

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: P857993

Luminaire Tested: **LX4C40D010 EX4C409827 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C40D010 EX4C409827 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

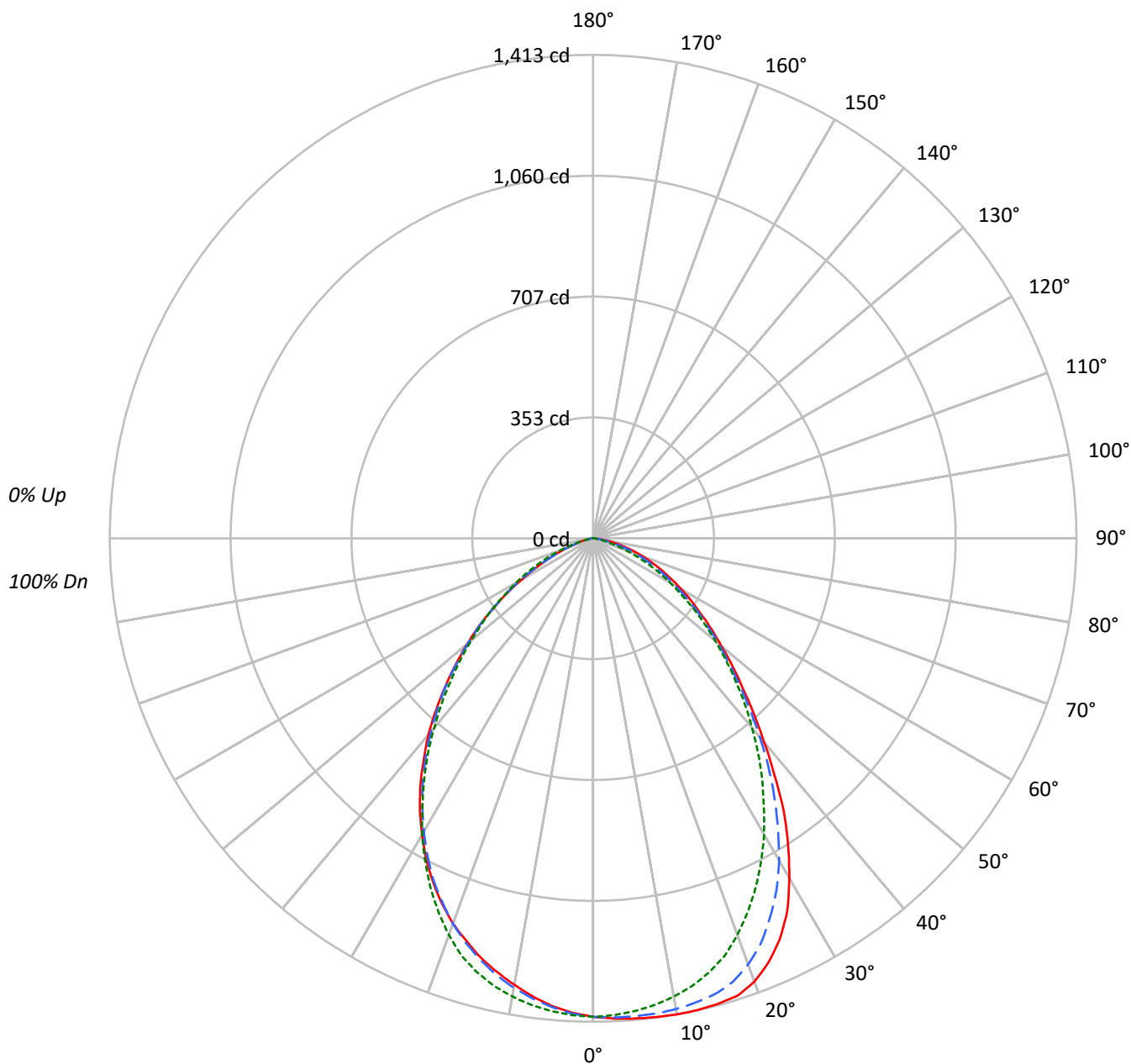
Lumens per Lamp: N/A
Luminaire Lumens: 2636.0 lumens
Efficiency: N/A
Efficacy: 56.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

TEST NUMBER: P857993

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P857993

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBLWWH

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	108	105	102	99		101	98	96			97	95	93			94
2	103	96	90	86	100	94	89	85		91	86	83			88	84	81			85
3	95	86	79	74	93	85	78	73		82	76	72			79	75	71			77
4	88	78	70	64	86	77	69	64		74	68	63			72	67	62			70
5	82	71	63	57	80	69	62	57		67	61	56			66	60	55			64
6	76	64	56	51	74	63	56	50		62	55	50			60	54	50			59
7	71	59	51	46	69	58	51	45		57	50	45			55	49	45			54
8	67	54	47	41	65	54	46	41		52	46	41			51	45	41			50
9	62	50	43	38	61	50	42	37		49	42	37			47	41	37			47
10	59	47	39	34	58	46	39	34		45	39	34			44	38	34			43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	171835	171835	171835
5°	173762	171110	169248
10°	176295	169658	165367
15°	179207	166946	161401
20°	180327	161265	156637
25°	175163	152566	150234
30°	162783	141802	141873
35°	145717	129265	131994
40°	124755	115870	120104
45°	107407	102160	105982
50°	93365	88931	91607
55°	82141	76508	75823
60°	73098	63859	58822
65°	64098	51133	42529
70°	55065	36135	28808
75°	44714	20933	16851
80°	31978	9127	8419
85°	12122	3806	3806



TEST NUMBER: P857993

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.8	5.0
10°-20°	373.1	14.2
20°-30°	532.8	20.2
30°-40°	557.4	21.1
40°-50°	467.0	17.7
50°-60°	326.9	12.4
60°-70°	178.0	6.8
70°-80°	61.8	2.3
80°-90°	7.1	0.3
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°	1037.8	39.4
0°-40°	1595.2	60.5
0°-60°	2389.1	90.6
0°-90°	2636.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2636.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1399	1399	1399	1399	1399	
5°	1409	1402	1388	1376	1372	135
15°	1409	1379	1313	1275	1269	398
25°	1292	1223	1126	1103	1108	590
35°	972	924	862	868	880	602
45°	618	604	588	607	610	481
55°	384	371	357	357	354	347
65°	220	201	176	148	146	220
75°	94	76	44	36	36	102
85°	9	5	3	3	3	16
90°	0	0	0	0	0	



TEST NUMBER: P857993

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7
2.5°	1405.2	1403.6	1404.1	1404.1	1404.1	1403.6	1404.1	1403.6	1403.6	1403.1	1401.9
5°	1409.0	1407.9	1407.9	1407.9	1407.3	1406.8	1406.8	1406.3	1405.2	1404.7	1402.4
7.5°	1411.6	1410.6	1410.6	1410.0	1409.5	1409.0	1408.4	1406.8	1405.2	1404.1	1401.4
10°	1413.2	1411.6	1411.6	1410.6	1409.5	1409.0	1407.9	1405.7	1403.6	1400.8	1397.1
12.5°	1412.2	1410.6	1410.0	1409.0	1406.8	1405.7	1404.7	1401.9	1398.2	1394.4	1389.6
15°	1409.0	1407.9	1406.8	1405.2	1402.4	1400.8	1399.8	1395.5	1390.7	1385.2	1379.3
17.5°	1402.4	1400.8	1398.7	1396.6	1392.8	1391.2	1388.5	1383.1	1376.1	1368.6	1359.5
20°	1379.3	1378.3	1376.1	1372.4	1366.4	1364.3	1360.5	1353.6	1344.4	1335.2	1325.6
22.5°	1341.2	1339.6	1336.3	1333.1	1327.7	1324.0	1320.8	1311.0	1300.8	1291.2	1282.0
25°	1292.2	1290.6	1286.2	1282.0	1276.6	1270.1	1266.9	1259.4	1249.2	1236.8	1223.4
27.5°	1229.3	1223.9	1222.3	1217.4	1209.4	1207.2	1202.3	1192.7	1183.0	1172.2	1161.0
30°	1147.5	1147.5	1144.3	1142.1	1134.6	1132.4	1127.1	1116.8	1111.5	1096.4	1087.7
32.5°	1060.9	1059.8	1057.1	1055.5	1051.2	1047.4	1042.1	1036.6	1024.8	1017.3	1005.4
35°	971.6	965.1	966.2	963.0	960.3	955.9	955.4	949.5	938.7	934.5	923.7
37.5°	869.9	867.2	871.0	866.1	863.5	864.0	859.6	855.9	851.6	844.0	841.9
40°	777.9	780.1	779.6	775.2	777.3	774.7	770.4	766.6	764.5	759.6	758.0
42.5°	695.6	692.3	691.3	691.3	691.8	691.8	689.7	687.0	687.0	682.2	677.3
45°	618.2	618.2	617.1	620.3	615.5	615.5	613.8	613.3	611.1	610.0	604.2
47.5°	551.5	550.9	550.4	549.8	549.2	549.2	546.0	543.3	542.8	539.6	536.4
50°	488.5	491.7	490.6	488.0	486.9	487.4	485.3	483.6	483.1	477.7	478.2
52.5°	435.8	435.3	436.3	434.6	432.0	432.5	430.4	428.2	426.1	423.4	421.3
55°	383.5	386.3	385.1	383.5	383.0	381.9	380.3	377.7	377.1	371.2	370.7
57.5°	340.0	339.5	338.4	335.7	335.1	333.5	333.5	331.4	328.2	325.0	322.3
60°	297.5	297.5	295.9	295.3	293.2	292.7	292.1	290.0	286.2	283.5	279.2
62.5°	256.6	257.7	256.6	255.0	253.3	251.2	250.1	248.5	245.3	242.6	238.9
65°	220.5	220.0	219.5	217.3	216.8	214.6	214.1	210.9	207.7	205.5	201.2
67.5°	186.1	184.5	184.5	183.4	182.4	180.8	179.7	176.5	172.7	170.5	166.2
70°	153.3	152.2	152.2	152.2	149.5	147.9	147.4	145.8	140.4	138.2	133.9
72.5°	123.2	122.6	122.1	120.5	118.9	118.9	116.7	113.5	110.8	108.2	104.9
75°	94.2	95.2	94.2	92.0	91.5	90.4	88.7	86.1	83.4	80.2	76.4
77.5°	68.8	67.8	66.7	66.7	65.6	63.5	63.0	60.8	57.6	55.4	51.6
80°	45.2	44.7	43.6	42.5	42.0	41.5	40.8	38.7	35.5	33.9	30.7
82.5°	24.8	24.2	24.2	23.6	22.0	22.0	21.5	19.4	17.7	16.7	15.1
85°	8.6	8.6	8.6	8.0	8.0	8.0	7.5	7.0	6.4	5.9	4.8
87.5°	1.1	0.5	1.1	0.5	1.1	0.5	0.5	0.5	0.5	0.5	0.5
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: P857993

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7
2.5°	1400.8	1399.8	1399.2	1398.7	1398.2	1397.6	1397.1	1396.0	1395.5	1395.0	1393.9
5°	1400.8	1398.7	1397.6	1396.0	1395.0	1393.9	1392.3	1390.7	1389.1	1387.5	1385.8
7.5°	1398.7	1395.5	1393.3	1390.1	1389.1	1387.5	1384.2	1382.0	1379.3	1376.1	1372.4
10°	1393.3	1389.6	1385.2	1381.0	1379.3	1376.7	1372.4	1368.6	1364.3	1360.0	1356.3
12.5°	1384.7	1378.8	1373.5	1367.5	1364.3	1361.6	1355.7	1350.3	1344.9	1340.1	1333.6
15°	1371.9	1364.8	1357.9	1349.7	1346.0	1342.8	1334.1	1327.7	1319.1	1312.6	1306.2
17.5°	1350.8	1340.1	1331.5	1321.3	1315.9	1312.1	1304.6	1294.4	1286.2	1279.3	1271.8
20°	1314.8	1304.6	1292.8	1281.4	1275.5	1270.6	1259.9	1249.2	1241.1	1233.5	1225.5
22.5°	1267.4	1254.5	1245.9	1231.9	1227.1	1221.2	1208.3	1198.6	1189.5	1181.9	1174.4
25°	1209.9	1198.6	1186.7	1173.9	1167.9	1161.0	1150.2	1139.9	1134.0	1125.5	1116.3
27.5°	1143.7	1134.6	1120.0	1108.8	1102.8	1097.5	1087.2	1078.1	1069.5	1063.6	1054.9
30°	1073.7	1063.0	1050.1	1038.3	1035.0	1028.6	1019.4	1012.5	1003.3	999.6	995.8
32.5°	996.9	984.5	974.8	967.3	960.9	955.4	950.6	939.3	937.7	928.0	926.9
35°	913.0	907.5	898.4	891.9	886.6	882.8	874.7	869.4	863.5	861.9	858.0
37.5°	833.9	827.4	818.8	812.9	809.1	808.5	802.7	799.4	795.1	792.9	788.7
40°	751.0	748.3	740.8	739.7	733.8	733.3	730.0	726.2	722.5	722.5	723.0
42.5°	674.6	671.4	668.2	664.3	661.1	661.1	659.5	658.5	657.4	655.8	658.5
45°	603.1	598.7	596.6	592.8	594.4	591.2	590.2	590.2	588.5	588.0	591.8
47.5°	536.4	531.5	529.3	528.3	528.3	528.8	524.0	525.6	525.1	526.1	527.7
50°	475.6	471.3	468.1	468.1	468.6	466.4	464.2	465.8	464.2	465.3	469.1
52.5°	419.1	414.7	413.1	413.1	409.9	409.4	410.5	408.3	408.9	409.4	411.5
55°	366.9	364.2	361.5	358.8	359.4	358.3	356.2	355.6	356.7	357.2	359.9
57.5°	320.1	316.3	312.6	311.5	310.4	310.4	307.7	307.2	308.3	305.6	305.6
60°	275.5	273.3	268.4	266.8	266.8	264.1	262.0	263.1	260.4	259.9	260.4
62.5°	234.0	232.4	229.2	226.0	224.9	223.8	221.1	220.0	218.9	216.8	213.6
65°	198.0	194.2	190.5	188.2	186.6	184.0	182.4	180.2	177.0	175.9	172.7
67.5°	161.9	158.2	154.4	152.8	151.2	149.5	146.9	144.2	140.4	136.1	132.3
70°	130.2	125.4	123.2	118.9	117.8	115.7	111.9	109.2	105.4	100.6	96.8
72.5°	99.5	96.3	93.1	89.3	86.6	85.0	81.8	77.5	73.1	70.4	66.7
75°	71.5	69.9	65.6	61.4	60.3	58.1	54.3	51.6	48.4	44.1	40.8
77.5°	48.4	45.2	42.5	38.7	37.6	35.5	33.4	30.7	28.5	25.9	23.6
80°	28.5	25.9	24.2	21.5	20.4	19.4	17.7	15.6	14.0	12.9	12.4
82.5°	14.0	11.9	11.3	9.7	9.2	8.6	7.5	7.0	5.9	5.9	5.9
85°	4.8	3.7	3.7	3.2	2.7	2.7	2.7	2.7	2.7	2.7	2.7
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	0.5
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: P857993

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7
2.5°	1393.3	1392.8	1392.3	1391.7	1391.7	1391.2	1391.2	1390.7	1390.7	1390.1	1390.1
5°	1383.6	1382.0	1381.0	1379.9	1379.9	1378.3	1377.2	1376.1	1375.6	1375.6	1374.5
7.5°	1370.3	1368.0	1365.9	1364.3	1363.7	1361.1	1358.9	1358.9	1356.8	1355.7	1354.6
10°	1352.4	1348.7	1345.5	1343.9	1341.7	1340.1	1337.4	1335.7	1334.1	1331.5	1330.9
12.5°	1328.2	1325.6	1320.8	1318.5	1317.5	1314.2	1310.0	1307.8	1307.3	1305.2	1303.5
15°	1300.8	1294.9	1290.6	1287.9	1287.9	1282.5	1280.4	1277.2	1275.0	1273.4	1272.9
17.5°	1265.3	1259.4	1255.1	1251.3	1250.2	1245.9	1242.7	1241.7	1239.0	1240.1	1237.3
20°	1219.5	1214.7	1211.5	1206.7	1206.7	1203.9	1202.9	1200.2	1199.1	1198.1	1199.1
22.5°	1170.6	1164.7	1159.4	1158.8	1158.8	1155.0	1154.4	1153.9	1151.8	1153.4	1152.8
25°	1113.1	1108.8	1105.5	1105.0	1105.0	1102.8	1100.7	1101.7	1103.4	1102.8	1104.4
27.5°	1053.3	1049.0	1048.0	1047.4	1046.4	1045.8	1046.9	1046.9	1048.5	1050.7	1052.8
30°	988.8	987.7	986.1	985.6	984.5	987.2	988.2	989.8	989.3	992.5	994.7
32.5°	924.2	922.1	921.5	922.6	924.2	923.7	926.9	928.0	929.1	932.9	934.5
35°	859.1	858.6	857.5	857.5	858.0	862.4	862.4	866.1	868.3	869.4	873.6
37.5°	789.2	791.3	792.4	794.0	794.5	796.2	797.3	801.1	803.2	805.3	807.5
40°	725.2	724.1	728.9	725.7	726.8	731.7	733.8	733.3	736.5	739.7	741.8
42.5°	656.9	658.5	659.5	660.6	663.3	663.8	666.6	670.3	671.4	675.1	676.2
45°	590.7	591.2	593.4	595.5	597.1	601.5	602.5	604.2	607.4	607.4	609.0
47.5°	528.3	530.4	530.4	533.7	536.4	535.8	539.6	540.7	540.1	542.8	543.9
50°	468.6	471.8	471.3	473.4	474.5	475.0	478.2	479.3	477.2	479.8	480.4
52.5°	411.5	413.1	415.3	415.8	414.7	417.4	416.4	418.6	418.0	420.2	418.0
55°	359.4	358.8	358.8	359.9	358.8	359.9	361.0	358.8	357.2	359.4	358.8
57.5°	307.2	307.2	306.1	307.7	306.1	304.5	304.0	302.3	300.7	300.7	300.2
60°	258.2	257.2	255.0	254.5	254.5	251.7	250.7	248.5	248.5	246.4	244.2
62.5°	212.5	209.8	208.2	208.2	207.2	204.4	199.6	196.4	195.3	192.1	191.5
65°	169.4	166.8	165.2	161.9	159.3	158.2	153.3	149.5	147.9	144.7	145.3
67.5°	130.2	125.9	121.0	118.9	117.3	113.5	111.9	109.2	107.6	107.6	107.6
70°	93.6	89.8	85.0	83.4	82.3	79.1	77.5	77.0	78.6	78.0	78.6
72.5°	63.0	59.2	57.0	55.9	54.8	53.2	54.3	54.8	53.8	54.3	54.8
75°	38.2	37.1	35.5	35.0	35.0	35.5	35.0	35.0	35.5	35.5	36.0
77.5°	22.0	21.0	21.0	20.4	21.5	21.0	21.0	21.0	21.5	21.5	21.5
80°	11.9	11.9	11.9	11.9	12.4	11.9	12.4	12.4	12.4	12.4	12.4
82.5°	5.9	5.9	5.9	6.4	6.4	6.4	6.4	6.4	6.4	6.4	5.9
85°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
87.5°	0.5	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5
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: P857993

CATALOG NUMBER: LX4C40D010 EX4C409827 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7	1398.7
2.5°	1389.1	1389.1	1389.1	1388.0	1388.5	1388.5	1388.0	1388.0
5°	1374.0	1373.5	1372.4	1372.4	1371.3	1372.4	1371.9	1372.4
7.5°	1353.6	1353.6	1351.9	1351.9	1351.3	1350.8	1350.3	1350.8
10°	1329.3	1329.3	1328.2	1327.7	1328.2	1326.1	1326.1	1325.6
12.5°	1302.4	1301.3	1300.2	1300.8	1300.2	1298.6	1298.1	1298.6
15°	1271.2	1269.6	1270.1	1268.5	1268.5	1268.0	1269.0	1269.0
17.5°	1236.8	1235.7	1234.6	1235.2	1234.1	1234.6	1234.1	1233.5
20°	1198.6	1198.1	1198.1	1195.9	1196.5	1195.9	1196.5	1198.1
22.5°	1154.4	1153.9	1154.4	1152.8	1153.9	1153.9	1155.5	1155.5
25°	1106.0	1105.5	1106.6	1107.1	1107.7	1109.3	1107.7	1108.3
27.5°	1052.3	1053.9	1055.5	1056.0	1058.1	1056.5	1055.5	1057.1
30°	997.9	997.9	997.4	999.6	1001.2	1002.8	1000.1	1000.1
32.5°	935.5	938.2	938.2	938.7	940.3	940.3	940.3	942.5
35°	875.8	877.4	878.0	875.8	876.8	876.3	880.1	880.1
37.5°	809.1	809.1	809.6	813.4	813.4	811.8	812.9	812.9
40°	745.6	746.1	744.0	745.1	747.8	746.7	747.8	748.9
42.5°	676.2	680.0	677.8	678.9	678.3	678.9	679.4	679.4
45°	610.0	611.1	611.1	611.6	612.7	613.8	610.6	610.0
47.5°	545.5	546.0	547.6	544.9	548.2	544.9	548.2	544.4
50°	480.4	482.5	480.9	482.0	480.4	480.4	479.8	479.3
52.5°	418.6	418.0	418.0	417.4	417.4	418.6	417.4	419.1
55°	356.7	357.2	356.2	355.6	355.1	356.7	355.1	354.0
57.5°	298.0	299.1	297.0	298.0	294.3	295.9	296.4	297.0
60°	243.7	242.1	242.1	240.0	240.0	241.6	239.4	239.4
62.5°	188.9	189.9	188.2	190.5	190.5	192.6	191.5	192.6
65°	144.7	145.3	145.8	145.8	145.8	149.0	147.9	146.3
67.5°	109.2	109.8	110.3	109.8	111.4	110.3	110.3	110.8
70°	79.1	79.6	80.2	80.2	79.6	80.2	80.2	80.2
72.5°	54.8	55.4	54.8	55.4	55.9	55.4	55.4	55.9
75°	36.0	36.0	35.5	35.5	35.5	35.5	36.0	35.5
77.5°	21.0	21.5	21.0	21.5	21.5	21.5	21.5	21.5
80°	12.4	12.4	12.4	11.9	12.4	12.4	12.4	11.9
82.5°	6.4	6.4	5.9	5.9	6.4	6.4	6.4	6.4
85°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	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)