

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: P857366

Luminaire Tested: **LX4C25D010 EX4C259030 4LBSWNH**

Issue Date: 2/18/2022

Test Information

Test Method: LM-79-08
Report Number: P857366
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 EX4C259030 4LBSWNH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

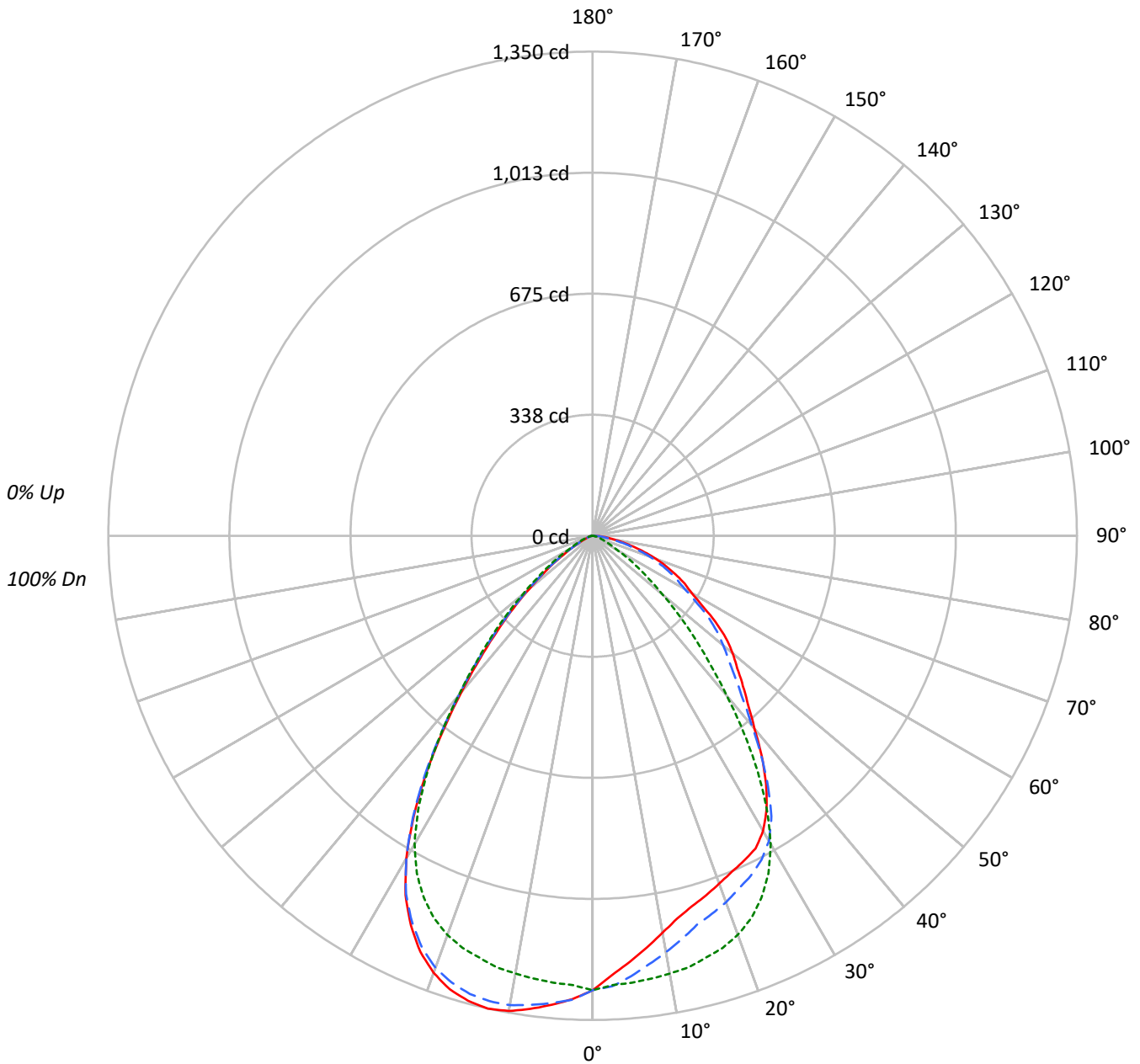
Lumens per Lamp: N/A
Luminaire Lumens: 2221.0 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V):
Input Current (A_{in}): 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			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	100	100	100
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89	89	89	89
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70	70	70	70
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62	62	62	62
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56	56	56	56
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50	50	50	50
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46	46	46	46
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42	42	42	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38	38
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	155655	155655	155655
5°	146988	154240	161886
10°	140143	154601	167837
15°	136027	154927	170698
20°	134908	154768	169489
25°	135445	150953	162448
30°	134809	140823	147306
35°	126355	120236	121466
40°	112598	93225	91124
45°	102976	69496	65240
50°	97360	48680	43997
55°	89531	32878	27630
60°	78233	19239	15234
65°	74040	12326	8546
70°	67458	8800	5280
75°	55821	6218	3892
80°	43864	3467	2335
85°	39186	2396	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	5.4
10°-20°	343.4	15.5
20°-30°	509.1	22.9
30°-40°	509.8	23.0
40°-50°	356.3	16.0
50°-60°	212.0	9.5
60°-70°	110.6	5.0
70°-80°	49.2	2.2
80°-90°	10.7	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°	972.3	43.8
0°-40°	1482.1	66.7
0°-60°	2050.4	92.3
0°-90°	2221.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2221.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1267	1267	1267	1267	1267	
5°	1192	1233	1251	1308	1313	112
15°	1070	1123	1218	1322	1342	303
25°	999	1045	1114	1190	1198	460
35°	842	852	802	816	810	522
45°	593	563	400	387	376	460
55°	418	392	154	134	129	371
65°	255	234	42	31	29	252
75°	118	103	13	8	8	127
85°	28	21	2	2	0	31
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°	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0
2.5°	1226.2	1240.9	1226.2	1231.1	1250.7	1232.7	1242.5	1242.5	1237.7	1249.1	1257.3
5°	1191.9	1206.6	1191.9	1198.4	1219.7	1201.7	1213.2	1209.9	1211.6	1221.3	1232.7
7.5°	1157.7	1169.1	1156.0	1164.2	1183.8	1169.1	1178.8	1178.8	1180.5	1195.2	1205.0
10°	1123.4	1133.1	1123.4	1129.9	1151.1	1138.1	1144.6	1146.2	1151.1	1164.2	1178.8
12.5°	1092.3	1100.5	1090.7	1100.5	1118.4	1105.4	1113.6	1115.2	1120.1	1134.8	1151.1
15°	1069.5	1077.7	1067.9	1076.0	1092.3	1082.5	1089.0	1092.3	1095.6	1108.6	1123.4
17.5°	1051.5	1058.1	1049.9	1059.7	1072.7	1061.3	1071.1	1071.1	1076.0	1089.0	1105.4
20°	1031.9	1038.4	1031.9	1040.1	1054.8	1045.0	1053.1	1053.1	1058.1	1072.7	1087.4
22.5°	1014.0	1017.2	1014.0	1020.5	1035.2	1027.0	1031.9	1033.6	1038.4	1051.5	1064.6
25°	999.2	1005.8	1002.5	1009.0	1018.8	1010.7	1015.6	1017.2	1022.1	1033.6	1045.0
27.5°	982.9	986.2	982.9	991.1	999.2	992.7	997.6	996.0	999.2	1009.0	1018.8
30°	950.3	953.6	953.6	958.4	965.0	961.7	966.6	961.7	965.0	973.1	982.9
32.5°	902.9	904.6	906.2	911.1	916.0	911.1	914.4	914.4	914.4	920.9	927.4
35°	842.5	845.8	844.2	847.4	852.3	850.7	850.7	849.0	845.8	849.0	852.3
37.5°	774.0	769.0	769.0	774.0	777.2	770.7	774.0	770.7	770.7	772.3	772.3
40°	702.1	697.2	702.1	703.7	705.3	702.1	700.5	697.2	692.3	693.9	690.7
42.5°	641.7	638.4	640.1	640.1	641.7	638.4	640.1	633.5	628.6	625.3	620.5
45°	592.7	587.8	592.7	589.4	589.4	587.8	586.2	582.9	576.4	571.5	563.3
47.5°	547.0	547.0	548.6	548.6	548.6	545.3	545.3	538.8	532.3	525.7	514.3
50°	509.4	506.2	512.7	512.7	507.8	506.2	507.8	499.6	494.8	486.6	475.1
52.5°	468.6	468.6	470.2	470.2	468.6	465.3	467.0	460.5	455.5	447.4	435.9
55°	418.0	414.8	419.6	419.6	418.0	416.4	418.0	413.1	408.2	401.7	391.8
57.5°	360.9	359.2	362.5	364.1	360.9	360.9	362.5	357.6	355.9	349.4	339.6
60°	318.4	316.8	320.0	321.7	318.4	318.4	318.4	311.8	308.6	302.0	295.5
62.5°	289.0	287.4	290.6	289.0	287.4	285.7	287.4	280.9	277.6	271.1	264.5
65°	254.7	256.3	258.0	258.0	256.3	254.7	254.7	251.5	248.2	241.7	233.5
67.5°	222.0	222.0	223.7	225.3	223.7	223.7	223.7	218.8	215.5	210.6	200.8
70°	187.8	186.1	191.1	191.1	187.8	189.4	187.8	186.1	182.9	176.3	168.2
72.5°	151.8	151.8	153.5	153.5	151.8	151.8	151.8	150.2	145.3	142.0	133.9
75°	117.6	117.6	119.2	120.8	117.6	117.6	119.2	115.9	112.6	107.8	102.9
77.5°	88.2	86.5	88.2	88.2	86.5	86.5	86.5	84.9	83.3	78.3	73.5
80°	62.0	60.4	62.0	62.0	62.0	60.4	60.4	58.8	58.8	55.5	50.6
82.5°	42.4	40.8	42.4	42.4	42.4	40.8	40.8	40.8	39.2	37.6	34.3
85°	27.8	26.1	26.1	27.8	26.1	26.1	26.1	26.1	24.5	22.8	21.2
87.5°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	11.5	11.5	11.5	9.8
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°	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0
2.5°	1250.7	1247.5	1257.3	1254.0	1255.6	1247.5	1260.5	1254.0	1262.1	1254.0	1270.3
5°	1229.5	1226.2	1240.9	1239.3	1240.9	1234.4	1249.1	1247.5	1257.3	1250.7	1268.6
7.5°	1206.6	1203.4	1219.7	1221.3	1224.6	1218.1	1237.7	1237.7	1247.5	1245.8	1265.4
10°	1180.5	1182.1	1198.4	1201.7	1208.3	1205.0	1222.9	1227.9	1240.9	1239.3	1263.8
12.5°	1156.0	1156.0	1177.2	1183.8	1188.6	1187.0	1208.3	1214.8	1229.5	1232.7	1255.6
15°	1131.5	1133.1	1152.7	1162.5	1169.1	1167.5	1190.3	1198.4	1216.4	1218.1	1245.8
17.5°	1111.9	1110.3	1131.5	1139.7	1149.5	1147.9	1172.3	1182.1	1200.1	1205.0	1231.1
20°	1095.6	1094.0	1113.6	1123.4	1129.9	1128.3	1152.7	1164.2	1180.5	1183.8	1209.9
22.5°	1076.0	1072.7	1092.3	1100.5	1107.0	1105.4	1126.6	1134.8	1151.1	1154.4	1178.8
25°	1053.1	1049.9	1067.9	1072.7	1077.7	1074.4	1092.3	1097.2	1110.3	1113.6	1138.1
27.5°	1027.0	1018.8	1033.6	1033.6	1036.8	1031.9	1045.0	1049.9	1061.3	1061.3	1084.2
30°	986.2	974.8	982.9	981.3	982.9	976.4	984.6	986.2	994.4	992.7	1009.0
32.5°	929.0	912.7	917.6	912.7	907.9	898.1	907.9	904.6	911.1	904.6	919.2
35°	850.7	834.4	832.7	826.2	821.3	813.1	813.1	805.0	806.6	801.7	811.5
37.5°	765.8	744.6	741.3	728.3	720.1	710.3	710.3	703.7	695.5	692.3	700.5
40°	682.5	659.6	651.5	630.3	622.1	612.3	605.7	597.6	594.4	581.3	587.8
42.5°	610.7	586.2	568.2	545.3	537.2	522.5	512.7	502.9	498.0	483.3	489.8
45°	550.3	520.9	501.3	471.8	460.5	444.1	429.4	418.0	406.6	400.0	396.8
47.5°	499.6	468.6	442.5	409.8	391.8	377.2	357.6	346.1	331.5	323.3	318.4
50°	457.2	422.9	393.5	355.9	338.0	321.7	298.8	280.9	267.8	254.7	251.5
52.5°	419.6	383.7	351.1	308.6	287.4	267.8	243.3	223.7	212.2	197.6	195.9
55°	375.5	344.5	308.6	264.5	243.3	223.7	197.6	178.0	163.3	153.5	150.2
57.5°	328.2	298.8	264.5	220.4	199.2	178.0	153.5	135.5	122.4	114.3	112.6
60°	284.1	256.3	223.7	179.6	158.3	140.4	114.3	96.3	84.9	78.3	75.1
62.5°	251.5	225.3	194.3	153.5	133.9	115.9	91.5	75.1	65.3	58.8	55.5
65°	220.4	194.3	166.5	129.0	112.6	96.3	73.5	58.8	49.0	42.4	39.2
67.5°	187.8	164.9	138.8	107.8	91.5	78.3	58.8	45.7	37.6	32.6	29.4
70°	155.1	133.9	112.6	86.5	75.1	62.0	45.7	35.9	27.8	24.5	21.2
72.5°	122.4	106.1	88.2	66.9	57.2	49.0	35.9	26.1	21.2	18.0	14.7
75°	91.5	80.0	65.3	50.6	42.4	35.9	26.1	19.6	16.3	13.1	11.5
77.5°	65.3	55.5	45.7	34.3	31.0	26.1	18.0	14.7	11.5	8.2	6.5
80°	44.1	39.2	31.0	24.5	19.6	18.0	13.1	9.8	6.5	4.9	4.9
82.5°	29.4	24.5	19.6	14.7	13.1	11.5	8.2	6.5	4.9	3.3	3.3
85°	18.0	14.7	11.5	8.2	8.2	6.5	4.9	3.3	1.7	1.7	1.7
87.5°	8.2	6.5	4.9	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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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0
2.5°	1283.4	1273.6	1267.0	1275.2	1278.4	1273.6	1278.4	1286.6	1294.8	1296.4	1273.6
5°	1285.0	1275.2	1271.9	1281.7	1283.4	1281.7	1286.6	1298.1	1307.9	1311.1	1288.3
7.5°	1285.0	1278.4	1276.8	1288.3	1289.9	1288.3	1296.4	1309.5	1319.3	1325.8	1303.0
10°	1281.7	1278.4	1280.1	1289.9	1293.2	1293.2	1304.6	1319.3	1329.1	1335.6	1312.7
12.5°	1276.8	1276.8	1276.8	1288.3	1291.6	1293.2	1303.0	1322.5	1329.1	1338.9	1316.0
15°	1268.6	1268.6	1268.6	1280.1	1285.0	1285.0	1296.4	1314.4	1322.5	1332.3	1309.5
17.5°	1254.0	1254.0	1255.6	1265.4	1270.3	1270.3	1281.7	1301.4	1306.2	1317.7	1294.8
20°	1232.7	1232.7	1234.4	1244.2	1249.1	1245.8	1260.5	1276.8	1281.7	1291.6	1268.6
22.5°	1201.7	1201.7	1201.7	1211.6	1214.8	1213.2	1227.9	1242.5	1242.5	1255.6	1231.1
25°	1156.0	1159.3	1156.0	1165.8	1169.1	1167.5	1180.5	1193.6	1190.3	1205.0	1180.5
27.5°	1100.5	1098.8	1098.8	1107.0	1107.0	1105.4	1115.2	1129.9	1126.6	1136.4	1113.6
30°	1023.8	1028.6	1020.5	1031.9	1027.0	1023.8	1030.3	1043.3	1038.4	1046.6	1028.6
32.5°	935.6	929.0	929.0	929.0	932.3	924.2	930.7	937.2	932.3	940.5	920.9
35°	819.7	821.3	816.4	818.1	819.7	809.9	816.4	822.9	816.4	821.3	803.3
37.5°	703.7	705.3	693.9	700.5	693.9	690.7	697.2	700.5	693.9	698.8	679.2
40°	587.8	584.6	582.9	582.9	584.6	576.4	581.3	586.2	581.3	584.6	566.6
42.5°	486.6	485.0	481.7	483.3	478.4	476.8	478.4	483.3	478.4	481.7	468.6
45°	398.4	395.1	390.2	391.8	391.8	383.7	388.6	391.8	387.0	388.6	377.2
47.5°	316.8	311.8	311.8	310.2	310.2	307.0	311.8	310.2	305.3	308.6	297.2
50°	246.5	243.3	243.3	243.3	243.3	238.4	240.0	243.3	238.4	238.4	231.8
52.5°	192.7	187.8	184.5	184.5	184.5	182.9	182.9	184.5	179.6	179.6	178.0
55°	145.3	143.7	138.8	138.8	138.8	133.9	135.5	135.5	133.9	133.9	129.0
57.5°	107.8	102.9	99.6	99.6	96.3	96.3	94.7	96.3	93.1	93.1	89.8
60°	71.8	68.5	66.9	65.3	65.3	63.7	65.3	63.7	63.7	62.0	60.4
62.5°	52.2	49.0	45.7	45.7	45.7	44.1	44.1	44.1	44.1	44.1	42.4
65°	37.6	34.3	34.3	32.6	32.6	31.0	31.0	31.0	31.0	31.0	29.4
67.5°	26.1	24.5	22.8	22.8	22.8	22.8	22.8	22.8	21.2	21.2	21.2
70°	19.6	18.0	16.3	16.3	16.3	16.3	16.3	14.7	16.3	16.3	14.7
72.5°	13.1	13.1	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
75°	9.8	9.8	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
77.5°	6.5	6.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
80°	4.9	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: P857366

CATALOG NUMBER: LX4C25D010 EX4C259030 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0	1267.0
2.5°	1298.1	1296.4	1293.2	1298.1	1285.0	1280.1	1278.4	1293.2
5°	1316.0	1312.7	1312.7	1317.7	1303.0	1299.7	1296.4	1312.7
7.5°	1332.3	1329.1	1329.1	1334.0	1320.9	1317.7	1314.4	1330.7
10°	1342.1	1342.1	1342.1	1345.4	1334.0	1330.7	1329.1	1345.4
12.5°	1347.1	1347.1	1345.4	1351.9	1337.3	1337.3	1334.0	1350.3
15°	1340.5	1340.5	1340.5	1345.4	1332.3	1329.1	1329.1	1342.1
17.5°	1324.2	1324.2	1322.5	1327.5	1312.7	1312.7	1311.1	1325.8
20°	1299.7	1299.7	1296.4	1303.0	1288.3	1283.4	1281.7	1296.4
22.5°	1260.5	1258.9	1257.3	1260.5	1247.5	1244.2	1242.5	1255.6
25°	1209.9	1208.3	1205.0	1208.3	1193.6	1188.6	1188.6	1198.4
27.5°	1138.1	1138.1	1133.1	1138.1	1121.7	1120.1	1118.4	1129.9
30°	1049.9	1043.3	1040.1	1046.6	1030.3	1030.3	1027.0	1038.4
32.5°	940.5	934.0	932.3	935.6	920.9	916.0	922.5	929.0
35°	814.8	816.4	809.9	809.9	796.8	798.4	800.1	809.9
37.5°	693.9	690.7	689.0	690.7	680.9	677.6	674.4	684.2
40°	581.3	573.1	571.5	571.5	563.3	561.7	563.3	568.2
42.5°	475.1	473.5	467.0	470.2	462.1	465.3	463.7	463.7
45°	383.7	385.3	378.8	383.7	377.2	372.3	372.3	375.5
47.5°	303.7	303.7	302.0	302.0	297.2	298.8	295.5	300.4
50°	235.1	235.1	231.8	233.5	230.2	230.2	228.6	230.2
52.5°	179.6	178.0	178.0	176.3	173.1	174.7	176.3	173.1
55°	130.6	132.2	129.0	130.6	127.4	129.0	127.4	129.0
57.5°	89.8	91.5	88.2	91.5	88.2	89.8	88.2	88.2
60°	62.0	62.0	60.4	62.0	60.4	60.4	58.8	62.0
62.5°	42.4	42.4	42.4	42.4	42.4	40.8	42.4	42.4
65°	31.0	29.4	29.4	29.4	29.4	29.4	29.4	29.4
67.5°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2
70°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
72.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
75°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
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)