

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: P857713

Luminaire Tested: **LX4C35D010 EX4C359027 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P857713
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 EX4C359027 4LBLWW*
Description: 4 INCH 3500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

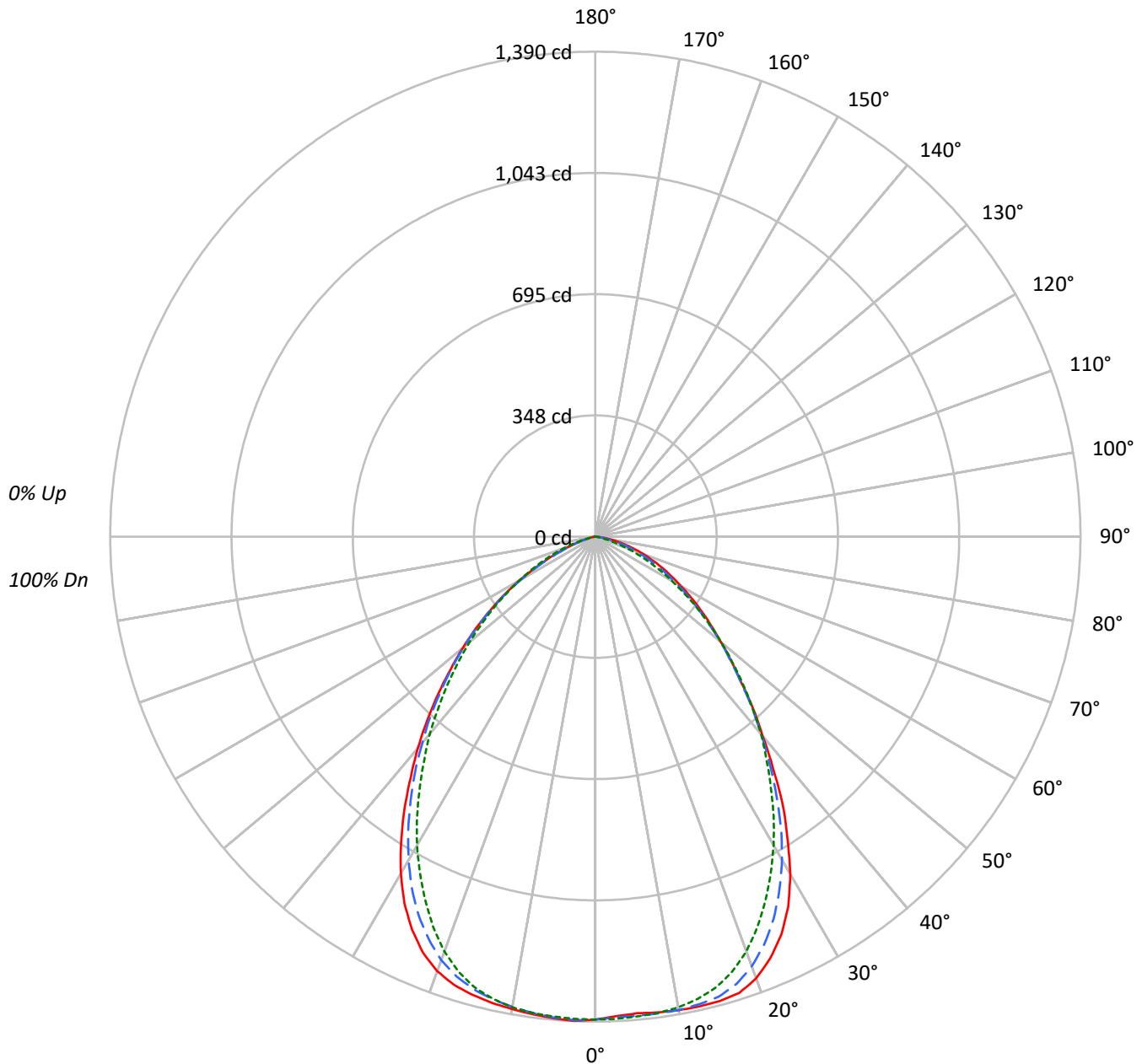
Lumens per Lamp: N/A
Luminaire Lumens: 2654.0 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	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°	170066	170066	170066
5°	169112	170272	170913
10°	171916	170881	171529
15°	175277	170113	172962
20°	176156	165357	173241
25°	170744	156158	168412
30°	158471	144909	158173
35°	140333	131439	142988
40°	119639	118388	126808
45°	102785	103949	110465
50°	89715	89925	94684
55°	79271	75930	78500
60°	69486	61943	61697
65°	61511	48052	42761
70°	52479	33046	25395
75°	42435	17753	11582
80°	29078	4386	2971
85°	8739	1410	1410



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	5.0
10°-20°	380.9	14.4
20°-30°	550.3	20.7
30°-40°	568.9	21.4
40°-50°	470.1	17.7
50°-60°	324.4	12.2
60°-70°	169.8	6.4
70°-80°	53.5	2.0
80°-90°	4.5	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°	1062.7	40.0
0°-40°	1631.7	61.5
0°-60°	2426.2	91.4
0°-90°	2654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2654.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1384	1384	1384	1384	1384	
5°	1371	1378	1381	1383	1386	131
15°	1378	1365	1338	1344	1360	389
25°	1260	1209	1152	1198	1242	575
35°	936	904	876	922	953	581
45°	592	589	598	626	636	461
55°	370	359	354	364	366	332
65°	212	192	165	137	147	210
75°	89	70	37	26	24	96
85°	6	3	1	1	1	13
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°	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3
2.5°	1375.5	1376.0	1376.0	1377.0	1377.0	1377.0	1377.6	1377.6	1378.1	1378.6	1379.1
5°	1371.3	1371.3	1372.4	1372.9	1373.9	1374.4	1375.5	1376.0	1377.0	1377.6	1378.1
7.5°	1375.5	1375.5	1376.0	1376.5	1376.5	1377.0	1377.0	1377.6	1378.1	1378.6	1378.6
10°	1378.1	1378.1	1378.1	1378.1	1378.6	1378.6	1378.6	1378.1	1378.1	1378.1	1377.6
12.5°	1379.1	1379.1	1378.6	1378.1	1378.6	1378.1	1378.1	1376.5	1375.5	1374.4	1372.9
15°	1378.1	1378.1	1377.6	1377.0	1376.5	1375.5	1375.0	1372.4	1370.3	1367.2	1365.1
17.5°	1371.3	1370.3	1369.2	1368.2	1366.1	1364.6	1363.5	1358.9	1355.2	1350.0	1344.3
20°	1347.4	1346.4	1344.8	1342.2	1339.6	1337.5	1334.4	1327.7	1324.0	1316.2	1310.5
22.5°	1308.4	1307.4	1307.9	1303.2	1298.0	1294.9	1292.8	1287.1	1280.9	1271.0	1264.8
25°	1259.6	1256.4	1256.4	1249.2	1246.6	1244.5	1241.9	1235.1	1225.8	1216.9	1208.6
27.5°	1196.1	1192.0	1189.9	1188.9	1182.6	1177.9	1174.3	1169.1	1161.3	1153.5	1142.1
30°	1117.1	1116.6	1114.0	1109.3	1104.7	1102.6	1098.4	1089.6	1082.3	1076.6	1069.3
32.5°	1024.1	1023.6	1023.6	1023.6	1020.4	1019.9	1013.7	1009.0	1003.3	994.4	989.8
35°	935.7	935.2	935.7	927.9	925.8	924.3	923.7	920.6	912.8	908.7	904.5
37.5°	835.9	837.5	836.4	834.3	836.9	832.3	835.9	829.1	826.0	825.0	820.3
40°	746.0	750.1	746.0	746.5	749.1	744.4	744.4	743.4	741.3	740.2	739.2
42.5°	669.0	663.8	666.9	664.3	666.9	665.4	662.8	664.3	664.9	662.8	662.3
45°	591.6	592.6	593.7	592.1	592.1	590.5	594.7	592.1	592.1	592.6	589.0
47.5°	528.7	527.1	528.2	527.1	527.6	526.6	527.6	528.2	527.1	527.1	524.0
50°	469.4	468.4	472.0	468.9	468.9	468.4	468.9	467.9	466.3	466.3	467.3
52.5°	417.9	415.9	415.3	417.9	414.3	414.3	414.8	413.8	411.7	410.7	408.1
55°	370.1	369.6	370.1	368.0	367.0	367.0	364.4	363.4	362.8	360.2	358.7
57.5°	325.4	323.9	324.4	323.9	321.8	321.3	319.2	319.2	317.1	315.0	312.4
60°	282.8	282.8	284.4	282.3	280.7	279.7	278.6	277.6	274.0	270.3	267.2
62.5°	244.8	245.4	244.8	243.3	242.2	241.2	240.2	237.0	233.9	231.8	228.2
65°	211.6	211.1	209.5	208.5	205.9	205.9	203.8	202.2	198.6	195.5	191.8
67.5°	177.3	176.2	176.2	176.2	173.1	172.6	171.5	168.4	165.3	161.1	158.0
70°	146.1	147.1	145.6	144.0	142.4	141.9	140.4	137.2	133.6	129.4	126.8
72.5°	116.4	117.5	115.9	115.4	112.3	111.2	110.7	108.1	104.0	101.4	97.2
75°	89.4	89.9	88.9	87.9	85.8	85.3	82.7	80.6	78.0	73.8	70.2
77.5°	64.5	63.4	63.4	61.3	59.3	59.3	58.7	55.6	52.0	48.9	45.7
80°	41.1	40.5	39.0	37.9	36.4	35.9	35.3	32.7	30.2	28.1	26.0
82.5°	20.8	20.3	19.8	19.2	18.2	17.2	17.7	15.6	14.6	12.5	10.9
85°	6.2	6.8	6.8	6.2	5.7	5.7	5.7	5.2	4.2	3.6	3.1
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3
2.5°	1379.6	1380.2	1380.7	1381.2	1381.2	1381.7	1382.2	1382.8	1383.3	1383.3	1383.8
5°	1378.6	1379.6	1379.6	1380.2	1380.2	1380.2	1380.7	1380.7	1380.7	1380.7	1381.2
7.5°	1379.1	1379.1	1379.1	1378.6	1378.6	1378.1	1378.1	1378.1	1377.0	1377.0	1377.0
10°	1376.5	1376.0	1375.5	1374.4	1373.9	1373.4	1372.4	1371.3	1370.3	1369.8	1368.7
12.5°	1371.3	1369.2	1367.2	1365.1	1364.0	1363.5	1361.4	1359.9	1358.3	1356.8	1355.7
15°	1360.9	1357.8	1354.2	1350.0	1349.0	1347.9	1344.3	1341.2	1339.1	1337.5	1334.9
17.5°	1340.1	1333.9	1329.7	1323.5	1320.9	1319.9	1314.1	1311.0	1307.4	1306.3	1304.3
20°	1303.2	1297.5	1289.7	1284.0	1280.9	1277.8	1273.1	1268.9	1264.8	1264.8	1262.2
22.5°	1257.0	1249.7	1239.8	1232.5	1232.0	1225.8	1221.6	1216.9	1215.4	1212.3	1212.3
25°	1198.7	1192.5	1181.6	1175.3	1172.2	1170.7	1163.9	1157.7	1154.6	1152.0	1154.0
27.5°	1134.3	1124.9	1116.6	1108.8	1106.2	1103.1	1096.9	1094.3	1088.5	1088.0	1087.5
30°	1060.5	1051.1	1042.8	1039.2	1034.0	1031.4	1026.7	1023.6	1021.5	1021.5	1020.4
32.5°	983.0	974.7	970.5	962.7	960.1	956.5	953.4	950.3	951.3	950.3	950.8
35°	899.3	897.2	889.4	884.8	884.8	884.2	879.0	877.0	875.9	876.4	879.0
37.5°	819.8	813.5	808.3	805.2	807.8	804.7	804.2	804.2	807.3	805.2	809.4
40°	735.0	734.5	732.4	733.5	734.0	730.4	731.4	731.9	734.0	738.2	738.7
42.5°	661.2	660.7	660.7	660.7	659.7	657.6	659.7	663.3	662.8	665.9	668.5
45°	590.0	589.0	591.1	589.5	592.6	593.7	592.1	593.1	596.3	598.3	602.5
47.5°	525.0	525.0	525.6	526.6	523.5	526.1	527.1	529.2	530.8	531.8	533.9
50°	464.7	464.7	463.7	463.7	463.7	465.3	463.2	465.8	466.3	470.5	473.1
52.5°	409.1	406.5	408.1	407.0	405.0	403.9	405.0	405.5	408.6	409.6	412.7
55°	356.1	356.1	351.9	350.9	352.4	351.9	351.4	351.4	353.0	354.5	357.1
57.5°	309.3	306.2	303.1	302.5	301.0	301.5	301.5	301.0	299.9	300.5	301.0
60°	265.1	263.0	258.4	258.4	257.8	257.3	254.7	254.2	251.6	252.1	250.0
62.5°	224.6	223.5	217.3	215.2	215.2	213.7	211.1	210.5	206.9	206.9	204.8
65°	188.2	185.1	181.4	177.8	177.8	175.7	174.1	169.5	166.9	165.3	162.2
67.5°	154.9	150.2	146.6	143.5	141.4	140.9	137.2	134.1	130.0	127.4	122.7
70°	122.7	119.0	115.4	112.3	110.2	108.1	104.5	99.8	96.7	92.0	88.9
72.5°	92.5	89.4	86.3	82.1	79.5	78.0	74.3	70.2	65.0	61.9	57.7
75°	66.5	62.9	58.7	55.1	53.5	52.0	47.8	44.7	41.1	37.4	33.3
77.5°	43.1	39.0	35.9	31.7	31.2	30.2	26.0	22.9	20.3	18.2	15.6
80°	22.9	20.8	18.2	15.6	14.6	13.0	10.9	9.4	7.8	6.2	5.2
82.5°	9.9	8.3	6.8	5.7	5.2	4.7	3.6	3.1	2.6	2.6	2.1
85°	2.6	2.1	2.1	1.6	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.5	0.5	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3
2.5°	1384.3	1384.8	1385.4	1385.4	1385.9	1386.4	1386.4	1386.9	1387.4	1388.0	1388.0
5°	1381.7	1381.7	1381.7	1382.2	1382.2	1382.2	1382.2	1383.3	1383.3	1383.8	1384.3
7.5°	1376.5	1376.5	1376.5	1376.5	1376.0	1376.5	1376.0	1376.0	1377.0	1377.6	1378.1
10°	1368.2	1367.7	1367.7	1367.2	1367.2	1367.2	1367.7	1368.2	1368.7	1369.2	1370.8
12.5°	1355.2	1354.7	1354.7	1354.2	1354.2	1354.7	1355.2	1356.3	1358.3	1359.4	1361.4
15°	1334.4	1333.9	1334.4	1334.9	1336.0	1337.5	1339.1	1340.7	1343.8	1346.4	1349.0
17.5°	1304.3	1304.8	1305.3	1306.3	1307.9	1310.0	1314.1	1318.3	1321.9	1326.1	1330.3
20°	1262.7	1264.8	1265.3	1268.9	1270.0	1274.6	1279.3	1285.6	1291.3	1296.5	1302.2
22.5°	1212.8	1214.3	1216.4	1220.6	1223.2	1229.4	1235.1	1242.4	1248.6	1255.4	1263.7
25°	1156.1	1156.6	1162.9	1162.9	1169.1	1174.3	1181.1	1188.9	1198.2	1207.1	1212.8
27.5°	1091.7	1094.3	1098.9	1101.0	1105.7	1114.0	1119.7	1129.1	1138.4	1146.2	1152.5
30°	1024.1	1026.2	1034.0	1035.0	1038.6	1045.9	1053.7	1062.5	1069.8	1078.7	1084.4
32.5°	952.9	958.6	963.3	966.9	967.9	978.9	983.0	989.2	997.6	1006.4	1012.1
35°	883.7	886.3	893.1	895.2	898.3	904.5	912.8	918.0	922.2	927.9	934.7
37.5°	810.4	818.2	819.8	826.0	827.1	832.8	836.9	843.2	848.4	853.6	854.6
40°	742.3	744.9	750.6	752.2	753.2	761.0	766.2	767.8	770.4	775.1	781.3
42.5°	673.2	675.8	682.0	680.5	685.1	688.8	691.4	697.6	700.2	701.8	701.8
45°	605.1	606.1	610.3	612.4	615.0	617.0	621.7	624.8	625.9	630.6	632.1
47.5°	540.1	541.1	544.3	547.9	546.9	549.5	554.7	556.2	556.7	559.9	561.4
50°	476.2	478.8	482.9	481.9	485.0	486.6	491.2	492.3	492.3	492.8	493.3
52.5°	416.4	418.5	419.5	420.5	422.1	424.7	426.8	425.7	427.8	429.9	428.3
55°	357.1	358.7	361.3	362.3	362.3	362.8	361.8	366.5	364.4	363.9	364.4
57.5°	303.1	301.0	300.5	303.1	304.1	303.6	302.0	304.1	304.1	303.1	301.5
60°	250.6	249.0	248.5	249.0	246.9	245.4	246.4	245.4	242.8	241.7	242.2
62.5°	202.7	201.2	197.0	197.0	196.0	195.5	191.3	191.8	189.7	186.6	187.7
65°	158.5	154.4	152.3	151.8	148.2	145.0	144.0	140.4	137.2	136.7	137.2
67.5°	119.0	114.4	110.7	109.2	107.1	104.5	100.8	97.7	98.8	98.2	100.3
70°	82.7	79.5	75.9	73.3	74.3	71.2	69.1	69.1	69.7	70.2	71.2
72.5°	55.1	50.9	49.4	47.8	46.8	44.7	45.7	45.7	45.2	45.7	44.7
75°	31.2	29.1	27.6	27.0	26.0	26.0	26.0	26.0	25.5	25.0	25.0
77.5°	14.0	13.0	12.5	12.0	12.0	12.0	11.4	10.9	10.9	10.9	10.4
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	2.1	2.1	2.6	2.6	2.6	2.1	2.6	2.6	2.1	2.1	2.6
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	0.5	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.0	0.5	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: P857713

CATALOG NUMBER: LX4C35D010 EX4C359027 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3	1384.3
2.5°	1388.5	1389.0	1389.0	1389.0	1389.5	1389.5	1389.5	1389.5
5°	1384.8	1385.4	1385.4	1385.4	1385.9	1385.9	1385.9	1385.9
7.5°	1378.6	1379.1	1379.1	1379.6	1379.6	1380.2	1380.2	1380.7
10°	1371.3	1372.4	1372.9	1373.4	1373.9	1374.4	1374.4	1375.0
12.5°	1363.5	1364.6	1365.1	1366.1	1367.2	1367.7	1368.2	1368.7
15°	1352.1	1354.2	1355.2	1355.7	1357.8	1358.9	1359.4	1359.9
17.5°	1333.9	1338.1	1339.6	1340.7	1342.7	1344.8	1346.4	1346.9
20°	1307.9	1312.6	1314.7	1317.3	1320.4	1323.0	1324.0	1325.1
22.5°	1271.5	1276.7	1279.8	1283.0	1285.6	1288.2	1292.3	1290.8
25°	1219.5	1228.4	1232.0	1233.6	1239.3	1242.4	1244.5	1242.4
27.5°	1161.3	1166.5	1169.6	1173.3	1177.4	1180.5	1181.6	1184.7
30°	1091.1	1100.0	1099.5	1103.1	1108.3	1111.4	1112.4	1115.0
32.5°	1018.4	1022.5	1025.6	1025.1	1027.2	1032.9	1030.8	1035.5
35°	940.9	941.4	946.6	946.1	950.3	950.3	950.3	953.4
37.5°	858.2	864.5	861.9	868.1	866.0	867.6	867.6	868.6
40°	782.9	785.0	785.0	787.0	788.6	787.0	788.1	790.7
42.5°	704.9	707.0	707.5	706.5	708.0	712.7	709.1	712.2
45°	632.1	633.7	635.8	634.2	636.8	635.2	636.8	635.8
47.5°	563.5	563.0	562.5	566.6	563.0	563.5	565.6	561.9
50°	493.3	496.4	494.4	495.9	497.0	497.0	495.4	495.4
52.5°	430.9	430.4	428.9	430.4	429.4	429.9	430.9	429.9
55°	366.5	368.6	367.5	367.0	367.5	367.5	370.6	366.5
57.5°	303.1	302.0	303.6	307.2	303.6	306.2	307.7	308.3
60°	242.8	242.8	245.9	244.3	247.4	250.0	252.1	251.1
62.5°	185.1	187.7	188.7	189.2	192.3	194.4	194.4	193.9
65°	137.2	140.9	140.9	143.0	144.0	144.0	145.0	147.1
67.5°	101.4	101.4	101.9	102.9	102.4	102.4	103.4	104.0
70°	70.7	69.7	71.2	70.7	70.7	70.2	70.7	70.7
72.5°	44.7	44.7	45.2	44.7	43.7	44.2	44.2	45.2
75°	23.9	25.0	23.9	23.9	24.4	23.4	23.9	24.4
77.5°	9.9	9.9	9.9	9.9	9.9	9.4	9.4	9.4
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.2	4.2
82.5°	2.1	2.6	2.1	2.6	2.1	2.1	2.1	2.1
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.5	0.0	0.5	0.0	0.0	0.0	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)