

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: P857663

Luminaire Tested: **LX4C30D010 EX4C309840 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857663
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: LX4C30D010 EX4C309840 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

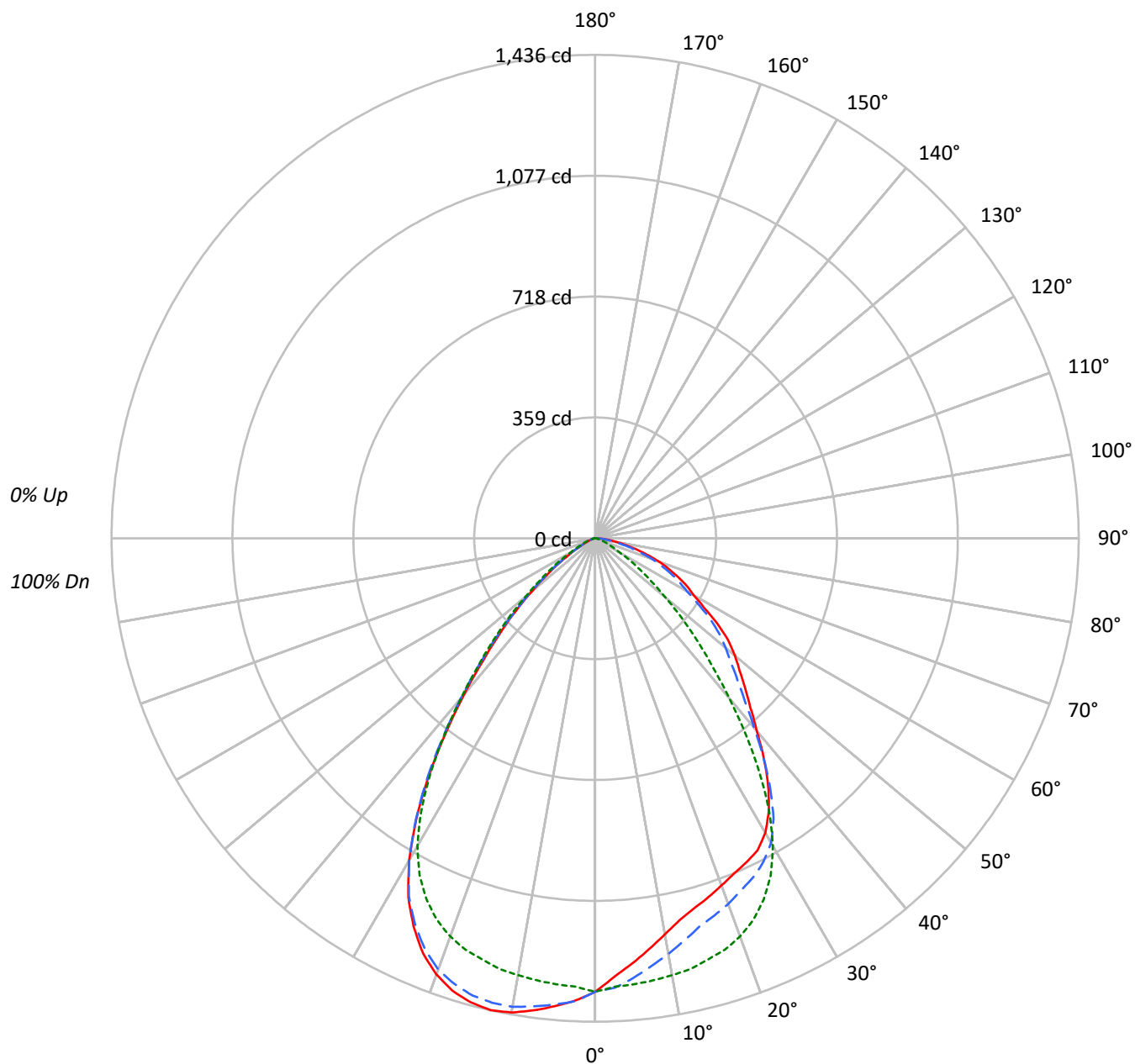
Lumens per Lamp: N/A
Luminaire Lumens: 2361.3 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	108	104	101		109	106	103	100		101	99	97		98	96	94		94	93	91
2	104	97	92	87		101	95	90	86		92	88	84		89	85	82		86	83	81
3	96	88	81	76		94	86	80	75		83	78	74		81	76	73		78	75	72
4	90	80	72	67		88	78	72	66		76	70	66		74	69	65		72	68	64
5	83	73	65	60		82	72	65	59		70	63	59		68	62	58		66	61	58
6	78	67	59	53		76	66	59	53		64	58	53		62	57	52		61	56	52
7	73	61	54	48		71	61	53	48		59	53	48		58	52	48		56	51	47
8	68	57	49	44		67	56	49	44		55	48	44		54	48	43		52	47	43
9	64	52	45	40		63	52	45	40		51	44	40		50	44	40		49	44	40
10	61	49	42	37		59	48	42	37		47	41	37		47	41	37		46	40	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	165496	165496	165496
5°	156287	163995	172122
10°	148987	164356	178441
15°	144625	164720	181496
20°	143433	164547	180209
25°	144012	160496	172709
30°	143320	149732	156626
35°	134349	127840	129145
40°	119719	99127	96898
45°	109474	73892	69357
50°	103514	51757	46788
55°	95185	34956	29365
60°	83172	20467	16192
65°	78721	13110	9070
70°	71732	9339	5639
75°	59334	6598	4130
80°	46623	3750	2476
85°	41583	2537	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	5.4
10°-20°	365.1	15.5
20°-30°	541.3	22.9
30°-40°	542.0	23.0
40°-50°	378.8	16.0
50°-60°	225.4	9.5
60°-70°	117.6	5.0
70°-80°	52.3	2.2
80°-90°	11.4	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°	1033.7	43.8
0°-40°	1575.7	66.7
0°-60°	2180.0	92.3
0°-90°	2361.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2361.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1347	1347	1347	1347	1347	
5°	1267	1311	1330	1390	1396	119
15°	1137	1194	1295	1406	1427	322
25°	1062	1111	1184	1266	1274	489
35°	896	906	852	868	861	555
45°	630	599	425	411	399	489
55°	444	417	163	142	137	394
65°	271	248	45	33	31	268
75°	125	109	14	9	9	135
85°	30	23	2	2	0	33
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°	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1
2.5°	1303.7	1319.3	1303.7	1308.9	1329.8	1310.6	1321.0	1321.0	1315.9	1328.0	1336.7
5°	1267.3	1282.9	1267.3	1274.1	1296.8	1277.6	1289.8	1286.3	1288.1	1298.6	1310.6
7.5°	1230.8	1242.9	1229.0	1237.7	1258.6	1242.9	1253.3	1253.3	1255.1	1270.6	1281.2
10°	1194.3	1204.7	1194.3	1201.3	1223.8	1210.0	1217.0	1218.7	1223.8	1237.7	1253.3
12.5°	1161.3	1170.1	1159.6	1170.1	1189.1	1175.2	1184.0	1185.7	1190.8	1206.5	1223.8
15°	1137.1	1145.7	1135.4	1144.0	1161.3	1150.9	1157.8	1161.3	1164.8	1178.7	1194.3
17.5°	1118.0	1124.9	1116.2	1126.6	1140.5	1128.4	1138.8	1138.8	1144.0	1157.8	1175.2
20°	1097.1	1104.1	1097.1	1105.8	1121.5	1111.0	1119.7	1119.7	1124.9	1140.5	1156.1
22.5°	1078.0	1081.5	1078.0	1085.0	1100.6	1091.9	1097.1	1098.9	1104.1	1118.0	1131.9
25°	1062.4	1069.3	1065.9	1072.8	1083.2	1074.5	1079.7	1081.5	1086.7	1098.9	1111.0
27.5°	1045.0	1048.5	1045.0	1053.8	1062.4	1055.5	1060.7	1058.9	1062.4	1072.8	1083.2
30°	1010.3	1013.8	1013.8	1019.0	1025.9	1022.5	1027.6	1022.5	1025.9	1034.6	1045.0
32.5°	960.0	961.7	963.4	968.7	973.9	968.7	972.2	972.2	972.2	979.1	986.0
35°	895.8	899.2	897.5	901.0	906.2	904.4	904.4	902.7	899.2	902.7	906.2
37.5°	822.8	817.6	817.6	822.8	826.3	819.4	822.8	819.4	819.4	821.1	821.1
40°	746.5	741.3	746.5	748.2	749.9	746.5	744.7	741.3	736.0	737.8	734.3
42.5°	682.3	678.7	680.5	680.5	682.3	678.7	680.5	673.5	668.3	664.9	659.7
45°	630.1	624.9	630.1	626.6	626.6	624.9	623.2	619.8	612.8	607.6	598.9
47.5°	581.6	581.6	583.3	583.3	583.3	579.8	579.8	572.9	565.9	558.9	546.8
50°	541.6	538.2	545.0	545.0	539.9	538.2	539.9	531.2	526.0	517.3	505.2
52.5°	498.2	498.2	500.0	500.0	498.2	494.7	496.5	489.6	484.3	475.7	463.5
55°	444.4	441.0	446.1	446.1	444.4	442.7	444.4	439.2	434.0	427.1	416.6
57.5°	383.6	381.9	385.3	387.1	383.6	383.6	385.3	380.1	378.5	371.5	361.1
60°	338.5	336.8	340.3	342.0	338.5	338.5	338.5	331.5	328.1	321.1	314.2
62.5°	307.2	305.5	309.0	307.2	305.5	303.8	305.5	298.6	295.2	288.2	281.3
65°	270.8	272.5	274.3	274.3	272.5	270.8	270.8	267.3	263.9	256.9	248.3
67.5°	236.0	236.0	237.8	239.5	237.8	237.8	237.8	232.6	229.1	223.9	213.6
70°	199.7	197.9	203.1	203.1	199.7	201.4	199.7	197.9	194.4	187.4	178.8
72.5°	161.4	161.4	163.2	163.2	161.4	161.4	161.4	159.7	154.4	151.0	142.3
75°	125.0	125.0	126.7	128.5	125.0	125.0	126.7	123.2	119.8	114.6	109.3
77.5°	93.8	92.0	93.8	93.8	92.0	92.0	92.0	90.3	88.5	83.3	78.1
80°	65.9	64.2	65.9	65.9	65.9	64.2	64.2	62.5	62.5	59.0	53.9
82.5°	45.1	43.4	45.1	45.1	45.1	43.4	43.4	43.4	41.6	40.0	36.5
85°	29.5	27.7	27.7	29.5	27.7	27.7	27.7	27.7	26.0	24.3	22.6
87.5°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	12.2	12.2	12.2	10.4
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°	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1
2.5°	1329.8	1326.3	1336.7	1333.2	1334.9	1326.3	1340.2	1333.2	1341.9	1333.2	1350.5
5°	1307.2	1303.7	1319.3	1317.5	1319.3	1312.4	1328.0	1326.3	1336.7	1329.8	1348.8
7.5°	1282.9	1279.4	1296.8	1298.6	1302.0	1295.1	1315.9	1315.9	1326.3	1324.5	1345.4
10°	1255.1	1256.8	1274.1	1277.6	1284.6	1281.2	1300.2	1305.4	1319.3	1317.5	1343.7
12.5°	1229.0	1229.0	1251.6	1258.6	1263.8	1262.1	1284.6	1291.6	1307.2	1310.6	1334.9
15°	1203.0	1204.7	1225.6	1236.0	1242.9	1241.2	1265.5	1274.1	1293.3	1295.1	1324.5
17.5°	1182.2	1180.5	1203.0	1211.7	1222.1	1220.4	1246.4	1256.8	1275.9	1281.2	1308.9
20°	1164.8	1163.1	1184.0	1194.3	1201.3	1199.6	1225.6	1237.7	1255.1	1258.6	1286.3
22.5°	1144.0	1140.5	1161.3	1170.1	1177.0	1175.2	1197.8	1206.5	1223.8	1227.3	1253.3
25°	1119.7	1116.2	1135.4	1140.5	1145.7	1142.2	1161.3	1166.6	1180.5	1184.0	1210.0
27.5°	1091.9	1083.2	1098.9	1098.9	1102.4	1097.1	1111.0	1116.2	1128.4	1128.4	1152.7
30°	1048.5	1036.4	1045.0	1043.3	1045.0	1038.1	1046.8	1048.5	1057.2	1055.5	1072.8
32.5°	987.7	970.4	975.7	970.4	965.2	954.8	965.2	961.7	968.7	961.7	977.3
35°	904.4	887.1	885.3	878.4	873.2	864.5	864.5	855.9	857.6	852.4	862.8
37.5°	814.2	791.6	788.1	774.3	765.6	755.1	755.1	748.2	739.5	736.0	744.7
40°	725.6	701.4	692.7	670.1	661.4	651.0	644.0	635.4	631.9	618.1	624.9
42.5°	649.3	623.2	604.2	579.8	571.2	555.5	545.0	534.7	529.5	513.8	520.8
45°	585.0	553.8	533.0	501.7	489.6	472.2	456.6	444.4	432.2	425.3	421.8
47.5°	531.2	498.2	470.4	435.7	416.6	401.0	380.1	368.0	352.4	343.7	338.5
50°	486.1	449.6	418.4	378.5	359.4	342.0	317.6	298.6	284.7	270.8	267.3
52.5°	446.1	408.0	373.3	328.1	305.5	284.7	258.7	237.8	225.6	210.1	208.3
55°	399.2	366.3	328.1	281.3	258.7	237.8	210.1	189.2	173.6	163.2	159.7
57.5°	348.9	317.6	281.3	234.3	211.8	189.2	163.2	144.0	130.2	121.5	119.8
60°	302.0	272.5	237.8	190.9	168.4	149.3	121.5	102.4	90.3	83.3	79.8
62.5°	267.3	239.5	206.6	163.2	142.3	123.2	97.2	79.8	69.4	62.5	59.0
65°	234.3	206.6	177.1	137.1	119.8	102.4	78.1	62.5	52.1	45.1	41.6
67.5°	199.7	175.4	147.5	114.6	97.2	83.3	62.5	48.6	40.0	34.7	31.2
70°	164.9	142.3	119.8	92.0	79.8	65.9	48.6	38.2	29.5	26.0	22.6
72.5°	130.2	112.8	93.8	71.2	60.7	52.1	38.2	27.7	22.6	19.1	15.7
75°	97.2	85.1	69.4	53.9	45.1	38.2	27.7	20.9	17.4	13.9	12.2
77.5°	69.4	59.0	48.6	36.5	33.0	27.7	19.1	15.7	12.2	8.7	7.0
80°	46.9	41.6	33.0	26.0	20.9	19.1	13.9	10.4	7.0	5.3	5.3
82.5°	31.2	26.0	20.9	15.7	13.9	12.2	8.7	7.0	5.3	3.5	3.5
85°	19.1	15.7	12.2	8.7	8.7	7.0	5.3	3.5	1.8	1.8	1.8
87.5°	8.7	7.0	5.3	3.5	3.5	1.8	1.8	1.8	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1
2.5°	1364.5	1354.0	1347.1	1355.7	1359.2	1354.0	1359.2	1367.9	1376.7	1378.4	1354.0
5°	1366.2	1355.7	1352.2	1362.7	1364.5	1362.7	1367.9	1380.1	1390.5	1394.0	1369.7
7.5°	1366.2	1359.2	1357.5	1369.7	1371.4	1369.7	1378.4	1392.2	1402.6	1409.6	1385.3
10°	1362.7	1359.2	1361.0	1371.4	1374.9	1374.9	1387.0	1402.6	1413.1	1420.0	1395.7
12.5°	1357.5	1357.5	1357.5	1369.7	1373.2	1374.9	1385.3	1406.1	1413.1	1423.5	1399.1
15°	1348.8	1348.8	1348.8	1361.0	1366.2	1366.2	1378.4	1397.4	1406.1	1416.5	1392.2
17.5°	1333.2	1333.2	1334.9	1345.4	1350.5	1350.5	1362.7	1383.5	1388.7	1400.9	1376.7
20°	1310.6	1310.6	1312.4	1322.8	1328.0	1324.5	1340.2	1357.5	1362.7	1373.2	1348.8
22.5°	1277.6	1277.6	1277.6	1288.1	1291.6	1289.8	1305.4	1321.0	1321.0	1334.9	1308.9
25°	1229.0	1232.5	1229.0	1239.4	1242.9	1241.2	1255.1	1268.9	1265.5	1281.2	1255.1
27.5°	1170.1	1168.3	1168.3	1177.0	1177.0	1175.2	1185.7	1201.3	1197.8	1208.2	1184.0
30°	1088.5	1093.6	1085.0	1097.1	1091.9	1088.5	1095.4	1109.2	1104.1	1112.7	1093.6
32.5°	994.6	987.7	987.7	987.7	991.2	982.5	989.5	996.4	991.2	999.9	979.1
35°	871.4	873.2	867.9	869.7	871.4	861.1	867.9	874.9	867.9	873.2	854.1
37.5°	748.2	749.9	737.8	744.7	737.8	734.3	741.3	744.7	737.8	743.0	722.1
40°	624.9	621.5	619.8	619.8	621.5	612.8	618.1	623.2	618.1	621.5	602.4
42.5°	517.3	515.6	512.1	513.8	508.6	506.9	508.6	513.8	508.6	512.1	498.2
45°	423.6	420.1	414.9	416.6	416.6	408.0	413.1	416.6	411.4	413.1	401.0
47.5°	336.8	331.5	331.5	329.9	329.9	326.4	331.5	329.9	324.6	328.1	315.9
50°	262.1	258.7	258.7	258.7	258.7	253.4	255.2	258.7	253.4	253.4	246.5
52.5°	204.8	199.7	196.2	196.2	196.2	194.4	194.4	196.2	190.9	190.9	189.2
55°	154.4	152.8	147.5	147.5	147.5	142.3	144.0	144.0	142.3	142.3	137.1
57.5°	114.6	109.3	105.8	105.8	102.4	102.4	100.7	102.4	99.0	99.0	95.5
60°	76.3	72.9	71.2	69.4	69.4	67.7	69.4	67.7	67.7	65.9	64.2
62.5°	55.6	52.1	48.6	48.6	48.6	46.9	46.9	46.9	46.9	46.9	45.1
65°	40.0	36.5	36.5	34.7	34.7	33.0	33.0	33.0	33.0	33.0	31.2
67.5°	27.7	26.0	24.3	24.3	24.3	24.3	24.3	24.3	22.6	22.6	22.6
70°	20.9	19.1	17.4	17.4	17.4	17.4	17.4	15.7	17.4	17.4	15.7
72.5°	13.9	13.9	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
75°	10.4	10.4	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
77.5°	7.0	7.0	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
80°	5.3	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	3.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	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: P857663

CATALOG NUMBER: LX4C30D010 EX4C309840 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1	1347.1
2.5°	1380.1	1378.4	1374.9	1380.1	1366.2	1361.0	1359.2	1374.9
5°	1399.1	1395.7	1395.7	1400.9	1385.3	1381.8	1378.4	1395.7
7.5°	1416.5	1413.1	1413.1	1418.3	1404.4	1400.9	1397.4	1414.8
10°	1427.0	1427.0	1427.0	1430.4	1418.3	1414.8	1413.1	1430.4
12.5°	1432.1	1432.1	1430.4	1437.3	1421.8	1421.8	1418.3	1435.6
15°	1425.2	1425.2	1425.2	1430.4	1416.5	1413.1	1413.1	1427.0
17.5°	1407.9	1407.9	1406.1	1411.4	1395.7	1395.7	1394.0	1409.6
20°	1381.8	1381.8	1378.4	1385.3	1369.7	1364.5	1362.7	1378.4
22.5°	1340.2	1338.4	1336.7	1340.2	1326.3	1322.8	1321.0	1334.9
25°	1286.3	1284.6	1281.2	1284.6	1268.9	1263.8	1263.8	1274.1
27.5°	1210.0	1210.0	1204.7	1210.0	1192.5	1190.8	1189.1	1201.3
30°	1116.2	1109.2	1105.8	1112.7	1095.4	1095.4	1091.9	1104.1
32.5°	999.9	993.0	991.2	994.6	979.1	973.9	980.8	987.7
35°	866.2	867.9	861.1	861.1	847.2	848.8	850.6	861.1
37.5°	737.8	734.3	732.6	734.3	723.9	720.4	717.0	727.4
40°	618.1	609.3	607.6	607.6	598.9	597.2	598.9	604.2
42.5°	505.2	503.4	496.5	500.0	491.3	494.7	493.0	493.0
45°	408.0	409.7	402.7	408.0	401.0	395.8	395.8	399.2
47.5°	322.9	322.9	321.1	321.1	315.9	317.6	314.2	319.4
50°	250.0	250.0	246.5	248.3	244.8	244.8	243.0	244.8
52.5°	190.9	189.2	189.2	187.4	184.0	185.7	187.4	184.0
55°	138.8	140.6	137.1	138.8	135.5	137.1	135.5	137.1
57.5°	95.5	97.2	93.8	97.2	93.8	95.5	93.8	93.8
60°	65.9	65.9	64.2	65.9	64.2	64.2	62.5	65.9
62.5°	45.1	45.1	45.1	45.1	45.1	43.4	45.1	45.1
65°	33.0	31.2	31.2	31.2	31.2	31.2	31.2	31.2
67.5°	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6
70°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7
72.5°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
75°	8.7	8.7	8.7	8.7	8.7	8.7	8.7	8.7
77.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	1.8	1.8	1.8	0.0	1.8	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)