

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: P857500

Luminaire Tested: **LX4C25D010 EX4C259850 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)
Test Lab: INNOVATION CENTER
Issue Date: 2/18/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C25D010 EX4C259850 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

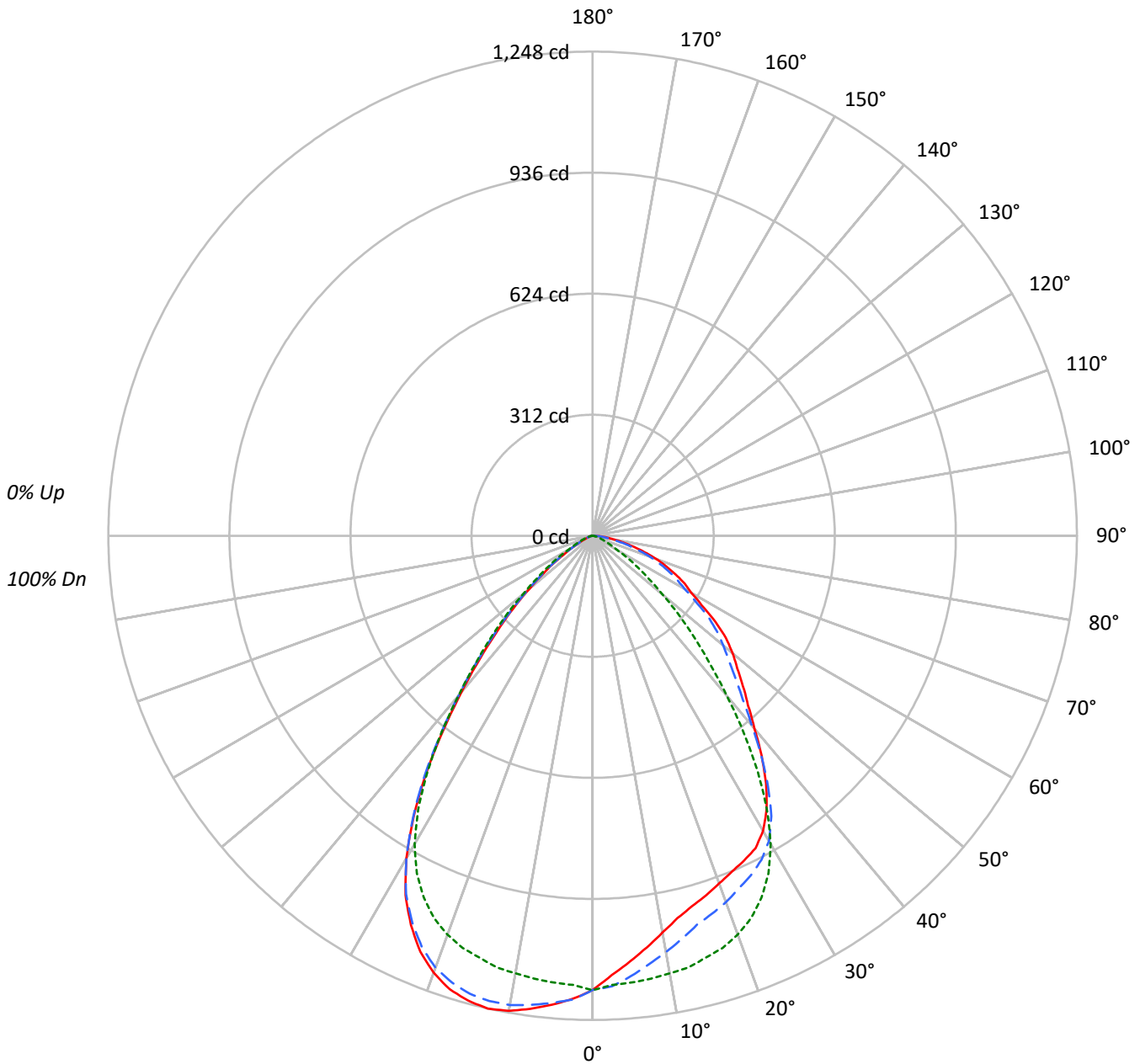
Lumens per Lamp: N/A
Luminaire Lumens: 2052.8 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
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

TEST NUMBER: P857500

CATALOG NUMBER: LX4C25D010 EX4C259850 4LBSWNH

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	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70																			
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50																			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46																			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42																			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38																			
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	143874	143874	143874
5°	135865	142561	149627
10°	129527	142887	155125
15°	125725	143187	157776
20°	124685	143040	156650
25°	125198	139512	150139
30°	124595	130156	136156
35°	116787	111133	112257
40°	104067	86169	84228
45°	95175	64232	60306
50°	89982	44991	40672
55°	82762	30393	25531
60°	72312	17789	14079
65°	68430	11395	7878
70°	62321	8154	4885
75°	51597	5696	3607
80°	40539	3184	2122
85°	36226	2114	0



TEST NUMBER: P857500

CATALOG NUMBER: LX4C25D010 EX4C259850 4LBSWNH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	5.4
10°-20°	317.4	15.5
20°-30°	470.6	22.9
30°-40°	471.2	23.0
40°-50°	329.3	16.0
50°-60°	196.0	9.5
60°-70°	102.3	5.0
70°-80°	45.5	2.2
80°-90°	9.9	0.5
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°	898.6	43.8
0°-40°	1369.8	66.7
0°-60°	1895.1	92.3
0°-90°	2052.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2052.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1171	1171	1171	1171	1171	
5°	1102	1139	1156	1209	1213	103
15°	988	1038	1126	1222	1240	280
25°	924	966	1029	1100	1108	426
35°	779	788	741	755	748	483
45°	548	521	370	358	347	425
55°	386	362	142	124	119	343
65°	235	216	39	29	27	233
75°	109	95	12	8	8	118
85°	26	20	2	2	0	29
90°	0	0	0	0	0	



TEST NUMBER: P857500

CATALOG NUMBER: LX4C25D010 EX4C259850 4LBSWNH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1
2.5°	1133.3	1147.0	1133.3	1137.9	1156.0	1139.4	1148.4	1148.4	1143.9	1154.4	1162.0
5°	1101.7	1115.2	1101.7	1107.6	1127.3	1110.7	1121.3	1118.2	1119.8	1128.9	1139.4
7.5°	1070.0	1080.5	1068.5	1076.0	1094.1	1080.5	1089.5	1089.5	1091.1	1104.7	1113.8
10°	1038.3	1047.4	1038.3	1044.3	1063.9	1051.9	1057.9	1059.4	1063.9	1076.0	1089.5
12.5°	1009.6	1017.1	1008.1	1017.1	1033.7	1021.7	1029.2	1030.7	1035.2	1048.9	1063.9
15°	988.5	996.1	987.0	994.5	1009.6	1000.5	1006.6	1009.6	1012.6	1024.7	1038.3
17.5°	971.9	978.0	970.4	979.4	991.5	980.9	990.0	990.0	994.5	1006.6	1021.7
20°	953.7	959.8	953.7	961.3	974.9	965.8	973.4	973.4	978.0	991.5	1005.1
22.5°	937.2	940.2	937.2	943.2	956.7	949.3	953.7	955.3	959.8	971.9	983.9
25°	923.6	929.6	926.6	932.6	941.7	934.2	938.6	940.2	944.7	955.3	965.8
27.5°	908.5	911.5	908.5	916.1	923.6	917.5	922.1	920.5	923.6	932.6	941.7
30°	878.3	881.3	881.3	885.9	891.9	888.9	893.4	888.9	891.9	899.4	908.5
32.5°	834.6	836.1	837.5	842.1	846.6	842.1	845.1	845.1	845.1	851.2	857.2
35°	778.7	781.7	780.3	783.2	787.8	786.2	786.2	784.7	781.7	784.7	787.8
37.5°	715.4	710.8	710.8	715.4	718.4	712.3	715.4	712.3	712.3	713.8	713.8
40°	648.9	644.4	648.9	650.4	652.0	648.9	647.4	644.4	639.8	641.4	638.4
42.5°	593.1	590.1	591.6	591.6	593.1	590.1	591.6	585.5	581.0	577.9	573.5
45°	547.8	543.3	547.8	544.8	544.8	543.3	541.7	538.8	532.7	528.2	520.7
47.5°	505.5	505.5	507.0	507.0	507.0	504.0	504.0	497.9	492.0	485.9	475.4
50°	470.8	467.8	473.9	473.9	469.3	467.8	469.3	461.7	457.3	449.7	439.1
52.5°	433.1	433.1	434.6	434.6	433.1	430.1	431.6	425.5	421.0	413.5	402.9
55°	386.4	383.4	387.8	387.8	386.4	384.8	386.4	381.8	377.3	371.2	362.1
57.5°	333.5	332.0	335.0	336.5	333.5	333.5	335.0	330.5	329.0	322.9	313.9
60°	294.3	292.8	295.8	297.3	294.3	294.3	294.3	288.2	285.2	279.2	273.1
62.5°	267.1	265.6	268.6	267.1	265.6	264.0	265.6	259.6	256.6	250.5	244.5
65°	235.4	236.9	238.5	238.5	236.9	235.4	235.4	232.4	229.4	223.4	215.8
67.5°	205.2	205.2	206.8	208.2	206.8	206.8	206.8	202.2	199.2	194.7	185.7
70°	173.5	172.0	176.6	176.6	173.5	175.0	173.5	172.0	169.0	163.0	155.4
72.5°	140.4	140.4	141.9	141.9	140.4	140.4	140.4	138.8	134.3	131.3	123.8
75°	108.7	108.7	110.1	111.6	108.7	108.7	110.1	107.1	104.2	99.6	95.1
77.5°	81.5	80.0	81.5	81.5	80.0	80.0	80.0	78.5	77.0	72.4	68.0
80°	57.3	55.8	57.3	57.3	57.3	55.8	55.8	54.3	54.3	51.3	46.8
82.5°	39.2	37.7	39.2	39.2	39.2	37.7	37.7	37.7	36.2	34.7	31.7
85°	25.7	24.2	24.2	25.7	24.2	24.2	24.2	24.2	22.7	21.1	19.6
87.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	10.6	10.6	10.6	9.0
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: P857500

CATALOG NUMBER: LX4C25D010 EX4C259850 4LBSWNH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1
2.5°	1156.0	1153.0	1162.0	1159.0	1160.5	1153.0	1165.1	1159.0	1166.5	1159.0	1174.1
5°	1136.3	1133.3	1147.0	1145.4	1147.0	1140.9	1154.4	1153.0	1162.0	1156.0	1172.6
7.5°	1115.2	1112.2	1127.3	1128.9	1131.9	1125.8	1143.9	1143.9	1153.0	1151.4	1169.5
10°	1091.1	1092.6	1107.6	1110.7	1116.8	1113.8	1130.3	1134.9	1147.0	1145.4	1168.1
12.5°	1068.5	1068.5	1088.1	1094.1	1098.6	1097.1	1116.8	1122.8	1136.3	1139.4	1160.5
15°	1045.8	1047.4	1065.5	1074.5	1080.5	1079.0	1100.1	1107.6	1124.3	1125.8	1151.4
17.5°	1027.7	1026.2	1045.8	1053.3	1062.4	1060.9	1083.6	1092.6	1109.2	1113.8	1137.9
20°	1012.6	1011.1	1029.2	1038.3	1044.3	1042.8	1065.5	1076.0	1091.1	1094.1	1118.2
22.5°	994.5	991.5	1009.6	1017.1	1023.2	1021.7	1041.3	1048.9	1063.9	1067.0	1089.5
25°	973.4	970.4	987.0	991.5	996.1	993.0	1009.6	1014.2	1026.2	1029.2	1051.9
27.5°	949.3	941.7	955.3	955.3	958.3	953.7	965.8	970.4	980.9	980.9	1002.1
30°	911.5	901.0	908.5	907.0	908.5	902.4	910.0	911.5	919.1	917.5	932.6
32.5°	858.7	843.6	848.1	843.6	839.1	830.0	839.1	836.1	842.1	836.1	849.7
35°	786.2	771.2	769.7	763.6	759.1	751.6	751.6	744.1	745.5	741.0	750.0
37.5°	707.8	688.2	685.1	673.1	665.5	656.5	656.5	650.4	642.9	639.8	647.4
40°	630.8	609.7	602.2	582.5	575.0	565.9	559.8	552.3	549.3	537.3	543.3
42.5°	564.4	541.7	525.2	504.0	496.5	482.9	473.9	464.8	460.3	446.7	452.7
45°	508.6	481.5	463.3	436.2	425.5	410.5	396.9	386.4	375.8	369.7	366.7
47.5°	461.7	433.1	409.0	378.8	362.1	348.6	330.5	320.0	306.4	298.8	294.3
50°	422.6	390.9	363.7	329.0	312.4	297.3	276.2	259.6	247.5	235.4	232.4
52.5°	387.8	354.6	324.5	285.2	265.6	247.5	224.9	206.8	196.2	182.6	181.1
55°	347.1	318.4	285.2	244.5	224.9	206.8	182.6	164.5	150.9	141.9	138.8
57.5°	303.4	276.2	244.5	203.8	184.1	164.5	141.9	125.2	113.2	105.7	104.2
60°	262.6	236.9	206.8	166.0	146.3	129.7	105.7	89.0	78.5	72.4	69.4
62.5°	232.4	208.2	179.6	141.9	123.8	107.1	84.5	69.4	60.4	54.3	51.3
65°	203.8	179.6	153.9	119.2	104.2	89.0	68.0	54.3	45.2	39.2	36.2
67.5°	173.5	152.5	128.2	99.6	84.5	72.4	54.3	42.3	34.7	30.1	27.1
70°	143.3	123.8	104.2	80.0	69.4	57.3	42.3	33.2	25.7	22.7	19.6
72.5°	113.2	98.1	81.5	61.9	52.8	45.2	33.2	24.2	19.6	16.6	13.6
75°	84.5	73.9	60.4	46.8	39.2	33.2	24.2	18.1	15.1	12.0	10.6
77.5°	60.4	51.3	42.3	31.7	28.7	24.2	16.6	13.6	10.6	7.6	6.1
80°	40.8	36.2	28.7	22.7	18.1	16.6	12.0	9.0	6.1	4.5	4.5
82.5°	27.1	22.7	18.1	13.6	12.0	10.6	7.6	6.1	4.5	3.0	3.0
85°	16.6	13.6	10.6	7.6	7.6	6.1	4.5	3.0	1.5	1.5	1.5
87.5°	7.6	6.1	4.5	3.0	3.0	1.5	1.5	1.5	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



TEST NUMBER: P857500

CATALOG NUMBER: LX4C25D010 EX4C259850 4LBSWNH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1
2.5°	1186.2	1177.1	1171.1	1178.6	1181.6	1177.1	1181.6	1189.2	1196.7	1198.2	1177.1
5°	1187.7	1178.6	1175.6	1184.6	1186.2	1184.6	1189.2	1199.7	1208.8	1211.9	1190.7
7.5°	1187.7	1181.6	1180.1	1190.7	1192.2	1190.7	1198.2	1210.3	1219.4	1225.4	1204.3
10°	1184.6	1181.6	1183.2	1192.2	1195.2	1195.2	1205.8	1219.4	1228.4	1234.4	1213.3
12.5°	1180.1	1180.1	1180.1	1190.7	1193.8	1195.2	1204.3	1222.4	1228.4	1237.5	1216.3
15°	1172.6	1172.6	1172.6	1183.2	1187.7	1187.7	1198.2	1214.8	1222.4	1231.4	1210.3
17.5°	1159.0	1159.0	1160.5	1169.5	1174.1	1174.1	1184.6	1202.8	1207.3	1217.9	1196.7
20°	1139.4	1139.4	1140.9	1150.0	1154.4	1151.4	1165.1	1180.1	1184.6	1193.8	1172.6
22.5°	1110.7	1110.7	1110.7	1119.8	1122.8	1121.3	1134.9	1148.4	1148.4	1160.5	1137.9
25°	1068.5	1071.4	1068.5	1077.5	1080.5	1079.0	1091.1	1103.2	1100.1	1113.8	1091.1
27.5°	1017.1	1015.6	1015.6	1023.2	1023.2	1021.7	1030.7	1044.3	1041.3	1050.4	1029.2
30°	946.2	950.7	943.2	953.7	949.3	946.2	952.3	964.3	959.8	967.4	950.7
32.5°	864.7	858.7	858.7	858.7	861.7	854.2	860.2	866.2	861.7	869.3	851.2
35°	757.5	759.1	754.6	756.1	757.5	748.5	754.6	760.6	754.6	759.1	742.5
37.5°	650.4	652.0	641.4	647.4	641.4	638.4	644.4	647.4	641.4	645.9	627.8
40°	543.3	540.3	538.8	538.8	540.3	532.7	537.3	541.7	537.3	540.3	523.6
42.5°	449.7	448.3	445.2	446.7	442.1	440.7	442.1	446.7	442.1	445.2	433.1
45°	368.2	365.2	360.7	362.1	362.1	354.6	359.1	362.1	357.7	359.1	348.6
47.5°	292.8	288.2	288.2	286.7	286.7	283.8	288.2	286.7	282.1	285.2	274.7
50°	227.8	224.9	224.9	224.9	224.9	220.3	221.9	224.9	220.3	220.3	214.3
52.5°	178.1	173.5	170.6	170.6	170.6	169.0	169.0	170.6	166.0	166.0	164.5
55°	134.3	132.8	128.2	128.2	128.2	123.8	125.2	125.2	123.8	123.8	119.2
57.5°	99.6	95.1	92.0	92.0	89.0	89.0	87.6	89.0	86.1	86.1	83.0
60°	66.3	63.3	61.9	60.4	60.4	58.9	60.4	58.9	58.9	57.3	55.8
62.5°	48.2	45.2	42.3	42.3	42.3	40.8	40.8	40.8	40.8	40.8	39.2
65°	34.7	31.7	31.7	30.1	30.1	28.7	28.7	28.7	28.7	28.7	27.1
67.5°	24.2	22.7	21.1	21.1	21.1	21.1	21.1	21.1	19.6	19.6	19.6
70°	18.1	16.6	15.1	15.1	15.1	15.1	15.1	13.6	15.1	15.1	13.6
72.5°	12.0	12.0	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
75°	9.0	9.0	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
77.5°	6.1	6.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	4.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	3.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0
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



TEST NUMBER: P857500

CATALOG NUMBER: LX4C25D010 EX4C259850 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1	1171.1
2.5°	1199.7	1198.2	1195.2	1199.7	1187.7	1183.2	1181.6	1195.2
5°	1216.3	1213.3	1213.3	1217.9	1204.3	1201.3	1198.2	1213.3
7.5°	1231.4	1228.4	1228.4	1232.9	1220.9	1217.9	1214.8	1230.0
10°	1240.5	1240.5	1240.5	1243.5	1232.9	1230.0	1228.4	1243.5
12.5°	1245.0	1245.0	1243.5	1249.5	1236.0	1236.0	1232.9	1248.1
15°	1239.0	1239.0	1239.0	1243.5	1231.4	1228.4	1228.4	1240.5
17.5°	1223.9	1223.9	1222.4	1226.9	1213.3	1213.3	1211.9	1225.4
20°	1201.3	1201.3	1198.2	1204.3	1190.7	1186.2	1184.6	1198.2
22.5°	1165.1	1163.5	1162.0	1165.1	1153.0	1150.0	1148.4	1160.5
25°	1118.2	1116.8	1113.8	1116.8	1103.2	1098.6	1098.6	1107.6
27.5°	1051.9	1051.9	1047.4	1051.9	1036.7	1035.2	1033.7	1044.3
30°	970.4	964.3	961.3	967.4	952.3	952.3	949.3	959.8
32.5°	869.3	863.2	861.7	864.7	851.2	846.6	852.7	858.7
35°	753.1	754.6	748.5	748.5	736.5	737.9	739.4	748.5
37.5°	641.4	638.4	636.8	638.4	629.3	626.3	623.3	632.3
40°	537.3	529.7	528.2	528.2	520.7	519.2	520.7	525.2
42.5°	439.1	437.7	431.6	434.6	427.1	430.1	428.6	428.6
45°	354.6	356.2	350.1	354.6	348.6	344.0	344.0	347.1
47.5°	280.7	280.7	279.2	279.2	274.7	276.2	273.1	277.7
50°	217.3	217.3	214.3	215.8	212.8	212.8	211.3	212.8
52.5°	166.0	164.5	164.5	163.0	160.0	161.5	163.0	160.0
55°	120.7	122.3	119.2	120.7	117.7	119.2	117.7	119.2
57.5°	83.0	84.5	81.5	84.5	81.5	83.0	81.5	81.5
60°	57.3	57.3	55.8	57.3	55.8	55.8	54.3	57.3
62.5°	39.2	39.2	39.2	39.2	39.2	37.7	39.2	39.2
65°	28.7	27.1	27.1	27.1	27.1	27.1	27.1	27.1
67.5°	19.6	19.6	19.6	19.6	19.6	19.6	19.6	19.6
70°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6
72.5°	10.6	10.6	10.6	10.6	10.6	10.6	10.6	10.6
75°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	0.0	1.5	0.0	0.0	0.0
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)