

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: P857667

Luminaire Tested: **LX4C30D010 EX4C309850 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C30D010 EX4C309850 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

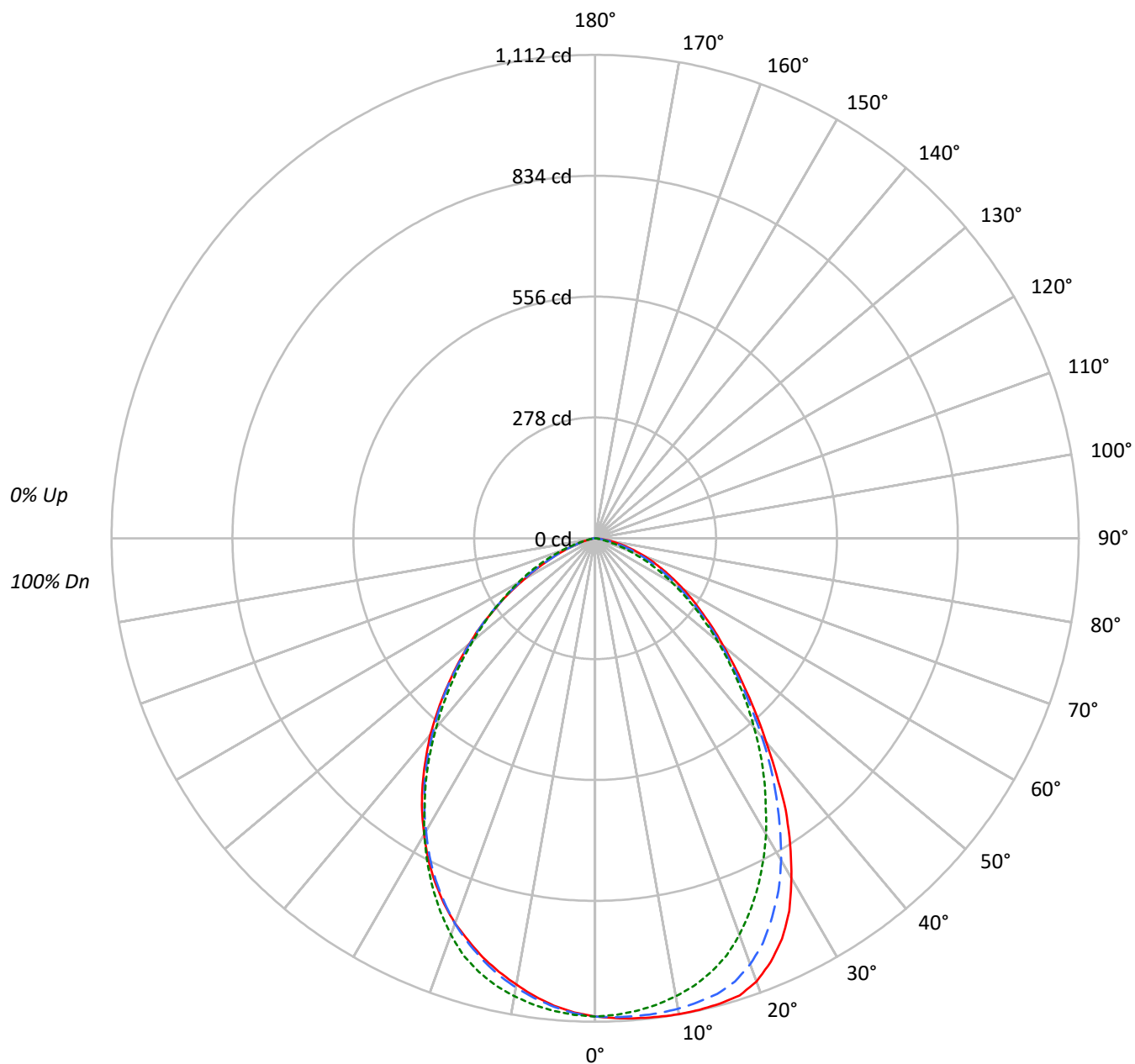
Lumens per Lamp: N/A
Luminaire Lumens: 2073.3 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68		
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60		
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39		
9	62	50	43	38	61	50	42	37	49	42	37	47	41	37	47	41	37	35		
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	135151	135151	135151
5°	136666	134570	133127
10°	138671	133431	130063
15°	140949	131321	126946
20°	141838	126842	123194
25°	137777	119992	118162
30°	128028	111530	111586
35°	114597	101669	103829
40°	98117	91140	94460
45°	84473	80355	83361
50°	73431	69952	72055
55°	64621	60187	59630
60°	57495	50223	46267
65°	50407	40232	33459
70°	43319	28413	22630
75°	35126	16471	13243
80°	25186	7216	6580
85°	9585	2960	2960



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.7	5.0
10°-20°	293.5	14.2
20°-30°	419.1	20.2
30°-40°	438.4	21.1
40°-50°	367.3	17.7
50°-60°	257.1	12.4
60°-70°	140.0	6.8
70°-80°	48.6	2.3
80°-90°	5.6	0.3
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°	816.3	39.4
0°-40°	1254.7	60.5
0°-60°	1879.1	90.6
0°-90°	2073.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2073.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1100	1100	1100	1100	1100	
5°	1108	1103	1091	1082	1080	106
15°	1108	1085	1032	1003	998	313
25°	1016	962	885	868	872	464
35°	764	726	678	683	692	474
45°	486	475	462	478	480	378
55°	302	292	281	281	278	273
65°	173	158	138	116	115	173
75°	74	60	35	28	28	80
85°	7	4	2	2	2	12
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°	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1
2.5°	1105.2	1104.0	1104.3	1104.3	1104.3	1104.0	1104.3	1104.0	1104.0	1103.5	1102.6
5°	1108.2	1107.4	1107.4	1107.4	1106.9	1106.5	1106.5	1106.0	1105.2	1104.8	1103.1
7.5°	1110.3	1109.4	1109.4	1109.1	1108.6	1108.2	1107.7	1106.5	1105.2	1104.3	1102.3
10°	1111.6	1110.3	1110.3	1109.4	1108.6	1108.2	1107.4	1105.7	1104.0	1101.8	1098.9
12.5°	1110.8	1109.4	1109.1	1108.2	1106.5	1105.7	1104.8	1102.6	1099.7	1096.8	1092.9
15°	1108.2	1107.4	1106.5	1105.2	1103.1	1101.8	1101.0	1097.6	1093.8	1089.5	1084.9
17.5°	1103.1	1101.8	1100.1	1098.4	1095.5	1094.3	1092.1	1087.8	1082.4	1076.4	1069.3
20°	1084.9	1084.1	1082.4	1079.5	1074.7	1073.0	1070.1	1064.6	1057.4	1050.2	1042.6
22.5°	1054.8	1053.6	1051.1	1048.5	1044.3	1041.3	1038.8	1031.2	1023.1	1015.5	1008.3
25°	1016.4	1015.1	1011.7	1008.3	1004.1	999.0	996.4	990.5	982.5	972.8	962.2
27.5°	966.8	962.6	961.4	957.6	951.2	949.5	945.7	938.1	930.4	922.0	913.1
30°	902.5	902.5	900.0	898.3	892.4	890.7	886.5	878.5	874.2	862.3	855.5
32.5°	834.4	833.6	831.5	830.2	826.8	823.9	819.6	815.4	806.0	800.2	790.8
35°	764.1	759.1	759.9	757.4	755.3	751.9	751.5	746.8	738.4	735.0	726.5
37.5°	684.2	682.1	685.0	681.2	679.2	679.5	676.2	673.2	669.8	663.9	662.2
40°	611.8	613.5	613.2	609.8	611.5	609.3	605.9	603.0	601.3	597.5	596.2
42.5°	547.1	544.6	543.7	543.7	544.1	544.1	542.4	540.3	540.3	536.6	532.7
45°	486.2	486.2	485.4	487.9	484.0	484.0	482.8	482.3	480.6	479.8	475.2
47.5°	433.7	433.3	432.9	432.4	432.0	432.0	429.5	427.3	427.0	424.4	421.9
50°	384.2	386.7	385.9	383.8	382.9	383.4	381.7	380.4	380.0	375.8	376.1
52.5°	342.7	342.3	343.1	341.9	339.8	340.2	338.5	336.8	335.1	333.0	331.3
55°	301.7	303.8	302.9	301.7	301.2	300.4	299.2	297.0	296.6	292.0	291.5
57.5°	267.4	267.0	266.2	264.0	263.6	262.4	262.4	260.7	258.1	255.6	253.4
60°	234.0	234.0	232.7	232.3	230.6	230.2	229.8	228.1	225.1	223.0	219.6
62.5°	201.8	202.7	201.8	200.6	199.3	197.6	196.7	195.5	193.0	190.8	187.9
65°	173.4	173.1	172.6	170.9	170.5	168.8	168.5	165.9	163.4	161.7	158.3
67.5°	146.4	145.2	145.2	144.3	143.5	142.1	141.3	138.8	135.8	134.1	130.7
70°	120.6	119.8	119.8	119.8	117.6	116.4	115.9	114.7	110.4	108.7	105.4
72.5°	96.9	96.5	96.0	94.8	93.5	93.5	91.8	89.3	87.1	85.1	82.5
75°	74.0	74.9	74.0	72.3	72.0	71.1	69.8	67.7	65.5	63.0	60.1
77.5°	54.1	53.3	52.4	52.4	51.6	49.9	49.5	47.8	45.3	43.6	40.7
80°	35.6	35.1	34.2	33.4	33.0	32.5	32.2	30.5	27.9	26.7	24.1
82.5°	19.4	19.1	19.1	18.6	17.4	17.4	16.9	15.2	14.0	13.1	11.9
85°	6.8	6.8	6.8	6.3	6.3	6.3	5.9	5.5	5.1	4.6	3.8
87.5°	0.8	0.4	0.8	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.4
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°	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1
2.5°	1101.8	1101.0	1100.6	1100.1	1099.7	1099.3	1098.9	1098.0	1097.6	1097.2	1096.3
5°	1101.8	1100.1	1099.3	1098.0	1097.2	1096.3	1095.1	1093.8	1092.6	1091.2	1090.0
7.5°	1100.1	1097.6	1096.0	1093.4	1092.6	1091.2	1088.7	1087.0	1084.9	1082.4	1079.5
10°	1096.0	1092.9	1089.5	1086.1	1084.9	1082.8	1079.5	1076.4	1073.0	1069.6	1066.7
12.5°	1089.2	1084.4	1080.3	1075.6	1073.0	1071.0	1066.3	1062.1	1057.9	1054.0	1049.0
15°	1079.0	1073.5	1068.0	1061.6	1058.7	1056.2	1049.4	1044.3	1037.5	1032.5	1027.4
17.5°	1062.5	1054.0	1047.3	1039.2	1035.0	1032.0	1026.1	1018.0	1011.7	1006.2	1000.3
20°	1034.2	1026.1	1016.8	1007.9	1003.2	999.5	991.0	982.5	976.2	970.2	963.9
22.5°	996.9	986.7	979.9	969.0	965.1	960.5	950.3	942.7	935.5	929.6	923.7
25°	951.7	942.7	933.4	923.3	918.6	913.1	904.7	896.6	891.9	885.2	878.0
27.5°	899.6	892.4	881.0	872.0	867.4	863.2	855.2	848.0	841.2	836.5	829.8
30°	844.6	836.1	825.9	816.7	814.1	809.0	801.9	796.3	789.1	786.2	783.2
32.5°	784.0	774.3	766.7	760.8	755.8	751.5	747.6	738.8	737.6	729.9	729.1
35°	718.0	713.8	706.6	701.5	697.3	694.4	688.0	683.8	679.2	677.9	674.9
37.5°	655.9	650.8	644.0	639.4	636.3	636.0	631.4	628.8	625.4	623.7	620.3
40°	590.7	588.5	582.7	581.8	577.1	576.7	574.2	571.2	568.3	568.3	568.7
42.5°	530.6	528.1	525.5	522.6	520.1	520.1	518.7	517.9	517.0	515.8	517.9
45°	474.3	470.9	469.2	466.3	467.5	465.0	464.2	464.2	462.9	462.5	465.5
47.5°	421.9	418.0	416.4	415.6	415.6	415.9	412.2	413.4	413.0	413.9	415.1
50°	374.1	370.7	368.1	368.1	368.6	366.9	365.2	366.4	365.2	366.0	369.0
52.5°	329.6	326.2	325.0	325.0	322.5	322.0	322.8	321.1	321.6	322.0	323.7
55°	288.6	286.4	284.4	282.2	282.7	281.8	280.1	279.7	280.5	281.0	283.0
57.5°	251.7	248.8	245.9	245.0	244.2	244.2	242.0	241.6	242.5	240.3	240.3
60°	216.6	214.9	211.2	209.9	209.9	207.8	206.1	206.9	204.8	204.4	204.8
62.5°	184.1	182.8	180.2	177.7	176.8	176.0	173.9	173.1	172.2	170.5	168.0
65°	155.7	152.8	149.8	148.1	146.9	144.7	143.5	141.8	139.2	138.4	135.8
67.5°	127.3	124.4	121.5	120.2	118.9	117.6	115.5	113.4	110.4	107.0	104.1
70°	102.4	98.6	96.9	93.5	92.7	91.0	88.0	85.9	82.9	79.1	76.2
72.5°	78.3	75.7	73.2	70.3	68.1	66.9	64.3	60.9	57.5	55.5	52.4
75°	56.3	55.0	51.6	48.2	47.4	45.7	42.7	40.7	38.1	34.7	32.2
77.5°	38.1	35.6	33.4	30.5	29.6	27.9	26.2	24.1	22.4	20.3	18.6
80°	22.4	20.3	19.1	16.9	16.1	15.2	14.0	12.3	11.0	10.2	9.7
82.5°	11.0	9.3	8.9	7.6	7.2	6.8	5.9	5.5	4.6	4.6	4.6
85°	3.8	2.9	2.9	2.5	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.4
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°	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1
2.5°	1096.0	1095.5	1095.1	1094.6	1094.6	1094.3	1094.3	1093.8	1093.8	1093.4	1093.4
5°	1088.3	1087.0	1086.1	1085.3	1085.3	1084.1	1083.2	1082.4	1082.0	1082.0	1081.1
7.5°	1077.8	1076.1	1074.4	1073.0	1072.7	1070.5	1068.8	1068.8	1067.1	1066.3	1065.5
10°	1063.8	1060.8	1058.2	1057.0	1055.3	1054.0	1051.9	1050.7	1049.4	1047.3	1046.8
12.5°	1044.7	1042.6	1038.8	1037.1	1036.3	1033.7	1030.3	1028.6	1028.2	1026.5	1025.2
15°	1023.1	1018.5	1015.1	1013.0	1013.0	1008.7	1007.0	1004.5	1002.9	1001.5	1001.2
17.5°	995.2	990.5	987.2	984.2	983.3	979.9	977.4	976.5	974.5	975.3	973.2
20°	959.2	955.4	952.9	949.1	949.1	946.9	946.1	944.0	943.2	942.3	943.2
22.5°	920.7	916.1	911.8	911.4	911.4	908.5	908.1	907.6	905.9	907.2	906.8
25°	875.4	872.0	869.5	869.1	869.1	867.4	865.7	866.6	867.8	867.4	868.6
27.5°	828.5	825.1	824.2	823.9	823.0	822.5	823.4	823.4	824.7	826.4	828.1
30°	777.7	776.9	775.6	775.2	774.3	776.4	777.3	778.6	778.1	780.7	782.4
32.5°	726.9	725.3	724.8	725.7	726.9	726.5	729.1	729.9	730.8	733.7	735.0
35°	675.8	675.3	674.5	674.5	674.9	678.3	678.3	681.2	682.9	683.8	687.2
37.5°	620.7	622.4	623.2	624.6	624.9	626.3	627.1	630.0	631.7	633.4	635.1
40°	570.4	569.6	573.3	570.8	571.7	575.4	577.1	576.7	579.3	581.8	583.5
42.5°	516.7	517.9	518.7	519.6	521.8	522.1	524.3	527.2	528.1	531.0	531.8
45°	464.6	465.0	466.7	468.4	469.7	473.1	473.9	475.2	477.7	477.7	479.0
47.5°	415.6	417.2	417.2	419.7	421.9	421.4	424.4	425.3	424.8	427.0	427.8
50°	368.6	371.1	370.7	372.4	373.2	373.6	376.1	377.0	375.3	377.5	377.8
52.5°	323.7	325.0	326.6	327.1	326.2	328.3	327.5	329.2	328.8	330.5	328.8
55°	282.7	282.2	282.2	283.0	282.2	283.0	283.9	282.2	281.0	282.7	282.2
57.5°	241.6	241.6	240.8	242.0	240.8	239.5	239.1	237.8	236.5	236.5	236.1
60°	203.1	202.2	200.6	200.1	200.1	198.1	197.2	195.5	195.5	193.8	192.1
62.5°	167.1	165.1	163.7	163.7	162.9	160.8	156.9	154.4	153.6	151.1	150.6
65°	133.3	131.2	129.9	127.3	125.3	124.4	120.6	117.6	116.4	113.8	114.2
67.5°	102.4	99.0	95.2	93.5	92.2	89.3	88.0	85.9	84.6	84.6	84.6
70°	73.7	70.6	66.9	65.5	64.7	62.2	60.9	60.5	61.8	61.4	61.8
72.5°	49.5	46.5	44.9	44.0	43.2	41.9	42.7	43.2	42.4	42.7	43.2
75°	30.1	29.2	27.9	27.5	27.5	27.9	27.5	27.5	27.9	27.9	28.4
77.5°	17.4	16.5	16.5	16.1	16.9	16.5	16.5	16.5	16.9	16.9	16.9
80°	9.3	9.3	9.3	9.3	9.7	9.3	9.7	9.7	9.7	9.7	9.7
82.5°	4.6	4.6	4.6	5.1	5.1	5.1	5.1	5.1	5.1	5.1	4.6
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4
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: P857667

CATALOG NUMBER: LX4C30D010 EX4C309850 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1	1100.1
2.5°	1092.6	1092.6	1092.6	1091.7	1092.1	1092.1	1091.7	1091.7
5°	1080.7	1080.3	1079.5	1079.5	1078.6	1079.5	1079.0	1079.5
7.5°	1064.6	1064.6	1063.3	1063.3	1062.9	1062.5	1062.1	1062.5
10°	1045.6	1045.6	1044.7	1044.3	1044.7	1043.0	1043.0	1042.6
12.5°	1024.4	1023.5	1022.7	1023.1	1022.7	1021.4	1021.0	1021.4
15°	999.8	998.6	999.0	997.8	997.8	997.3	998.1	998.1
17.5°	972.8	971.9	971.1	971.6	970.7	971.1	970.7	970.2
20°	942.7	942.3	942.3	940.6	941.1	940.6	941.1	942.3
22.5°	908.1	907.6	908.1	906.8	907.6	907.6	908.9	908.9
25°	870.0	869.5	870.3	870.8	871.2	872.5	871.2	871.7
27.5°	827.6	828.9	830.2	830.6	832.3	831.0	830.2	831.5
30°	784.9	784.9	784.5	786.2	787.4	788.7	786.6	786.6
32.5°	735.9	737.9	737.9	738.4	739.6	739.6	739.6	741.3
35°	688.9	690.1	690.6	688.9	689.7	689.3	692.3	692.3
37.5°	636.3	636.3	636.8	639.7	639.7	638.5	639.4	639.4
40°	586.5	586.9	585.2	586.1	588.2	587.3	588.2	589.0
42.5°	531.8	534.9	533.2	534.0	533.5	534.0	534.4	534.4
45°	479.8	480.6	480.6	481.1	482.0	482.8	480.3	479.8
47.5°	429.0	429.5	430.7	428.7	431.2	428.7	431.2	428.2
50°	377.8	379.5	378.3	379.2	377.8	377.8	377.5	377.0
52.5°	329.2	328.8	328.8	328.3	328.3	329.2	328.3	329.6
55°	280.5	281.0	280.1	279.7	279.3	280.5	279.3	278.4
57.5°	234.4	235.2	233.5	234.4	231.5	232.7	233.1	233.5
60°	191.6	190.4	190.4	188.7	188.7	190.0	188.3	188.3
62.5°	148.5	149.4	148.1	149.8	149.8	151.5	150.6	151.5
65°	113.8	114.2	114.7	114.7	114.7	117.2	116.4	115.1
67.5°	85.9	86.3	86.8	86.3	87.6	86.8	86.8	87.1
70°	62.2	62.6	63.0	63.0	62.6	63.0	63.0	63.0
72.5°	43.2	43.6	43.2	43.6	44.0	43.6	43.6	44.0
75°	28.4	28.4	27.9	27.9	27.9	27.9	28.4	27.9
77.5°	16.5	16.9	16.5	16.9	16.9	16.9	16.9	16.9
80°	9.7	9.7	9.7	9.3	9.7	9.7	9.7	9.3
82.5°	5.1	5.1	4.6	4.6	5.1	5.1	5.1	5.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)