

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: P857637

Luminaire Tested: **LX4C30D010 EX4C309830 4LBSWNH**

Issue Date: 2/18/2022



Test Information

Test Method: LM-79-08
Report Number: P857637
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 EX4C309830 4LBSWNH
Description:
Light Source: -
Ballast/Driver: -

Summary

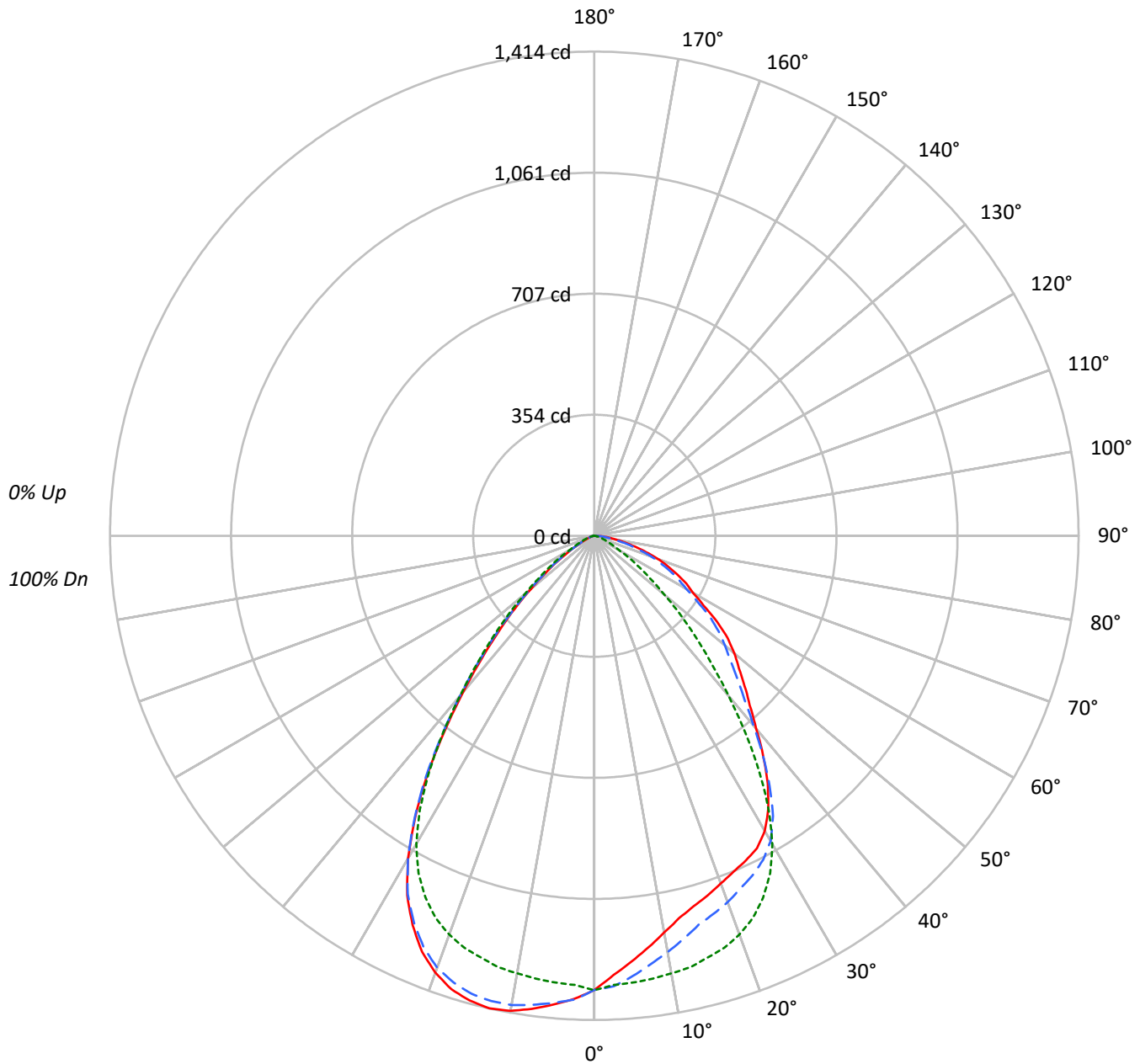
Lumens per Lamp: N/A
Luminaire Lumens: 2325.7 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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	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°	162990	162990	162990
5°	153919	161516	169519
10°	146742	161886	175746
15°	142424	162227	178749
20°	141262	162050	177477
25°	141844	158056	170106
30°	141164	147462	154257
35°	132309	125905	127180
40°	117907	97620	95438
45°	107841	72780	68332
50°	101947	50973	46061
55°	93772	34420	28915
60°	81894	20148	15946
65°	77529	12907	8953
70°	70619	9231	5532
75°	58432	6456	4082
80°	45916	3679	2405
85°	41019	2537	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.4	5.4
10°-20°	359.6	15.5
20°-30°	533.1	22.9
30°-40°	533.8	23.0
40°-50°	373.1	16.0
50°-60°	222.0	9.5
60°-70°	115.9	5.0
70°-80°	51.5	2.2
80°-90°	11.3	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°	1018.1	43.8
0°-40°	1551.9	66.7
0°-60°	2147.0	92.3
0°-90°	2325.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2325.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1327	1327	1327	1327	1327	
5°	1248	1291	1310	1370	1375	117
15°	1120	1176	1276	1385	1405	317
25°	1046	1094	1166	1246	1255	482
35°	882	892	840	855	848	547
45°	621	590	419	405	393	482
55°	438	410	161	140	135	388
65°	267	244	44	32	31	264
75°	123	108	14	9	9	133
85°	29	22	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°	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7
2.5°	1284.0	1299.4	1284.0	1289.2	1309.7	1290.8	1301.1	1301.1	1296.0	1307.9	1316.5
5°	1248.1	1263.5	1248.1	1254.9	1277.2	1258.3	1270.3	1266.9	1268.7	1278.9	1290.8
7.5°	1212.2	1224.2	1210.5	1219.0	1239.5	1224.2	1234.4	1234.4	1236.1	1251.5	1261.8
10°	1176.3	1186.6	1176.3	1183.2	1205.4	1191.7	1198.5	1200.2	1205.4	1219.0	1234.4
12.5°	1143.7	1152.4	1142.1	1152.4	1171.1	1157.5	1166.0	1167.7	1172.9	1188.2	1205.4
15°	1119.8	1128.4	1118.2	1126.7	1143.7	1133.5	1140.4	1143.7	1147.2	1160.9	1176.3
17.5°	1101.1	1107.9	1099.3	1109.6	1123.2	1111.4	1121.6	1121.6	1126.7	1140.4	1157.5
20°	1080.5	1087.4	1080.5	1089.1	1104.5	1094.3	1102.7	1102.7	1107.9	1123.2	1138.7
22.5°	1061.8	1065.2	1061.8	1068.6	1083.9	1075.4	1080.5	1082.2	1087.4	1101.1	1114.8
25°	1046.4	1053.1	1049.8	1056.6	1066.9	1058.3	1063.4	1065.2	1070.3	1082.2	1094.3
27.5°	1029.2	1032.6	1029.2	1037.8	1046.4	1039.5	1044.7	1042.9	1046.4	1056.6	1066.9
30°	995.1	998.5	998.5	1003.6	1010.5	1007.0	1012.1	1007.0	1010.5	1019.0	1029.2
32.5°	945.5	947.2	948.9	954.1	959.2	954.1	957.5	957.5	957.5	964.3	971.1
35°	882.2	885.6	884.0	887.4	892.5	890.8	890.8	889.1	885.6	889.1	892.5
37.5°	810.4	805.2	805.2	810.4	813.8	807.0	810.4	807.0	807.0	808.7	808.7
40°	735.2	730.1	735.2	736.9	738.5	735.2	733.5	730.1	724.9	726.7	723.2
42.5°	671.9	668.4	670.2	670.2	671.9	668.4	670.2	663.4	658.2	654.8	649.7
45°	620.7	615.6	620.7	617.2	617.2	615.6	613.8	610.4	603.5	598.4	589.9
47.5°	572.8	572.8	574.5	574.5	574.5	571.0	571.0	564.2	557.3	550.5	538.6
50°	533.4	530.0	536.8	536.8	531.7	530.0	531.7	523.2	518.1	509.5	497.5
52.5°	490.6	490.6	492.4	492.4	490.6	487.2	489.0	482.2	477.0	468.5	456.5
55°	437.8	434.3	439.4	439.4	437.8	436.0	437.8	432.6	427.5	420.6	410.3
57.5°	377.8	376.1	379.5	381.3	377.8	377.8	379.5	374.4	372.7	365.9	355.6
60°	333.3	331.7	335.1	336.8	333.3	333.3	333.3	326.6	323.1	316.3	309.4
62.5°	302.6	301.0	304.4	302.6	301.0	299.2	301.0	294.1	290.7	283.8	277.0
65°	266.7	268.4	270.2	270.2	268.4	266.7	266.7	263.3	259.9	253.1	244.5
67.5°	232.5	232.5	234.3	236.0	234.3	234.3	234.3	229.1	225.7	220.5	210.3
70°	196.6	194.9	200.0	200.0	196.6	198.3	196.6	194.9	191.5	184.7	176.1
72.5°	159.0	159.0	160.7	160.7	159.0	159.0	159.0	157.3	152.1	148.7	140.2
75°	123.1	123.1	124.8	126.5	123.1	123.1	124.8	121.4	118.0	112.9	107.7
77.5°	92.4	90.6	92.4	92.4	90.6	90.6	90.6	88.9	87.2	82.0	77.0
80°	64.9	63.2	64.9	64.9	64.9	63.2	63.2	61.5	61.5	58.1	53.0
82.5°	44.4	42.8	44.4	44.4	44.4	42.8	42.8	42.8	41.0	39.3	35.9
85°	29.1	27.4	27.4	29.1	27.4	27.4	27.4	27.4	25.7	23.9	22.3
87.5°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	12.0	12.0	12.0	10.3
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°	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7
2.5°	1309.7	1306.2	1316.5	1313.1	1314.8	1306.2	1320.0	1313.1	1321.6	1313.1	1330.2
5°	1287.4	1284.0	1299.4	1297.7	1299.4	1292.6	1307.9	1306.2	1316.5	1309.7	1328.4
7.5°	1263.5	1260.0	1277.2	1278.9	1282.3	1275.5	1296.0	1296.0	1306.2	1304.5	1325.0
10°	1236.1	1237.8	1254.9	1258.3	1265.2	1261.8	1280.5	1285.7	1299.4	1297.7	1323.3
12.5°	1210.5	1210.5	1232.7	1239.5	1244.7	1243.0	1265.2	1272.1	1287.4	1290.8	1314.8
15°	1184.9	1186.6	1207.1	1217.3	1224.2	1222.5	1246.4	1254.9	1273.8	1275.5	1304.5
17.5°	1164.3	1162.7	1184.9	1193.4	1203.7	1202.0	1227.6	1237.8	1256.6	1261.8	1289.2
20°	1147.2	1145.5	1166.0	1176.3	1183.2	1181.5	1207.1	1219.0	1236.1	1239.5	1266.9
22.5°	1126.7	1123.2	1143.7	1152.4	1159.2	1157.5	1179.7	1188.2	1205.4	1208.8	1234.4
25°	1102.7	1099.3	1118.2	1123.2	1128.4	1125.0	1143.7	1148.9	1162.7	1166.0	1191.7
27.5°	1075.4	1066.9	1082.2	1082.2	1085.7	1080.5	1094.3	1099.3	1111.4	1111.4	1135.3
30°	1032.6	1020.8	1029.2	1027.6	1029.2	1022.4	1031.0	1032.6	1041.3	1039.5	1056.6
32.5°	972.8	955.8	960.9	955.8	950.6	940.3	950.6	947.2	954.1	947.2	962.5
35°	890.8	873.7	871.9	865.1	860.0	851.4	851.4	843.0	844.6	839.5	849.7
37.5°	801.9	779.6	776.3	762.5	754.0	743.7	743.7	736.9	728.3	724.9	733.5
40°	714.6	690.7	682.2	660.0	651.4	641.2	634.3	625.7	622.3	608.7	615.6
42.5°	639.5	613.8	595.1	571.0	562.5	547.1	536.8	526.6	521.5	506.1	512.9
45°	576.2	545.4	524.9	494.1	482.2	465.0	449.6	437.8	425.7	418.9	415.5
47.5°	523.2	490.6	463.3	429.1	410.3	395.0	374.4	362.5	347.1	338.5	333.3
50°	478.8	442.8	412.1	372.7	353.9	336.8	312.8	294.1	280.5	266.7	263.3
52.5°	439.4	401.8	367.6	323.1	301.0	280.5	254.8	234.3	222.2	206.9	205.2
55°	393.3	360.8	323.1	277.0	254.8	234.3	206.9	186.4	170.9	160.7	157.3
57.5°	343.7	312.8	277.0	230.8	208.6	186.4	160.7	141.9	128.2	119.7	118.0
60°	297.5	268.4	234.3	188.1	165.8	147.0	119.7	100.9	88.9	82.0	78.7
62.5°	263.3	236.0	203.5	160.7	140.2	121.4	95.8	78.7	68.4	61.5	58.1
65°	230.8	203.5	174.4	135.0	118.0	100.9	77.0	61.5	51.3	44.4	41.0
67.5°	196.6	172.7	145.3	112.9	95.8	82.0	61.5	47.9	39.3	34.2	30.8
70°	162.4	140.2	118.0	90.6	78.7	64.9	47.9	37.6	29.1	25.7	22.3
72.5°	128.2	111.1	92.4	70.1	59.8	51.3	37.6	27.4	22.3	18.8	15.4
75°	95.8	83.7	68.4	53.0	44.4	37.6	27.4	20.5	17.1	13.6	12.0
77.5°	68.4	58.1	47.9	35.9	32.5	27.4	18.8	15.4	12.0	8.6	6.9
80°	46.2	41.0	32.5	25.7	20.5	18.8	13.6	10.3	6.9	5.2	5.2
82.5°	30.8	25.7	20.5	15.4	13.6	12.0	8.6	6.9	5.2	3.4	3.4
85°	18.8	15.4	12.0	8.6	8.6	6.9	5.2	3.4	1.8	1.8	1.8
87.5°	8.6	6.9	5.2	3.4	3.4	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°	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7
2.5°	1343.9	1333.6	1326.7	1335.3	1338.7	1333.6	1338.7	1347.2	1355.8	1357.5	1333.6
5°	1345.5	1335.3	1331.8	1342.1	1343.9	1342.1	1347.2	1359.3	1369.5	1372.9	1349.0
7.5°	1345.5	1338.7	1337.0	1349.0	1350.7	1349.0	1357.5	1371.2	1381.5	1388.3	1364.4
10°	1342.1	1338.7	1340.5	1350.7	1354.1	1354.1	1366.1	1381.5	1391.7	1398.5	1374.6
12.5°	1337.0	1337.0	1337.0	1349.0	1352.4	1354.1	1364.4	1384.9	1391.7	1402.0	1378.0
15°	1328.4	1328.4	1328.4	1340.5	1345.5	1345.5	1357.5	1376.3	1384.9	1395.1	1371.2
17.5°	1313.1	1313.1	1314.8	1325.0	1330.2	1330.2	1342.1	1362.7	1367.8	1379.8	1355.8
20°	1290.8	1290.8	1292.6	1302.8	1307.9	1304.5	1320.0	1337.0	1342.1	1352.4	1328.4
22.5°	1258.3	1258.3	1258.3	1268.7	1272.1	1270.3	1285.7	1301.1	1301.1	1314.8	1289.2
25°	1210.5	1213.9	1210.5	1220.7	1224.2	1222.5	1236.1	1249.8	1246.4	1261.8	1236.1
27.5°	1152.4	1150.6	1150.6	1159.2	1159.2	1157.5	1167.7	1183.2	1179.7	1189.9	1166.0
30°	1072.1	1077.1	1068.6	1080.5	1075.4	1072.1	1078.8	1092.5	1087.4	1096.0	1077.1
32.5°	979.7	972.8	972.8	972.8	976.2	967.7	974.6	981.4	976.2	984.8	964.3
35°	858.3	860.0	854.8	856.6	858.3	848.0	854.8	861.7	854.8	860.0	841.2
37.5°	736.9	738.5	726.7	733.5	726.7	723.2	730.1	733.5	726.7	731.8	711.3
40°	615.6	612.1	610.4	610.4	612.1	603.5	608.7	613.8	608.7	612.1	593.3
42.5°	509.5	507.8	504.4	506.1	500.9	499.3	500.9	506.1	500.9	504.4	490.6
45°	417.2	413.7	408.6	410.3	410.3	401.8	406.9	410.3	405.2	406.9	395.0
47.5°	331.7	326.6	326.6	324.9	324.9	321.5	326.6	324.9	319.7	323.1	311.2
50°	258.2	254.8	254.8	254.8	254.8	249.6	251.3	254.8	249.6	249.6	242.7
52.5°	201.7	196.6	193.2	193.2	193.2	191.5	191.5	193.2	188.1	188.1	186.4
55°	152.1	150.4	145.3	145.3	145.3	140.2	141.9	141.9	140.2	140.2	135.0
57.5°	112.9	107.7	104.2	104.2	100.9	100.9	99.2	100.9	97.5	97.5	94.0
60°	75.2	71.8	70.1	68.4	68.4	66.7	68.4	66.7	66.7	64.9	63.2
62.5°	54.7	51.3	47.9	47.9	47.9	46.2	46.2	46.2	46.2	46.2	44.4
65°	39.3	35.9	35.9	34.2	34.2	32.5	32.5	32.5	32.5	32.5	30.8
67.5°	27.4	25.7	23.9	23.9	23.9	23.9	23.9	23.9	22.3	22.3	22.3
70°	20.5	18.8	17.1	17.1	17.1	17.1	17.1	15.4	17.1	17.1	15.4
72.5°	13.6	13.6	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
75°	10.3	10.3	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
77.5°	6.9	6.9	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
80°	5.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	3.4	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: P857637

CATALOG NUMBER: LX4C30D010 EX4C309830 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7	1326.7
2.5°	1359.3	1357.5	1354.1	1359.3	1345.5	1340.5	1338.7	1354.1
5°	1378.0	1374.6	1374.6	1379.8	1364.4	1361.0	1357.5	1374.6
7.5°	1395.1	1391.7	1391.7	1396.8	1383.2	1379.8	1376.3	1393.4
10°	1405.4	1405.4	1405.4	1408.8	1396.8	1393.4	1391.7	1408.8
12.5°	1410.6	1410.6	1408.8	1415.6	1400.3	1400.3	1396.8	1413.9
15°	1403.7	1403.7	1403.7	1408.8	1395.1	1391.7	1391.7	1405.4
17.5°	1386.6	1386.6	1384.9	1390.0	1374.6	1374.6	1372.9	1388.3
20°	1361.0	1361.0	1357.5	1364.4	1349.0	1343.9	1342.1	1357.5
22.5°	1320.0	1318.2	1316.5	1320.0	1306.2	1302.8	1301.1	1314.8
25°	1266.9	1265.2	1261.8	1265.2	1249.8	1244.7	1244.7	1254.9
27.5°	1191.7	1191.7	1186.6	1191.7	1174.5	1172.9	1171.1	1183.2
30°	1099.3	1092.5	1089.1	1096.0	1078.8	1078.8	1075.4	1087.4
32.5°	984.8	978.0	976.2	979.7	964.3	959.2	966.0	972.8
35°	853.2	854.8	848.0	848.0	834.3	836.0	837.8	848.0
37.5°	726.7	723.2	721.5	723.2	712.9	709.6	706.2	716.4
40°	608.7	600.1	598.4	598.4	589.9	588.2	589.9	595.1
42.5°	497.5	495.8	489.0	492.4	483.9	487.2	485.6	485.6
45°	401.8	403.5	396.6	401.8	395.0	389.8	389.8	393.3
47.5°	318.0	318.0	316.3	316.3	311.2	312.8	309.4	314.6
50°	246.2	246.2	242.7	244.5	241.0	241.0	239.3	241.0
52.5°	188.1	186.4	186.4	184.7	181.2	183.0	184.7	181.2
55°	136.8	138.5	135.0	136.8	133.4	135.0	133.4	135.0
57.5°	94.0	95.8	92.4	95.8	92.4	94.0	92.4	92.4
60°	64.9	64.9	63.2	64.9	63.2	63.2	61.5	64.9
62.5°	44.4	44.4	44.4	44.4	44.4	42.8	44.4	44.4
65°	32.5	30.8	30.8	30.8	30.8	30.8	30.8	30.8
67.5°	22.3	22.3	22.3	22.3	22.3	22.3	22.3	22.3
70°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
72.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
75°	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6
77.5°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
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)