

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: P857868

Luminaire Tested: **LX4C35D010 EX4C359850 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857868
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: LX4C35D010 EX4C359850 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

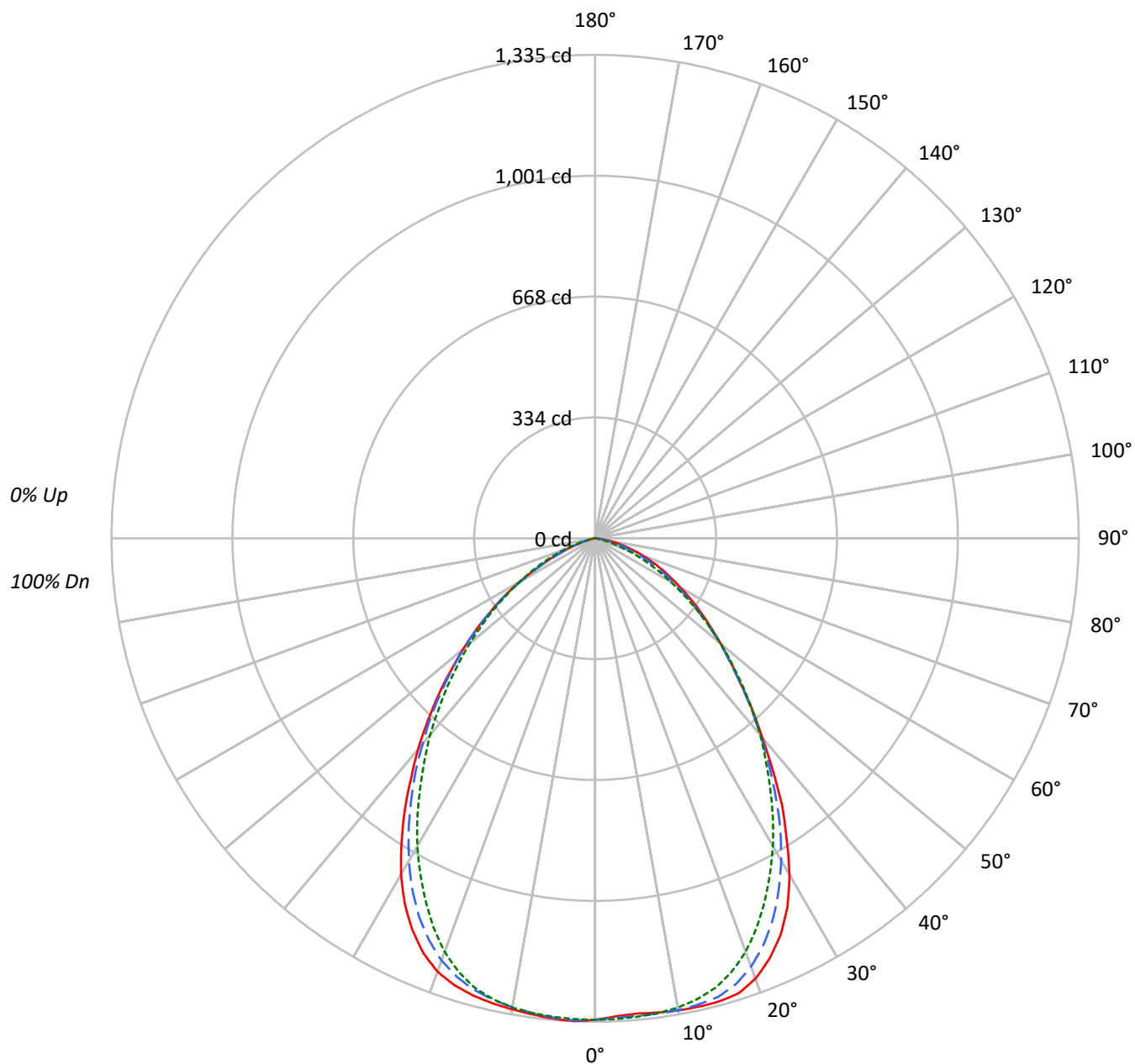
Lumens per Lamp: N/A
Luminaire Lumens: 2549.5 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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°	163371	163371	163371
5°	162465	163563	164180
10°	165142	164157	164768
15°	168371	163423	166145
20°	169227	158847	166416
25°	164020	150004	161783
30°	152229	139206	151959
35°	134814	126265	137348
40°	114924	113721	121804
45°	98737	99849	106121
50°	86198	86370	90957
55°	76144	72953	75416
60°	66734	59510	59265
65°	59069	46163	41075
70°	50432	31753	24426
75°	40774	17041	11155
80°	27875	4245	2830
85°	8458	1410	1410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	5.0
10°-20°	365.9	14.4
20°-30°	528.7	20.7
30°-40°	546.5	21.4
40°-50°	451.6	17.7
50°-60°	311.6	12.2
60°-70°	163.2	6.4
70°-80°	51.4	2.0
80°-90°	4.4	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°	1020.9	40.0
0°-40°	1567.4	61.5
0°-60°	2330.6	91.4
0°-90°	2549.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2549.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1330	1330	1330	1330	1330	
5°	1317	1324	1326	1329	1331	126
15°	1324	1311	1285	1291	1306	373
25°	1210	1161	1107	1151	1194	552
35°	899	869	842	886	916	558
45°	568	566	575	601	611	443
55°	356	345	341	350	352	319
65°	203	184	159	132	141	201
75°	86	67	36	24	24	92
85°	6	3	1	1	1	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°	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8
2.5°	1321.3	1321.8	1321.8	1322.8	1322.8	1322.8	1323.3	1323.3	1323.8	1324.3	1324.9
5°	1317.4	1317.4	1318.4	1318.8	1319.9	1320.3	1321.3	1321.8	1322.8	1323.3	1323.8
7.5°	1321.3	1321.3	1321.8	1322.4	1322.4	1322.8	1322.8	1323.3	1323.8	1324.3	1324.3
10°	1323.8	1323.8	1323.8	1323.8	1324.3	1324.3	1324.3	1323.8	1323.8	1323.8	1323.3
12.5°	1324.9	1324.9	1324.3	1323.8	1324.3	1323.8	1323.8	1322.4	1321.3	1320.3	1318.8
15°	1323.8	1323.8	1323.3	1322.8	1322.4	1321.3	1320.8	1318.4	1316.3	1313.4	1311.3
17.5°	1317.4	1316.3	1315.3	1314.3	1312.4	1310.9	1309.9	1305.3	1301.9	1296.9	1291.3
20°	1294.4	1293.4	1291.9	1289.4	1286.9	1284.9	1281.9	1275.4	1271.9	1264.4	1258.9
22.5°	1256.9	1255.9	1256.4	1251.9	1246.9	1243.9	1241.9	1236.4	1230.4	1221.0	1215.0
25°	1210.0	1207.0	1207.0	1200.0	1197.5	1195.5	1193.0	1186.5	1177.5	1169.0	1161.0
27.5°	1149.0	1145.1	1143.0	1142.1	1136.1	1131.5	1128.1	1123.1	1115.6	1108.1	1097.1
30°	1073.1	1072.7	1070.2	1065.6	1061.2	1059.1	1055.2	1046.6	1039.7	1034.2	1027.2
32.5°	983.8	983.2	983.2	983.2	980.3	979.8	973.8	969.2	963.8	955.3	950.8
35°	898.9	898.3	898.9	891.4	889.3	887.9	887.4	884.3	876.8	872.9	868.9
37.5°	803.0	804.4	803.5	801.5	804.0	799.4	803.0	796.5	793.5	792.5	788.0
40°	716.6	720.6	716.6	717.0	719.5	715.1	715.1	714.1	712.1	711.1	710.1
42.5°	642.7	637.7	640.7	638.2	640.7	639.2	636.7	638.2	638.7	636.7	636.2
45°	568.3	569.3	570.3	568.8	568.8	567.2	571.2	568.8	568.8	569.3	565.8
47.5°	507.8	506.3	507.3	506.3	506.9	505.9	506.9	507.3	506.3	506.3	503.4
50°	451.0	449.9	453.5	450.4	450.4	449.9	450.4	449.4	447.9	447.9	448.9
52.5°	401.5	399.5	399.0	401.5	398.0	398.0	398.5	397.5	395.5	394.5	392.0
55°	355.5	355.1	355.5	353.6	352.6	352.6	350.1	349.0	348.6	346.1	344.6
57.5°	312.6	311.1	311.6	311.1	309.1	308.6	306.6	306.6	304.6	302.7	300.2
60°	271.6	271.6	273.1	271.2	269.7	268.7	267.7	266.6	263.2	259.7	256.6
62.5°	235.2	235.7	235.2	233.7	232.7	231.7	230.7	227.8	224.7	222.8	219.2
65°	203.2	202.8	201.3	200.3	197.8	197.8	195.7	194.2	190.7	187.8	184.2
67.5°	170.3	169.3	169.3	169.3	166.3	165.8	164.8	161.8	158.8	154.8	151.8
70°	140.4	141.3	139.8	138.3	136.8	136.3	134.8	131.8	128.3	124.3	121.8
72.5°	111.8	112.9	111.4	110.8	107.9	106.8	106.4	103.9	99.9	97.4	93.4
75°	85.9	86.4	85.4	84.4	82.4	81.9	79.4	77.4	74.9	70.9	67.4
77.5°	61.9	60.9	60.9	58.9	56.9	56.9	56.4	53.4	49.9	46.9	44.0
80°	39.4	39.0	37.5	36.5	35.0	34.4	34.0	31.5	29.0	26.9	25.0
82.5°	20.0	19.4	19.0	18.5	17.5	16.5	16.9	15.0	14.0	11.9	10.5
85°	6.0	6.5	6.5	6.0	5.5	5.5	5.5	5.0	4.0	3.5	3.0
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8
2.5°	1325.3	1325.8	1326.3	1326.8	1326.8	1327.3	1327.8	1328.3	1328.8	1328.8	1329.3
5°	1324.3	1325.3	1325.3	1325.8	1325.8	1325.8	1326.3	1326.3	1326.3	1326.3	1326.8
7.5°	1324.9	1324.9	1324.9	1324.3	1324.3	1323.8	1323.8	1323.8	1322.8	1322.8	1322.8
10°	1322.4	1321.8	1321.3	1320.3	1319.9	1319.3	1318.4	1317.4	1316.3	1315.9	1314.9
12.5°	1317.4	1315.3	1313.4	1311.3	1310.3	1309.9	1307.8	1306.3	1304.9	1303.4	1302.4
15°	1307.4	1304.4	1300.9	1296.9	1295.9	1294.9	1291.3	1288.4	1286.3	1284.9	1282.4
17.5°	1287.4	1281.3	1277.4	1271.4	1268.9	1267.9	1262.4	1259.4	1255.9	1254.9	1252.9
20°	1251.9	1246.4	1238.9	1233.5	1230.4	1227.5	1222.9	1218.9	1215.0	1215.0	1212.5
22.5°	1207.5	1200.5	1191.0	1184.0	1183.5	1177.5	1173.5	1169.0	1167.6	1164.5	1164.5
25°	1151.5	1145.5	1135.1	1129.0	1126.1	1124.6	1118.1	1112.1	1109.1	1106.6	1108.6
27.5°	1089.6	1080.6	1072.7	1065.2	1062.7	1059.7	1053.7	1051.2	1045.7	1045.2	1044.7
30°	1018.7	1009.7	1001.7	998.2	993.2	990.7	986.3	983.2	981.3	981.3	980.3
32.5°	944.3	936.3	932.3	924.8	922.3	918.9	915.8	912.9	913.9	912.9	913.3
35°	863.9	861.9	854.4	849.9	849.9	849.4	844.4	842.4	841.4	841.9	844.4
37.5°	787.5	781.5	776.5	773.5	776.0	773.1	772.5	772.5	775.5	773.5	777.5
40°	706.1	705.6	703.6	704.6	705.1	701.6	702.6	703.1	705.1	709.1	709.6
42.5°	635.2	634.7	634.7	634.7	633.7	631.7	633.7	637.1	636.7	639.6	642.1
45°	566.8	565.8	567.8	566.3	569.3	570.3	568.8	569.7	572.8	574.7	578.7
47.5°	504.4	504.4	504.8	505.9	502.9	505.4	506.3	508.4	509.8	510.9	512.8
50°	446.4	446.4	445.4	445.4	445.4	446.9	444.9	447.4	447.9	451.9	454.4
52.5°	393.0	390.5	392.0	391.0	389.0	388.0	389.0	389.5	392.5	393.5	396.5
55°	342.1	342.1	338.1	337.1	338.6	338.1	337.6	337.6	339.0	340.6	343.1
57.5°	297.1	294.1	291.2	290.6	289.1	289.6	289.6	289.1	288.1	288.7	289.1
60°	254.7	252.7	248.2	248.2	247.7	247.2	244.7	244.2	241.7	242.2	240.2
62.5°	215.7	214.7	208.8	206.7	206.7	205.3	202.8	202.2	198.8	198.8	196.7
65°	180.8	177.8	174.2	170.8	170.8	168.8	167.3	162.8	160.3	158.8	155.8
67.5°	148.8	144.3	140.8	137.9	135.8	135.4	131.8	128.9	124.8	122.3	117.9
70°	117.9	114.3	110.8	107.9	105.8	103.9	100.4	95.9	92.9	88.4	85.4
72.5°	88.9	85.9	82.9	78.9	76.4	74.9	71.4	67.4	62.4	59.4	55.5
75°	63.9	60.5	56.4	53.0	51.5	49.9	45.9	43.0	39.4	35.9	31.9
77.5°	41.5	37.5	34.4	30.5	30.0	29.0	25.0	21.9	19.4	17.5	15.0
80°	21.9	20.0	17.5	15.0	14.0	12.5	10.5	9.0	7.5	6.0	5.0
82.5°	9.5	8.0	6.5	5.5	5.0	4.5	3.5	3.0	2.5	2.5	2.0
85°	2.5	2.0	2.0	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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°	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8
2.5°	1329.8	1330.3	1330.8	1330.8	1331.3	1331.8	1331.8	1332.3	1332.8	1333.3	1333.3
5°	1327.3	1327.3	1327.3	1327.8	1327.8	1327.8	1327.8	1328.8	1328.8	1329.3	1329.8
7.5°	1322.4	1322.4	1322.4	1322.4	1321.8	1322.4	1321.8	1321.8	1322.8	1323.3	1323.8
10°	1314.3	1313.8	1313.8	1313.4	1313.4	1313.4	1313.8	1314.3	1314.9	1315.3	1316.8
12.5°	1301.9	1301.3	1301.3	1300.9	1300.9	1301.3	1301.9	1302.8	1304.9	1305.9	1307.8
15°	1281.9	1281.3	1281.9	1282.4	1283.4	1284.9	1286.3	1287.9	1290.9	1293.4	1295.9
17.5°	1252.9	1253.4	1253.9	1254.9	1256.4	1258.4	1262.4	1266.4	1269.9	1273.9	1277.9
20°	1212.9	1215.0	1215.4	1218.9	1220.0	1224.5	1228.9	1235.0	1240.4	1245.4	1250.9
22.5°	1165.1	1166.5	1168.5	1172.6	1175.0	1181.0	1186.5	1193.5	1199.5	1206.0	1213.9
25°	1110.6	1111.1	1117.1	1117.1	1123.1	1128.1	1134.6	1142.1	1151.1	1159.5	1165.1
27.5°	1048.7	1051.2	1055.6	1057.7	1062.2	1070.2	1075.6	1084.6	1093.6	1101.1	1107.1
30°	983.8	985.7	993.2	994.2	997.8	1004.7	1012.2	1020.7	1027.7	1036.2	1041.6
32.5°	915.4	920.8	925.4	928.8	929.8	940.3	944.3	950.3	958.3	966.7	972.3
35°	848.9	851.4	857.9	859.9	862.9	868.9	876.8	881.8	885.9	891.4	897.9
37.5°	778.5	786.0	787.5	793.5	794.5	800.0	804.0	810.0	815.0	820.0	820.9
40°	713.1	715.6	721.1	722.6	723.6	731.0	736.0	737.6	740.1	744.5	750.6
42.5°	646.7	649.2	655.2	653.6	658.2	661.7	664.2	670.1	672.6	674.2	674.2
45°	581.2	582.2	586.2	588.3	590.8	592.7	597.2	600.2	601.2	605.8	607.2
47.5°	518.8	519.8	522.8	526.3	525.3	527.8	532.8	534.3	534.8	537.8	539.3
50°	457.4	459.9	463.9	462.9	465.9	467.4	471.9	472.9	472.9	473.4	473.9
52.5°	400.0	402.0	403.0	404.0	405.5	408.0	410.0	409.0	411.0	413.0	411.4
55°	343.1	344.6	347.1	348.0	348.0	348.6	347.6	352.1	350.1	349.6	350.1
57.5°	291.2	289.1	288.7	291.2	292.1	291.6	290.2	292.1	292.1	291.2	289.6
60°	240.7	239.2	238.7	239.2	237.2	235.7	236.7	235.7	233.2	232.2	232.7
62.5°	194.8	193.2	189.2	189.2	188.2	187.8	183.8	184.2	182.3	179.2	180.3
65°	152.3	148.3	146.3	145.8	142.3	139.3	138.3	134.8	131.8	131.4	131.8
67.5°	114.3	109.9	106.4	104.9	102.9	100.4	96.8	93.9	94.9	94.3	96.4
70°	79.4	76.4	72.9	70.4	71.4	68.4	66.4	66.4	66.9	67.4	68.4
72.5°	53.0	49.0	47.4	45.9	44.9	43.0	44.0	44.0	43.4	44.0	43.0
75°	30.0	28.0	26.5	25.9	25.0	25.0	25.0	25.0	24.4	24.0	24.0
77.5°	13.5	12.5	11.9	11.5	11.5	11.5	11.0	10.5	10.5	10.5	10.0
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
82.5°	2.0	2.0	2.5	2.5	2.5	2.0	2.5	2.5	2.0	2.0	2.5
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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: P857868

CATALOG NUMBER: LX4C35D010 EX4C359850 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8	1329.8
2.5°	1333.8	1334.3	1334.3	1334.3	1334.8	1334.8	1334.8	1334.8
5°	1330.3	1330.8	1330.8	1330.8	1331.3	1331.3	1331.3	1331.3
7.5°	1324.3	1324.9	1324.9	1325.3	1325.3	1325.8	1325.8	1326.3
10°	1317.4	1318.4	1318.8	1319.3	1319.9	1320.3	1320.3	1320.8
12.5°	1309.9	1310.9	1311.3	1312.4	1313.4	1313.8	1314.3	1314.9
15°	1298.8	1300.9	1301.9	1302.4	1304.4	1305.3	1305.9	1306.3
17.5°	1281.3	1285.4	1286.9	1287.9	1289.9	1291.9	1293.4	1293.8
20°	1256.4	1260.9	1262.9	1265.4	1268.4	1270.9	1271.9	1272.9
22.5°	1221.4	1226.4	1229.4	1232.5	1235.0	1237.5	1241.4	1240.0
25°	1171.5	1180.0	1183.5	1185.0	1190.5	1193.5	1195.5	1193.5
27.5°	1115.6	1120.6	1123.6	1127.1	1131.1	1134.0	1135.1	1138.0
30°	1048.2	1056.6	1056.2	1059.7	1064.7	1067.7	1068.7	1071.2
32.5°	978.2	982.3	985.3	984.8	986.7	992.2	990.3	994.7
35°	903.9	904.3	909.3	908.9	912.9	912.9	912.9	915.8
37.5°	824.4	830.5	828.0	834.0	831.9	833.4	833.4	834.4
40°	752.0	754.1	754.1	756.0	757.5	756.0	757.0	759.5
42.5°	677.1	679.2	679.6	678.6	680.1	684.6	681.1	684.1
45°	607.2	608.7	610.8	609.2	611.7	610.2	611.7	610.8
47.5°	541.3	540.8	540.3	544.3	540.8	541.3	543.3	539.8
50°	473.9	476.9	474.9	476.4	477.3	477.3	475.9	475.9
52.5°	413.9	413.5	412.0	413.5	412.5	413.0	413.9	413.0
55°	352.1	354.0	353.0	352.6	353.0	353.0	356.1	352.1
57.5°	291.2	290.2	291.6	295.2	291.6	294.1	295.6	296.1
60°	233.2	233.2	236.2	234.7	237.7	240.2	242.2	241.2
62.5°	177.8	180.3	181.3	181.7	184.8	186.7	186.7	186.3
65°	131.8	135.4	135.4	137.3	138.3	138.3	139.3	141.3
67.5°	97.4	97.4	97.9	98.9	98.4	98.4	99.3	99.9
70°	68.0	66.9	68.4	68.0	68.0	67.4	68.0	68.0
72.5°	43.0	43.0	43.4	43.0	41.9	42.4	42.4	43.4
75°	23.0	24.0	23.0	23.0	23.5	22.5	23.0	23.5
77.5°	9.5	9.5	9.5	9.5	9.5	9.0	9.0	9.0
80°	4.5	4.5	4.5	4.5	4.5	4.5	4.0	4.0
82.5°	2.0	2.5	2.0	2.5	2.0	2.0	2.0	2.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)