

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: P857356

Luminaire Tested: **LX4C25D010 EX4C259030 4LBLWW\***

Issue Date: 2/9/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P857356  
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 EX4C259030 4LBLWW\*  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LRLWW TRIM WITH \* FINISH  
Light Source: -  
Ballast/Driver: -

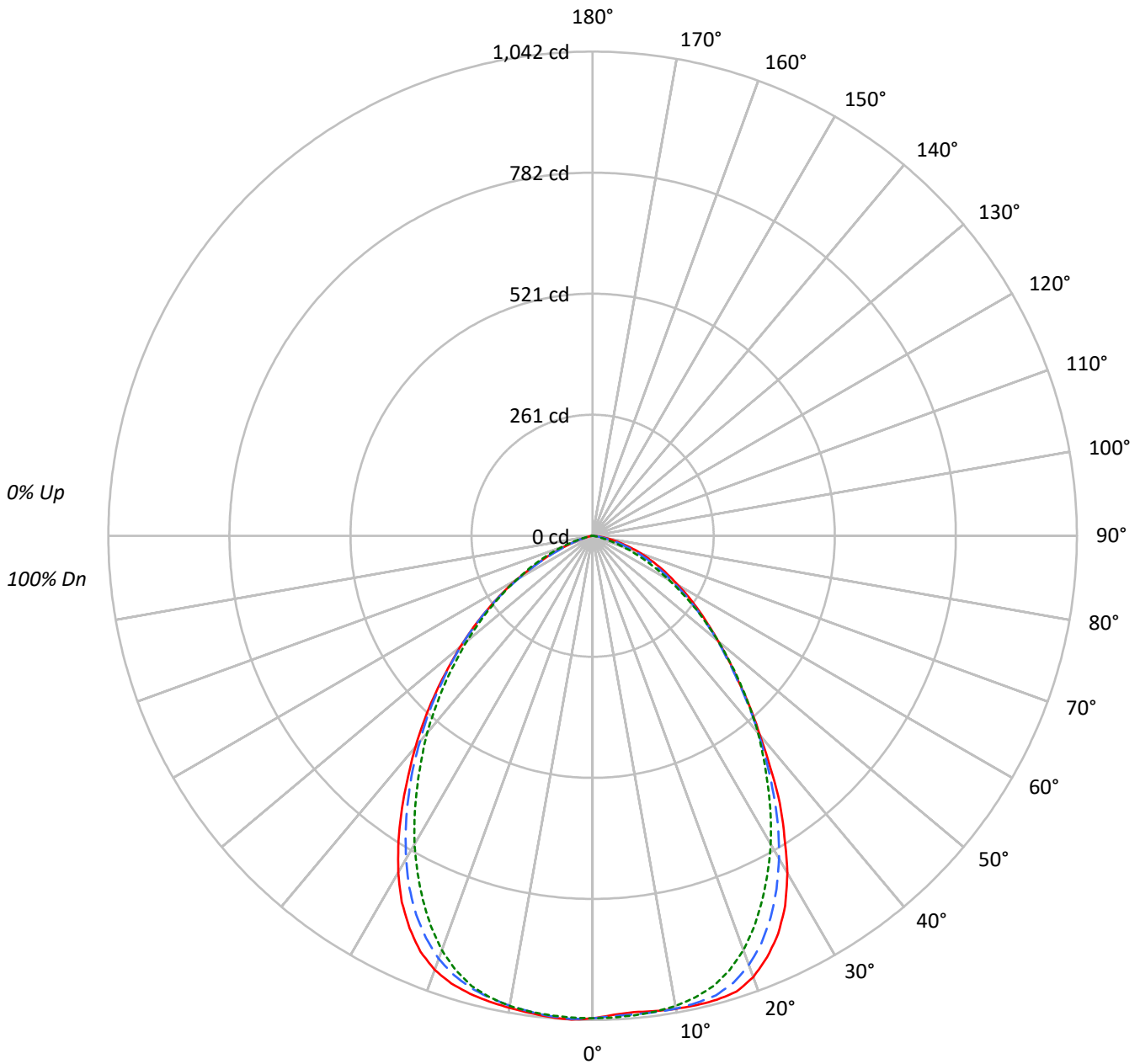
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1991.0 lumens  
Efficiency: N/A  
Efficacy: 63.2 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

TEST NUMBER: P857356

CATALOG NUMBER: LX4C25D010 EX4C259030 4LBLWW\*

### Luminous Intensity Polar Plot





TEST NUMBER: P857356

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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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°	127583	127583	127583
5°	126874	127738	128219
10°	128965	128192	128678
15°	131486	127620	129756
20°	132150	124044	129954
25°	128085	117146	126336
30°	118892	108707	118665
35°	105283	98609	107263
40°	89745	88815	95134
45°	77106	77992	82857
50°	67295	67448	71022
55°	59480	56974	58880
60°	52114	46463	46291
65°	46133	36046	32093
70°	39368	24785	19038
75°	31850	13338	8686
80°	21791	3325	2193
85°	6625	1128	1128



TEST NUMBER: P857356

CATALOG NUMBER: LX4C25D010 EX4C259030 4LBLWW\*

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.7	5.0
10°-20°	285.7	14.4
20°-30°	412.8	20.7
30°-40°	426.8	21.4
40°-50°	352.6	17.7
50°-60°	243.4	12.2
60°-70°	127.4	6.4
70°-80°	40.1	2.0
80°-90°	3.4	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°	797.3	40.0
0°-40°	1224.1	61.5
0°-60°	1820.1	91.4
0°-90°	1991.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1991.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1038	1038	1038	1038	1038	
5°	1029	1034	1036	1038	1040	98
15°	1034	1024	1003	1008	1020	292
25°	945	907	864	899	932	431
35°	702	679	658	692	715	436
45°	444	442	449	470	477	346
55°	278	269	266	273	275	249
65°	159	144	124	103	110	157
75°	67	53	28	19	18	72
85°	5	2	1	1	1	10
90°	0	0	0	0	0	



TEST NUMBER: P857356

CATALOG NUMBER: LX4C25D010 EX4C259030 4LBLWW\*

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5
2.5°	1031.9	1032.3	1032.3	1033.0	1033.0	1033.0	1033.4	1033.4	1033.8	1034.2	1034.6
5°	1028.8	1028.8	1029.5	1029.9	1030.7	1031.1	1031.9	1032.3	1033.0	1033.4	1033.8
7.5°	1031.9	1031.9	1032.3	1032.7	1032.7	1033.0	1033.0	1033.4	1033.8	1034.2	1034.2
10°	1033.8	1033.8	1033.8	1033.8	1034.2	1034.2	1034.2	1033.8	1033.8	1033.8	1033.4
12.5°	1034.6	1034.6	1034.2	1033.8	1034.2	1033.8	1033.8	1032.7	1031.9	1031.1	1029.9
15°	1033.8	1033.8	1033.4	1033.0	1032.7	1031.9	1031.5	1029.5	1028.0	1025.6	1024.1
17.5°	1028.8	1028.0	1027.2	1026.4	1024.9	1023.7	1022.9	1019.4	1016.7	1012.8	1008.5
20°	1010.8	1010.0	1008.9	1006.9	1005.0	1003.4	1001.1	996.0	993.3	987.4	983.1
22.5°	981.6	980.8	981.2	977.7	973.8	971.4	969.9	965.6	960.9	953.5	948.8
25°	944.9	942.6	942.6	937.1	935.2	933.6	931.6	926.6	919.6	912.9	906.7
27.5°	897.3	894.2	892.7	891.9	887.2	883.7	881.0	877.1	871.2	865.4	856.8
30°	838.1	837.7	835.7	832.2	828.7	827.1	824.0	817.4	811.9	807.6	802.2
32.5°	768.3	767.9	767.9	767.9	765.5	765.1	760.5	756.9	752.7	746.0	742.5
35°	702.0	701.6	702.0	696.1	694.5	693.4	693.0	690.6	684.8	681.7	678.6
37.5°	627.1	628.2	627.5	625.9	627.9	624.3	627.1	622.0	619.7	618.9	615.4
40°	559.6	562.7	559.6	560.0	562.0	558.4	558.4	557.7	556.1	555.3	554.5
42.5°	501.9	498.0	500.3	498.4	500.3	499.2	497.2	498.4	498.8	497.2	496.8
45°	443.8	444.6	445.4	444.2	444.2	443.0	446.1	444.2	444.2	444.6	441.8
47.5°	396.6	395.4	396.2	395.4	395.8	395.0	395.8	396.2	395.4	395.4	393.1
50°	352.1	351.4	354.1	351.8	351.8	351.4	351.8	351.0	349.8	349.8	350.6
52.5°	313.5	312.0	311.6	313.5	310.8	310.8	311.2	310.4	308.9	308.1	306.1
55°	277.7	277.3	277.7	276.1	275.3	275.3	273.4	272.6	272.2	270.3	269.1
57.5°	244.1	243.0	243.3	243.0	241.4	241.0	239.4	239.4	237.9	236.3	234.4
60°	212.1	212.1	213.3	211.8	210.6	209.8	209.0	208.2	205.5	202.8	200.4
62.5°	183.7	184.1	183.7	182.5	181.7	180.9	180.2	177.8	175.5	173.9	171.2
65°	158.7	158.3	157.2	156.4	154.4	154.4	152.9	151.7	149.0	146.6	143.9
67.5°	133.0	132.2	132.2	132.2	129.9	129.5	128.7	126.4	124.0	120.9	118.6
70°	109.6	110.4	109.2	108.0	106.9	106.5	105.3	103.0	100.2	97.1	95.2
72.5°	87.4	88.1	87.0	86.6	84.2	83.5	83.1	81.1	78.0	76.0	72.9
75°	67.1	67.5	66.7	65.9	64.3	64.0	62.0	60.4	58.5	55.4	52.6
77.5°	48.4	47.6	47.6	46.0	44.5	44.5	44.1	41.7	39.0	36.7	34.3
80°	30.8	30.4	29.2	28.5	27.3	26.9	26.5	24.6	22.6	21.1	19.5
82.5°	15.6	15.2	14.8	14.4	13.6	12.9	13.3	11.7	10.9	9.4	8.2
85°	4.7	5.1	5.1	4.7	4.3	4.3	4.3	3.9	3.1	2.7	2.3
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: P857356

CATALOG NUMBER: LX4C25D010 EX4C259030 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5
2.5°	1035.0	1035.4	1035.8	1036.2	1036.2	1036.6	1036.9	1037.3	1037.7	1037.7	1038.1
5°	1034.2	1035.0	1035.0	1035.4	1035.4	1035.4	1035.8	1035.8	1035.8	1035.8	1036.2
7.5°	1034.6	1034.6	1034.6	1034.2	1034.2	1033.8	1033.8	1033.8	1033.0	1033.0	1033.0
10°	1032.7	1032.3	1031.9	1031.1	1030.7	1030.3	1029.5	1028.8	1028.0	1027.6	1026.8
12.5°	1028.8	1027.2	1025.6	1024.1	1023.3	1022.9	1021.3	1020.2	1019.0	1017.8	1017.1
15°	1021.0	1018.6	1015.9	1012.8	1012.0	1011.2	1008.5	1006.1	1004.6	1003.4	1001.5
17.5°	1005.4	1000.7	997.6	992.9	990.9	990.1	985.9	983.5	980.8	980.0	978.4
20°	977.7	973.4	967.5	963.2	960.9	958.6	955.0	951.9	948.8	948.8	946.9
22.5°	943.0	937.5	930.1	924.6	924.2	919.6	916.4	912.9	911.8	909.4	909.4
25°	899.3	894.6	886.4	881.7	879.4	878.2	873.2	868.5	866.1	864.2	865.7
27.5°	850.9	843.9	837.7	831.8	829.9	827.5	822.8	820.9	816.6	816.2	815.8
30°	795.5	788.5	782.3	779.6	775.7	773.7	770.2	767.9	766.3	766.3	765.5
32.5°	737.4	731.2	728.1	722.2	720.3	717.6	715.2	712.9	713.7	712.9	713.3
35°	674.7	673.1	667.2	663.7	663.7	663.3	659.4	657.9	657.1	657.5	659.4
37.5°	615.0	610.3	606.4	604.1	606.0	603.7	603.3	603.3	605.6	604.1	607.2
40°	551.4	551.0	549.5	550.3	550.6	547.9	548.7	549.1	550.6	553.8	554.2
42.5°	496.0	495.7	495.7	495.7	494.9	493.3	494.9	497.6	497.2	499.6	501.5
45°	442.6	441.8	443.4	442.2	444.6	445.4	444.2	445.0	447.3	448.9	452.0
47.5°	393.9	393.9	394.3	395.0	392.7	394.7	395.4	397.0	398.2	398.9	400.5
50°	348.6	348.6	347.9	347.9	347.9	349.0	347.5	349.4	349.8	352.9	354.9
52.5°	306.9	305.0	306.1	305.4	303.8	303.0	303.8	304.2	306.5	307.3	309.6
55°	267.1	267.1	264.0	263.2	264.4	264.0	263.6	263.6	264.8	266.0	267.9
57.5°	232.0	229.7	227.4	227.0	225.8	226.2	226.2	225.8	225.0	225.4	225.8
60°	198.9	197.3	193.8	193.8	193.4	193.0	191.1	190.7	188.7	189.1	187.6
62.5°	168.5	167.7	163.0	161.4	161.4	160.3	158.3	157.9	155.2	155.2	153.7
65°	141.2	138.8	136.1	133.4	133.4	131.8	130.6	127.1	125.2	124.0	121.7
67.5°	116.2	112.7	110.0	107.6	106.1	105.7	103.0	100.6	97.5	95.5	92.0
70°	92.0	89.3	86.6	84.2	82.7	81.1	78.4	74.9	72.5	69.0	66.7
72.5°	69.4	67.1	64.7	61.6	59.7	58.5	55.8	52.6	48.7	46.4	43.3
75°	49.9	47.2	44.1	41.3	40.2	39.0	35.9	33.5	30.8	28.1	25.0
77.5°	32.4	29.2	26.9	23.8	23.4	22.6	19.5	17.2	15.2	13.6	11.7
80°	17.2	15.6	13.6	11.7	10.9	9.7	8.2	7.0	5.8	4.7	3.9
82.5°	7.4	6.2	5.1	4.3	3.9	3.5	2.7	2.3	1.9	1.9	1.6
85°	1.9	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



TEST NUMBER: P857356

CATALOG NUMBER: LX4C25D010 EX4C259030 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5
2.5°	1038.5	1038.9	1039.3	1039.3	1039.7	1040.1	1040.1	1040.5	1040.8	1041.2	1041.2
5°	1036.6	1036.6	1036.6	1036.9	1036.9	1036.9	1036.9	1037.7	1037.7	1038.1	1038.5
7.5°	1032.7	1032.7	1032.7	1032.7	1032.3	1032.7	1032.3	1032.3	1033.0	1033.4	1033.8
10°	1026.4	1026.0	1026.0	1025.6	1025.6	1025.6	1026.0	1026.4	1026.8	1027.2	1028.4
12.5°	1016.7	1016.3	1016.3	1015.9	1015.9	1016.3	1016.7	1017.4	1019.0	1019.8	1021.3
15°	1001.1	1000.7	1001.1	1001.5	1002.2	1003.4	1004.6	1005.7	1008.1	1010.0	1012.0
17.5°	978.4	978.8	979.2	980.0	981.2	982.7	985.9	989.0	991.7	994.8	997.9
20°	947.2	948.8	949.2	951.9	952.7	956.2	959.7	964.4	968.7	972.6	976.9
22.5°	909.8	911.0	912.5	915.7	917.6	922.3	926.6	932.0	936.7	941.8	948.0
25°	867.3	867.7	872.4	872.4	877.1	881.0	886.0	891.9	898.9	905.5	909.8
27.5°	818.9	820.9	824.4	826.0	829.5	835.7	840.0	847.0	854.0	859.9	864.6
30°	768.3	769.8	775.7	776.4	779.2	784.6	790.5	797.1	802.6	809.2	813.5
32.5°	714.8	719.1	722.6	725.4	726.1	734.3	737.4	742.1	748.4	755.0	759.3
35°	663.0	664.9	670.0	671.5	673.9	678.6	684.8	688.7	691.8	696.1	701.2
37.5°	608.0	613.8	615.0	619.7	620.4	624.7	627.9	632.5	636.4	640.3	641.1
40°	556.9	558.8	563.1	564.3	565.1	570.9	574.8	576.0	577.9	581.5	586.1
42.5°	505.0	507.0	511.6	510.5	514.0	516.7	518.7	523.3	525.3	526.5	526.5
45°	453.9	454.7	457.8	459.4	461.3	462.9	466.4	468.7	469.5	473.0	474.2
47.5°	405.2	406.0	408.3	411.0	410.3	412.2	416.1	417.3	417.7	420.0	421.2
50°	357.2	359.2	362.3	361.5	363.8	365.0	368.5	369.3	369.3	369.7	370.1
52.5°	312.4	313.9	314.7	315.5	316.7	318.6	320.2	319.4	320.9	322.5	321.3
55°	267.9	269.1	271.0	271.8	271.8	272.2	271.4	274.9	273.4	273.0	273.4
57.5°	227.4	225.8	225.4	227.4	228.1	227.7	226.6	228.1	228.1	227.4	226.2
60°	188.0	186.8	186.4	186.8	185.2	184.1	184.8	184.1	182.1	181.3	181.7
62.5°	152.1	150.9	147.8	147.8	147.0	146.6	143.5	143.9	142.3	140.0	140.8
65°	118.9	115.8	114.3	113.9	111.1	108.8	108.0	105.3	103.0	102.6	103.0
67.5°	89.3	85.8	83.1	81.9	80.3	78.4	75.7	73.3	74.1	73.7	75.3
70°	62.0	59.7	56.9	55.0	55.8	53.4	51.9	51.9	52.3	52.6	53.4
72.5°	41.3	38.2	37.0	35.9	35.1	33.5	34.3	34.3	33.9	34.3	33.5
75°	23.4	21.8	20.7	20.3	19.5	19.5	19.5	19.5	19.1	18.7	18.7
77.5°	10.5	9.7	9.4	9.0	9.0	9.0	8.6	8.2	8.2	8.2	7.8
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
82.5°	1.6	1.6	1.9	1.9	1.9	1.6	1.9	1.9	1.6	1.6	1.9
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: P857356

CATALOG NUMBER: LX4C25D010 EX4C259030 4LBLWW\*

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5	1038.5
2.5°	1041.6	1042.0	1042.0	1042.0	1042.4	1042.4	1042.4	1042.4
5°	1038.9	1039.3	1039.3	1039.3	1039.7	1039.7	1039.7	1039.7
7.5°	1034.2	1034.6	1034.6	1035.0	1035.0	1035.4	1035.4	1035.8
10°	1028.8	1029.5	1029.9	1030.3	1030.7	1031.1	1031.1	1031.5
12.5°	1022.9	1023.7	1024.1	1024.9	1025.6	1026.0	1026.4	1026.8
15°	1014.3	1015.9	1016.7	1017.1	1018.6	1019.4	1019.8	1020.2
17.5°	1000.7	1003.8	1005.0	1005.7	1007.3	1008.9	1010.0	1010.4
20°	981.2	984.7	986.2	988.2	990.5	992.5	993.3	994.0
22.5°	953.9	957.8	960.1	962.5	964.4	966.4	969.5	968.3
25°	914.9	921.5	924.2	925.4	929.7	932.0	933.6	932.0
27.5°	871.2	875.1	877.4	880.2	883.3	885.6	886.4	888.8
30°	818.6	825.2	824.8	827.5	831.4	833.8	834.5	836.5
32.5°	764.0	767.1	769.4	769.0	770.6	774.9	773.3	776.8
35°	705.9	706.2	710.1	709.8	712.9	712.9	712.9	715.2
37.5°	643.8	648.5	646.6	651.3	649.7	650.9	650.9	651.6
40°	587.3	588.9	588.9	590.4	591.6	590.4	591.2	593.2
42.5°	528.8	530.4	530.8	530.0	531.1	534.7	531.9	534.3
45°	474.2	475.4	476.9	475.8	477.7	476.5	477.7	476.9
47.5°	422.7	422.3	422.0	425.1	422.3	422.7	424.3	421.6
50°	370.1	372.4	370.9	372.0	372.8	372.8	371.6	371.6
52.5°	323.3	322.9	321.7	322.9	322.1	322.5	323.3	322.5
55°	274.9	276.5	275.7	275.3	275.7	275.7	278.1	274.9
57.5°	227.4	226.6	227.7	230.5	227.7	229.7	230.9	231.3
60°	182.1	182.1	184.5	183.3	185.6	187.6	189.1	188.4
62.5°	138.8	140.8	141.6	142.0	144.3	145.9	145.9	145.5
65°	103.0	105.7	105.7	107.2	108.0	108.0	108.8	110.4
67.5°	76.0	76.0	76.4	77.2	76.8	76.8	77.6	78.0
70°	53.0	52.3	53.4	53.0	53.0	52.6	53.0	53.0
72.5°	33.5	33.5	33.9	33.5	32.8	33.1	33.1	33.9
75°	17.9	18.7	17.9	17.9	18.3	17.5	17.9	18.3
77.5°	7.4	7.4	7.4	7.4	7.4	7.0	7.0	7.0
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.1	3.1
82.5°	1.6	1.9	1.6	1.9	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)