

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: P857777

Luminaire Tested: **LX4C35D010 EX4C359040 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857777
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 EX4C359040 4LBLWWH
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

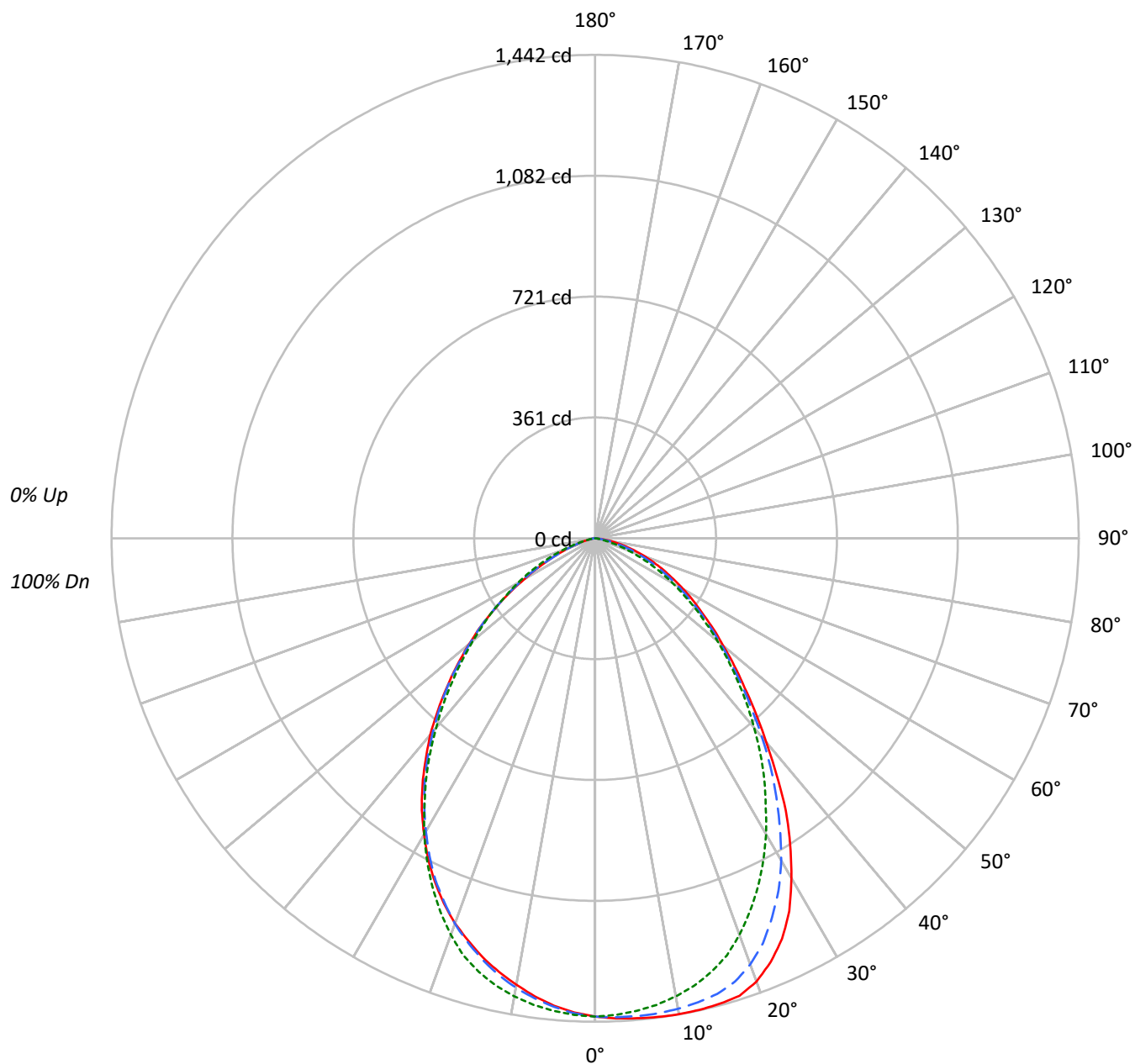
Lumens per Lamp: N/A
Luminaire Lumens: 2689.0 lumens
Efficiency: N/A
Efficacy: 66.6 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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°	175287	175287	175287
5°	177252	174539	172652
10°	179850	173064	168685
15°	182806	170304	164657
20°	183961	164521	159788
25°	178687	155629	153244
30°	166060	144639	144725
35°	148642	131859	134649
40°	127257	118196	122510
45°	109561	104210	108119
50°	95238	90728	93461
55°	83812	78050	77343
60°	74572	65137	60002
65°	65407	52180	43401
70°	56179	36854	29383
75°	45568	21360	17183
80°	32615	9339	8561
85°	12404	3806	3806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.5	5.0
10°-20°	380.6	14.2
20°-30°	543.6	20.2
30°-40°	568.6	21.1
40°-50°	476.4	17.7
50°-60°	333.4	12.4
60°-70°	181.6	6.8
70°-80°	63.0	2.3
80°-90°	7.2	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°	1058.7	39.4
0°-40°	1627.3	60.5
0°-60°	2437.2	90.6
0°-90°	2689.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2689.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1427	1427	1427	1427	1427	
5°	1437	1431	1415	1403	1400	137
15°	1437	1407	1339	1301	1295	406
25°	1318	1248	1148	1126	1130	602
35°	991	942	879	886	898	615
45°	631	616	600	620	622	490
55°	391	378	364	364	361	353
65°	225	205	180	151	149	224
75°	96	78	45	36	36	104
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°	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8
2.5°	1433.4	1431.8	1432.3	1432.3	1432.3	1431.8	1432.3	1431.8	1431.8	1431.2	1430.1
5°	1437.3	1436.2	1436.2	1436.2	1435.6	1435.1	1435.1	1434.5	1433.4	1432.9	1430.7
7.5°	1440.0	1438.9	1438.9	1438.4	1437.8	1437.3	1436.7	1435.1	1433.4	1432.3	1429.6
10°	1441.7	1440.0	1440.0	1438.9	1437.8	1437.3	1436.2	1434.0	1431.8	1429.0	1425.2
12.5°	1440.6	1438.9	1438.4	1437.3	1435.1	1434.0	1432.9	1430.1	1426.3	1422.5	1417.5
15°	1437.3	1436.2	1435.1	1433.4	1430.7	1429.0	1427.9	1423.6	1418.6	1413.1	1407.1
17.5°	1430.7	1429.0	1426.8	1424.7	1420.8	1419.2	1416.4	1410.9	1403.8	1396.1	1386.8
20°	1407.1	1406.0	1403.8	1400.0	1393.9	1391.7	1387.9	1380.8	1371.4	1362.1	1352.2
22.5°	1368.1	1366.5	1363.2	1359.9	1354.4	1350.6	1347.3	1337.4	1327.0	1317.1	1307.8
25°	1318.2	1316.5	1312.2	1307.8	1302.3	1295.7	1292.4	1284.7	1274.3	1261.7	1247.9
27.5°	1254.0	1248.5	1246.8	1241.9	1233.7	1231.5	1226.5	1216.7	1206.8	1195.8	1184.3
30°	1170.6	1170.6	1167.3	1165.1	1157.4	1155.2	1149.7	1139.3	1133.8	1118.4	1109.6
32.5°	1082.2	1081.1	1078.4	1076.7	1072.3	1068.5	1063.0	1057.5	1045.4	1037.8	1025.7
35°	991.1	984.5	985.6	982.3	979.6	975.2	974.6	968.6	957.6	953.2	942.3
37.5°	887.4	884.6	888.5	883.5	880.8	881.4	877.0	873.1	868.7	861.0	858.9
40°	793.5	795.7	795.2	790.8	793.0	790.3	785.9	782.0	779.8	774.9	773.2
42.5°	709.6	706.3	705.2	705.2	705.7	705.7	703.5	700.8	700.8	695.9	690.9
45°	630.6	630.6	629.5	632.8	627.8	627.8	626.2	625.6	623.4	622.3	616.3
47.5°	562.5	562.0	561.4	560.9	560.3	560.3	557.0	554.3	553.7	550.4	547.1
50°	498.3	501.6	500.5	497.8	496.7	497.2	495.0	493.4	492.8	487.3	487.9
52.5°	444.5	444.0	445.1	443.4	440.7	441.2	439.0	436.8	434.6	431.9	429.7
55°	391.3	394.0	392.9	391.3	390.7	389.6	388.0	385.2	384.7	378.7	378.1
57.5°	346.8	346.3	345.2	342.4	341.9	340.2	340.2	338.1	334.8	331.5	328.7
60°	303.5	303.5	301.8	301.3	299.1	298.5	298.0	295.8	292.0	289.2	284.8
62.5°	261.8	262.9	261.8	260.1	258.5	256.3	255.2	253.5	250.2	247.5	243.7
65°	225.0	224.5	223.9	221.7	221.2	219.0	218.4	215.1	211.8	209.6	205.2
67.5°	189.9	188.2	188.2	187.1	186.0	184.4	183.3	180.0	176.2	174.0	169.6
70°	156.4	155.3	155.3	155.3	152.6	150.9	150.4	148.7	143.2	141.0	136.6
72.5°	125.7	125.1	124.6	122.9	121.3	121.3	119.1	115.8	113.1	110.3	107.0
75°	96.0	97.1	96.0	93.8	93.3	92.2	90.6	87.8	85.1	81.8	77.9
77.5°	70.2	69.1	68.0	68.0	67.0	64.8	64.2	62.0	58.7	56.5	52.7
80°	46.1	45.5	44.5	43.4	42.8	42.3	41.7	39.5	36.2	34.6	31.3
82.5°	25.2	24.7	24.7	24.1	22.5	22.5	22.0	19.8	18.1	17.0	15.4
85°	8.8	8.8	8.8	8.2	8.2	8.2	7.7	7.1	6.6	6.0	4.9
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8
2.5°	1429.0	1427.9	1427.4	1426.8	1426.3	1425.8	1425.2	1424.1	1423.6	1423.0	1421.9
5°	1429.0	1426.8	1425.8	1424.1	1423.0	1421.9	1420.3	1418.6	1417.0	1415.3	1413.7
7.5°	1426.8	1423.6	1421.4	1418.1	1417.0	1415.3	1412.0	1409.8	1407.1	1403.8	1400.0
10°	1421.4	1417.5	1413.1	1408.7	1407.1	1404.3	1400.0	1396.1	1391.7	1387.3	1383.5
12.5°	1412.6	1406.5	1401.1	1395.0	1391.7	1389.0	1382.9	1377.5	1372.0	1367.0	1360.4
15°	1399.4	1392.3	1385.1	1376.9	1373.1	1369.8	1361.0	1354.4	1345.6	1339.0	1332.5
17.5°	1378.0	1367.0	1358.3	1347.8	1342.3	1338.5	1330.8	1320.4	1312.2	1305.0	1297.3
20°	1341.2	1330.8	1318.7	1307.2	1301.2	1296.2	1285.3	1274.3	1266.1	1258.4	1250.1
22.5°	1292.9	1279.8	1271.0	1256.7	1251.8	1245.7	1232.6	1222.7	1213.4	1205.7	1198.0
25°	1234.2	1222.7	1210.6	1197.5	1191.4	1184.3	1173.3	1162.9	1156.8	1148.1	1138.7
27.5°	1166.7	1157.4	1142.6	1131.1	1125.0	1119.5	1109.1	1099.8	1091.0	1085.0	1076.2
30°	1095.4	1084.4	1071.2	1059.2	1055.9	1049.3	1040.0	1032.8	1023.5	1019.6	1015.8
32.5°	1016.9	1004.3	994.4	986.7	980.1	974.6	969.7	958.2	956.5	946.7	945.6
35°	931.3	925.8	916.5	909.9	904.4	900.6	892.3	886.8	880.8	879.2	875.3
37.5°	850.6	844.0	835.3	829.2	825.4	824.8	818.8	815.5	811.1	808.9	804.5
40°	766.1	763.4	755.7	754.6	748.5	748.0	744.7	740.9	737.0	737.0	737.6
42.5°	688.2	684.9	681.6	677.8	674.5	674.5	672.8	671.7	670.6	669.0	671.7
45°	615.2	610.8	608.6	604.8	606.4	603.1	602.0	602.0	600.4	599.8	603.7
47.5°	547.1	542.2	540.0	538.9	538.9	539.5	534.5	536.2	535.6	536.7	538.4
50°	485.1	480.7	477.4	477.4	478.0	475.8	473.6	475.3	473.6	474.7	478.5
52.5°	427.5	423.1	421.5	421.5	418.2	417.6	418.7	416.5	417.1	417.6	419.8
55°	374.3	371.5	368.8	366.0	366.6	365.5	363.3	362.7	363.8	364.4	367.1
57.5°	326.5	322.7	318.8	317.7	316.7	316.7	313.9	313.4	314.5	311.7	311.7
60°	281.0	278.8	273.8	272.2	272.2	269.5	267.3	268.4	265.6	265.1	265.6
62.5°	238.7	237.1	233.8	230.5	229.4	228.3	225.6	224.5	223.4	221.2	217.9
65°	202.0	198.1	194.3	192.1	190.4	187.7	186.0	183.8	180.6	179.5	176.2
67.5°	165.2	161.3	157.5	155.9	154.2	152.6	149.8	147.1	143.2	138.8	135.0
70°	132.8	127.9	125.7	121.3	120.2	118.0	114.1	111.4	107.6	102.6	98.8
72.5°	101.5	98.2	94.9	91.1	88.4	86.7	83.4	79.0	74.6	71.9	68.0
75°	73.0	71.3	67.0	62.6	61.5	59.3	55.4	52.7	49.4	45.0	41.7
77.5°	49.4	46.1	43.4	39.5	38.4	36.2	34.0	31.3	29.1	26.3	24.1
80°	29.1	26.3	24.7	22.0	20.9	19.8	18.1	15.9	14.3	13.2	12.6
82.5°	14.3	12.1	11.5	9.9	9.3	8.8	7.7	7.1	6.0	6.0	6.0
85°	4.9	3.8	3.8	3.3	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8
2.5°	1421.4	1420.8	1420.3	1419.7	1419.7	1419.2	1419.2	1418.6	1418.6	1418.1	1418.1
5°	1411.5	1409.8	1408.7	1407.6	1407.6	1406.0	1404.9	1403.8	1403.3	1403.3	1402.2
7.5°	1397.8	1395.6	1393.4	1391.7	1391.2	1388.4	1386.2	1386.2	1384.0	1382.9	1381.8
10°	1379.7	1375.8	1372.5	1370.9	1368.7	1367.0	1364.3	1362.6	1361.0	1358.3	1357.7
12.5°	1355.0	1352.2	1347.3	1345.1	1344.0	1340.7	1336.3	1334.1	1333.6	1331.4	1329.7
15°	1327.0	1320.9	1316.5	1313.8	1313.8	1308.3	1306.1	1302.8	1300.6	1299.0	1298.4
17.5°	1290.7	1284.7	1280.3	1276.5	1275.4	1271.0	1267.7	1266.6	1263.9	1265.0	1262.2
20°	1244.1	1239.2	1235.9	1230.9	1230.9	1228.2	1227.1	1224.3	1223.2	1222.2	1223.2
22.5°	1194.2	1188.1	1182.6	1182.1	1182.1	1178.2	1177.7	1177.2	1175.0	1176.6	1176.1
25°	1135.4	1131.1	1127.8	1127.2	1127.2	1125.0	1122.8	1123.9	1125.6	1125.0	1126.7
27.5°	1074.5	1070.1	1069.0	1068.5	1067.4	1066.8	1067.9	1067.9	1069.6	1071.8	1074.0
30°	1008.7	1007.6	1005.9	1005.4	1004.3	1007.0	1008.1	1009.8	1009.2	1012.5	1014.7
32.5°	942.8	940.6	940.1	941.2	942.8	942.3	945.6	946.7	947.8	951.6	953.2
35°	876.4	875.9	874.8	874.8	875.3	879.7	879.7	883.5	885.7	886.8	891.2
37.5°	805.1	807.3	808.4	810.0	810.6	812.2	813.3	817.1	819.3	821.5	823.7
40°	739.8	738.7	743.6	740.3	741.4	746.4	748.5	748.0	751.3	754.6	756.8
42.5°	670.1	671.7	672.8	673.9	676.7	677.2	679.9	683.8	684.9	688.7	689.8
45°	602.6	603.1	605.3	607.5	609.2	613.5	614.6	616.3	619.6	619.6	621.2
47.5°	538.9	541.1	541.1	544.4	547.1	546.6	550.4	551.5	551.0	553.7	554.8
50°	478.0	481.3	480.7	482.9	484.0	484.6	487.9	489.0	486.8	489.5	490.1
52.5°	419.8	421.5	423.7	424.2	423.1	425.9	424.8	427.0	426.4	428.6	426.4
55°	366.6	366.0	366.0	367.1	366.0	367.1	368.2	366.0	364.4	366.6	366.0
57.5°	313.4	313.4	312.3	313.9	312.3	310.6	310.1	308.4	306.8	306.8	306.2
60°	263.4	262.3	260.1	259.6	259.6	256.8	255.7	253.5	253.5	251.3	249.1
62.5°	216.8	214.0	212.4	212.4	211.3	208.5	203.6	200.3	199.2	195.9	195.4
65°	172.9	170.1	168.5	165.2	162.4	161.3	156.4	152.6	150.9	147.6	148.2
67.5°	132.8	128.4	123.5	121.3	119.6	115.8	114.1	111.4	109.8	109.8	109.8
70°	95.5	91.6	86.7	85.1	84.0	80.7	79.0	78.5	80.1	79.6	80.1
72.5°	64.2	60.4	58.2	57.1	56.0	54.3	55.4	56.0	54.9	55.4	56.0
75°	39.0	37.9	36.2	35.7	35.7	36.2	35.7	35.7	36.2	36.2	36.8
77.5°	22.5	21.4	21.4	20.9	22.0	21.4	21.4	21.4	22.0	22.0	22.0
80°	12.1	12.1	12.1	12.1	12.6	12.1	12.6	12.6	12.6	12.6	12.6
82.5°	6.0	6.0	6.0	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.0
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: P857777

CATALOG NUMBER: LX4C35D010 EX4C359040 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8	1426.8
2.5°	1417.0	1417.0	1417.0	1415.9	1416.4	1416.4	1415.9	1415.9
5°	1401.6	1401.1	1400.0	1400.0	1398.9	1400.0	1399.4	1400.0
7.5°	1380.8	1380.8	1379.1	1379.1	1378.6	1378.0	1377.5	1378.0
10°	1356.1	1356.1	1355.0	1354.4	1355.0	1352.8	1352.8	1352.2
12.5°	1328.6	1327.5	1326.4	1327.0	1326.4	1324.8	1324.2	1324.8
15°	1296.8	1295.1	1295.7	1294.0	1294.0	1293.5	1294.6	1294.6
17.5°	1261.7	1260.6	1259.5	1260.0	1258.9	1259.5	1258.9	1258.4
20°	1222.7	1222.2	1222.2	1220.0	1220.5	1220.0	1220.5	1222.2
22.5°	1177.7	1177.2	1177.7	1176.1	1177.2	1177.2	1178.8	1178.8
25°	1128.3	1127.8	1128.9	1129.4	1130.0	1131.6	1130.0	1130.5
27.5°	1073.4	1075.1	1076.7	1077.3	1079.5	1077.8	1076.7	1078.4
30°	1018.0	1018.0	1017.5	1019.6	1021.3	1022.9	1020.2	1020.2
32.5°	954.3	957.1	957.1	957.6	959.3	959.3	959.3	961.5
35°	893.4	895.1	895.6	893.4	894.5	894.0	897.8	897.8
37.5°	825.4	825.4	825.9	829.8	829.8	828.1	829.2	829.2
40°	760.6	761.2	759.0	760.1	762.8	761.7	762.8	763.9
42.5°	689.8	693.7	691.5	692.6	692.0	692.6	693.1	693.1
45°	622.3	623.4	623.4	624.0	625.1	626.2	622.9	622.3
47.5°	556.5	557.0	558.7	555.9	559.2	555.9	559.2	555.4
50°	490.1	492.3	490.6	491.7	490.1	490.1	489.5	489.0
52.5°	427.0	426.4	426.4	425.9	425.9	427.0	425.9	427.5
55°	363.8	364.4	363.3	362.7	362.2	363.8	362.2	361.1
57.5°	304.0	305.1	302.9	304.0	300.2	301.8	302.4	302.9
60°	248.6	247.0	247.0	244.8	244.8	246.4	244.2	244.2
62.5°	192.6	193.7	192.1	194.3	194.3	196.5	195.4	196.5
65°	147.6	148.2	148.7	148.7	148.7	152.0	150.9	149.3
67.5°	111.4	112.0	112.5	112.0	113.6	112.5	112.5	113.1
70°	80.7	81.2	81.8	81.8	81.2	81.8	81.8	81.8
72.5°	56.0	56.5	56.0	56.5	57.1	56.5	56.5	57.1
75°	36.8	36.8	36.2	36.2	36.2	36.2	36.8	36.2
77.5°	21.4	22.0	21.4	22.0	22.0	22.0	22.0	22.0
80°	12.6	12.6	12.6	12.1	12.6	12.6	12.6	12.1
82.5°	6.6	6.6	6.0	6.0	6.6	6.6	6.6	6.6
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)