

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: P857345

Luminaire Tested: **LX4C25D010 EX4C259027 4LBSWNH**

Issue Date: 2/18/2022

Test Information

Test Method: LM-79-08
Report Number: P857345
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 EX4C259027 4LBSWNH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LCSW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

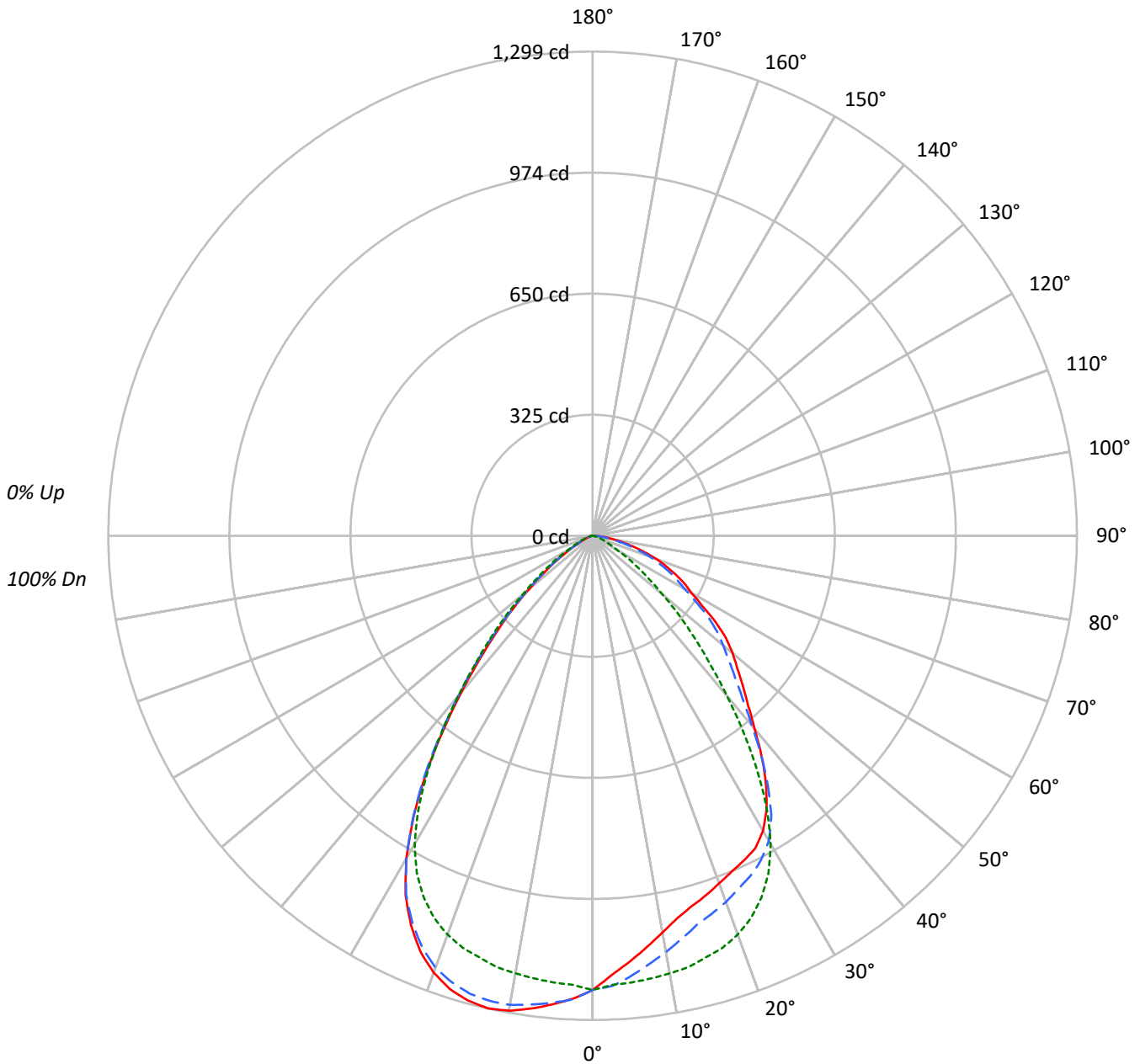
Lumens per Lamp: N/A
Luminaire Lumens: 2136.0 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	149709	149709	149709
5°	141365	148345	155695
10°	134778	148675	161412
15°	130812	149000	164173
20°	129744	148845	163004
25°	130267	145165	156239
30°	129645	135433	141675
35°	121526	115632	116817
40°	108284	89649	87644
45°	99032	66838	62738
50°	93633	46826	42315
55°	86104	31614	26559
60°	75235	18502	14644
65°	71221	11860	8227
70°	64871	8477	5101
75°	53685	5981	3750
80°	42166	3325	2193
85°	37636	2255	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	5.4
10°-20°	330.3	15.5
20°-30°	489.6	22.9
30°-40°	490.3	23.0
40°-50°	342.7	16.0
50°-60°	203.9	9.5
60°-70°	106.4	5.0
70°-80°	47.3	2.2
80°-90°	10.3	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°	935.1	43.8
0°-40°	1425.4	66.7
0°-60°	1971.9	92.3
0°-90°	2136.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2136.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1219	1219	1219	1219	1219	
5°	1146	1186	1203	1258	1262	107
15°	1028	1080	1172	1272	1291	291
25°	961	1005	1071	1145	1153	443
35°	810	820	771	785	779	502
45°	570	542	385	372	361	443
55°	402	377	148	129	124	357
65°	245	225	41	30	28	242
75°	113	99	13	8	8	122
85°	27	20	2	2	0	30
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°	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6
2.5°	1179.3	1193.4	1179.3	1184.0	1202.9	1185.6	1195.0	1195.0	1190.3	1201.3	1209.1
5°	1146.3	1160.4	1146.3	1152.6	1173.0	1155.7	1166.7	1163.6	1165.2	1174.6	1185.6
7.5°	1113.4	1124.3	1111.8	1119.6	1138.5	1124.3	1133.7	1133.7	1135.3	1149.4	1158.9
10°	1080.4	1089.8	1080.4	1086.6	1107.1	1094.5	1100.8	1102.3	1107.1	1119.6	1133.7
12.5°	1050.5	1058.4	1049.0	1058.4	1075.6	1063.1	1070.9	1072.5	1077.2	1091.4	1107.1
15°	1028.5	1036.4	1027.0	1034.8	1050.5	1041.1	1047.4	1050.5	1053.6	1066.2	1080.4
17.5°	1011.3	1017.6	1009.7	1019.1	1031.7	1020.7	1030.1	1030.1	1034.8	1047.4	1063.1
20°	992.4	998.7	992.4	1000.3	1014.4	1005.0	1012.8	1012.8	1017.6	1031.7	1045.8
22.5°	975.2	978.3	975.2	981.4	995.5	987.7	992.4	994.0	998.7	1011.3	1023.9
25°	961.0	967.3	964.1	970.4	979.8	972.0	976.7	978.3	983.0	994.0	1005.0
27.5°	945.3	948.5	945.3	953.2	961.0	954.7	959.5	957.9	961.0	970.4	979.8
30°	913.9	917.1	917.1	921.7	928.1	924.9	929.6	924.9	928.1	935.9	945.3
32.5°	868.4	870.0	871.5	876.2	880.9	876.2	879.4	879.4	879.4	885.7	891.9
35°	810.3	813.4	811.9	815.0	819.7	818.1	818.1	816.5	813.4	816.5	819.7
37.5°	744.3	739.6	739.6	744.3	747.5	741.2	744.3	741.2	741.2	742.7	742.7
40°	675.2	670.5	675.2	676.8	678.3	675.2	673.7	670.5	665.8	667.4	664.2
42.5°	617.2	614.0	615.6	615.6	617.2	614.0	615.6	609.3	604.5	601.4	596.7
45°	570.0	565.3	570.0	566.9	566.9	565.3	563.7	560.6	554.3	549.6	541.8
47.5°	526.1	526.1	527.6	527.6	527.6	524.5	524.5	518.2	511.9	505.6	494.7
50°	489.9	486.8	493.1	493.1	488.4	486.8	488.4	480.5	475.8	467.9	456.9
52.5°	450.6	450.6	452.2	452.2	450.6	447.5	449.1	442.8	438.1	430.3	419.3
55°	402.0	398.9	403.6	403.6	402.0	400.4	402.0	397.3	392.6	386.3	376.8
57.5°	347.1	345.5	348.6	350.2	347.1	347.1	348.6	343.9	342.3	336.0	326.6
60°	306.2	304.6	307.8	309.4	306.2	306.2	306.2	299.9	296.8	290.5	284.2
62.5°	277.9	276.4	279.5	277.9	276.4	274.8	276.4	270.1	267.0	260.7	254.4
65°	245.0	246.5	248.1	248.1	246.5	245.0	245.0	241.9	238.7	232.4	224.6
67.5°	213.5	213.5	215.1	216.7	215.1	215.1	215.1	210.4	207.3	202.6	193.2
70°	180.6	179.0	183.7	183.7	180.6	182.1	180.6	179.0	175.9	169.6	161.8
72.5°	146.0	146.0	147.6	147.6	146.0	146.0	146.0	144.5	139.7	136.6	128.8
75°	113.1	113.1	114.6	116.2	113.1	113.1	114.6	111.5	108.3	103.7	98.9
77.5°	84.8	83.2	84.8	84.8	83.2	83.2	83.2	81.7	80.1	75.3	70.7
80°	59.6	58.1	59.6	59.6	59.6	58.1	58.1	56.5	56.5	53.4	48.7
82.5°	40.8	39.3	40.8	40.8	40.8	39.3	39.3	39.3	37.7	36.1	33.0
85°	26.7	25.1	25.1	26.7	25.1	25.1	25.1	25.1	23.6	22.0	20.4
87.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	11.0	11.0	11.0	9.4
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°	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6
2.5°	1202.9	1199.7	1209.1	1206.0	1207.5	1199.7	1212.3	1206.0	1213.8	1206.0	1221.7
5°	1182.4	1179.3	1193.4	1191.8	1193.4	1187.2	1201.3	1199.7	1209.1	1202.9	1220.1
7.5°	1160.4	1157.3	1173.0	1174.6	1177.7	1171.5	1190.3	1190.3	1199.7	1198.1	1217.0
10°	1135.3	1136.9	1152.6	1155.7	1162.0	1158.9	1176.1	1180.9	1193.4	1191.8	1215.4
12.5°	1111.8	1111.8	1132.2	1138.5	1143.2	1141.6	1162.0	1168.3	1182.4	1185.6	1207.5
15°	1088.2	1089.8	1108.6	1118.0	1124.3	1122.8	1144.8	1152.6	1169.9	1171.5	1198.1
17.5°	1069.3	1067.8	1088.2	1096.1	1105.5	1103.9	1127.5	1136.9	1154.2	1158.9	1184.0
20°	1053.6	1052.1	1070.9	1080.4	1086.6	1085.1	1108.6	1119.6	1135.3	1138.5	1163.6
22.5°	1034.8	1031.7	1050.5	1058.4	1064.7	1063.1	1083.5	1091.4	1107.1	1110.2	1133.7
25°	1012.8	1009.7	1027.0	1031.7	1036.4	1033.3	1050.5	1055.2	1067.8	1070.9	1094.5
27.5°	987.7	979.8	994.0	994.0	997.1	992.4	1005.0	1009.7	1020.7	1020.7	1042.7
30°	948.5	937.5	945.3	943.8	945.3	939.0	946.9	948.5	956.3	954.7	970.4
32.5°	893.5	877.8	882.5	877.8	873.1	863.7	873.1	870.0	876.2	870.0	884.1
35°	818.1	802.4	800.8	794.6	789.9	782.0	782.0	774.2	775.7	771.0	780.5
37.5°	736.5	716.1	712.9	700.4	692.5	683.1	683.1	676.8	668.9	665.8	673.7
40°	656.4	634.4	626.6	606.1	598.3	588.8	582.6	574.7	571.6	559.0	565.3
42.5°	587.3	563.7	546.5	524.5	516.6	502.5	493.1	483.6	479.0	464.8	471.1
45°	529.2	500.9	482.1	453.8	442.8	427.1	413.0	402.0	391.0	384.7	381.6
47.5°	480.5	450.6	425.5	394.1	376.8	362.7	343.9	332.9	318.8	310.9	306.2
50°	439.7	406.7	378.4	342.3	325.1	309.4	287.3	270.1	257.5	245.0	241.9
52.5°	403.6	369.0	337.6	296.8	276.4	257.5	234.0	215.1	204.1	190.0	188.4
55°	361.1	331.4	296.8	254.4	234.0	215.1	190.0	171.2	157.0	147.6	144.5
57.5°	315.7	287.3	254.4	212.0	191.6	171.2	147.6	130.3	117.8	109.9	108.3
60°	273.2	246.5	215.1	172.7	152.3	135.1	109.9	92.6	81.7	75.3	72.2
62.5°	241.9	216.7	186.9	147.6	128.8	111.5	88.0	72.2	62.8	56.5	53.4
65°	212.0	186.9	160.2	124.0	108.3	92.6	70.7	56.5	47.1	40.8	37.7
67.5°	180.6	158.6	133.5	103.7	88.0	75.3	56.5	44.0	36.1	31.4	28.3
70°	149.1	128.8	108.3	83.2	72.2	59.6	44.0	34.5	26.7	23.6	20.4
72.5°	117.8	102.1	84.8	64.4	55.0	47.1	34.5	25.1	20.4	17.3	14.2
75°	88.0	76.9	62.8	48.7	40.8	34.5	25.1	18.8	15.7	12.6	11.0
77.5°	62.8	53.4	44.0	33.0	29.9	25.1	17.3	14.2	11.0	7.9	6.3
80°	42.4	37.7	29.9	23.6	18.8	17.3	12.6	9.4	6.3	4.7	4.7
82.5°	28.3	23.6	18.8	14.2	12.6	11.0	7.9	6.3	4.7	3.1	3.1
85°	17.3	14.2	11.0	7.9	7.9	6.3	4.7	3.1	1.6	1.6	1.6
87.5°	7.9	6.3	4.7	3.1	3.1	1.6	1.6	1.6	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°	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6
2.5°	1234.3	1224.8	1218.6	1226.4	1229.5	1224.8	1229.5	1237.4	1245.3	1246.8	1224.8
5°	1235.9	1226.4	1223.2	1232.7	1234.3	1232.7	1237.4	1248.4	1257.8	1261.0	1239.0
7.5°	1235.9	1229.5	1228.0	1239.0	1240.5	1239.0	1246.8	1259.4	1268.8	1275.1	1253.1
10°	1232.7	1229.5	1231.1	1240.5	1243.7	1243.7	1254.7	1268.8	1278.2	1284.5	1262.5
12.5°	1228.0	1228.0	1228.0	1239.0	1242.1	1243.7	1253.1	1271.9	1278.2	1287.6	1265.6
15°	1220.1	1220.1	1220.1	1231.1	1235.9	1235.9	1246.8	1264.1	1271.9	1281.3	1259.4
17.5°	1206.0	1206.0	1207.5	1217.0	1221.7	1221.7	1232.7	1251.6	1256.2	1267.2	1245.3
20°	1185.6	1185.6	1187.2	1196.6	1201.3	1198.1	1212.3	1228.0	1232.7	1242.1	1220.1
22.5°	1155.7	1155.7	1155.7	1165.2	1168.3	1166.7	1180.9	1195.0	1195.0	1207.5	1184.0
25°	1111.8	1114.9	1111.8	1121.2	1124.3	1122.8	1135.3	1147.9	1144.8	1158.9	1135.3
27.5°	1058.4	1056.8	1056.8	1064.7	1064.7	1063.1	1072.5	1086.6	1083.5	1092.9	1070.9
30°	984.6	989.3	981.4	992.4	987.7	984.6	990.9	1003.4	998.7	1006.6	989.3
32.5°	899.8	893.5	893.5	893.5	896.6	888.8	895.1	901.4	896.6	904.5	885.7
35°	788.3	789.9	785.1	786.7	788.3	778.9	785.1	791.4	785.1	789.9	772.6
37.5°	676.8	678.3	667.4	673.7	667.4	664.2	670.5	673.7	667.4	672.1	653.2
40°	565.3	562.2	560.6	560.6	562.2	554.3	559.0	563.7	559.0	562.2	544.9
42.5°	467.9	466.4	463.3	464.8	460.1	458.5	460.1	464.8	460.1	463.3	450.6
45°	383.1	380.0	375.3	376.8	376.8	369.0	373.7	376.8	372.2	373.7	362.7
47.5°	304.6	299.9	299.9	298.4	298.4	295.2	299.9	298.4	293.6	296.8	285.8
50°	237.1	234.0	234.0	234.0	234.0	229.2	230.8	234.0	229.2	229.2	223.0
52.5°	185.3	180.6	177.5	177.5	177.5	175.9	175.9	177.5	172.7	172.7	171.2
55°	139.7	138.2	133.5	133.5	133.5	128.8	130.3	130.3	128.8	128.8	124.0
57.5°	103.7	98.9	95.8	95.8	92.6	92.6	91.1	92.6	89.5	89.5	86.4
60°	69.1	65.9	64.4	62.8	62.8	61.2	62.8	61.2	61.2	59.6	58.1
62.5°	50.2	47.1	44.0	44.0	44.0	42.4	42.4	42.4	42.4	42.4	40.8
65°	36.1	33.0	33.0	31.4	31.4	29.9	29.9	29.9	29.9	29.9	28.3
67.5°	25.1	23.6	22.0	22.0	22.0	22.0	22.0	22.0	20.4	20.4	20.4
70°	18.8	17.3	15.7	15.7	15.7	15.7	15.7	14.2	15.7	15.7	14.2
72.5°	12.6	12.6	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
75°	9.4	9.4	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
77.5°	6.3	6.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
80°	4.7	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	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: P857345

CATALOG NUMBER: LX4C25D010 EX4C259027 4LBSWNH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6	1218.6
2.5°	1248.4	1246.8	1243.7	1248.4	1235.9	1231.1	1229.5	1243.7
5°	1265.6	1262.5	1262.5	1267.2	1253.1	1249.9	1246.8	1262.5
7.5°	1281.3	1278.2	1278.2	1282.9	1270.4	1267.2	1264.1	1279.8
10°	1290.8	1290.8	1290.8	1293.9	1282.9	1279.8	1278.2	1293.9
12.5°	1295.5	1295.5	1293.9	1300.2	1286.1	1286.1	1282.9	1298.6
15°	1289.2	1289.2	1289.2	1293.9	1281.3	1278.2	1278.2	1290.8
17.5°	1273.5	1273.5	1271.9	1276.7	1262.5	1262.5	1261.0	1275.1
20°	1249.9	1249.9	1246.8	1253.1	1239.0	1234.3	1232.7	1246.8
22.5°	1212.3	1210.7	1209.1	1212.3	1199.7	1196.6	1195.0	1207.5
25°	1163.6	1162.0	1158.9	1162.0	1147.9	1143.2	1143.2	1152.6
27.5°	1094.5	1094.5	1089.8	1094.5	1078.8	1077.2	1075.6	1086.6
30°	1009.7	1003.4	1000.3	1006.6	990.9	990.9	987.7	998.7
32.5°	904.5	898.2	896.6	899.8	885.7	880.9	887.2	893.5
35°	783.6	785.1	778.9	778.9	766.3	767.8	769.4	778.9
37.5°	667.4	664.2	662.6	664.2	654.8	651.7	648.6	658.0
40°	559.0	551.2	549.6	549.6	541.8	540.2	541.8	546.5
42.5°	456.9	455.4	449.1	452.2	444.4	447.5	446.0	446.0
45°	369.0	370.6	364.3	369.0	362.7	358.0	358.0	361.1
47.5°	292.1	292.1	290.5	290.5	285.8	287.3	284.2	288.9
50°	226.1	226.1	223.0	224.6	221.4	221.4	219.8	221.4
52.5°	172.7	171.2	171.2	169.6	166.4	168.0	169.6	166.4
55°	125.6	127.2	124.0	125.6	122.5	124.0	122.5	124.0
57.5°	86.4	88.0	84.8	88.0	84.8	86.4	84.8	84.8
60°	59.6	59.6	58.1	59.6	58.1	58.1	56.5	59.6
62.5°	40.8	40.8	40.8	40.8	40.8	39.3	40.8	40.8
65°	29.9	28.3	28.3	28.3	28.3	28.3	28.3	28.3
67.5°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4
70°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	14.2
72.5°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
75°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
80°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	1.6	1.6	1.6	0.0	1.6	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)