

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: P857387

Luminaire Tested: **LX4C25D010 EX4C259035 4LBSWNH**

Issue Date: 2/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P857387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C25D010 EX4C259035 4LBSWNH  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

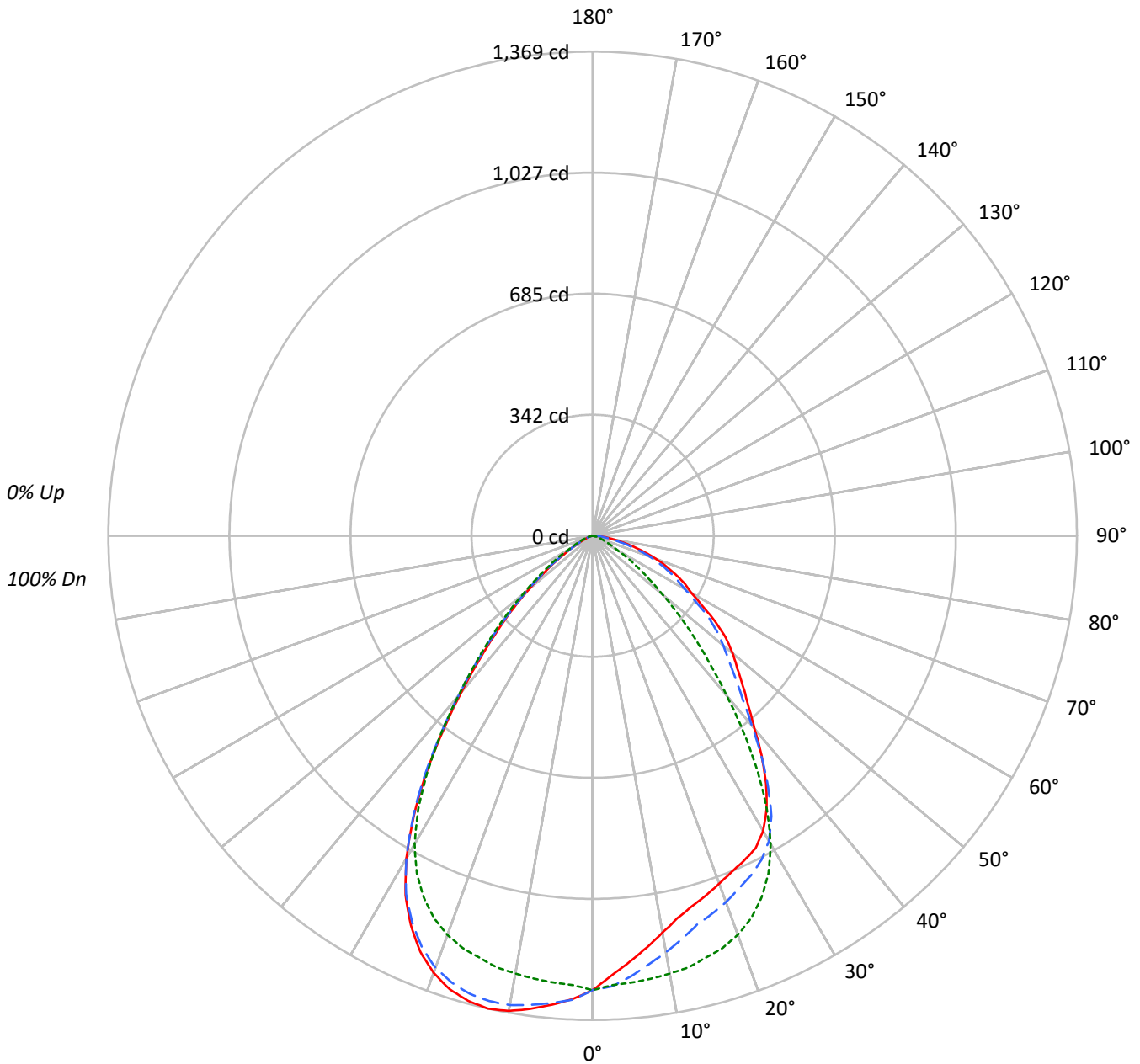
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2252.0 lumens  
Efficiency: N/A  
Efficacy: 71.5 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 31.5  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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: P857387

CATALOG NUMBER: LX4C25D010 EX4C259035 4LBSWNH

### 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		0		
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70			
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56			
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38			
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	157830	157830	157830
5°	149036	156398	164155
10°	142089	156759	170182
15°	137922	157089	173089
20°	136791	156925	171855
25°	137343	153054	164725
30°	136681	142795	149363
35°	128125	121916	123161
40°	114170	94524	92407
45°	104418	70469	66161
50°	98717	49368	44609
55°	90795	33328	28016
60°	79314	19509	15455
65°	75087	12500	8663
70°	68392	8944	5352
75°	56581	6266	3940
80°	44501	3537	2335
85°	39750	2396	0



TEST NUMBER: P857387

CATALOG NUMBER: LX4C25D010 EX4C259035 4LBSWNH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.4	5.4
10°-20°	348.2	15.5
20°-30°	516.2	22.9
30°-40°	516.9	23.0
40°-50°	361.3	16.0
50°-60°	215.0	9.5
60°-70°	112.2	5.0
70°-80°	49.9	2.2
80°-90°	10.9	0.5
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°	985.8	43.8
0°-40°	1502.8	66.7
0°-60°	2079.0	92.3
0°-90°	2252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2252.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1285	1285	1285	1285	1285	
5°	1208	1250	1268	1326	1331	113
15°	1084	1139	1235	1341	1361	307
25°	1013	1060	1129	1207	1215	467
35°	854	864	813	828	821	530
45°	601	571	406	392	381	467
55°	424	397	156	136	131	376
65°	258	237	43	32	30	255
75°	119	104	13	8	8	129
85°	28	22	2	2	0	32
90°	0	0	0	0	0	



TEST NUMBER: P857387

CATALOG NUMBER: LX4C25D010 EX4C259035 4LBSWNH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7
2.5°	1243.3	1258.3	1243.3	1248.3	1268.2	1249.9	1259.9	1259.9	1254.9	1266.5	1274.8
5°	1208.5	1223.5	1208.5	1215.2	1236.7	1218.5	1230.1	1226.8	1228.5	1238.4	1249.9
7.5°	1173.8	1185.4	1172.1	1180.4	1200.3	1185.4	1195.3	1195.3	1197.0	1211.9	1221.8
10°	1139.0	1149.0	1139.0	1145.7	1167.2	1154.0	1160.6	1162.2	1167.2	1180.4	1195.3
12.5°	1107.6	1115.9	1105.9	1115.9	1134.0	1120.8	1129.1	1130.7	1135.7	1150.7	1167.2
15°	1084.4	1092.7	1082.8	1091.0	1107.6	1097.6	1104.2	1107.6	1110.9	1124.1	1139.0
17.5°	1066.2	1072.8	1064.5	1074.5	1087.7	1076.1	1086.1	1086.1	1091.0	1104.2	1120.8
20°	1046.3	1052.9	1046.3	1054.6	1069.5	1059.6	1067.8	1067.8	1072.8	1087.7	1102.6
22.5°	1028.1	1031.4	1028.1	1034.7	1049.6	1041.4	1046.3	1048.0	1052.9	1066.2	1079.5
25°	1013.2	1019.8	1016.5	1023.1	1033.1	1024.8	1029.7	1031.4	1036.4	1048.0	1059.6
27.5°	996.6	1000.0	996.6	1005.0	1013.2	1006.6	1011.6	1009.9	1013.2	1023.1	1033.1
30°	963.5	966.9	966.9	971.8	978.5	975.2	980.1	975.2	978.5	986.7	996.6
32.5°	915.5	917.2	918.8	923.8	928.8	923.8	927.1	927.1	927.1	933.8	940.4
35°	854.3	857.6	855.9	859.3	864.2	862.6	862.6	860.9	857.6	860.9	864.2
37.5°	784.8	779.8	779.8	784.8	788.1	781.4	784.8	781.4	781.4	783.1	783.1
40°	711.9	706.9	711.9	713.6	715.2	711.9	710.3	706.9	701.9	703.6	700.3
42.5°	650.7	647.3	649.0	649.0	650.7	647.3	649.0	642.4	637.4	634.1	629.1
45°	601.0	596.0	601.0	597.7	597.7	596.0	594.3	591.0	584.4	579.5	571.2
47.5°	554.6	554.6	556.2	556.2	556.2	552.9	552.9	546.3	539.7	533.1	521.5
50°	516.5	513.2	519.8	519.8	514.9	513.2	514.9	506.6	501.7	493.4	481.7
52.5°	475.1	475.1	476.8	476.8	475.1	471.8	473.5	466.9	461.9	453.6	442.0
55°	423.9	420.5	425.5	425.5	423.9	422.2	423.9	418.9	413.9	407.3	397.3
57.5°	365.9	364.2	367.5	369.2	365.9	365.9	367.5	362.6	360.9	354.3	344.4
60°	322.8	321.2	324.5	326.2	322.8	322.8	322.8	316.2	312.9	306.3	299.6
62.5°	293.0	291.4	294.7	293.0	291.4	289.7	291.4	284.8	281.5	274.8	268.2
65°	258.3	259.9	261.6	261.6	259.9	258.3	258.3	255.0	251.7	245.1	236.8
67.5°	225.1	225.1	226.8	228.4	226.8	226.8	226.8	221.8	218.5	213.6	203.7
70°	190.4	188.7	193.7	193.7	190.4	192.0	190.4	188.7	185.4	178.8	170.6
72.5°	153.9	153.9	155.6	155.6	153.9	153.9	153.9	152.3	147.3	144.0	135.8
75°	119.2	119.2	120.8	122.5	119.2	119.2	120.8	117.5	114.2	109.3	104.3
77.5°	89.4	87.7	89.4	89.4	87.7	87.7	87.7	86.1	84.4	79.4	74.5
80°	62.9	61.3	62.9	62.9	62.9	61.3	61.3	59.6	59.6	56.3	51.3
82.5°	43.0	41.4	43.0	43.0	43.0	41.4	41.4	41.4	39.7	38.1	34.8
85°	28.2	26.5	26.5	28.2	26.5	26.5	26.5	26.5	24.9	23.2	21.5
87.5°	13.2	13.2	13.2	13.2	13.2	13.2	13.2	11.6	11.6	11.6	9.9
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: P857387

CATALOG NUMBER: LX4C25D010 EX4C259035 4LBSWNH

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7
2.5°	1268.2	1264.9	1274.8	1271.5	1273.1	1264.9	1278.1	1271.5	1279.7	1271.5	1288.0
5°	1246.6	1243.3	1258.3	1256.6	1258.3	1251.6	1266.5	1264.9	1274.8	1268.2	1286.4
7.5°	1223.5	1220.2	1236.7	1238.4	1241.7	1235.1	1254.9	1254.9	1264.9	1263.2	1283.0
10°	1197.0	1198.6	1215.2	1218.5	1225.2	1221.8	1240.0	1245.0	1258.3	1256.6	1281.4
12.5°	1172.1	1172.1	1193.7	1200.3	1205.2	1203.6	1225.2	1231.8	1246.6	1249.9	1273.1
15°	1147.3	1149.0	1168.8	1178.8	1185.4	1183.8	1206.9	1215.2	1233.4	1235.1	1263.2
17.5°	1127.4	1125.8	1147.3	1155.6	1165.5	1163.9	1188.7	1198.6	1216.8	1221.8	1248.3
20°	1110.9	1109.2	1129.1	1139.0	1145.7	1144.0	1168.8	1180.4	1197.0	1200.3	1226.8
22.5°	1091.0	1087.7	1107.6	1115.9	1122.5	1120.8	1142.3	1150.7	1167.2	1170.5	1195.3
25°	1067.8	1064.5	1082.8	1087.7	1092.7	1089.4	1107.6	1112.6	1125.8	1129.1	1154.0
27.5°	1041.4	1033.1	1048.0	1048.0	1051.3	1046.3	1059.6	1064.5	1076.1	1076.1	1099.3
30°	1000.0	988.4	996.6	995.0	996.6	990.0	998.3	1000.0	1008.3	1006.6	1023.1
32.5°	942.0	925.5	930.5	925.5	920.5	910.6	920.5	917.2	923.8	917.2	932.1
35°	862.6	846.0	844.3	837.7	832.8	824.5	824.5	816.2	817.9	812.9	822.8
37.5°	776.4	755.0	751.7	738.4	730.1	720.2	720.2	713.6	705.3	701.9	710.3
40°	692.0	668.8	660.6	639.1	630.7	620.8	614.2	606.0	602.6	589.4	596.0
42.5°	619.2	594.3	576.2	552.9	544.7	529.8	519.8	509.9	505.0	490.0	496.7
45°	557.9	528.1	508.3	478.4	466.9	450.3	435.4	423.9	412.2	405.6	402.3
47.5°	506.6	475.1	448.6	415.5	397.3	382.4	362.6	351.0	336.1	327.8	322.8
50°	463.6	428.8	399.0	360.9	342.7	326.2	302.9	284.8	271.5	258.3	255.0
52.5°	425.5	389.1	356.0	312.9	291.4	271.5	246.7	226.8	215.2	200.3	198.7
55°	380.8	349.3	312.9	268.2	246.7	226.8	200.3	180.5	165.6	155.6	152.3
57.5°	332.8	302.9	268.2	223.5	202.0	180.5	155.6	137.4	124.2	115.9	114.2
60°	288.1	259.9	226.8	182.1	160.6	142.4	115.9	97.7	86.1	79.4	76.1
62.5°	255.0	228.4	197.0	155.6	135.8	117.5	92.7	76.1	66.2	59.6	56.3
65°	223.5	197.0	168.9	130.8	114.2	97.7	74.5	59.6	49.6	43.0	39.7
67.5°	190.4	167.2	140.7	109.3	92.7	79.4	59.6	46.3	38.1	33.1	29.8
70°	157.2	135.8	114.2	87.7	76.1	62.9	46.3	36.4	28.2	24.9	21.5
72.5°	124.2	107.6	89.4	67.9	58.0	49.6	36.4	26.5	21.5	18.2	14.9
75°	92.7	81.1	66.2	51.3	43.0	36.4	26.5	19.9	16.5	13.2	11.6
77.5°	66.2	56.3	46.3	34.8	31.5	26.5	18.2	14.9	11.6	8.3	6.6
80°	44.7	39.7	31.5	24.9	19.9	18.2	13.2	9.9	6.6	5.0	5.0
82.5°	29.8	24.9	19.9	14.9	13.2	11.6	8.3	6.6	5.0	3.3	3.3
85°	18.2	14.9	11.6	8.3	8.3	6.6	5.0	3.3	1.7	1.7	1.7
87.5°	8.3	6.6	5.0	3.3	3.3	1.7	1.7	1.7	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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CATALOG NUMBER: LX4C25D010 EX4C259035 4LBSWNH

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7
2.5°	1301.3	1291.4	1284.7	1293.0	1296.3	1291.4	1296.3	1304.6	1312.9	1314.5	1291.4
5°	1303.0	1293.0	1289.7	1299.6	1301.3	1299.6	1304.6	1316.2	1326.1	1329.4	1306.3
7.5°	1303.0	1296.3	1294.7	1306.3	1307.9	1306.3	1314.5	1327.8	1337.7	1344.3	1321.1
10°	1299.6	1296.3	1298.0	1307.9	1311.2	1311.2	1322.8	1337.7	1347.6	1354.2	1331.1
12.5°	1294.7	1294.7	1294.7	1306.3	1309.6	1311.2	1321.1	1341.0	1347.6	1357.5	1334.4
15°	1286.4	1286.4	1286.4	1298.0	1303.0	1303.0	1314.5	1332.8	1341.0	1350.9	1327.8
17.5°	1271.5	1271.5	1273.1	1283.0	1288.0	1288.0	1299.6	1319.5	1324.5	1336.1	1312.9
20°	1249.9	1249.9	1251.6	1261.6	1266.5	1263.2	1278.1	1294.7	1299.6	1309.6	1286.4
22.5°	1218.5	1218.5	1218.5	1228.5	1231.8	1230.1	1245.0	1259.9	1259.9	1273.1	1248.3
25°	1172.1	1175.4	1172.1	1182.1	1185.4	1183.8	1197.0	1210.2	1206.9	1221.8	1197.0
27.5°	1115.9	1114.2	1114.2	1122.5	1122.5	1120.8	1130.7	1145.7	1142.3	1152.3	1129.1
30°	1038.1	1043.0	1034.7	1046.3	1041.4	1038.1	1044.7	1057.9	1052.9	1061.2	1043.0
32.5°	948.6	942.0	942.0	942.0	945.3	937.1	943.7	950.3	945.3	953.6	933.8
35°	831.1	832.8	827.8	829.5	831.1	821.2	827.8	834.4	827.8	832.8	814.5
37.5°	713.6	715.2	703.6	710.3	703.6	700.3	706.9	710.3	703.6	708.6	688.7
40°	596.0	592.7	591.0	591.0	592.7	584.4	589.4	594.3	589.4	592.7	574.5
42.5°	493.4	491.7	488.4	490.0	485.1	483.4	485.1	490.0	485.1	488.4	475.1
45°	403.9	400.6	395.7	397.3	397.3	389.1	394.0	397.3	392.4	394.0	382.4
47.5°	321.2	316.2	316.2	314.6	314.6	311.3	316.2	314.6	309.6	312.9	301.3
50°	250.0	246.7	246.7	246.7	246.7	241.7	243.4	246.7	241.7	241.7	235.1
52.5°	195.3	190.4	187.1	187.1	187.1	185.4	185.4	187.1	182.1	182.1	180.5
55°	147.3	145.7	140.7	140.7	140.7	135.8	137.4	137.4	135.8	135.8	130.8
57.5°	109.3	104.3	101.0	101.0	97.7	97.7	96.0	97.7	94.4	94.4	91.1
60°	72.8	69.5	67.9	66.2	66.2	64.6	66.2	64.6	64.6	62.9	61.3
62.5°	53.0	49.6	46.3	46.3	46.3	44.7	44.7	44.7	44.7	44.7	43.0
65°	38.1	34.8	34.8	33.1	33.1	31.5	31.5	31.5	31.5	31.5	29.8
67.5°	26.5	24.9	23.2	23.2	23.2	23.2	23.2	23.2	21.5	21.5	21.5
70°	19.9	18.2	16.5	16.5	16.5	16.5	16.5	14.9	16.5	16.5	14.9
72.5°	13.2	13.2	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
75°	9.9	9.9	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
77.5°	6.6	6.6	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
80°	5.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
82.5°	3.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0
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: P857387

CATALOG NUMBER: LX4C25D010 EX4C259035 4LBSWNH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7	1284.7
2.5°	1316.2	1314.5	1311.2	1316.2	1303.0	1298.0	1296.3	1311.2
5°	1334.4	1331.1	1331.1	1336.1	1321.1	1317.8	1314.5	1331.1
7.5°	1350.9	1347.6	1347.6	1352.6	1339.4	1336.1	1332.8	1349.3
10°	1360.9	1360.9	1360.9	1364.2	1352.6	1349.3	1347.6	1364.2
12.5°	1365.9	1365.9	1364.2	1370.8	1355.9	1355.9	1352.6	1369.2
15°	1359.2	1359.2	1359.2	1364.2	1350.9	1347.6	1347.6	1360.9
17.5°	1342.7	1342.7	1341.0	1346.0	1331.1	1331.1	1329.4	1344.3
20°	1317.8	1317.8	1314.5	1321.1	1306.3	1301.3	1299.6	1314.5
22.5°	1278.1	1276.4	1274.8	1278.1	1264.9	1261.6	1259.9	1273.1
25°	1226.8	1225.2	1221.8	1225.2	1210.2	1205.2	1205.2	1215.2
27.5°	1154.0	1154.0	1149.0	1154.0	1137.3	1135.7	1134.0	1145.7
30°	1064.5	1057.9	1054.6	1061.2	1044.7	1044.7	1041.4	1052.9
32.5°	953.6	947.0	945.3	948.6	933.8	928.8	935.4	942.0
35°	826.2	827.8	821.2	821.2	807.9	809.5	811.2	821.2
37.5°	703.6	700.3	698.6	700.3	690.4	687.1	683.8	693.7
40°	589.4	581.1	579.5	579.5	571.2	569.6	571.2	576.2
42.5°	481.7	480.1	473.5	476.8	468.5	471.8	470.2	470.2
45°	389.1	390.7	384.1	389.1	382.4	377.5	377.5	380.8
47.5°	307.9	307.9	306.3	306.3	301.3	302.9	299.6	304.6
50°	238.4	238.4	235.1	236.8	233.4	233.4	231.8	233.4
52.5°	182.1	180.5	180.5	178.8	175.5	177.2	178.8	175.5
55°	132.5	134.1	130.8	132.5	129.1	130.8	129.1	130.8
57.5°	91.1	92.7	89.4	92.7	89.4	91.1	89.4	89.4
60°	62.9	62.9	61.3	62.9	61.3	61.3	59.6	62.9
62.5°	43.0	43.0	43.0	43.0	43.0	41.4	43.0	43.0
65°	31.5	29.8	29.8	29.8	29.8	29.8	29.8	29.8
67.5°	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
70°	14.9	14.9	14.9	14.9	14.9	14.9	14.9	14.9
72.5°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
75°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
77.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
80°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	0.0	1.7	0.0	0.0	0.0
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)