

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: P857419

Luminaire Tested: **LX4C25D010 EX4C259050 4LBLWW\***

Issue Date: 2/9/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P857419  
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: LX4C25D010 EX4C259050 4LBLWW\*  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LRLWW TRIM WITH \* FINISH  
Light Source: -  
Ballast/Driver: -

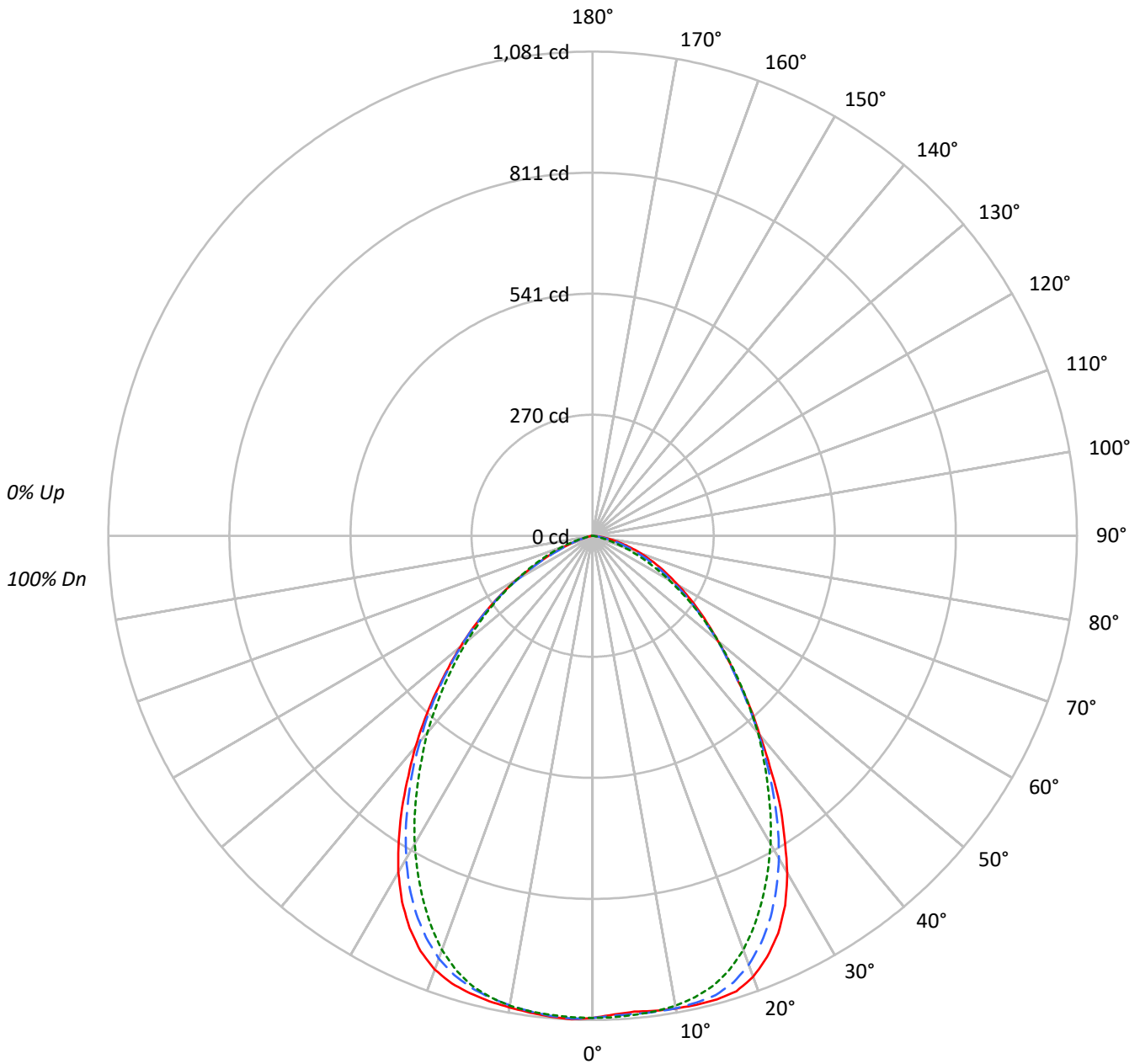
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2064.0 lumens  
Efficiency: N/A  
Efficacy: 65.5 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): 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

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CATALOG NUMBER: LX4C25D010 EX4C259050 4LBLWW\*

### 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	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°	132264	132264	132264
5°	131524	132412	132917
10°	133693	132895	133394
15°	136307	132300	134513
20°	137000	128594	134725
25°	132789	121443	130972
30°	123247	112693	123020
35°	109138	102224	111193
40°	93033	92071	98614
45°	79938	80842	85898
50°	69780	69933	73641
55°	61643	59052	61044
60°	54031	48183	47987
65°	47820	37384	33256
70°	40805	25719	19756
75°	32990	13813	9019
80°	22569	3467	2264
85°	6907	1128	1128



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.3	5.0
10°-20°	296.2	14.4
20°-30°	428.0	20.7
30°-40°	442.4	21.4
40°-50°	365.6	17.7
50°-60°	252.3	12.2
60°-70°	132.1	6.4
70°-80°	41.6	2.0
80°-90°	3.5	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°	826.5	40.0
0°-40°	1268.9	61.5
0°-60°	1886.8	91.4
0°-90°	2064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2064.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1077	1077	1077	1077	1077	
5°	1066	1072	1074	1076	1078	102
15°	1072	1062	1040	1045	1058	302
25°	980	940	896	932	966	447
35°	728	703	682	717	741	452
45°	460	458	465	487	494	359
55°	288	279	276	283	285	259
65°	164	149	129	107	114	163
75°	70	55	29	20	19	75
85°	5	2	1	1	1	10
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°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6
2.5°	1069.7	1070.1	1070.1	1070.9	1070.9	1070.9	1071.3	1071.3	1071.7	1072.1	1072.5
5°	1066.5	1066.5	1067.3	1067.7	1068.5	1068.9	1069.7	1070.1	1070.9	1071.3	1071.7
7.5°	1069.7	1069.7	1070.1	1070.5	1070.5	1070.9	1070.9	1071.3	1071.7	1072.1	1072.1
10°	1071.7	1071.7	1071.7	1071.7	1072.1	1072.1	1072.1	1071.7	1071.7	1071.7	1071.3
12.5°	1072.5	1072.5	1072.1	1071.7	1072.1	1071.7	1071.7	1070.5	1069.7	1068.9	1067.7
15°	1071.7	1071.7	1071.3	1070.9	1070.5	1069.7	1069.3	1067.3	1065.7	1063.2	1061.6
17.5°	1066.5	1065.7	1064.9	1064.0	1062.4	1061.2	1060.4	1056.8	1053.9	1049.9	1045.5
20°	1047.9	1047.1	1045.9	1043.8	1041.8	1040.2	1037.8	1032.5	1029.7	1023.6	1019.2
22.5°	1017.6	1016.7	1017.2	1013.5	1009.5	1007.0	1005.4	1001.0	996.1	988.4	983.6
25°	979.6	977.1	977.1	971.5	969.4	967.8	965.8	960.6	953.3	946.4	939.9
27.5°	930.2	927.0	925.4	924.6	919.7	916.1	913.3	909.2	903.1	897.1	888.2
30°	868.8	868.4	866.4	862.7	859.1	857.5	854.2	847.4	841.7	837.2	831.6
32.5°	796.4	796.0	796.0	796.0	793.6	793.2	788.3	784.7	780.2	773.4	769.7
35°	727.7	727.3	727.7	721.6	720.0	718.8	718.4	716.0	709.9	706.7	703.4
37.5°	650.1	651.3	650.5	648.9	650.9	647.2	650.1	644.8	642.4	641.6	637.9
40°	580.1	583.4	580.1	580.5	582.6	578.9	578.9	578.1	576.5	575.7	574.9
42.5°	520.3	516.3	518.7	516.7	518.7	517.5	515.4	516.7	517.1	515.4	515.0
45°	460.1	460.9	461.7	460.5	460.5	459.3	462.5	460.5	460.5	460.9	458.0
47.5°	411.1	409.9	410.7	409.9	410.3	409.5	410.3	410.7	409.9	409.9	407.5
50°	365.1	364.3	367.1	364.7	364.7	364.3	364.7	363.8	362.6	362.6	363.4
52.5°	325.0	323.4	323.0	325.0	322.2	322.2	322.6	321.8	320.2	319.4	317.4
55°	287.8	287.4	287.8	286.2	285.4	285.4	283.4	282.6	282.2	280.2	278.9
57.5°	253.1	251.9	252.3	251.9	250.2	249.8	248.2	248.2	246.6	245.0	243.0
60°	219.9	219.9	221.1	219.5	218.3	217.5	216.7	215.9	213.1	210.2	207.8
62.5°	190.4	190.8	190.4	189.2	188.4	187.6	186.8	184.3	181.9	180.3	177.5
65°	164.5	164.1	162.9	162.1	160.1	160.1	158.5	157.3	154.4	152.0	149.2
67.5°	137.9	137.0	137.0	137.0	134.6	134.2	133.4	131.0	128.6	125.3	122.9
70°	113.6	114.4	113.2	112.0	110.8	110.4	109.2	106.7	103.9	100.7	98.6
72.5°	90.6	91.4	90.2	89.7	87.3	86.5	86.1	84.1	80.9	78.8	75.6
75°	69.5	69.9	69.1	68.3	66.7	66.3	64.3	62.7	60.6	57.4	54.6
77.5°	50.1	49.3	49.3	47.7	46.1	46.1	45.7	43.3	40.4	38.0	35.6
80°	31.9	31.5	30.3	29.5	28.3	27.9	27.5	25.5	23.4	21.8	20.2
82.5°	16.2	15.8	15.4	15.0	14.1	13.3	13.7	12.1	11.3	9.7	8.5
85°	4.9	5.3	5.3	4.9	4.4	4.4	4.4	4.0	3.2	2.8	2.4
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°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6
2.5°	1072.9	1073.3	1073.7	1074.2	1074.2	1074.6	1075.0	1075.4	1075.8	1075.8	1076.2
5°	1072.1	1072.9	1072.9	1073.3	1073.3	1073.3	1073.7	1073.7	1073.7	1073.7	1074.2
7.5°	1072.5	1072.5	1072.5	1072.1	1072.1	1071.7	1071.7	1071.7	1070.9	1070.9	1070.9
10°	1070.5	1070.1	1069.7	1068.9	1068.5	1068.1	1067.3	1066.5	1065.7	1065.3	1064.5
12.5°	1066.5	1064.9	1063.2	1061.6	1060.8	1060.4	1058.8	1057.6	1056.4	1055.2	1054.3
15°	1058.4	1056.0	1053.1	1049.9	1049.1	1048.3	1045.5	1043.0	1041.4	1040.2	1038.2
17.5°	1042.2	1037.4	1034.1	1029.3	1027.3	1026.4	1022.0	1019.6	1016.7	1015.9	1014.3
20°	1013.5	1009.1	1003.0	998.6	996.1	993.7	990.1	986.8	983.6	983.6	981.6
22.5°	977.5	971.9	964.2	958.5	958.1	953.3	950.0	946.4	945.2	942.8	942.8
25°	932.3	927.4	918.9	914.1	911.6	910.4	905.2	900.3	897.9	895.9	897.5
27.5°	882.1	874.8	868.4	862.3	860.3	857.9	853.0	851.0	846.5	846.1	845.7
30°	824.7	817.4	811.0	808.1	804.1	802.1	798.4	796.0	794.4	794.4	793.6
32.5°	764.5	758.0	754.8	748.7	746.7	743.9	741.4	739.0	739.8	739.0	739.4
35°	699.4	697.8	691.7	688.1	688.1	687.7	683.6	682.0	681.2	681.6	683.6
37.5°	637.5	632.7	628.6	626.2	628.2	625.8	625.4	625.4	627.8	626.2	629.5
40°	571.6	571.2	569.6	570.4	570.8	568.0	568.8	569.2	570.8	574.1	574.5
42.5°	514.2	513.8	513.8	513.8	513.0	511.4	513.0	515.9	515.4	517.9	519.9
45°	458.8	458.0	459.7	458.4	460.9	461.7	460.5	461.3	463.7	465.3	468.6
47.5°	408.3	408.3	408.7	409.5	407.1	409.1	409.9	411.5	412.8	413.6	415.2
50°	361.4	361.4	360.6	360.6	360.6	361.8	360.2	362.2	362.6	365.9	367.9
52.5°	318.2	316.1	317.4	316.5	314.9	314.1	314.9	315.3	317.8	318.6	321.0
55°	276.9	276.9	273.7	272.9	274.1	273.7	273.3	273.3	274.5	275.7	277.7
57.5°	240.5	238.1	235.7	235.3	234.1	234.5	234.5	234.1	233.3	233.7	234.1
60°	206.2	204.6	200.9	200.9	200.5	200.1	198.1	197.7	195.7	196.1	194.5
62.5°	174.6	173.8	169.0	167.4	167.4	166.2	164.1	163.7	160.9	160.9	159.3
65°	146.3	143.9	141.1	138.3	138.3	136.6	135.4	131.8	129.8	128.6	126.1
67.5°	120.5	116.8	114.0	111.6	110.0	109.6	106.7	104.3	101.1	99.0	95.4
70°	95.4	92.6	89.7	87.3	85.7	84.1	81.3	77.6	75.2	71.6	69.1
72.5°	72.0	69.5	67.1	63.9	61.9	60.6	57.8	54.6	50.5	48.1	44.9
75°	51.7	48.9	45.7	42.9	41.6	40.4	37.2	34.8	31.9	29.1	25.9
77.5°	33.6	30.3	27.9	24.7	24.3	23.4	20.2	17.8	15.8	14.1	12.1
80°	17.8	16.2	14.1	12.1	11.3	10.1	8.5	7.3	6.1	4.9	4.0
82.5°	7.7	6.5	5.3	4.4	4.0	3.6	2.8	2.4	2.0	2.0	1.6
85°	2.0	1.6	1.6	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.0	0.4	0.4	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°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6
2.5°	1076.6	1077.0	1077.4	1077.4	1077.8	1078.2	1078.2	1078.6	1079.0	1079.4	1079.4
5°	1074.6	1074.6	1074.6	1075.0	1075.0	1075.0	1075.0	1075.8	1075.8	1076.2	1076.6
7.5°	1070.5	1070.5	1070.5	1070.5	1070.1	1070.5	1070.1	1070.1	1070.9	1071.3	1071.7
10°	1064.0	1063.6	1063.6	1063.2	1063.2	1063.2	1063.6	1064.0	1064.5	1064.9	1066.1
12.5°	1053.9	1053.5	1053.5	1053.1	1053.1	1053.5	1053.9	1054.7	1056.4	1057.2	1058.8
15°	1037.8	1037.4	1037.8	1038.2	1039.0	1040.2	1041.4	1042.6	1045.0	1047.1	1049.1
17.5°	1014.3	1014.7	1015.1	1015.9	1017.2	1018.8	1022.0	1025.2	1028.1	1031.3	1034.5
20°	982.0	983.6	984.0	986.8	987.6	991.3	994.9	999.8	1004.2	1008.3	1012.7
22.5°	943.2	944.4	946.0	949.2	951.3	956.1	960.6	966.2	971.1	976.3	982.8
25°	899.1	899.5	904.4	904.4	909.2	913.3	918.5	924.6	931.8	938.7	943.2
27.5°	849.0	851.0	854.6	856.3	859.9	866.4	870.8	878.1	885.4	891.4	896.3
30°	796.4	798.0	804.1	804.9	807.7	813.4	819.5	826.3	832.0	838.9	843.3
32.5°	741.0	745.5	749.1	751.9	752.8	761.2	764.5	769.3	775.8	782.7	787.1
35°	687.3	689.3	694.5	696.2	698.6	703.4	709.9	713.9	717.2	721.6	726.9
37.5°	630.3	636.3	637.5	642.4	643.2	647.6	650.9	655.7	659.8	663.8	664.6
40°	577.3	579.3	583.8	585.0	585.8	591.9	595.9	597.1	599.1	602.8	607.6
42.5°	523.5	525.6	530.4	529.2	532.8	535.7	537.7	542.5	544.6	545.8	545.8
45°	470.6	471.4	474.6	476.2	478.3	479.9	483.5	485.9	486.7	490.4	491.6
47.5°	420.0	420.8	423.3	426.1	425.3	427.3	431.4	432.6	433.0	435.4	436.6
50°	370.3	372.3	375.6	374.8	377.2	378.4	382.0	382.8	382.8	383.3	383.7
52.5°	323.8	325.4	326.2	327.1	328.3	330.3	331.9	331.1	332.7	334.3	333.1
55°	277.7	278.9	281.0	281.8	281.8	282.2	281.4	285.0	283.4	283.0	283.4
57.5°	235.7	234.1	233.7	235.7	236.5	236.1	234.9	236.5	236.5	235.7	234.5
60°	194.9	193.6	193.2	193.6	192.0	190.8	191.6	190.8	188.8	188.0	188.4
62.5°	157.7	156.5	153.2	153.2	152.4	152.0	148.8	149.2	147.6	145.1	145.9
65°	123.3	120.1	118.5	118.0	115.2	112.8	112.0	109.2	106.7	106.3	106.7
67.5°	92.6	88.9	86.1	84.9	83.3	81.3	78.4	76.0	76.8	76.4	78.0
70°	64.3	61.9	59.0	57.0	57.8	55.4	53.8	53.8	54.2	54.6	55.4
72.5°	42.9	39.6	38.4	37.2	36.4	34.8	35.6	35.6	35.2	35.6	34.8
75°	24.3	22.6	21.4	21.0	20.2	20.2	20.2	20.2	19.8	19.4	19.4
77.5°	10.9	10.1	9.7	9.3	9.3	9.3	8.9	8.5	8.5	8.5	8.1
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
82.5°	1.6	1.6	2.0	2.0	2.0	1.6	2.0	2.0	1.6	1.6	2.0
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	0.4	0.4	0.0	0.4	0.4	0.4	0.4	0.0	0.4	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: P857419

CATALOG NUMBER: LX4C25D010 EX4C259050 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6	1076.6
2.5°	1079.8	1080.2	1080.2	1080.2	1080.6	1080.6	1080.6	1080.6
5°	1077.0	1077.4	1077.4	1077.4	1077.8	1077.8	1077.8	1077.8
7.5°	1072.1	1072.5	1072.5	1072.9	1072.9	1073.3	1073.3	1073.7
10°	1066.5	1067.3	1067.7	1068.1	1068.5	1068.9	1068.9	1069.3
12.5°	1060.4	1061.2	1061.6	1062.4	1063.2	1063.6	1064.0	1064.5
15°	1051.5	1053.1	1053.9	1054.3	1056.0	1056.8	1057.2	1057.6
17.5°	1037.4	1040.6	1041.8	1042.6	1044.2	1045.9	1047.1	1047.5
20°	1017.2	1020.8	1022.4	1024.4	1026.9	1028.9	1029.7	1030.5
22.5°	988.9	992.9	995.3	997.7	999.8	1001.8	1005.0	1003.8
25°	948.4	955.3	958.1	959.3	963.8	966.2	967.8	966.2
27.5°	903.1	907.2	909.6	912.4	915.7	918.1	918.9	921.3
30°	848.6	855.4	855.0	857.9	861.9	864.3	865.1	867.2
32.5°	792.0	795.2	797.6	797.2	798.8	803.3	801.7	805.3
35°	731.7	732.1	736.2	735.8	739.0	739.0	739.0	741.4
37.5°	667.5	672.3	670.3	675.1	673.5	674.7	674.7	675.5
40°	608.8	610.5	610.5	612.1	613.3	612.1	612.9	614.9
42.5°	548.2	549.8	550.2	549.4	550.6	554.3	551.4	553.9
45°	491.6	492.8	494.4	493.2	495.2	494.0	495.2	494.4
47.5°	438.2	437.8	437.4	440.7	437.8	438.2	439.8	437.0
50°	383.7	386.1	384.5	385.7	386.5	386.5	385.3	385.3
52.5°	335.1	334.7	333.5	334.7	333.9	334.3	335.1	334.3
55°	285.0	286.6	285.8	285.4	285.8	285.8	288.2	285.0
57.5°	235.7	234.9	236.1	238.9	236.1	238.1	239.3	239.7
60°	188.8	188.8	191.2	190.0	192.4	194.5	196.1	195.3
62.5°	143.9	145.9	146.8	147.2	149.6	151.2	151.2	150.8
65°	106.7	109.6	109.6	111.2	112.0	112.0	112.8	114.4
67.5°	78.8	78.8	79.2	80.0	79.6	79.6	80.5	80.9
70°	55.0	54.2	55.4	55.0	55.0	54.6	55.0	55.0
72.5°	34.8	34.8	35.2	34.8	34.0	34.4	34.4	35.2
75°	18.6	19.4	18.6	18.6	19.0	18.2	18.6	19.0
77.5°	7.7	7.7	7.7	7.7	7.7	7.3	7.3	7.3
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.2	3.2
82.5°	1.6	2.0	1.6	2.0	1.6	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.4	0.0	0.4	0.0	0.0	0.0	0.4
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)