

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: P858045

Luminaire Tested: **LX4C40D010 EX4C409850 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P858045
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 EX4C409850 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

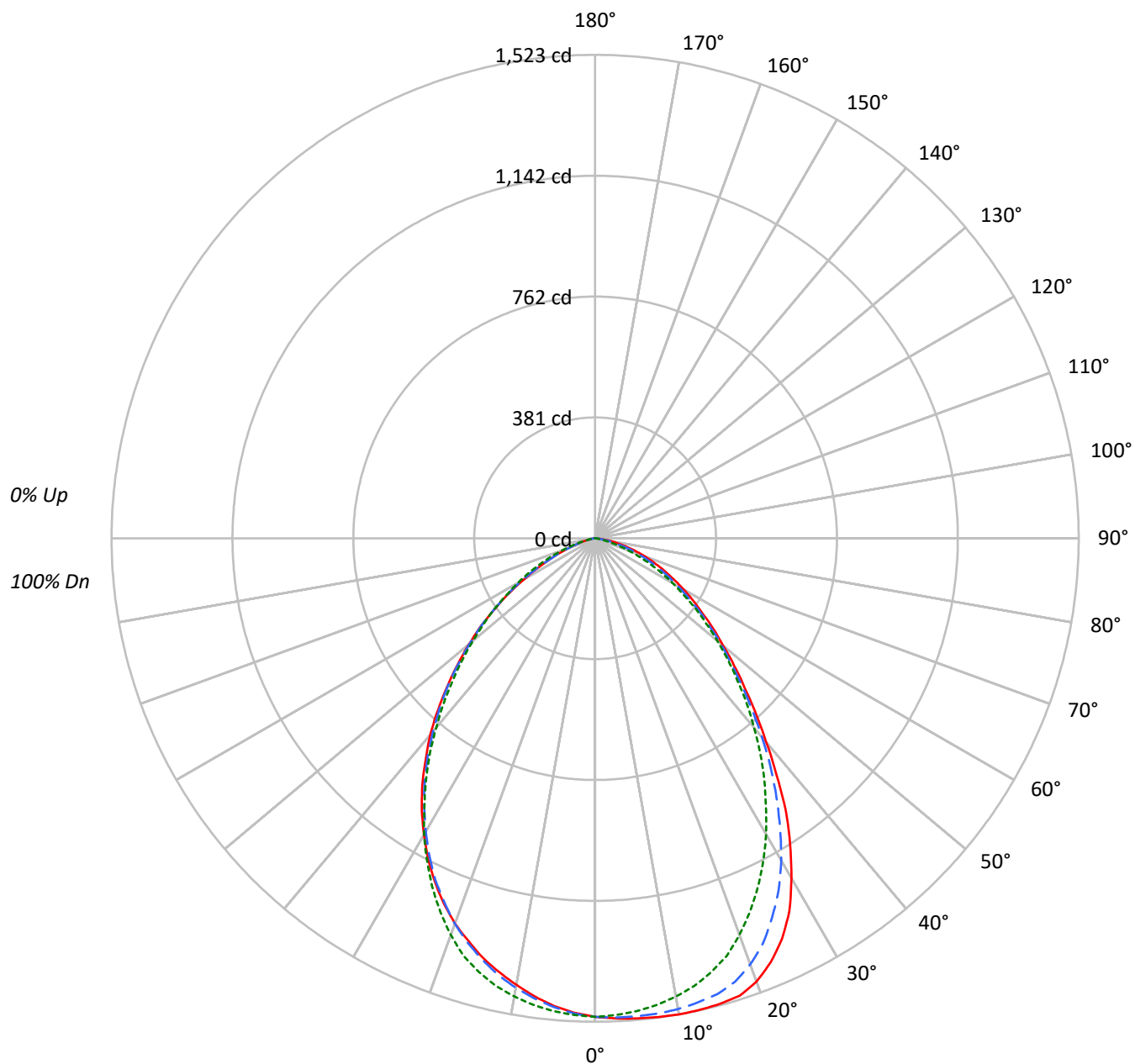
Lumens per Lamp: N/A
Luminaire Lumens: 2841.1 lumens
Efficiency: N/A
Efficacy: 60.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	108	105	102	99	101	98	96	97	95	93	94	92	90	88		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68		
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60		
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53		
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47		
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43		
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39		
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35		
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	185214	185214	185214
5°	187266	184417	182407
10°	190017	182857	178228
15°	193134	179932	173967
20°	194368	173829	168809
25°	188786	164427	161919
30°	175451	152825	152910
35°	157055	139313	142268
40°	134457	124883	129438
45°	115746	110117	114235
50°	100628	95850	98736
55°	88546	82463	81713
60°	78798	68823	63392
65°	69098	55116	45843
70°	59340	38937	31035
75°	48179	22547	18180
80°	34455	9834	9056
85°	13109	4088	4088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.1	5.0
10°-20°	402.2	14.2
20°-30°	574.3	20.2
30°-40°	600.8	21.1
40°-50°	503.4	17.7
50°-60°	352.3	12.4
60°-70°	191.8	6.8
70°-80°	66.6	2.3
80°-90°	7.7	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°	1118.6	39.4
0°-40°	1719.3	60.5
0°-60°	2575.0	90.6
0°-90°	2841.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2841.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1508	1508	1508	1508	1508	
5°	1518	1512	1495	1483	1479	145
15°	1518	1487	1415	1374	1368	429
25°	1393	1318	1213	1189	1194	636
35°	1047	996	929	936	949	649
45°	666	651	634	655	658	518
55°	413	400	385	385	382	373
65°	238	217	190	159	158	237
75°	102	82	48	38	38	109
85°	9	5	3	3	3	17
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°	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6
2.5°	1514.5	1512.8	1513.4	1513.4	1513.4	1512.8	1513.4	1512.8	1512.8	1512.2	1511.1
5°	1518.5	1517.4	1517.4	1517.4	1516.9	1516.2	1516.2	1515.7	1514.5	1513.9	1511.6
7.5°	1521.5	1520.3	1520.3	1519.7	1519.2	1518.5	1518.0	1516.2	1514.5	1513.4	1510.4
10°	1523.2	1521.5	1521.5	1520.3	1519.2	1518.5	1517.4	1515.1	1512.8	1509.9	1505.8
12.5°	1522.0	1520.3	1519.7	1518.5	1516.2	1515.1	1513.9	1511.1	1507.0	1502.9	1497.7
15°	1518.5	1517.4	1516.2	1514.5	1511.6	1509.9	1508.7	1504.1	1498.8	1493.0	1486.7
17.5°	1511.6	1509.9	1507.6	1505.3	1501.2	1499.5	1496.5	1490.7	1483.2	1475.1	1465.2
20°	1486.7	1485.6	1483.2	1479.1	1472.8	1470.5	1466.4	1458.9	1449.0	1439.1	1428.7
22.5°	1445.5	1443.7	1440.3	1436.8	1431.0	1427.0	1423.5	1413.1	1402.0	1391.6	1381.8
25°	1392.7	1391.0	1386.4	1381.8	1376.0	1369.0	1365.5	1357.4	1346.4	1333.1	1318.5
27.5°	1325.0	1319.1	1317.4	1312.1	1303.5	1301.1	1295.9	1285.4	1275.0	1263.4	1251.3
30°	1236.8	1236.8	1233.3	1231.0	1222.8	1220.5	1214.7	1203.8	1198.0	1181.6	1172.4
32.5°	1143.4	1142.2	1139.4	1137.6	1133.0	1128.9	1123.1	1117.4	1104.6	1096.5	1083.7
35°	1047.2	1040.2	1041.4	1037.9	1035.0	1030.3	1029.8	1023.4	1011.8	1007.1	995.5
37.5°	937.6	934.7	938.7	933.6	930.6	931.2	926.5	922.5	917.9	909.8	907.4
40°	838.4	840.7	840.2	835.6	837.9	834.9	830.3	826.3	824.0	818.7	817.0
42.5°	749.7	746.2	745.1	745.1	745.7	745.7	743.4	740.4	740.4	735.2	730.0
45°	666.2	666.2	665.1	668.5	663.4	663.4	661.6	661.0	658.6	657.5	651.1
47.5°	594.3	593.7	593.2	592.6	592.0	592.0	588.5	585.6	585.1	581.6	578.1
50°	526.5	530.0	528.8	525.9	524.7	525.3	523.0	521.2	520.7	514.9	515.4
52.5°	469.7	469.1	470.2	468.5	465.6	466.2	463.9	461.6	459.2	456.3	454.0
55°	413.4	416.4	415.2	413.4	412.9	411.7	409.9	407.1	406.5	400.1	399.5
57.5°	366.4	365.9	364.7	361.8	361.2	359.5	359.5	357.1	353.7	350.2	347.3
60°	320.7	320.7	318.9	318.4	316.0	315.4	314.9	312.6	308.5	305.6	301.0
62.5°	276.6	277.8	276.6	274.8	273.1	270.8	269.7	267.9	264.4	261.5	257.4
65°	237.7	237.1	236.6	234.3	233.6	231.3	230.8	227.3	223.8	221.5	216.9
67.5°	200.6	198.9	198.9	197.7	196.5	194.8	193.7	190.2	186.1	183.8	179.2
70°	165.2	164.1	164.1	164.1	161.2	159.4	158.9	157.1	151.3	149.0	144.4
72.5°	132.8	132.2	131.6	129.8	128.1	128.1	125.8	122.3	119.4	116.6	113.1
75°	101.5	102.6	101.5	99.2	98.5	97.4	95.7	92.7	89.9	86.4	82.3
77.5°	74.2	73.0	71.9	71.9	70.7	68.4	67.9	65.5	62.1	59.7	55.6
80°	48.7	48.2	47.0	45.8	45.2	44.7	44.1	41.7	38.3	36.6	33.1
82.5°	26.7	26.1	26.1	25.5	23.8	23.8	23.2	20.9	19.2	18.0	16.2
85°	9.3	9.3	9.3	8.7	8.7	8.7	8.1	7.6	7.0	6.4	5.3
87.5°	1.2	0.6	1.2	0.6	1.2	0.6	0.6	0.6	0.6	0.6	0.6
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°	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6
2.5°	1509.9	1508.7	1508.1	1507.6	1507.0	1506.4	1505.8	1504.6	1504.1	1503.5	1502.3
5°	1509.9	1507.6	1506.4	1504.6	1503.5	1502.3	1500.6	1498.8	1497.1	1495.4	1493.7
7.5°	1507.6	1504.1	1501.8	1498.3	1497.1	1495.4	1491.9	1489.6	1486.7	1483.2	1479.1
10°	1501.8	1497.7	1493.0	1488.4	1486.7	1483.8	1479.1	1475.1	1470.5	1465.8	1461.7
12.5°	1492.5	1486.1	1480.3	1474.0	1470.5	1467.5	1461.2	1455.3	1449.5	1444.4	1437.4
15°	1478.6	1471.0	1463.5	1454.8	1450.7	1447.2	1437.9	1431.0	1421.7	1414.7	1407.8
17.5°	1455.9	1444.4	1435.1	1424.0	1418.2	1414.2	1406.1	1395.0	1386.4	1378.8	1370.7
20°	1417.1	1406.1	1393.3	1381.1	1374.8	1369.5	1357.9	1346.4	1337.7	1329.6	1320.8
22.5°	1366.1	1352.1	1342.9	1327.8	1322.5	1316.2	1302.3	1291.9	1282.0	1273.9	1265.7
25°	1304.0	1291.9	1279.1	1265.2	1258.8	1251.3	1239.7	1228.6	1222.3	1213.0	1203.1
27.5°	1232.7	1222.8	1207.2	1195.0	1188.6	1182.8	1171.8	1161.9	1152.7	1146.3	1137.1
30°	1157.3	1145.7	1131.8	1119.0	1115.6	1108.6	1098.8	1091.2	1081.4	1077.3	1073.3
32.5°	1074.5	1061.1	1050.7	1042.5	1035.6	1029.8	1024.5	1012.4	1010.6	1000.2	999.0
35°	983.9	978.2	968.3	961.4	955.6	951.5	942.8	937.0	930.6	928.9	924.8
37.5°	898.7	891.7	882.5	876.1	872.0	871.5	865.1	861.6	857.0	854.6	850.0
40°	809.4	806.6	798.5	797.3	790.9	790.3	786.8	782.8	778.7	778.7	779.3
42.5°	727.1	723.6	720.2	716.1	712.6	712.6	710.9	709.7	708.6	706.8	709.7
45°	650.0	645.4	643.0	638.9	640.7	637.2	636.1	636.1	634.3	633.8	637.8
47.5°	578.1	572.9	570.5	569.4	569.4	570.0	564.7	566.5	565.9	567.1	568.8
50°	512.6	507.9	504.5	504.5	505.0	502.7	500.4	502.1	500.4	501.5	505.6
52.5°	451.7	447.0	445.3	445.3	441.9	441.2	442.4	440.1	440.7	441.2	443.6
55°	395.4	392.5	389.6	386.7	387.3	386.1	383.8	383.3	384.4	385.0	387.9
57.5°	345.0	340.9	336.9	335.7	334.6	334.6	331.6	331.1	332.3	329.3	329.3
60°	296.9	294.5	289.4	287.6	287.6	284.7	282.4	283.6	280.6	280.1	280.6
62.5°	252.2	250.5	247.0	243.5	242.4	241.2	238.3	237.1	236.0	233.6	230.2
65°	213.4	209.3	205.3	203.0	201.2	198.3	196.5	194.2	190.7	189.6	186.1
67.5°	174.5	170.5	166.4	164.7	162.9	161.2	158.3	155.4	151.3	146.7	142.7
70°	140.4	135.1	132.8	128.1	127.0	124.7	120.6	117.7	113.6	108.4	104.3
72.5°	107.3	103.8	100.3	96.2	93.4	91.6	88.1	83.5	78.8	76.0	71.9
75°	77.1	75.4	70.7	66.1	64.9	62.6	58.6	55.6	52.2	47.5	44.1
77.5°	52.2	48.7	45.8	41.7	40.6	38.3	35.9	33.1	30.8	27.8	25.5
80°	30.8	27.8	26.1	23.2	22.0	20.9	19.2	16.9	15.1	13.9	13.4
82.5°	15.1	12.8	12.2	10.4	9.9	9.3	8.1	7.6	6.4	6.4	6.4
85°	5.3	4.1	4.1	3.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	0.6
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°	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6
2.5°	1501.8	1501.2	1500.6	1500.0	1500.0	1499.5	1499.5	1498.8	1498.8	1498.3	1498.3
5°	1491.3	1489.6	1488.4	1487.2	1487.2	1485.6	1484.4	1483.2	1482.6	1482.6	1481.5
7.5°	1476.8	1474.5	1472.2	1470.5	1469.9	1467.0	1464.7	1464.7	1462.4	1461.2	1460.0
10°	1457.7	1453.6	1450.2	1448.4	1446.0	1444.4	1441.4	1439.7	1437.9	1435.1	1434.5
12.5°	1431.6	1428.7	1423.5	1421.2	1420.0	1416.5	1411.9	1409.6	1409.0	1406.6	1404.9
15°	1402.0	1395.7	1391.0	1388.1	1388.1	1382.3	1380.0	1376.5	1374.2	1372.5	1371.9
17.5°	1363.7	1357.4	1352.8	1348.7	1347.5	1342.9	1339.4	1338.2	1335.4	1336.5	1333.6
20°	1314.4	1309.3	1305.8	1300.5	1300.5	1297.7	1296.5	1293.6	1292.4	1291.2	1292.4
22.5°	1261.7	1255.3	1249.5	1249.0	1249.0	1244.9	1244.3	1243.7	1241.4	1243.2	1242.6
25°	1199.7	1195.0	1191.5	1190.9	1190.9	1188.6	1186.3	1187.4	1189.2	1188.6	1190.4
27.5°	1135.3	1130.6	1129.5	1128.9	1127.8	1127.2	1128.3	1128.3	1130.1	1132.4	1134.7
30°	1065.7	1064.6	1062.9	1062.2	1061.1	1064.0	1065.2	1066.9	1066.3	1069.8	1072.1
32.5°	996.2	993.8	993.2	994.4	996.2	995.5	999.0	1000.2	1001.3	1005.4	1007.1
35°	926.0	925.4	924.2	924.2	924.8	929.5	929.5	933.6	935.9	937.0	941.7
37.5°	850.6	853.0	854.1	855.8	856.4	858.1	859.3	863.4	865.7	868.0	870.3
40°	781.6	780.5	785.6	782.1	783.3	788.6	790.9	790.3	793.7	797.3	799.6
42.5°	708.0	709.7	710.9	712.1	714.9	715.5	718.4	722.5	723.6	727.7	728.8
45°	636.6	637.2	639.6	641.9	643.6	648.2	649.4	651.1	654.6	654.6	656.3
47.5°	569.4	571.7	571.7	575.2	578.1	577.5	581.6	582.8	582.1	585.1	586.2
50°	505.0	508.5	507.9	510.3	511.4	511.9	515.4	516.6	514.3	517.2	517.7
52.5°	443.6	445.3	447.7	448.2	447.0	450.0	448.8	451.1	450.5	452.8	450.5
55°	387.3	386.7	386.7	387.9	386.7	387.9	389.1	386.7	385.0	387.3	386.7
57.5°	331.1	331.1	329.9	331.6	329.9	328.2	327.6	325.8	324.1	324.1	323.5
60°	278.3	277.2	274.8	274.3	274.3	271.4	270.2	267.9	267.9	265.6	263.2
62.5°	229.0	226.1	224.4	224.4	223.2	220.3	215.1	211.6	210.5	207.0	206.4
65°	182.6	179.8	178.0	174.5	171.7	170.5	165.2	161.2	159.4	156.0	156.6
67.5°	140.4	135.7	130.5	128.1	126.4	122.3	120.6	117.7	115.9	115.9	115.9
70°	100.9	96.8	91.6	89.9	88.7	85.3	83.5	82.9	84.6	84.1	84.6
72.5°	67.9	63.8	61.4	60.3	59.1	57.4	58.6	59.1	58.0	58.6	59.1
75°	41.2	40.0	38.3	37.7	37.7	38.3	37.7	37.7	38.3	38.3	38.9
77.5°	23.8	22.7	22.7	22.0	23.2	22.7	22.7	22.7	23.2	23.2	23.2
80°	12.8	12.8	12.8	12.8	13.4	12.8	13.4	13.4	13.4	13.4	13.4
82.5°	6.4	6.4	6.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	6.4
85°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	0.6	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
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: P858045

CATALOG NUMBER: LX4C40D010 EX4C409850 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6
2.5°	1497.1	1497.1	1497.1	1496.0	1496.5	1496.5	1496.0	1496.0
5°	1480.9	1480.3	1479.1	1479.1	1478.0	1479.1	1478.6	1479.1
7.5°	1458.9	1458.9	1457.1	1457.1	1456.5	1455.9	1455.3	1455.9
10°	1432.8	1432.8	1431.6	1431.0	1431.6	1429.3	1429.3	1428.7
12.5°	1403.8	1402.6	1401.5	1402.0	1401.5	1399.7	1399.1	1399.7
15°	1370.2	1368.4	1369.0	1367.2	1367.2	1366.7	1367.8	1367.8
17.5°	1333.1	1331.9	1330.7	1331.3	1330.1	1330.7	1330.1	1329.6
20°	1291.9	1291.2	1291.2	1288.9	1289.5	1288.9	1289.5	1291.2
22.5°	1244.3	1243.7	1244.3	1242.6	1243.7	1243.7	1245.5	1245.5
25°	1192.2	1191.5	1192.7	1193.3	1193.9	1195.6	1193.9	1194.5
27.5°	1134.1	1135.9	1137.6	1138.2	1140.5	1138.8	1137.6	1139.4
30°	1075.6	1075.6	1075.0	1077.3	1079.1	1080.8	1077.9	1077.9
32.5°	1008.3	1011.2	1011.2	1011.8	1013.6	1013.6	1013.6	1015.9
35°	944.0	945.7	946.3	944.0	945.2	944.5	948.6	948.6
37.5°	872.0	872.0	872.7	876.7	876.7	875.0	876.1	876.1
40°	803.6	804.3	801.9	803.1	806.0	804.8	806.0	807.1
42.5°	728.8	732.9	730.6	731.8	731.1	731.8	732.3	732.3
45°	657.5	658.6	658.6	659.3	660.4	661.6	658.1	657.5
47.5°	587.9	588.5	590.2	587.4	590.9	587.4	590.9	586.8
50°	517.7	520.1	518.4	519.5	517.7	517.7	517.2	516.6
52.5°	451.1	450.5	450.5	450.0	450.0	451.1	450.0	451.7
55°	384.4	385.0	383.8	383.3	382.6	384.4	382.6	381.5
57.5°	321.2	322.4	320.0	321.2	317.2	318.9	319.5	320.0
60°	262.6	260.9	260.9	258.6	258.6	260.3	258.0	258.0
62.5°	203.5	204.7	203.0	205.3	205.3	207.6	206.4	207.6
65°	156.0	156.6	157.1	157.1	157.1	160.6	159.4	157.7
67.5°	117.7	118.2	118.9	118.2	120.0	118.9	118.9	119.4
70°	85.3	85.8	86.4	86.4	85.8	86.4	86.4	86.4
72.5°	59.1	59.7	59.1	59.7	60.3	59.7	59.7	60.3
75°	38.9	38.9	38.3	38.3	38.3	38.3	38.9	38.3
77.5°	22.7	23.2	22.7	23.2	23.2	23.2	23.2	23.2
80°	13.4	13.4	13.4	12.8	13.4	13.4	13.4	12.8
82.5°	7.0	7.0	6.4	6.4	7.0	7.0	7.0	7.0
85°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)