

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: P857797

Luminaire Tested: **LX4C35D010 EX4C359050 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C35D010 EX4C359050 4LBLWW*
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

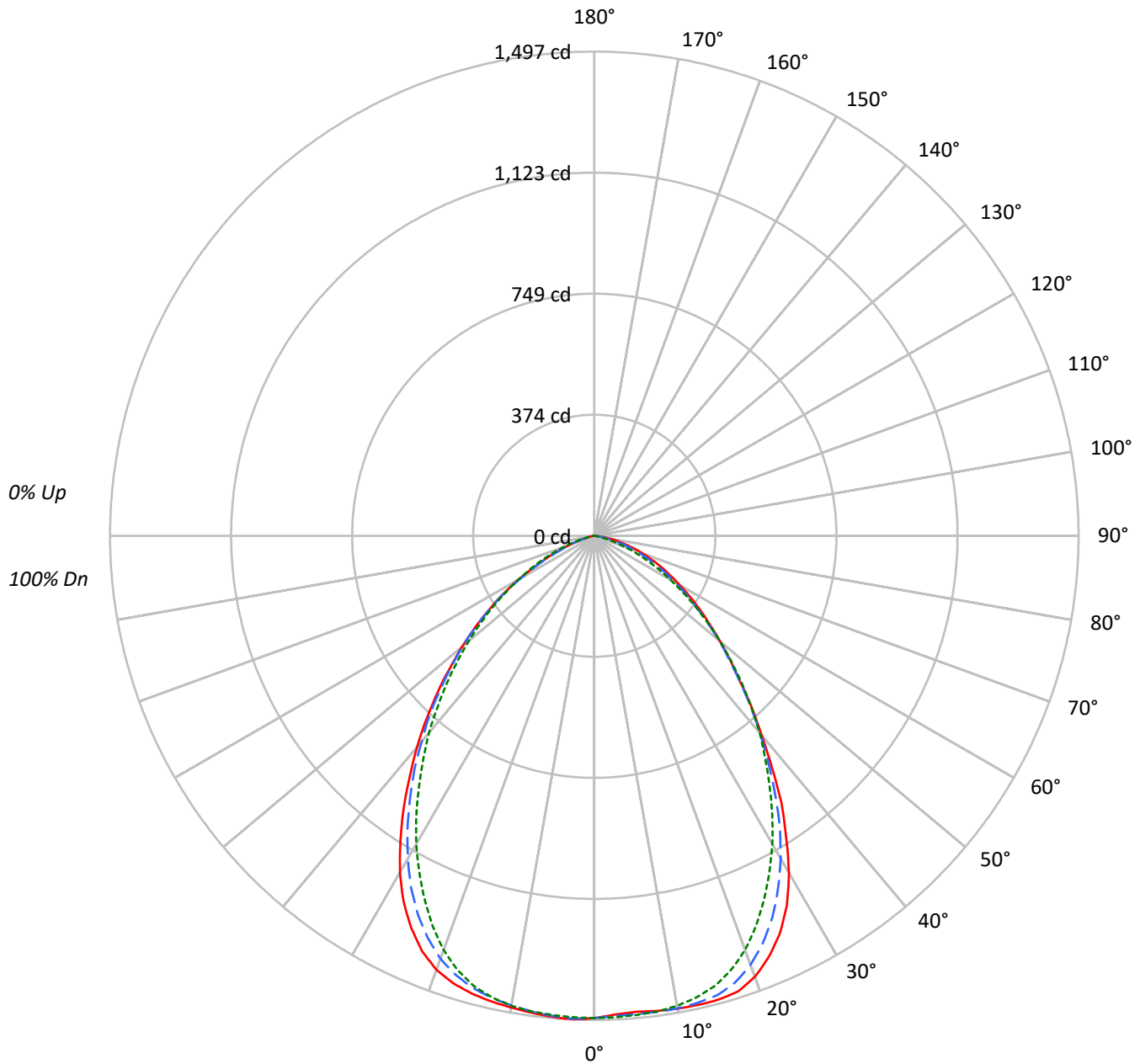
Lumens per Lamp: N/A
Luminaire Lumens: 2859.0 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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: P857797

CATALOG NUMBER: LX4C35D010 EX4C359050 4LBLWW*

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	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78		
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54		
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48		
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43		
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39		
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36		
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	183199	183199	183199
5°	182185	183418	184109
10°	185189	184079	184778
15°	188810	183264	186317
20°	189766	178130	186615
25°	183933	168209	181425
30°	170713	156102	170401
35°	151176	141593	154026
40°	128876	127529	136590
45°	110725	111976	118995
50°	96652	96863	102004
55°	85397	81799	84562
60°	74842	66734	66464
65°	66250	51773	46075
70°	56538	35597	27371
75°	45711	19129	12484
80°	31271	4740	3184
85°	9444	1551	1551



TEST NUMBER: P857797

CATALOG NUMBER: LX4C35D010 EX4C359050 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	5.0
10°-20°	410.3	14.4
20°-30°	592.8	20.7
30°-40°	612.9	21.4
40°-50°	506.4	17.7
50°-60°	349.5	12.2
60°-70°	183.0	6.4
70°-80°	57.6	2.0
80°-90°	4.9	0.2
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°	1144.8	40.0
0°-40°	1757.7	61.5
0°-60°	2613.6	91.4
0°-90°	2859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2859.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1491	1491	1491	1491	1491	
5°	1477	1484	1487	1490	1493	141
15°	1484	1470	1441	1448	1465	419
25°	1357	1302	1241	1291	1338	620
35°	1008	974	944	993	1027	626
45°	637	634	644	674	685	497
55°	399	386	382	393	395	358
65°	228	207	178	148	158	226
75°	96	76	40	27	26	103
85°	7	3	1	1	1	14
90°	0	0	0	0	0	



TEST NUMBER: P857797

CATALOG NUMBER: LX4C35D010 EX4C359050 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2
2.5°	1481.7	1482.3	1482.3	1483.4	1483.4	1483.4	1484.0	1484.0	1484.5	1485.1	1485.7
5°	1477.3	1477.3	1478.4	1478.9	1480.1	1480.6	1481.7	1482.3	1483.4	1484.0	1484.5
7.5°	1481.7	1481.7	1482.3	1482.9	1482.9	1483.4	1483.4	1484.0	1484.5	1485.1	1485.1
10°	1484.5	1484.5	1484.5	1484.5	1485.1	1485.1	1485.1	1484.5	1484.5	1484.5	1484.0
12.5°	1485.7	1485.7	1485.1	1484.5	1485.1	1484.5	1484.5	1482.9	1481.7	1480.6	1478.9
15°	1484.5	1484.5	1484.0	1483.4	1482.9	1481.7	1481.2	1478.4	1476.1	1472.8	1470.5
17.5°	1477.3	1476.1	1475.0	1473.9	1471.7	1470.0	1468.9	1463.8	1459.9	1454.3	1448.1
20°	1451.5	1450.4	1448.7	1445.9	1443.1	1440.9	1437.5	1430.2	1426.3	1417.9	1411.7
22.5°	1409.5	1408.4	1408.9	1403.9	1398.3	1394.9	1392.7	1386.5	1379.8	1369.2	1362.5
25°	1356.9	1353.5	1353.5	1345.7	1342.9	1340.6	1337.8	1330.5	1320.5	1310.9	1302.0
27.5°	1288.5	1284.1	1281.8	1280.7	1274.0	1268.9	1265.0	1259.4	1251.0	1242.6	1230.3
30°	1203.4	1202.9	1200.1	1195.0	1190.0	1187.7	1183.3	1173.7	1165.9	1159.7	1151.9
32.5°	1103.2	1102.6	1102.6	1102.6	1099.3	1098.7	1092.0	1086.9	1080.8	1071.3	1066.2
35°	1008.0	1007.4	1008.0	999.6	997.3	995.7	995.1	991.7	983.3	978.9	974.4
37.5°	900.5	902.1	901.0	898.8	901.6	896.5	900.5	893.2	889.8	888.7	883.7
40°	803.6	808.1	803.6	804.1	806.9	801.9	801.9	800.8	798.5	797.4	796.3
42.5°	720.7	715.1	718.5	715.7	718.5	716.8	714.0	715.7	716.2	714.0	713.4
45°	637.3	638.4	639.5	637.8	637.8	636.1	640.6	637.8	637.8	638.4	634.5
47.5°	569.5	567.8	568.9	567.8	568.4	567.3	568.4	568.9	567.8	567.8	564.5
50°	505.7	504.5	508.5	505.1	505.1	504.5	505.1	504.0	502.3	502.3	503.4
52.5°	450.2	448.0	447.4	450.2	446.3	446.3	446.9	445.8	443.5	442.4	439.6
55°	398.7	398.2	398.7	396.5	395.4	395.4	392.6	391.4	390.9	388.1	386.4
57.5°	350.6	348.9	349.4	348.9	346.6	346.1	343.8	343.8	341.6	339.4	336.6
60°	304.6	304.6	306.3	304.1	302.4	301.3	300.2	299.0	295.1	291.2	287.8
62.5°	263.8	264.3	263.8	262.1	261.0	259.8	258.7	255.4	252.0	249.8	245.8
65°	227.9	227.4	225.7	224.6	221.8	221.8	219.5	217.8	213.9	210.6	206.6
67.5°	191.0	189.8	189.8	189.8	186.5	185.9	184.8	181.4	178.1	173.6	170.2
70°	157.4	158.5	156.8	155.1	153.4	152.9	151.2	147.8	143.9	139.4	136.6
72.5°	125.4	126.6	124.9	124.3	121.0	119.8	119.3	116.5	112.0	109.2	104.7
75°	96.3	96.9	95.8	94.6	92.4	91.8	89.0	86.8	84.0	79.5	75.6
77.5°	69.4	68.3	68.3	66.1	63.8	63.8	63.3	59.9	56.0	52.6	49.3
80°	44.2	43.7	42.0	40.9	39.2	38.6	38.1	35.3	32.5	30.2	28.0
82.5°	22.4	21.8	21.3	20.7	19.6	18.5	19.0	16.8	15.7	13.4	11.8
85°	6.7	7.3	7.3	6.7	6.2	6.2	6.2	5.6	4.5	3.9	3.4
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: P857797

CATALOG NUMBER: LX4C35D010 EX4C359050 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2
2.5°	1486.2	1486.8	1487.3	1487.9	1487.9	1488.4	1489.0	1489.6	1490.1	1490.1	1490.7
5°	1485.1	1486.2	1486.2	1486.8	1486.8	1486.8	1487.3	1487.3	1487.3	1487.3	1487.9
7.5°	1485.7	1485.7	1485.7	1485.1	1485.1	1484.5	1484.5	1484.5	1483.4	1483.4	1483.4
10°	1482.9	1482.3	1481.7	1480.6	1480.1	1479.5	1478.4	1477.3	1476.1	1475.6	1474.5
12.5°	1477.3	1475.0	1472.8	1470.5	1469.4	1468.9	1466.6	1464.9	1463.3	1461.6	1460.5
15°	1466.1	1462.7	1458.8	1454.3	1453.2	1452.1	1448.1	1444.8	1442.5	1440.9	1438.1
17.5°	1443.7	1436.9	1432.5	1425.7	1422.9	1421.8	1415.7	1412.3	1408.4	1407.3	1405.0
20°	1403.9	1397.7	1389.3	1383.2	1379.8	1376.5	1371.4	1366.9	1362.5	1362.5	1359.7
22.5°	1354.1	1346.2	1335.6	1327.7	1327.2	1320.5	1316.0	1310.9	1309.3	1305.9	1305.9
25°	1291.3	1284.6	1272.9	1266.1	1262.8	1261.1	1253.8	1247.1	1243.7	1240.9	1243.2
27.5°	1221.9	1211.8	1202.9	1194.5	1191.7	1188.3	1181.6	1178.8	1172.6	1172.1	1171.5
30°	1142.4	1132.3	1123.3	1119.4	1113.8	1111.0	1106.0	1102.6	1100.4	1100.4	1099.3
32.5°	1058.9	1050.0	1045.5	1037.1	1034.3	1030.4	1027.0	1023.7	1024.8	1023.7	1024.2
35°	968.8	966.5	958.1	953.1	953.1	952.5	946.9	944.7	943.6	944.1	946.9
37.5°	883.1	876.4	870.8	867.4	870.2	866.9	866.3	866.3	869.7	867.4	871.9
40°	791.8	791.3	789.0	790.1	790.7	786.8	787.9	788.5	790.7	795.2	795.7
42.5°	712.3	711.7	711.7	711.7	710.6	708.4	710.6	714.5	714.0	717.3	720.1
45°	635.6	634.5	636.7	635.0	638.4	639.5	637.8	638.9	642.3	644.5	649.0
47.5°	565.6	565.6	566.1	567.3	563.9	566.7	567.8	570.1	571.7	572.9	575.1
50°	500.6	500.6	499.5	499.5	499.5	501.2	498.9	501.7	502.3	506.8	509.6
52.5°	440.7	437.9	439.6	438.5	436.2	435.1	436.2	436.8	440.2	441.3	444.6
55°	383.6	383.6	379.1	378.0	379.7	379.1	378.6	378.6	380.2	381.9	384.7
57.5°	333.2	329.8	326.5	325.9	324.2	324.8	324.8	324.2	323.1	323.7	324.2
60°	285.6	283.4	278.3	278.3	277.8	277.2	274.4	273.8	271.0	271.6	269.4
62.5°	241.9	240.8	234.1	231.8	231.8	230.2	227.4	226.8	222.9	222.9	220.6
65°	202.7	199.4	195.4	191.5	191.5	189.3	187.6	182.6	179.8	178.1	174.7
67.5°	166.9	161.8	157.9	154.6	152.3	151.8	147.8	144.5	140.0	137.2	132.2
70°	132.2	128.2	124.3	121.0	118.7	116.5	112.6	107.5	104.2	99.1	95.8
72.5°	99.7	96.3	93.0	88.5	85.7	84.0	80.1	75.6	70.0	66.6	62.2
75°	71.7	67.8	63.3	59.4	57.7	56.0	51.5	48.2	44.2	40.3	35.8
77.5°	46.5	42.0	38.6	34.2	33.6	32.5	28.0	24.6	21.8	19.6	16.8
80°	24.6	22.4	19.6	16.8	15.7	14.0	11.8	10.1	8.4	6.7	5.6
82.5°	10.6	9.0	7.3	6.2	5.6	5.0	3.9	3.4	2.8	2.8	2.2
85°	2.8	2.2	2.2	1.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.0	0.6	0.6	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: P857797

CATALOG NUMBER: LX4C35D010 EX4C359050 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2
2.5°	1491.2	1491.8	1492.4	1492.4	1492.9	1493.5	1493.5	1494.0	1494.6	1495.2	1495.2
5°	1488.4	1488.4	1488.4	1489.0	1489.0	1489.0	1489.0	1490.1	1490.1	1490.7	1491.2
7.5°	1482.9	1482.9	1482.9	1482.9	1482.3	1482.9	1482.3	1482.3	1483.4	1484.0	1484.5
10°	1473.9	1473.3	1473.3	1472.8	1472.8	1472.8	1473.3	1473.9	1474.5	1475.0	1476.7
12.5°	1459.9	1459.3	1459.3	1458.8	1458.8	1459.3	1459.9	1461.0	1463.3	1464.4	1466.6
15°	1437.5	1436.9	1437.5	1438.1	1439.2	1440.9	1442.5	1444.2	1447.6	1450.4	1453.2
17.5°	1405.0	1405.6	1406.1	1407.3	1408.9	1411.2	1415.7	1420.1	1424.1	1428.5	1433.0
20°	1360.2	1362.5	1363.0	1366.9	1368.1	1373.1	1378.1	1384.9	1391.0	1396.6	1402.8
22.5°	1306.5	1308.1	1310.4	1314.9	1317.7	1324.4	1330.5	1338.4	1345.1	1352.4	1361.3
25°	1245.4	1246.0	1252.7	1252.7	1259.4	1265.0	1272.3	1280.7	1290.8	1300.3	1306.5
27.5°	1176.0	1178.8	1183.8	1186.1	1191.1	1200.1	1206.2	1216.3	1226.4	1234.8	1241.5
30°	1103.2	1105.4	1113.8	1114.9	1118.9	1126.7	1135.1	1144.6	1152.5	1162.0	1168.1
32.5°	1026.5	1032.6	1037.7	1041.6	1042.7	1054.5	1058.9	1065.7	1074.6	1084.1	1090.3
35°	952.0	954.8	962.1	964.3	967.7	974.4	983.3	988.9	993.4	999.6	1006.9
37.5°	873.0	881.4	883.1	889.8	890.9	897.1	901.6	908.3	913.9	919.5	920.6
40°	799.7	802.5	808.6	810.3	811.4	819.8	825.4	827.1	829.9	834.9	841.7
42.5°	725.2	728.0	734.7	733.0	738.1	742.0	744.8	751.5	754.3	756.0	756.0
45°	651.8	652.9	657.4	659.7	662.5	664.7	669.7	673.1	674.2	679.3	680.9
47.5°	581.8	582.9	586.3	590.2	589.1	591.9	597.5	599.2	599.7	603.1	604.8
50°	512.9	515.7	520.2	519.1	522.5	524.1	529.2	530.3	530.3	530.9	531.4
52.5°	448.6	450.8	451.9	453.0	454.7	457.5	459.8	458.6	460.9	463.1	461.4
55°	384.7	386.4	389.2	390.3	390.3	390.9	389.8	394.8	392.6	392.0	392.6
57.5°	326.5	324.2	323.7	326.5	327.6	327.0	325.4	327.6	327.6	326.5	324.8
60°	269.9	268.2	267.7	268.2	266.0	264.3	265.4	264.3	261.5	260.4	261.0
62.5°	218.4	216.7	212.2	212.2	211.1	210.6	206.1	206.6	204.4	201.0	202.2
65°	170.8	166.3	164.1	163.5	159.6	156.2	155.1	151.2	147.8	147.3	147.8
67.5°	128.2	123.2	119.3	117.6	115.4	112.6	108.6	105.3	106.4	105.8	108.1
70°	89.0	85.7	81.8	79.0	80.1	76.7	74.5	74.5	75.0	75.6	76.7
72.5°	59.4	54.9	53.2	51.5	50.4	48.2	49.3	49.3	48.7	49.3	48.2
75°	33.6	31.4	29.7	29.1	28.0	28.0	28.0	28.0	27.4	26.9	26.9
77.5°	15.1	14.0	13.4	12.9	12.9	12.9	12.3	11.8	11.8	11.8	11.2
80°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
82.5°	2.2	2.2	2.8	2.8	2.8	2.2	2.8	2.8	2.2	2.2	2.8
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.6	0.6	0.6	0.0	0.6	0.6	0.6	0.6	0.0	0.6	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: P857797

CATALOG NUMBER: LX4C35D010 EX4C359050 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2	1491.2
2.5°	1495.7	1496.3	1496.3	1496.3	1496.8	1496.8	1496.8	1496.8
5°	1491.8	1492.4	1492.4	1492.4	1492.9	1492.9	1492.9	1492.9
7.5°	1485.1	1485.7	1485.7	1486.2	1486.2	1486.8	1486.8	1487.3
10°	1477.3	1478.4	1478.9	1479.5	1480.1	1480.6	1480.6	1481.2
12.5°	1468.9	1470.0	1470.5	1471.7	1472.8	1473.3	1473.9	1474.5
15°	1456.5	1458.8	1459.9	1460.5	1462.7	1463.8	1464.4	1464.9
17.5°	1436.9	1441.4	1443.1	1444.2	1446.5	1448.7	1450.4	1450.9
20°	1408.9	1414.0	1416.2	1419.0	1422.4	1425.2	1426.3	1427.4
22.5°	1369.7	1375.3	1378.7	1382.1	1384.9	1387.7	1392.1	1390.5
25°	1313.7	1323.3	1327.2	1328.9	1335.0	1338.4	1340.6	1338.4
27.5°	1251.0	1256.6	1260.0	1263.9	1268.4	1271.7	1272.9	1276.2
30°	1175.4	1184.9	1184.4	1188.3	1193.9	1197.3	1198.4	1201.2
32.5°	1097.0	1101.5	1104.9	1104.3	1106.5	1112.7	1110.5	1115.5
35°	1013.6	1014.1	1019.7	1019.2	1023.7	1023.7	1023.7	1027.0
37.5°	924.5	931.3	928.5	935.2	932.9	934.6	934.6	935.7
40°	843.3	845.6	845.6	847.8	849.5	847.8	848.9	851.7
42.5°	759.3	761.6	762.1	761.0	762.7	767.7	763.8	767.2
45°	680.9	682.6	684.9	683.2	686.0	684.3	686.0	684.9
47.5°	607.0	606.5	605.9	610.4	606.5	607.0	609.3	605.3
50°	531.4	534.8	532.5	534.2	535.3	535.3	533.7	533.7
52.5°	464.2	463.7	462.0	463.7	462.6	463.1	464.2	463.1
55°	394.8	397.0	395.9	395.4	395.9	395.9	399.3	394.8
57.5°	326.5	325.4	327.0	331.0	327.0	329.8	331.5	332.1
60°	261.5	261.5	264.9	263.2	266.6	269.4	271.6	270.5
62.5°	199.4	202.2	203.3	203.8	207.2	209.4	209.4	208.9
65°	147.8	151.8	151.8	154.0	155.1	155.1	156.2	158.5
67.5°	109.2	109.2	109.8	110.9	110.3	110.3	111.4	112.0
70°	76.2	75.0	76.7	76.2	76.2	75.6	76.2	76.2
72.5°	48.2	48.2	48.7	48.2	47.0	47.6	47.6	48.7
75°	25.8	26.9	25.8	25.8	26.3	25.2	25.8	26.3
77.5°	10.6	10.6	10.6	10.6	10.6	10.1	10.1	10.1
80°	5.0	5.0	5.0	5.0	5.0	5.0	4.5	4.5
82.5°	2.2	2.8	2.2	2.8	2.2	2.2	2.2	2.2
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.6	0.0	0.6	0.0	0.0	0.0	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)