	481.6	482.4	483.3	482.1	482.1	480.7	484.1	482.1	482.1	482.4	479.5
47.5°	430.4	429.1	430.0	429.1	429.6	428.7	429.6	430.0	429.1	429.1	426.6
50°	382.2	381.3	384.3	381.8	381.8	381.3	381.8	380.9	379.6	379.6	380.5
52.5°	340.3	338.6	338.1	340.3	337.3	337.3	337.7	336.9	335.2	334.3	332.3
55°	301.3	300.9	301.3	299.6	298.8	298.8	296.7	295.8	295.4	293.3	292.0
57.5°	264.9	263.7	264.0	263.7	262.0	261.5	259.9	259.9	258.2	256.5	254.3
60°	230.2	230.2	231.5	229.8	228.6	227.7	226.9	226.0	223.0	220.1	217.5
62.5°	199.3	199.8	199.3	198.1	197.3	196.4	195.6	193.0	190.5	188.8	185.7
65°	172.3	171.8	170.6	169.7	167.6	167.6	165.9	164.6	161.7	159.1	156.1
67.5°	144.3	143.5	143.5	143.5	140.9	140.5	139.6	137.1	134.6	131.2	128.7
70°	119.0	119.8	118.5	117.3	115.9	115.6	114.2	111.7	108.8	105.4	103.3
72.5°	94.8	95.7	94.3	94.0	91.4	90.6	90.2	88.0	84.6	82.5	79.1
75°	72.8	73.2	72.4	71.5	69.8	69.4	67.3	65.6	63.5	60.1	57.2
77.5°	52.4	51.6	51.6	49.9	48.2	48.2	47.8	45.3	42.4	39.8	37.3
80°	33.4	33.0	31.7	30.9	29.6	29.2	28.8	26.7	24.5	22.8	21.1
82.5°	16.9	16.5	16.1	15.7	14.8	14.0	14.4	12.7	11.9	10.2	8.9
85°	5.1	5.5	5.5	5.1	4.6	4.6	4.6	4.2	3.4	2.9	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0
2.5°	1123.2	1123.6	1124.0	1124.5	1124.5	1124.9	1125.3	1125.7	1126.2	1126.2	1126.6
5°	1122.3	1123.2	1123.2	1123.6	1123.6	1123.6	1124.0	1124.0	1124.0	1124.0	1124.5
7.5°	1122.8	1122.8	1122.8	1122.3	1122.3	1121.9	1121.9	1121.9	1121.1	1121.1	1121.1
10°	1120.7	1120.2	1119.8	1119.0	1118.5	1118.2	1117.3	1116.5	1115.6	1115.1	1114.3
12.5°	1116.5	1114.8	1113.1	1111.4	1110.5	1110.0	1108.4	1107.1	1105.8	1104.6	1103.7
15°	1108.0	1105.4	1102.5	1099.1	1098.3	1097.4	1094.4	1091.8	1090.2	1088.9	1086.8
17.5°	1091.0	1086.0	1082.6	1077.5	1075.4	1074.5	1069.9	1067.3	1064.4	1063.5	1061.8
20°	1061.0	1056.4	1050.0	1045.3	1042.8	1040.2	1036.5	1033.1	1029.7	1029.7	1027.6
22.5°	1023.4	1017.4	1009.4	1003.5	1003.0	997.9	994.6	990.7	989.5	986.9	986.9
25°	975.9	970.8	961.9	956.8	954.3	953.1	947.6	942.5	940.0	937.8	939.5
27.5°	923.5	915.8	909.0	902.7	900.6	898.1	893.0	890.9	886.2	885.8	885.3
30°	863.4	855.7	848.9	846.0	841.8	839.7	835.8	833.3	831.6	831.6	830.7
32.5°	800.2	793.6	790.2	783.8	781.7	778.7	776.2	773.7	774.5	773.7	774.0
35°	732.1	730.4	724.1	720.3	720.3	719.9	715.6	713.9	713.1	713.6	715.6
37.5°	667.4	662.3	658.1	655.5	657.7	655.2	654.7	654.7	657.2	655.5	658.9
40°	598.4	598.0	596.3	597.1	597.6	594.6	595.4	595.9	597.6	600.9	601.4
42.5°	538.3	537.9	537.9	537.9	537.1	535.4	537.1	540.0	539.6	542.1	544.2
45°	480.4	479.5	481.2	479.9	482.4	483.3	482.1	482.9	485.5	487.2	490.5
47.5°	427.4	427.4	427.9	428.7	426.2	428.3	429.1	430.8	432.1	432.9	434.6
50°	378.4	378.4	377.5	377.5	377.5	378.8	377.1	379.2	379.6	383.0	385.1
52.5°	333.1	330.9	332.3	331.4	329.7	328.9	329.7	330.1	332.6	333.5	336.0
55°	289.9	289.9	286.5	285.6	287.0	286.5	286.1	286.1	287.3	288.7	290.7
57.5°	251.8	249.2	246.7	246.3	245.1	245.5	245.5	245.1	244.2	244.6	245.1
60°	215.8	214.1	210.4	210.4	209.9	209.5	207.3	207.0	204.8	205.3	203.6
62.5°	182.8	182.0	176.9	175.2	175.2	174.0	171.8	171.4	168.5	168.5	166.8
65°	153.2	150.7	147.7	144.7	144.7	143.0	141.8	138.0	135.8	134.6	132.1
67.5°	126.1	122.3	119.3	116.8	115.1	114.7	111.7	109.1	105.8	103.7	99.9
70°	99.9	96.9	94.0	91.4	89.7	88.0	85.1	81.2	78.7	74.9	72.4
72.5°	75.4	72.8	70.3	66.9	64.7	63.5	60.5	57.2	52.9	50.4	47.0
75°	54.1	51.2	47.8	44.9	43.6	42.4	39.0	36.4	33.4	30.5	27.1
77.5°	35.1	31.7	29.2	25.8	25.4	24.5	21.1	18.6	16.5	14.8	12.7
80°	18.6	16.9	14.8	12.7	11.9	10.6	8.9	7.6	6.3	5.1	4.2
82.5°	8.0	6.8	5.5	4.6	4.2	3.8	2.9	2.5	2.1	2.1	1.7
85°	2.1	1.7	1.7	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.4	0.4	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°	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0
2.5°	1127.0	1127.4	1127.9	1127.9	1128.3	1128.7	1128.7	1129.1	1129.6	1130.0	1130.0
5°	1124.9	1124.9	1124.9	1125.3	1125.3	1125.3	1125.3	1126.2	1126.2	1126.6	1127.0
7.5°	1120.7	1120.7	1120.7	1120.7	1120.2	1120.7	1120.2	1120.2	1121.1	1121.5	1121.9
10°	1113.9	1113.4	1113.4	1113.1	1113.1	1113.1	1113.4	1113.9	1114.3	1114.8	1116.0
12.5°	1103.4	1102.9	1102.9	1102.5	1102.5	1102.9	1103.4	1104.2	1105.8	1106.7	1108.4
15°	1086.4	1086.0	1086.4	1086.8	1087.7	1088.9	1090.2	1091.5	1094.0	1096.1	1098.3
17.5°	1061.8	1062.2	1062.7	1063.5	1064.8	1066.5	1069.9	1073.3	1076.2	1079.6	1083.0
20°	1028.0	1029.7	1030.1	1033.1	1033.9	1037.7	1041.6	1046.6	1051.3	1055.5	1060.1
22.5°	987.3	988.6	990.3	993.7	995.8	1000.9	1005.5	1011.5	1016.6	1022.0	1028.8
25°	941.2	941.7	946.8	946.8	951.8	956.0	961.6	967.9	975.5	982.7	987.3
27.5°	888.7	890.9	894.7	896.4	900.2	906.9	911.6	919.2	926.9	933.2	938.3
30°	833.7	835.4	841.8	842.6	845.5	851.5	857.9	865.1	871.0	878.2	882.8
32.5°	775.7	780.4	784.2	787.1	788.0	796.9	800.2	805.3	812.1	819.3	824.0
35°	719.5	721.6	727.0	728.7	731.3	736.4	743.2	747.4	750.8	755.4	760.9
37.5°	659.8	666.1	667.4	672.5	673.4	678.0	681.4	686.5	690.7	694.9	695.7
40°	604.3	606.5	611.1	612.4	613.3	619.6	623.8	625.1	627.2	631.0	636.1
42.5°	548.1	550.2	555.3	554.0	557.8	560.7	562.9	568.0	570.1	571.3	571.3
45°	492.6	493.5	496.9	498.6	500.6	502.3	506.2	508.7	509.5	513.4	514.6
47.5°	439.7	440.5	443.1	446.0	445.2	447.3	451.6	452.8	453.3	455.8	457.1
50°	387.6	389.8	393.2	392.3	394.9	396.1	399.9	400.7	400.7	401.2	401.6
52.5°	339.0	340.6	341.5	342.3	343.7	345.7	347.4	346.6	348.3	350.0	348.8
55°	290.7	292.0	294.1	295.0	295.0	295.4	294.5	298.4	296.7	296.2	296.7
57.5°	246.7	245.1	244.6	246.7	247.5	247.2	245.9	247.5	247.5	246.7	245.5
60°	204.0	202.7	202.3	202.7	201.0	199.8	200.6	199.8	197.6	196.8	197.3
62.5°	165.1	163.8	160.4	160.4	159.5	159.1	155.7	156.1	154.4	152.0	152.8
65°	129.0	125.7	124.0	123.6	120.7	118.1	117.3	114.2	111.7	111.3	111.7
67.5°	96.9	93.1	90.2	88.9	87.2	85.1	82.1	79.5	80.4	80.0	81.7
70°	67.3	64.7	61.8	59.7	60.5	58.0	56.3	56.3	56.7	57.2	58.0
72.5°	44.9	41.5	40.2	39.0	38.1	36.4	37.3	37.3	36.8	37.3	36.4
75°	25.4	23.7	22.5	22.0	21.1	21.1	21.1	21.1	20.8	20.3	20.3
77.5°	11.4	10.6	10.2	9.7	9.7	9.7	9.3	8.9	8.9	8.9	8.5
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
82.5°	1.7	1.7	2.1	2.1	2.1	1.7	2.1	2.1	1.7	1.7	2.1
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.0	0.4	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



TEST NUMBER: P857666

CATALOG NUMBER: LX4C30D010 EX4C309850 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0	1127.0
2.5°	1130.4	1130.8	1130.8	1130.8	1131.3	1131.3	1131.3	1131.3
5°	1127.4	1127.9	1127.9	1127.9	1128.3	1128.3	1128.3	1128.3
7.5°	1122.3	1122.8	1122.8	1123.2	1123.6	1123.6	1123.6	1124.0
10°	1116.5	1117.3	1117.7	1118.2	1118.5	1119.0	1119.0	1119.4
12.5°	1110.0	1110.9	1111.4	1112.2	1113.1	1113.4	1113.9	1114.3
15°	1100.8	1102.5	1103.4	1103.7	1105.4	1106.3	1106.7	1107.1
17.5°	1086.0	1089.4	1090.6	1091.5	1093.2	1094.9	1096.1	1096.6
20°	1064.8	1068.6	1070.3	1072.4	1075.0	1077.0	1077.9	1078.7
22.5°	1035.1	1039.4	1041.9	1044.5	1046.6	1048.7	1052.1	1050.8
25°	992.9	1000.1	1003.0	1004.3	1008.9	1011.5	1013.2	1011.5
27.5°	945.4	949.7	952.2	955.1	958.5	961.1	961.9	964.5
30°	888.4	895.5	895.1	898.1	902.3	904.9	905.7	907.8
32.5°	829.1	832.4	835.0	834.6	836.3	840.9	839.2	843.1
35°	766.0	766.5	770.6	770.3	773.7	773.7	773.7	776.2
37.5°	698.7	703.8	701.7	706.8	705.1	706.3	706.3	707.2
40°	637.3	639.0	639.0	640.7	642.1	640.7	641.6	643.7
42.5°	573.8	575.5	576.0	575.2	576.4	580.3	577.2	579.8
45°	514.6	515.9	517.6	516.3	518.5	517.1	518.5	517.6
47.5°	458.8	458.4	457.9	461.3	458.4	458.8	460.5	457.5
50°	401.6	404.1	402.4	403.8	404.6	404.6	403.3	403.3
52.5°	350.8	350.5	349.1	350.5	349.6	350.0	350.8	350.0
55°	298.4	300.1	299.2	298.8	299.2	299.2	301.8	298.4
57.5°	246.7	245.9	247.2	250.1	247.2	249.2	250.6	250.9
60°	197.6	197.6	200.2	198.9	201.4	203.6	205.3	204.4
62.5°	150.7	152.8	153.6	154.1	156.6	158.3	158.3	157.8
65°	111.7	114.7	114.7	116.4	117.3	117.3	118.1	119.8
67.5°	82.5	82.5	82.9	83.8	83.4	83.4	84.2	84.6
70°	57.5	56.7	58.0	57.5	57.5	57.2	57.5	57.5
72.5°	36.4	36.4	36.8	36.4	35.6	35.9	35.9	36.8
75°	19.4	20.3	19.4	19.4	19.9	19.1	19.4	19.9
77.5°	8.0	8.0	8.0	8.0	8.0	7.6	7.6	7.6
80°	3.8	3.8	3.8	3.8	3.8	3.8	3.4	3.4
82.5°	1.7	2.1	1.7	2.1	1.7	1.7	1.7	1.7
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.4
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)