

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: P857798

Luminaire Tested: **LX4C35D010 EX4C359050 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857798
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: LX4C35D010 EX4C359050 4LBLWWH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

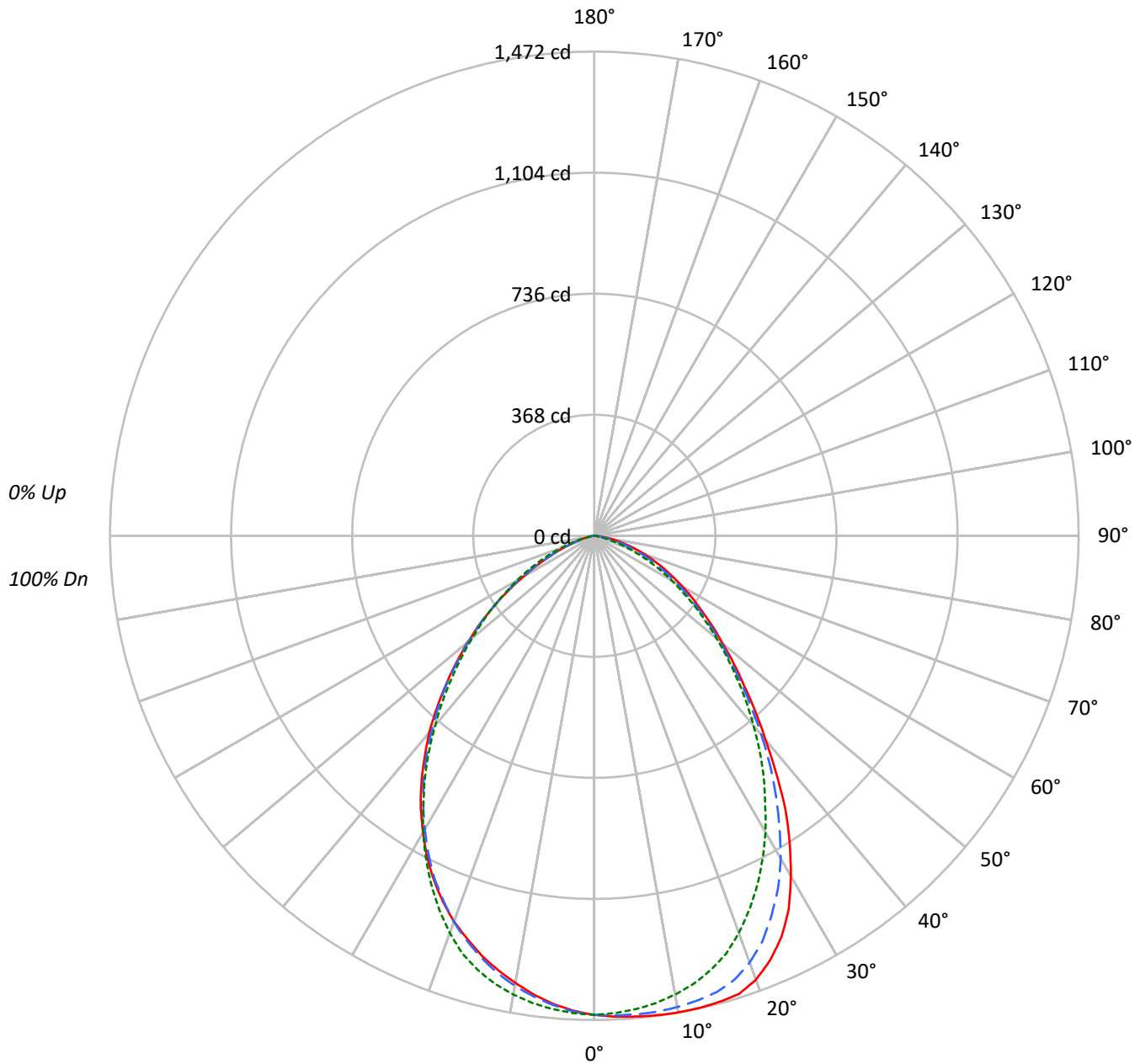
Lumens per Lamp: N/A
Luminaire Lumens: 2745.0 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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

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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°	178948	178948	178948
5°	180939	178177	176241
10°	183593	176669	172203
15°	186609	173852	168091
20°	187792	167946	163109
25°	182401	158869	156429
30°	169507	147661	147732
35°	151746	134604	137453
40°	129919	120665	125060
45°	111837	106382	110378
50°	97226	92620	95410
55°	85547	79678	78950
60°	76120	66488	61255
65°	66773	53256	44302
70°	57364	37644	29993
75°	46518	21787	17563
80°	33323	9480	8702
85°	12686	3947	3947



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	5.0
10°-20°	388.6	14.2
20°-30°	554.9	20.2
30°-40°	580.5	21.1
40°-50°	486.4	17.7
50°-60°	340.4	12.4
60°-70°	185.3	6.8
70°-80°	64.3	2.3
80°-90°	7.4	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°	1080.7	39.4
0°-40°	1661.2	60.5
0°-60°	2487.9	90.6
0°-90°	2745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2745.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1457	1457	1457	1457	1457	
5°	1467	1460	1445	1432	1429	140
15°	1467	1436	1367	1328	1322	414
25°	1346	1274	1172	1149	1154	614
35°	1012	962	898	904	916	627
45°	644	629	612	632	635	501
55°	399	386	372	372	369	361
65°	230	210	183	154	152	229
75°	98	80	46	37	37	106
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°	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6
2.5°	1463.3	1461.6	1462.2	1462.2	1462.2	1461.6	1462.2	1461.6	1461.6	1461.0	1459.9
5°	1467.2	1466.1	1466.1	1466.1	1465.5	1465.0	1465.0	1464.4	1463.3	1462.7	1460.5
7.5°	1470.0	1468.9	1468.9	1468.3	1467.8	1467.2	1466.6	1465.0	1463.3	1462.2	1459.4
10°	1471.7	1470.0	1470.0	1468.9	1467.8	1467.2	1466.1	1463.8	1461.6	1458.8	1454.9
12.5°	1470.6	1468.9	1468.3	1467.2	1465.0	1463.8	1462.7	1459.9	1456.0	1452.1	1447.0
15°	1467.2	1466.1	1465.0	1463.3	1460.5	1458.8	1457.7	1453.2	1448.2	1442.6	1436.4
17.5°	1460.5	1458.8	1456.6	1454.3	1450.4	1448.7	1445.9	1440.3	1433.0	1425.2	1415.7
20°	1436.4	1435.3	1433.0	1429.1	1423.0	1420.7	1416.8	1409.5	1400.0	1390.5	1380.4
22.5°	1396.6	1394.9	1391.6	1388.2	1382.6	1378.7	1375.3	1365.2	1354.6	1344.5	1335.0
25°	1345.6	1344.0	1339.5	1335.0	1329.4	1322.7	1319.3	1311.5	1300.8	1287.9	1273.9
27.5°	1280.1	1274.5	1272.8	1267.8	1259.4	1257.1	1252.1	1242.0	1231.9	1220.7	1208.9
30°	1194.9	1194.9	1191.6	1189.3	1181.5	1179.3	1173.7	1163.0	1157.4	1141.7	1132.8
32.5°	1104.7	1103.6	1100.8	1099.1	1094.7	1090.7	1085.1	1079.5	1067.2	1059.4	1047.0
35°	1011.8	1005.0	1006.1	1002.8	1000.0	995.5	994.9	988.8	977.6	973.1	961.9
37.5°	905.9	903.1	907.0	901.9	899.1	899.7	895.2	891.3	886.8	879.0	876.7
40°	810.1	812.3	811.8	807.3	809.5	806.7	802.2	798.3	796.1	791.0	789.3
42.5°	724.4	721.0	719.9	719.9	720.4	720.4	718.2	715.4	715.4	710.4	705.3
45°	643.7	643.7	642.6	645.9	640.9	640.9	639.2	638.6	636.4	635.3	629.1
47.5°	574.2	573.7	573.1	572.5	572.0	572.0	568.6	565.8	565.3	561.9	558.5
50°	508.7	512.0	510.9	508.1	507.0	507.6	505.3	503.6	503.1	497.5	498.0
52.5°	453.8	453.2	454.3	452.7	449.9	450.4	448.2	445.9	443.7	440.9	438.6
55°	399.4	402.2	401.1	399.4	398.9	397.8	396.1	393.3	392.7	386.5	386.0
57.5°	354.1	353.5	352.4	349.6	349.0	347.3	347.3	345.1	341.7	338.4	335.6
60°	309.8	309.8	308.1	307.6	305.3	304.8	304.2	302.0	298.0	295.2	290.8
62.5°	267.2	268.3	267.2	265.5	263.9	261.6	260.5	258.8	255.5	252.7	248.7
65°	229.7	229.1	228.6	226.3	225.8	223.5	223.0	219.6	216.2	214.0	209.5
67.5°	193.8	192.2	192.2	191.0	189.9	188.2	187.1	183.8	179.8	177.6	173.1
70°	159.7	158.5	158.5	158.5	155.7	154.1	153.5	151.8	146.2	144.0	139.5
72.5°	128.3	127.7	127.2	125.5	123.8	123.8	121.6	118.2	115.4	112.6	109.2
75°	98.0	99.2	98.0	95.8	95.2	94.1	92.4	89.6	86.8	83.5	79.6
77.5°	71.7	70.6	69.5	69.5	68.3	66.1	65.5	63.3	59.9	57.7	53.8
80°	47.1	46.5	45.4	44.3	43.7	43.1	42.6	40.3	37.0	35.3	31.9
82.5°	25.8	25.2	25.2	24.6	23.0	23.0	22.4	20.2	18.5	17.4	15.7
85°	9.0	9.0	9.0	8.4	8.4	8.4	7.8	7.3	6.7	6.2	5.0
87.5°	1.1	0.6	1.1	0.6	1.1	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°	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6
2.5°	1458.8	1457.7	1457.1	1456.6	1456.0	1455.4	1454.9	1453.8	1453.2	1452.6	1451.5
5°	1458.8	1456.6	1455.4	1453.8	1452.6	1451.5	1449.8	1448.2	1446.5	1444.8	1443.1
7.5°	1456.6	1453.2	1451.0	1447.6	1446.5	1444.8	1441.4	1439.2	1436.4	1433.0	1429.1
10°	1451.0	1447.0	1442.6	1438.1	1436.4	1433.6	1429.1	1425.2	1420.7	1416.2	1412.3
12.5°	1442.0	1435.8	1430.2	1424.1	1420.7	1417.9	1411.7	1406.1	1400.5	1395.5	1388.8
15°	1428.6	1421.3	1414.0	1405.6	1401.7	1398.3	1389.3	1382.6	1373.7	1366.9	1360.2
17.5°	1406.7	1395.5	1386.5	1375.9	1370.3	1366.4	1358.5	1347.9	1339.5	1332.2	1324.4
20°	1369.2	1358.5	1346.2	1334.4	1328.3	1323.2	1312.0	1300.8	1292.4	1284.6	1276.2
22.5°	1319.9	1306.4	1297.5	1282.9	1277.9	1271.7	1258.2	1248.2	1238.6	1230.8	1223.0
25°	1259.9	1248.2	1235.8	1222.4	1216.2	1208.9	1197.7	1187.1	1180.9	1172.0	1162.5
27.5°	1191.0	1181.5	1166.4	1154.6	1148.4	1142.8	1132.2	1122.7	1113.7	1107.5	1098.6
30°	1118.2	1107.0	1093.5	1081.2	1077.9	1071.1	1061.6	1054.3	1044.8	1040.9	1037.0
32.5°	1038.1	1025.2	1015.1	1007.3	1000.5	994.9	989.9	978.1	976.5	966.4	965.3
35°	950.7	945.1	935.6	928.8	923.2	919.3	910.9	905.3	899.1	897.5	893.5
37.5°	868.3	861.6	852.7	846.5	842.6	842.0	835.8	832.5	828.0	825.8	821.3
40°	782.1	779.3	771.4	770.3	764.1	763.6	760.2	756.3	752.4	752.4	752.9
42.5°	702.5	699.2	695.8	691.9	688.5	688.5	686.8	685.7	684.6	682.9	685.7
45°	628.0	623.5	621.3	617.4	619.0	615.7	614.6	614.6	612.9	612.3	616.2
47.5°	558.5	553.5	551.3	550.1	550.1	550.7	545.7	547.3	546.8	547.9	549.6
50°	495.2	490.7	487.4	487.4	487.9	485.7	483.5	485.1	483.5	484.6	488.5
52.5°	436.4	431.9	430.2	430.2	426.9	426.3	427.4	425.2	425.8	426.3	428.6
55°	382.1	379.3	376.5	373.7	374.2	373.1	370.9	370.3	371.4	372.0	374.8
57.5°	333.3	329.4	325.5	324.4	323.2	323.2	320.4	319.9	321.0	318.2	318.2
60°	286.8	284.6	279.5	277.9	277.9	275.1	272.8	273.9	271.1	270.6	271.1
62.5°	243.7	242.0	238.7	235.3	234.2	233.1	230.2	229.1	228.0	225.8	222.4
65°	206.2	202.2	198.3	196.1	194.4	191.6	189.9	187.7	184.3	183.2	179.8
67.5°	168.6	164.7	160.8	159.1	157.4	155.7	152.9	150.1	146.2	141.7	137.8
70°	135.6	130.5	128.3	123.8	122.7	120.4	116.5	113.7	109.8	104.8	100.8
72.5°	103.6	100.3	96.9	93.0	90.2	88.5	85.2	80.7	76.2	73.4	69.5
75°	74.5	72.8	68.3	63.9	62.7	60.5	56.6	53.8	50.4	45.9	42.6
77.5°	50.4	47.1	44.3	40.3	39.2	37.0	34.7	31.9	29.7	26.9	24.6
80°	29.7	26.9	25.2	22.4	21.3	20.2	18.5	16.2	14.6	13.4	12.9
82.5°	14.6	12.3	11.8	10.1	9.5	9.0	7.8	7.3	6.2	6.2	6.2
85°	5.0	3.9	3.9	3.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	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°	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6
2.5°	1451.0	1450.4	1449.8	1449.3	1449.3	1448.7	1448.7	1448.2	1448.2	1447.6	1447.6
5°	1440.9	1439.2	1438.1	1437.0	1437.0	1435.3	1434.2	1433.0	1432.5	1432.5	1431.4
7.5°	1426.9	1424.6	1422.4	1420.7	1420.1	1417.3	1415.1	1415.1	1412.9	1411.7	1410.6
10°	1408.4	1404.5	1401.1	1399.4	1397.2	1395.5	1392.7	1391.0	1389.3	1386.5	1386.0
12.5°	1383.2	1380.4	1375.3	1373.1	1372.0	1368.6	1364.1	1361.9	1361.3	1359.1	1357.4
15°	1354.6	1348.4	1344.0	1341.2	1341.2	1335.6	1333.3	1330.0	1327.7	1326.0	1325.5
17.5°	1317.6	1311.5	1307.0	1303.1	1301.9	1297.5	1294.1	1293.0	1290.2	1291.3	1288.5
20°	1270.0	1265.0	1261.6	1256.6	1256.6	1253.8	1252.6	1249.8	1248.7	1247.6	1248.7
22.5°	1219.0	1212.9	1207.3	1206.7	1206.7	1202.8	1202.2	1201.7	1199.4	1201.1	1200.5
25°	1159.1	1154.6	1151.2	1150.7	1150.7	1148.4	1146.2	1147.3	1149.0	1148.4	1150.1
27.5°	1096.9	1092.4	1091.3	1090.7	1089.6	1089.1	1090.2	1090.2	1091.9	1094.1	1096.3
30°	1029.7	1028.6	1026.9	1026.3	1025.2	1028.0	1029.1	1030.8	1030.2	1033.6	1035.8
32.5°	962.5	960.2	959.7	960.8	962.5	961.9	965.3	966.4	967.5	971.4	973.1
35°	894.7	894.1	893.0	893.0	893.5	898.0	898.0	901.9	904.2	905.3	909.8
37.5°	821.8	824.1	825.2	826.9	827.4	829.1	830.2	834.2	836.4	838.6	840.9
40°	755.2	754.1	759.1	755.7	756.9	761.9	764.1	763.6	766.9	770.3	772.5
42.5°	684.0	685.7	686.8	687.9	690.7	691.3	694.1	698.0	699.2	703.1	704.2
45°	615.1	615.7	617.9	620.2	621.8	626.3	627.4	629.1	632.5	632.5	634.2
47.5°	550.1	552.4	552.4	555.7	558.5	558.0	561.9	563.0	562.5	565.3	566.4
50°	487.9	491.3	490.7	493.0	494.1	494.7	498.0	499.2	496.9	499.7	500.3
52.5°	428.6	430.2	432.5	433.0	431.9	434.7	433.6	435.8	435.3	437.5	435.3
55°	374.2	373.7	373.7	374.8	373.7	374.8	375.9	373.7	372.0	374.2	373.7
57.5°	319.9	319.9	318.8	320.4	318.8	317.1	316.5	314.8	313.2	313.2	312.6
60°	268.9	267.8	265.5	265.0	265.0	262.2	261.1	258.8	258.8	256.6	254.3
62.5°	221.3	218.5	216.8	216.8	215.7	212.9	207.8	204.5	203.4	200.0	199.4
65°	176.5	173.7	172.0	168.6	165.8	164.7	159.7	155.7	154.1	150.7	151.3
67.5°	135.6	131.1	126.0	123.8	122.1	118.2	116.5	113.7	112.0	112.0	112.0
70°	97.5	93.6	88.5	86.8	85.7	82.4	80.7	80.1	81.8	81.2	81.8
72.5°	65.5	61.6	59.4	58.3	57.1	55.5	56.6	57.1	56.0	56.6	57.1
75°	39.8	38.7	37.0	36.4	36.4	37.0	36.4	36.4	37.0	37.0	37.5
77.5°	23.0	21.8	21.8	21.3	22.4	21.8	21.8	21.8	22.4	22.4	22.4
80°	12.3	12.3	12.3	12.3	12.9	12.3	12.9	12.9	12.9	12.9	12.9
82.5°	6.2	6.2	6.2	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.2
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
87.5°	0.6	1.1	1.1	1.1	1.1	1.1	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: P857798

CATALOG NUMBER: LX4C35D010 EX4C359050 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6	1456.6
2.5°	1446.5	1446.5	1446.5	1445.4	1445.9	1445.9	1445.4	1445.4
5°	1430.8	1430.2	1429.1	1429.1	1428.0	1429.1	1428.6	1429.1
7.5°	1409.5	1409.5	1407.8	1407.8	1407.3	1406.7	1406.1	1406.7
10°	1384.3	1384.3	1383.2	1382.6	1383.2	1380.9	1380.9	1380.4
12.5°	1356.3	1355.2	1354.0	1354.6	1354.0	1352.4	1351.8	1352.4
15°	1323.8	1322.1	1322.7	1321.0	1321.0	1320.4	1321.6	1321.6
17.5°	1287.9	1286.8	1285.7	1286.3	1285.1	1285.7	1285.1	1284.6
20°	1248.2	1247.6	1247.6	1245.4	1245.9	1245.4	1245.9	1247.6
22.5°	1202.2	1201.7	1202.2	1200.5	1201.7	1201.7	1203.3	1203.3
25°	1151.8	1151.2	1152.4	1152.9	1153.5	1155.2	1153.5	1154.0
27.5°	1095.8	1097.5	1099.1	1099.7	1101.9	1100.3	1099.1	1100.8
30°	1039.2	1039.2	1038.6	1040.9	1042.6	1044.2	1041.4	1041.4
32.5°	974.2	977.0	977.0	977.6	979.3	979.3	979.3	981.5
35°	912.0	913.7	914.3	912.0	913.2	912.6	916.5	916.5
37.5°	842.6	842.6	843.1	847.0	847.0	845.4	846.5	846.5
40°	776.5	777.0	774.8	775.9	778.7	777.6	778.7	779.8
42.5°	704.2	708.1	705.9	707.0	706.4	707.0	707.6	707.6
45°	635.3	636.4	636.4	637.0	638.1	639.2	635.8	635.3
47.5°	568.1	568.6	570.3	567.5	570.9	567.5	570.9	566.9
50°	500.3	502.5	500.8	502.0	500.3	500.3	499.7	499.2
52.5°	435.8	435.3	435.3	434.7	434.7	435.8	434.7	436.4
55°	371.4	372.0	370.9	370.3	369.7	371.4	369.7	368.6
57.5°	310.4	311.5	309.2	310.4	306.4	308.1	308.7	309.2
60°	253.8	252.1	252.1	249.9	249.9	251.5	249.3	249.3
62.5°	196.6	197.8	196.1	198.3	198.3	200.6	199.4	200.6
65°	150.7	151.3	151.8	151.8	151.8	155.2	154.1	152.4
67.5°	113.7	114.3	114.8	114.3	116.0	114.8	114.8	115.4
70°	82.4	82.9	83.5	83.5	82.9	83.5	83.5	83.5
72.5°	57.1	57.7	57.1	57.7	58.3	57.7	57.7	58.3
75°	37.5	37.5	37.0	37.0	37.0	37.0	37.5	37.0
77.5°	21.8	22.4	21.8	22.4	22.4	22.4	22.4	22.4
80°	12.9	12.9	12.9	12.3	12.9	12.9	12.9	12.3
82.5°	6.7	6.7	6.2	6.2	6.7	6.7	6.7	6.7
85°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
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)