

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: P858019

Luminaire Tested: **LX4C40D010 EX4C409835 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P858019
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 EX4C409835 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

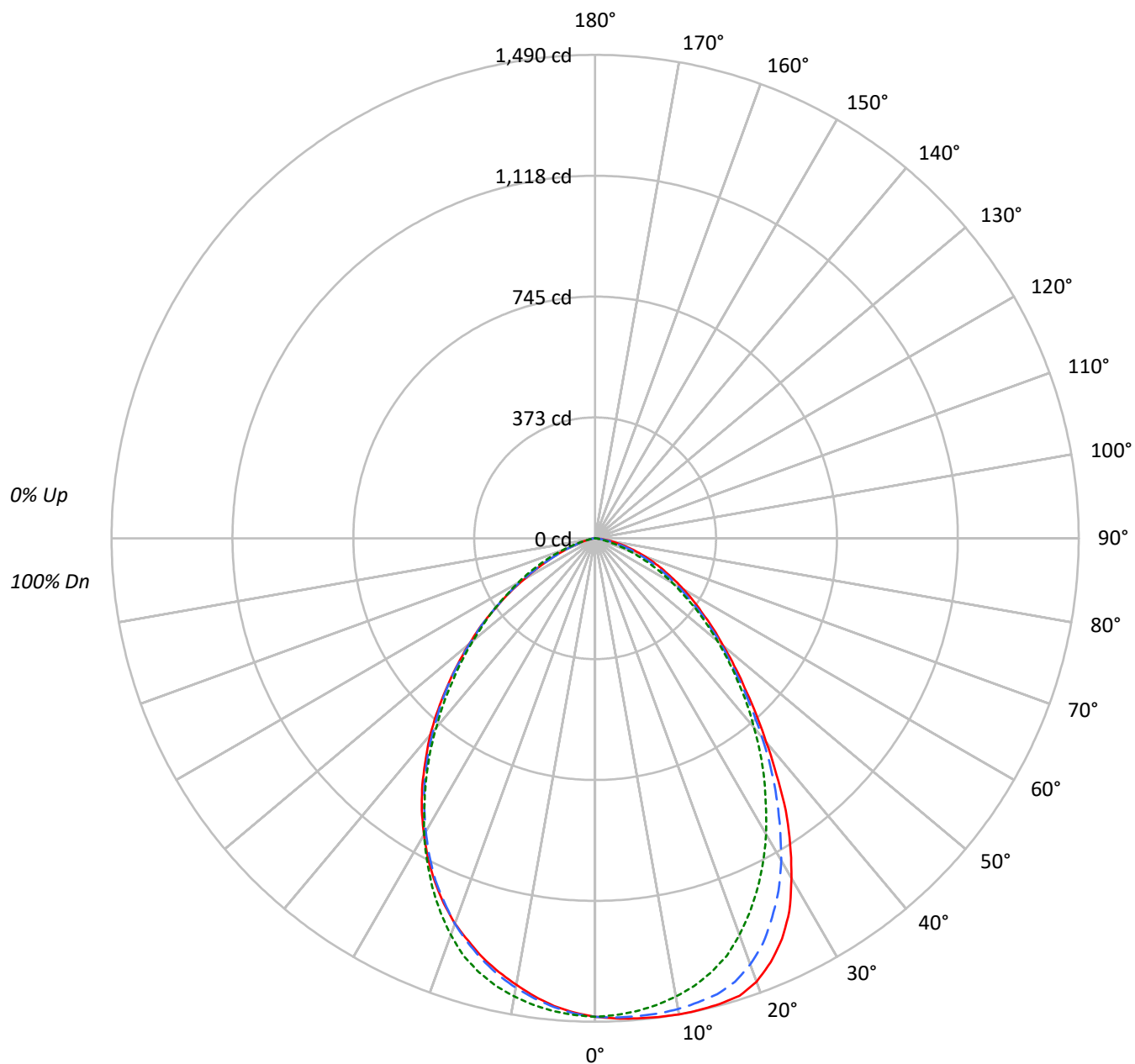
Lumens per Lamp: N/A
Luminaire Lumens: 2779.6 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	49	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°	181197	181197	181197
5°	183208	180421	178460
10°	185900	178902	174361
15°	188949	176053	170189
20°	190158	170064	165161
25°	184706	160862	158395
30°	171649	149505	149604
35°	153651	136299	139178
40°	131555	122173	126631
45°	113244	107719	111768
50°	98449	93786	96595
55°	86639	80685	79957
60°	77078	67324	62041
65°	67616	53924	44854
70°	58083	38111	30352
75°	47135	22072	17800
80°	33676	9622	8844
85°	12827	4088	4088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	5.0
10°-20°	393.5	14.2
20°-30°	561.9	20.2
30°-40°	587.8	21.1
40°-50°	492.5	17.7
50°-60°	344.7	12.4
60°-70°	187.7	6.8
70°-80°	65.1	2.3
80°-90°	7.5	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°	1094.3	39.4
0°-40°	1682.1	60.5
0°-60°	2519.3	90.6
0°-90°	2779.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2779.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1475	1475	1475	1475	1475	
5°	1486	1479	1463	1450	1447	142
15°	1486	1454	1384	1344	1338	420
25°	1363	1290	1187	1164	1168	622
35°	1024	974	909	916	928	635
45°	652	637	620	640	643	507
55°	404	391	377	377	373	365
65°	233	212	186	156	154	232
75°	99	80	46	38	38	107
85°	9	5	3	3	3	16
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°	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9
2.5°	1481.7	1480.0	1480.6	1480.6	1480.6	1480.0	1480.6	1480.0	1480.0	1479.4	1478.3
5°	1485.6	1484.6	1484.6	1484.6	1483.9	1483.4	1483.4	1482.9	1481.7	1481.2	1478.9
7.5°	1488.5	1487.4	1487.4	1486.8	1486.3	1485.6	1485.1	1483.4	1481.7	1480.6	1477.7
10°	1490.2	1488.5	1488.5	1487.4	1486.3	1485.6	1484.6	1482.3	1480.0	1477.2	1473.2
12.5°	1489.1	1487.4	1486.8	1485.6	1483.4	1482.3	1481.2	1478.3	1474.3	1470.4	1465.2
15°	1485.6	1484.6	1483.4	1481.7	1478.9	1477.2	1476.0	1471.5	1466.4	1460.8	1454.5
17.5°	1478.9	1477.2	1474.9	1472.6	1468.7	1467.0	1464.2	1458.4	1451.0	1443.1	1433.5
20°	1454.5	1453.4	1451.0	1447.1	1440.9	1438.6	1434.6	1427.2	1417.6	1408.0	1397.7
22.5°	1414.2	1412.5	1409.1	1405.7	1400.0	1396.0	1392.6	1382.5	1371.7	1361.4	1351.8
25°	1362.6	1360.9	1356.3	1351.8	1346.2	1339.3	1335.9	1328.0	1317.2	1304.2	1290.0
27.5°	1296.2	1290.5	1288.8	1283.8	1275.2	1273.0	1267.9	1257.6	1247.5	1236.0	1224.2
30°	1210.0	1210.0	1206.6	1204.3	1196.4	1194.1	1188.4	1177.6	1172.0	1156.1	1147.0
32.5°	1118.7	1117.5	1114.7	1113.0	1108.4	1104.5	1098.8	1093.1	1080.6	1072.7	1060.2
35°	1024.5	1017.7	1018.8	1015.4	1012.6	1008.0	1007.5	1001.2	989.9	985.4	974.0
37.5°	917.2	914.5	918.4	913.3	910.5	911.0	906.5	902.5	898.0	890.0	887.8
40°	820.3	822.5	822.0	817.5	819.7	816.8	812.3	808.4	806.1	801.0	799.3
42.5°	733.5	730.1	728.9	728.9	729.5	729.5	727.2	724.4	724.4	719.3	714.2
45°	651.8	651.8	650.6	654.1	648.9	648.9	647.2	646.7	644.5	643.3	637.1
47.5°	581.4	580.9	580.3	579.7	579.2	579.2	575.8	572.9	572.4	568.9	565.5
50°	515.1	518.5	517.4	514.5	513.4	513.9	511.7	510.0	509.5	503.7	504.3
52.5°	459.5	458.9	460.0	458.4	455.5	456.1	453.8	451.6	449.3	446.4	444.2
55°	404.5	407.3	406.2	404.5	403.9	402.8	401.0	398.3	397.6	391.4	390.9
57.5°	358.5	357.9	356.8	353.9	353.4	351.7	351.7	349.5	346.0	342.6	339.8
60°	313.7	313.7	312.0	311.4	309.2	308.6	308.0	305.8	301.8	298.9	294.5
62.5°	270.6	271.7	270.6	268.9	267.2	264.9	263.8	262.1	258.7	255.8	251.8
65°	232.6	232.0	231.4	229.2	228.6	226.3	225.8	222.4	218.9	216.7	212.1
67.5°	196.3	194.6	194.6	193.4	192.3	190.6	189.5	186.1	182.1	179.9	175.3
70°	161.7	160.5	160.5	160.5	157.7	156.0	155.4	153.7	148.0	145.8	141.3
72.5°	129.9	129.3	128.8	127.1	125.4	125.4	123.1	119.7	116.8	114.1	110.6
75°	99.3	100.4	99.3	97.0	96.4	95.3	93.6	90.8	87.9	84.5	80.5
77.5°	72.6	71.5	70.4	70.4	69.2	67.0	66.3	64.1	60.7	58.4	54.5
80°	47.6	47.1	45.9	44.9	44.2	43.7	43.1	40.8	37.5	35.8	32.4
82.5°	26.1	25.5	25.5	25.0	23.3	23.3	22.7	20.4	18.7	17.6	15.9
85°	9.1	9.1	9.1	8.5	8.5	8.5	7.9	7.4	6.8	6.2	5.1
87.5°	1.2	0.5	1.2	0.5	1.2	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9
2.5°	1477.2	1476.0	1475.5	1474.9	1474.3	1473.8	1473.2	1472.1	1471.5	1470.9	1469.8
5°	1477.2	1474.9	1473.8	1472.1	1470.9	1469.8	1468.1	1466.4	1464.7	1463.0	1461.3
7.5°	1474.9	1471.5	1469.2	1465.8	1464.7	1463.0	1459.6	1457.3	1454.5	1451.0	1447.1
10°	1469.2	1465.2	1460.8	1456.2	1454.5	1451.7	1447.1	1443.1	1438.6	1434.1	1430.1
12.5°	1460.1	1453.9	1448.3	1442.0	1438.6	1435.8	1429.6	1423.8	1418.1	1413.1	1406.3
15°	1446.5	1439.2	1431.8	1423.3	1419.3	1415.9	1406.8	1400.0	1390.9	1384.2	1377.3
17.5°	1424.4	1413.1	1404.0	1393.3	1387.6	1383.5	1375.6	1364.8	1356.3	1348.9	1341.0
20°	1386.4	1375.6	1363.1	1351.3	1345.0	1339.9	1328.5	1317.2	1308.7	1300.8	1292.2
22.5°	1336.5	1322.9	1313.8	1299.1	1293.9	1287.7	1274.1	1263.9	1254.2	1246.3	1238.4
25°	1275.8	1263.9	1251.4	1237.8	1231.6	1224.2	1212.9	1202.1	1195.8	1186.7	1177.1
27.5°	1206.0	1196.4	1181.0	1169.2	1162.9	1157.2	1146.4	1136.8	1127.7	1121.5	1112.4
30°	1132.2	1120.9	1107.3	1094.8	1091.4	1084.6	1075.0	1067.6	1058.0	1053.9	1050.0
32.5°	1051.2	1038.1	1027.9	1020.0	1013.1	1007.5	1002.4	990.5	988.8	978.5	977.4
35°	962.6	957.0	947.3	940.5	934.9	930.9	922.4	916.7	910.5	908.8	904.8
37.5°	879.3	872.5	863.4	857.1	853.2	852.6	846.4	843.0	838.4	836.2	831.6
40°	791.9	789.1	781.2	780.0	773.8	773.2	769.8	765.8	761.8	761.8	762.4
42.5°	711.3	708.0	704.6	700.6	697.2	697.2	695.5	694.3	693.2	691.5	694.3
45°	635.9	631.4	629.1	625.1	626.8	623.4	622.3	622.3	620.6	620.0	624.0
47.5°	565.5	560.5	558.2	557.1	557.1	557.6	552.5	554.2	553.7	554.8	556.5
50°	501.4	497.0	493.5	493.5	494.1	491.8	489.6	491.3	489.6	490.7	494.6
52.5°	441.9	437.4	435.7	435.7	432.2	431.7	432.9	430.5	431.2	431.7	433.9
55°	386.8	384.1	381.2	378.4	378.9	377.8	375.5	375.0	376.1	376.7	379.5
57.5°	337.5	333.5	329.6	328.4	327.4	327.4	324.5	323.9	325.0	322.2	322.2
60°	290.4	288.2	283.0	281.3	281.3	278.5	276.3	277.4	274.6	274.0	274.6
62.5°	246.7	245.1	241.7	238.3	237.1	236.0	233.2	232.0	230.9	228.6	225.2
65°	208.8	204.7	200.8	198.5	196.8	194.0	192.3	190.0	186.6	185.5	182.1
67.5°	170.8	166.8	162.8	161.1	159.4	157.7	154.9	152.0	148.0	143.5	139.6
70°	137.2	132.2	129.9	125.4	124.2	122.0	118.0	115.1	111.2	106.1	102.1
72.5°	105.0	101.6	98.2	94.2	91.3	89.6	86.2	81.7	77.1	74.3	70.4
75°	75.4	73.7	69.2	64.7	63.5	61.3	57.2	54.5	51.1	46.5	43.1
77.5°	51.1	47.6	44.9	40.8	39.7	37.5	35.1	32.4	30.1	27.2	25.0
80°	30.1	27.2	25.5	22.7	21.6	20.4	18.7	16.4	14.7	13.6	13.0
82.5°	14.7	12.5	11.9	10.3	9.6	9.1	7.9	7.4	6.2	6.2	6.2
85°	5.1	4.0	4.0	3.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.2	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9
2.5°	1469.2	1468.7	1468.1	1467.5	1467.5	1467.0	1467.0	1466.4	1466.4	1465.8	1465.8
5°	1459.0	1457.3	1456.2	1455.1	1455.1	1453.4	1452.2	1451.0	1450.5	1450.5	1449.3
7.5°	1444.8	1442.6	1440.3	1438.6	1438.0	1435.2	1432.9	1432.9	1430.6	1429.6	1428.4
10°	1426.1	1422.1	1418.8	1417.1	1414.7	1413.1	1410.2	1408.5	1406.8	1404.0	1403.4
12.5°	1400.6	1397.7	1392.6	1390.4	1389.2	1385.9	1381.3	1379.0	1378.5	1376.2	1374.5
15°	1371.7	1365.4	1360.9	1358.0	1358.0	1352.4	1350.1	1346.7	1344.4	1342.7	1342.2
17.5°	1334.2	1328.0	1323.4	1319.5	1318.4	1313.8	1310.4	1309.3	1306.4	1307.6	1304.7
20°	1286.0	1280.9	1277.5	1272.4	1272.4	1269.6	1268.4	1265.6	1264.4	1263.3	1264.4
22.5°	1234.3	1228.1	1222.5	1221.9	1221.9	1217.9	1217.3	1216.8	1214.6	1216.2	1215.6
25°	1173.7	1169.2	1165.8	1165.1	1165.1	1162.9	1160.6	1161.8	1163.5	1162.9	1164.6
27.5°	1110.8	1106.2	1105.0	1104.5	1103.4	1102.8	1103.9	1103.9	1105.6	1107.9	1110.1
30°	1042.6	1041.5	1039.8	1039.2	1038.1	1040.9	1042.1	1043.8	1043.2	1046.6	1048.9
32.5°	974.6	972.3	971.7	972.9	974.6	974.0	977.4	978.5	979.7	983.7	985.4
35°	905.9	905.4	904.2	904.2	904.8	909.3	909.3	913.3	915.6	916.7	921.3
37.5°	832.2	834.5	835.6	837.3	837.9	839.6	840.7	844.7	847.0	849.2	851.4
40°	764.7	763.5	768.7	765.2	766.4	771.4	773.8	773.2	776.6	780.0	782.2
42.5°	692.6	694.3	695.5	696.6	699.5	700.0	702.9	706.8	708.0	712.0	713.0
45°	622.9	623.4	625.7	628.0	629.7	634.2	635.4	637.1	640.4	640.4	642.1
47.5°	557.1	559.3	559.3	562.7	565.5	565.0	568.9	570.1	569.6	572.4	573.5
50°	494.1	497.5	497.0	499.2	500.4	500.9	504.3	505.4	503.2	506.0	506.6
52.5°	433.9	435.7	437.9	438.5	437.4	440.2	439.1	441.3	440.8	443.0	440.8
55°	378.9	378.4	378.4	379.5	378.4	379.5	380.6	378.4	376.7	378.9	378.4
57.5°	323.9	323.9	322.8	324.5	322.8	321.1	320.5	318.8	317.1	317.1	316.6
60°	272.2	271.2	268.9	268.3	268.3	265.5	264.3	262.1	262.1	259.9	257.5
62.5°	224.1	221.2	219.5	219.5	218.4	215.5	210.5	207.1	205.9	202.5	202.0
65°	178.7	175.9	174.2	170.8	167.9	166.8	161.7	157.7	156.0	152.6	153.2
67.5°	137.2	132.8	127.6	125.4	123.7	119.7	118.0	115.1	113.4	113.4	113.4
70°	98.7	94.7	89.6	87.9	86.8	83.4	81.7	81.1	82.8	82.2	82.8
72.5°	66.3	62.4	60.1	59.0	57.9	56.2	57.2	57.9	56.7	57.2	57.9
75°	40.3	39.1	37.5	36.8	36.8	37.5	36.8	36.8	37.5	37.5	38.0
77.5°	23.3	22.1	22.1	21.6	22.7	22.1	22.1	22.1	22.7	22.7	22.7
80°	12.5	12.5	12.5	12.5	13.0	12.5	13.0	13.0	13.0	13.0	13.0
82.5°	6.2	6.2	6.2	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.2
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°	0.5	1.2	1.2	1.2	1.2	1.2	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: P858019

CATALOG NUMBER: LX4C40D010 EX4C409835 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9	1474.9
2.5°	1464.7	1464.7	1464.7	1463.5	1464.2	1464.2	1463.5	1463.5
5°	1448.8	1448.3	1447.1	1447.1	1446.0	1447.1	1446.5	1447.1
7.5°	1427.2	1427.2	1425.5	1425.5	1425.0	1424.4	1423.8	1424.4
10°	1401.7	1401.7	1400.6	1400.0	1400.6	1398.3	1398.3	1397.7
12.5°	1373.4	1372.2	1371.1	1371.7	1371.1	1369.4	1368.8	1369.4
15°	1340.5	1338.8	1339.3	1337.6	1337.6	1337.1	1338.1	1338.1
17.5°	1304.2	1303.0	1301.9	1302.5	1301.3	1301.9	1301.3	1300.8
20°	1263.9	1263.3	1263.3	1261.0	1261.6	1261.0	1261.6	1263.3
22.5°	1217.3	1216.8	1217.3	1215.6	1216.8	1216.8	1218.5	1218.5
25°	1166.3	1165.8	1166.8	1167.5	1168.0	1169.7	1168.0	1168.5
27.5°	1109.6	1111.3	1113.0	1113.5	1115.8	1114.1	1113.0	1114.7
30°	1052.3	1052.3	1051.7	1053.9	1055.7	1057.4	1054.6	1054.6
32.5°	986.4	989.3	989.3	989.9	991.6	991.6	991.6	993.8
35°	923.5	925.2	925.8	923.5	924.6	924.1	928.0	928.0
37.5°	853.2	853.2	853.8	857.7	857.7	856.0	857.1	857.1
40°	786.2	786.8	784.6	785.6	788.5	787.4	788.5	789.6
42.5°	713.0	717.0	714.7	715.9	715.4	715.9	716.4	716.4
45°	643.3	644.5	644.5	645.0	646.2	647.2	643.8	643.3
47.5°	575.2	575.8	577.5	574.6	578.0	574.6	578.0	574.1
50°	506.6	508.8	507.1	508.3	506.6	506.6	506.0	505.4
52.5°	441.3	440.8	440.8	440.2	440.2	441.3	440.2	441.9
55°	376.1	376.7	375.5	375.0	374.4	376.1	374.4	373.3
57.5°	314.2	315.4	313.1	314.2	310.3	312.0	312.6	313.1
60°	257.0	255.3	255.3	253.0	253.0	254.7	252.5	252.5
62.5°	199.1	200.3	198.5	200.8	200.8	203.0	202.0	203.0
65°	152.6	153.2	153.7	153.7	153.7	157.1	156.0	154.3
67.5°	115.1	115.7	116.3	115.7	117.4	116.3	116.3	116.8
70°	83.4	83.9	84.5	84.5	83.9	84.5	84.5	84.5
72.5°	57.9	58.4	57.9	58.4	59.0	58.4	58.4	59.0
75°	38.0	38.0	37.5	37.5	37.5	37.5	38.0	37.5
77.5°	22.1	22.7	22.1	22.7	22.7	22.7	22.7	22.7
80°	13.0	13.0	13.0	12.5	13.0	13.0	13.0	12.5
82.5°	6.8	6.8	6.2	6.2	6.8	6.8	6.8	6.8
85°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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)