

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: P857679

Luminaire Tested: **LX4C30D010 EX4C309030 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857679
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 EX4C309030 4LBLWW*
Description: 4 INCH 3000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

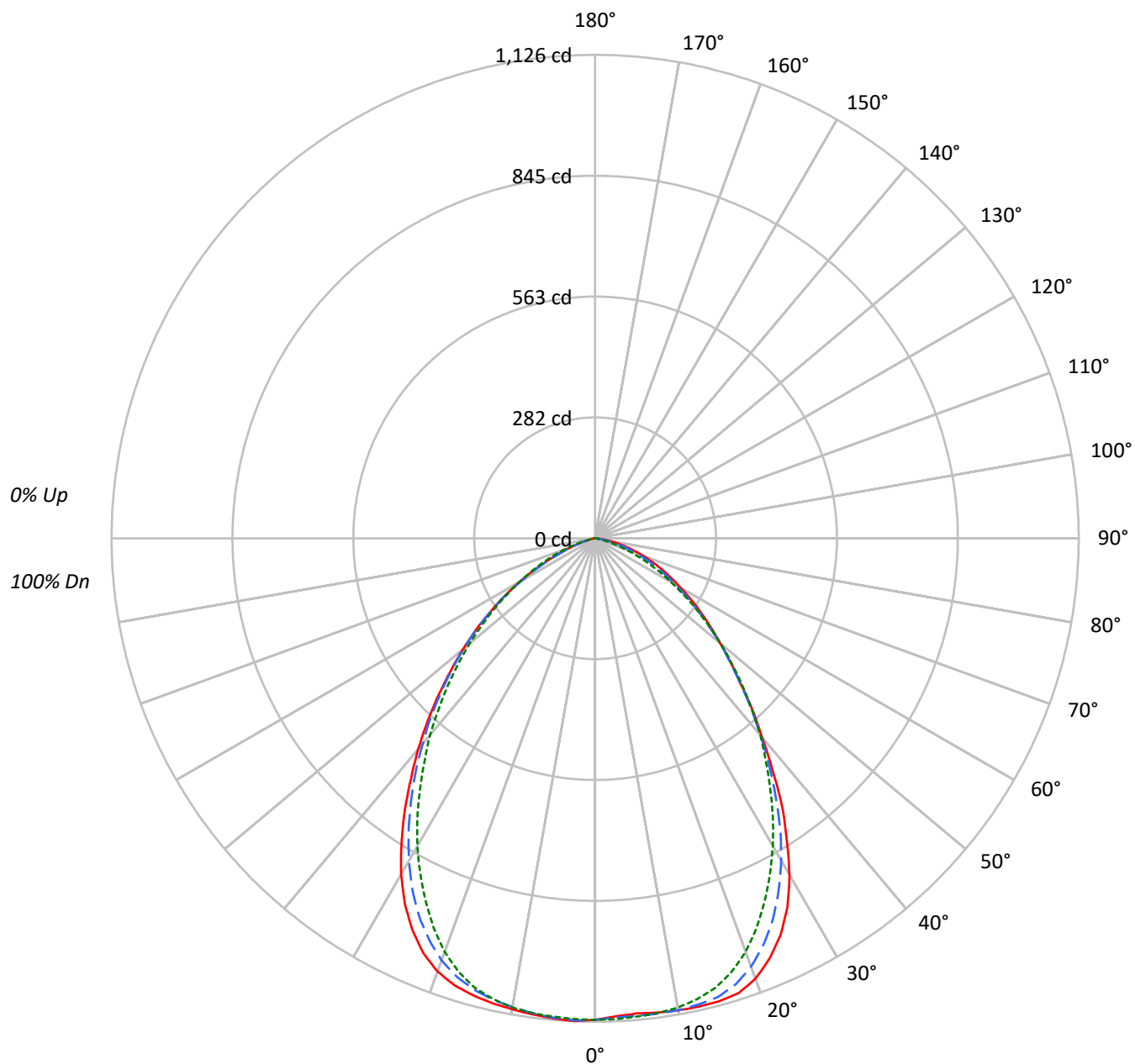
Lumens per Lamp: N/A
Luminaire Lumens: 2150.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	137780	137780	137780
5°	136999	137937	138454
10°	139269	138434	138945
15°	141992	137820	140122
20°	142714	133954	140347
25°	138319	126499	136435
30°	128382	117388	128141
35°	113682	106498	115827
40°	96914	95904	102719
45°	83257	84212	89477
50°	72666	72857	76699
55°	64214	61515	63593
60°	56291	50173	49977
65°	49825	38953	34622
70°	42493	26760	20582
75°	34366	14430	9398
80°	23559	3608	2405
85°	7189	1128	1128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	5.0
10°-20°	308.5	14.4
20°-30°	445.8	20.7
30°-40°	460.9	21.4
40°-50°	380.8	17.7
50°-60°	262.8	12.2
60°-70°	137.6	6.4
70°-80°	43.3	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°	860.9	40.0
0°-40°	1321.8	61.5
0°-60°	1965.5	91.4
0°-90°	2150.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2150.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1122	1122	1122	1122	1122	
5°	1111	1116	1118	1121	1123	106
15°	1116	1106	1084	1089	1102	315
25°	1020	979	933	971	1006	466
35°	758	733	710	747	772	471
45°	479	477	485	507	515	374
55°	300	290	287	295	297	269
65°	171	155	134	111	119	170
75°	72	57	30	21	20	78
85°	5	2	1	1	1	10
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°	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5
2.5°	1114.3	1114.8	1114.8	1115.6	1115.6	1115.6	1116.0	1116.0	1116.4	1116.8	1117.2
5°	1110.9	1110.9	1111.7	1112.2	1113.0	1113.5	1114.3	1114.8	1115.6	1116.0	1116.4
7.5°	1114.3	1114.3	1114.8	1115.1	1115.1	1115.6	1115.6	1116.0	1116.4	1116.8	1116.8
10°	1116.4	1116.4	1116.4	1116.4	1116.8	1116.8	1116.8	1116.4	1116.4	1116.4	1116.0
12.5°	1117.2	1117.2	1116.8	1116.4	1116.8	1116.4	1116.4	1115.1	1114.3	1113.5	1112.2
15°	1116.4	1116.4	1116.0	1115.6	1115.1	1114.3	1113.8	1111.7	1110.1	1107.6	1105.8
17.5°	1110.9	1110.1	1109.2	1108.4	1106.8	1105.5	1104.6	1100.8	1097.8	1093.7	1089.0
20°	1091.6	1090.8	1089.5	1087.3	1085.2	1083.6	1081.0	1075.6	1072.6	1066.3	1061.7
22.5°	1059.9	1059.1	1059.6	1055.8	1051.6	1049.0	1047.3	1042.7	1037.7	1029.7	1024.6
25°	1020.4	1017.9	1017.9	1012.0	1009.9	1008.1	1006.1	1000.6	993.0	985.9	979.2
27.5°	969.0	965.6	964.0	963.1	958.1	954.3	951.3	947.1	940.8	934.4	925.2
30°	905.0	904.5	902.4	898.7	894.9	893.2	889.8	882.6	876.8	872.2	866.3
32.5°	829.7	829.2	829.2	829.2	826.7	826.3	821.2	817.4	812.7	805.6	801.8
35°	758.0	757.6	758.0	751.7	750.0	748.8	748.3	745.8	739.5	736.1	732.8
37.5°	677.2	678.4	677.6	675.9	678.0	674.3	677.2	671.7	669.2	668.3	664.5
40°	604.3	607.7	604.3	604.7	606.8	603.1	603.1	602.2	600.5	599.7	598.8
42.5°	542.0	537.7	540.3	538.2	540.3	539.0	536.9	538.2	538.7	536.9	536.5
45°	479.2	480.1	480.9	479.7	479.7	478.4	481.8	479.7	479.7	480.1	477.1
47.5°	428.3	427.1	427.9	427.1	427.4	426.6	427.4	427.9	427.1	427.1	424.5
50°	380.2	379.4	382.4	379.9	379.9	379.4	379.9	379.0	377.8	377.8	378.6
52.5°	338.6	336.9	336.4	338.6	335.6	335.6	336.1	335.2	333.5	332.7	330.6
55°	299.8	299.5	299.8	298.2	297.3	297.3	295.2	294.4	293.9	291.8	290.5
57.5°	263.6	262.4	262.8	262.4	260.6	260.3	258.6	258.6	256.9	255.2	253.1
60°	229.1	229.1	230.4	228.7	227.4	226.6	225.8	224.8	221.9	219.0	216.5
62.5°	198.4	198.8	198.4	197.1	196.2	195.4	194.6	192.0	189.5	187.9	184.9
65°	171.4	170.9	169.7	168.9	166.8	166.8	165.0	163.9	160.9	158.3	155.4
67.5°	143.6	142.8	142.8	142.8	140.2	139.8	139.0	136.4	134.0	130.5	128.1
70°	118.3	119.1	117.9	116.7	115.4	115.0	113.7	111.1	108.2	104.9	102.8
72.5°	94.3	95.2	93.9	93.5	91.0	90.2	89.7	87.6	84.2	82.2	78.8
75°	72.4	72.9	72.0	71.2	69.5	69.1	67.0	65.3	63.2	59.8	56.9
77.5°	52.3	51.3	51.3	49.7	48.0	48.0	47.6	45.1	42.1	39.6	37.1
80°	33.3	32.8	31.6	30.7	29.4	29.1	28.6	26.5	24.4	22.7	21.1
82.5°	16.8	16.5	16.0	15.5	14.7	13.9	14.4	12.6	11.8	10.1	8.8
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°	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5
2.5°	1117.7	1118.1	1118.5	1118.9	1118.9	1119.4	1119.7	1120.2	1120.7	1120.7	1121.0
5°	1116.8	1117.7	1117.7	1118.1	1118.1	1118.1	1118.5	1118.5	1118.5	1118.5	1118.9
7.5°	1117.2	1117.2	1117.2	1116.8	1116.8	1116.4	1116.4	1116.4	1115.6	1115.6	1115.6
10°	1115.1	1114.8	1114.3	1113.5	1113.0	1112.6	1111.7	1110.9	1110.1	1109.7	1108.8
12.5°	1110.9	1109.2	1107.6	1105.8	1105.0	1104.6	1102.9	1101.7	1100.4	1099.1	1098.3
15°	1102.5	1100.0	1097.0	1093.7	1092.8	1091.9	1089.0	1086.5	1084.9	1083.6	1081.5
17.5°	1085.7	1080.6	1077.2	1072.2	1070.1	1069.2	1064.6	1062.0	1059.1	1058.3	1056.6
20°	1055.8	1051.1	1044.8	1040.2	1037.7	1035.1	1031.3	1028.0	1024.6	1024.6	1022.5
22.5°	1018.3	1012.4	1004.4	998.5	998.1	993.0	989.6	985.9	984.6	982.1	982.1
25°	971.2	966.1	957.3	952.2	949.6	948.3	942.9	937.8	935.4	933.2	934.9
27.5°	918.9	911.4	904.5	898.3	896.2	893.6	888.5	886.5	881.8	881.5	881.0
30°	859.1	851.6	844.7	841.8	837.7	835.5	831.7	829.2	827.5	827.5	826.7
32.5°	796.4	789.6	786.2	779.9	777.9	774.9	772.3	769.9	770.7	769.9	770.2
35°	728.5	726.9	720.5	716.8	716.8	716.3	712.1	710.4	709.6	710.1	712.1
37.5°	664.1	659.1	654.9	652.3	654.4	651.9	651.5	651.5	654.0	652.3	655.7
40°	595.5	595.1	593.4	594.2	594.6	591.7	592.5	592.9	594.6	598.0	598.5
42.5°	535.7	535.3	535.3	535.3	534.4	532.7	534.4	537.4	536.9	539.5	541.6
45°	477.9	477.1	478.9	477.6	480.1	480.9	479.7	480.5	483.0	484.7	488.1
47.5°	425.3	425.3	425.8	426.6	424.0	426.1	427.1	428.7	430.0	430.8	432.5
50°	376.5	376.5	375.6	375.6	375.6	376.9	375.3	377.3	377.8	381.2	383.2
52.5°	331.4	329.4	330.6	329.7	328.1	327.2	328.1	328.4	331.0	331.8	334.3
55°	288.5	288.5	285.1	284.3	285.6	285.1	284.6	284.6	285.9	287.2	289.3
57.5°	250.6	248.0	245.5	245.1	243.8	244.3	244.3	243.8	243.0	243.4	243.8
60°	214.8	213.1	209.3	209.3	208.8	208.5	206.4	205.9	203.8	204.2	202.6
62.5°	181.9	181.1	176.0	174.3	174.3	173.1	170.9	170.6	167.6	167.6	166.0
65°	152.4	150.0	147.0	144.0	144.0	142.3	141.0	137.3	135.1	134.0	131.4
67.5°	125.5	121.7	118.8	116.2	114.5	114.1	111.1	108.7	105.2	103.1	99.4
70°	99.4	96.4	93.5	91.0	89.2	87.6	84.6	80.9	78.3	74.5	72.0
72.5°	75.0	72.4	69.9	66.5	64.4	63.2	60.3	56.9	52.6	50.1	46.7
75°	53.9	51.0	47.6	44.6	43.3	42.1	38.7	36.2	33.3	30.4	27.0
77.5°	35.0	31.6	29.1	25.7	25.3	24.4	21.1	18.5	16.5	14.7	12.6
80°	18.5	16.8	14.7	12.6	11.8	10.5	8.8	7.5	6.3	5.1	4.2
82.5°	8.0	6.7	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	1.3	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.5	0.5	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°	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5
2.5°	1121.5	1121.8	1122.3	1122.3	1122.7	1123.1	1123.1	1123.6	1124.0	1124.4	1124.4
5°	1119.4	1119.4	1119.4	1119.7	1119.7	1119.7	1119.7	1120.7	1120.7	1121.0	1121.5
7.5°	1115.1	1115.1	1115.1	1115.1	1114.8	1115.1	1114.8	1114.8	1115.6	1116.0	1116.4
10°	1108.4	1108.0	1108.0	1107.6	1107.6	1107.6	1108.0	1108.4	1108.8	1109.2	1110.5
12.5°	1097.8	1097.5	1097.5	1097.0	1097.0	1097.5	1097.8	1098.8	1100.4	1101.2	1102.9
15°	1081.0	1080.6	1081.0	1081.5	1082.3	1083.6	1084.9	1086.1	1088.6	1090.8	1092.8
17.5°	1056.6	1057.0	1057.4	1058.3	1059.6	1061.2	1064.6	1067.9	1070.9	1074.3	1077.7
20°	1022.9	1024.6	1025.1	1028.0	1028.8	1032.6	1036.4	1041.4	1046.0	1050.3	1055.0
22.5°	982.5	983.8	985.4	988.8	990.9	996.0	1000.6	1006.5	1011.5	1017.1	1023.8
25°	936.6	937.0	942.1	942.1	947.1	951.3	956.8	963.1	970.7	977.9	982.5
27.5°	884.4	886.5	890.3	891.9	895.7	902.4	907.1	914.7	922.3	928.6	933.6
30°	829.7	831.3	837.7	838.5	841.4	847.3	853.6	860.8	866.6	873.8	878.5
32.5°	771.9	776.6	780.3	783.3	784.1	792.9	796.4	801.4	808.1	815.3	819.9
35°	715.9	718.1	723.5	725.1	727.7	732.8	739.5	743.7	747.0	751.7	757.2
37.5°	656.5	662.9	664.1	669.2	670.0	674.6	678.0	683.1	687.2	691.5	692.3
40°	601.4	603.4	608.1	609.4	610.2	616.5	620.7	622.0	624.1	627.9	633.0
42.5°	545.4	547.5	552.6	551.3	555.0	558.0	560.1	565.2	567.3	568.6	568.6
45°	490.2	491.0	494.4	496.1	498.2	499.8	503.7	506.2	507.0	510.8	512.1
47.5°	437.6	438.4	441.0	443.9	443.0	445.1	449.3	450.6	451.0	453.6	454.8
50°	385.8	387.9	391.2	390.4	392.9	394.1	398.0	398.8	398.8	399.2	399.6
52.5°	337.4	339.0	339.8	340.7	342.0	344.1	345.7	344.9	346.6	348.3	347.0
55°	289.3	290.5	292.7	293.5	293.5	293.9	293.1	296.9	295.2	294.8	295.2
57.5°	245.5	243.8	243.4	245.5	246.4	245.9	244.6	246.4	246.4	245.5	244.3
60°	203.0	201.8	201.3	201.8	200.0	198.8	199.6	198.8	196.7	195.9	196.2
62.5°	164.2	162.9	159.6	159.6	158.8	158.3	155.0	155.4	153.7	151.2	152.0
65°	128.4	125.1	123.4	123.0	120.1	117.5	116.7	113.7	111.1	110.8	111.1
67.5°	96.4	92.6	89.7	88.4	86.8	84.6	81.7	79.2	80.0	79.6	81.2
70°	67.0	64.4	61.5	59.3	60.3	57.7	56.0	56.0	56.4	56.9	57.7
72.5°	44.6	41.3	40.0	38.7	37.9	36.2	37.1	37.1	36.6	37.1	36.2
75°	25.3	23.6	22.4	21.9	21.1	21.1	21.1	21.1	20.6	20.2	20.2
77.5°	11.4	10.5	10.1	9.7	9.7	9.7	9.3	8.8	8.8	8.8	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°	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.0	0.5	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: P857679

CATALOG NUMBER: LX4C30D010 EX4C309030 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5	1121.5
2.5°	1124.8	1125.3	1125.3	1125.3	1125.7	1125.7	1125.7	1125.7
5°	1121.8	1122.3	1122.3	1122.3	1122.7	1122.7	1122.7	1122.7
7.5°	1116.8	1117.2	1117.2	1117.7	1117.7	1118.1	1118.1	1118.5
10°	1110.9	1111.7	1112.2	1112.6	1113.0	1113.5	1113.5	1113.8
12.5°	1104.6	1105.5	1105.8	1106.8	1107.6	1108.0	1108.4	1108.8
15°	1095.4	1097.0	1097.8	1098.3	1100.0	1100.8	1101.2	1101.7
17.5°	1080.6	1083.9	1085.2	1086.1	1087.8	1089.5	1090.8	1091.1
20°	1059.6	1063.3	1065.0	1067.1	1069.7	1071.8	1072.6	1073.5
22.5°	1030.0	1034.3	1036.8	1039.3	1041.4	1043.6	1047.0	1045.7
25°	988.0	995.2	998.1	999.3	1004.0	1006.5	1008.1	1006.5
27.5°	940.8	945.0	947.5	950.5	953.9	956.3	957.3	959.7
30°	883.9	891.1	890.7	893.6	897.8	900.4	901.2	903.3
32.5°	825.0	828.4	830.9	830.5	832.1	836.7	835.1	838.9
35°	762.2	762.7	766.9	766.5	769.9	769.9	769.9	772.3
37.5°	695.2	700.3	698.2	703.2	701.6	702.9	702.9	703.7
40°	634.2	635.9	635.9	637.6	638.8	637.6	638.4	640.5
42.5°	571.0	572.7	573.2	572.3	573.5	577.4	574.4	576.9
45°	512.1	513.4	515.0	513.7	515.8	514.6	515.8	515.0
47.5°	456.5	456.0	455.7	459.0	456.0	456.5	458.2	455.2
50°	399.6	402.1	400.5	401.8	402.6	402.6	401.3	401.3
52.5°	349.1	348.7	347.4	348.7	347.9	348.3	349.1	348.3
55°	296.9	298.5	297.7	297.3	297.7	297.7	300.3	296.9
57.5°	245.5	244.6	245.9	248.9	245.9	248.0	249.3	249.7
60°	196.7	196.7	199.2	197.9	200.5	202.6	204.2	203.4
62.5°	150.0	152.0	152.9	153.3	155.8	157.5	157.5	157.0
65°	111.1	114.1	114.1	115.8	116.7	116.7	117.5	119.1
67.5°	82.2	82.2	82.5	83.4	83.0	83.0	83.8	84.2
70°	57.3	56.4	57.7	57.3	57.3	56.9	57.3	57.3
72.5°	36.2	36.2	36.6	36.2	35.4	35.8	35.8	36.6
75°	19.4	20.2	19.4	19.4	19.8	19.0	19.4	19.8
77.5°	8.0	8.0	8.0	8.0	8.0	7.5	7.5	7.5
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	0.5	0.0	0.5	0.0	0.0	0.0	0.5
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)