

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: P857420

Luminaire Tested: **LX4C25D010 EX4C259050 4LBLWWH**

Issue Date: 2/14/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P857420  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/14/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C25D010 EX4C259050 4LBLWWH  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS  
AND 4LRLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

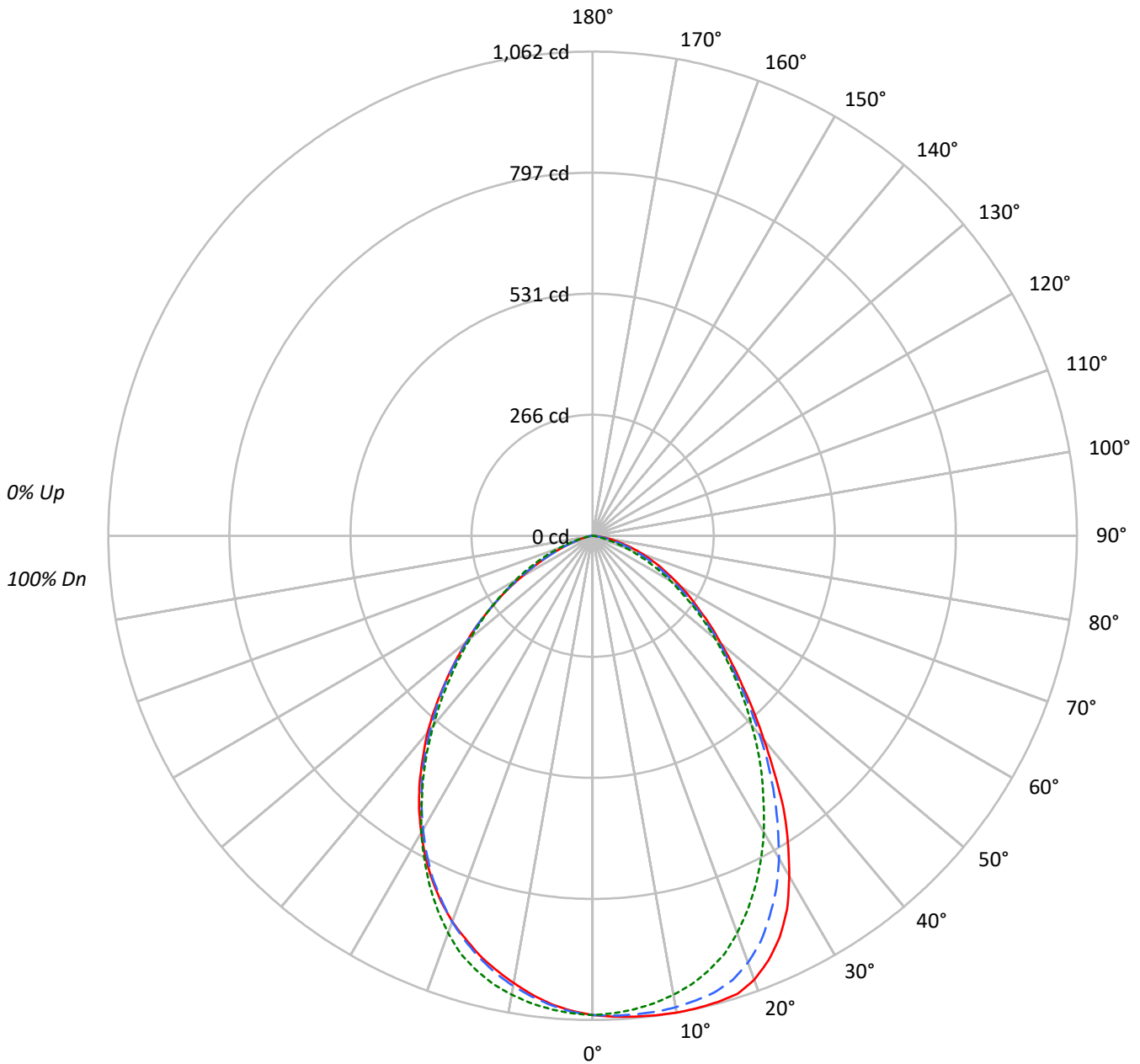
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1981.0 lumens  
Efficiency: N/A  
Efficacy: 62.9 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17  
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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### 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	108	105	102	99	101	98	96	97	95	93	94	92	90	88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39			
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35			
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32			

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

	0°	90°	180°
0°	129144	129144	129144
5°	130574	128589	127195
10°	132496	127506	124275
15°	134666	125470	121299
20°	135523	121194	117716
25°	131636	114651	112889
30°	122339	106564	106621
35°	109513	97140	99194
40°	93755	87083	90258
45°	80703	76776	79660
50°	70162	66837	68844
55°	61751	57510	56974
60°	54940	47987	44203
65°	48197	38430	31977
70°	41380	27155	21624
75°	33607	15759	12674
80°	24054	6863	6297
85°	9162	2819	2819



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.1	5.0
10°-20°	280.4	14.2
20°-30°	400.4	20.2
30°-40°	418.9	21.1
40°-50°	351.0	17.7
50°-60°	245.6	12.4
60°-70°	133.8	6.8
70°-80°	46.4	2.3
80°-90°	5.3	0.3
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°	779.9	39.4
0°-40°	1198.8	60.5
0°-60°	1795.5	90.6
0°-90°	1981.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1981.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1051	1051	1051	1051	1051	
5°	1059	1054	1043	1034	1031	101
15°	1059	1037	986	958	954	299
25°	971	919	846	829	833	443
35°	730	694	648	652	661	453
45°	464	454	442	456	458	361
55°	288	279	268	268	266	260
65°	166	151	132	111	110	165
75°	71	57	33	27	27	76
85°	6	4	2	2	2	12
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°	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2
2.5°	1056.0	1054.8	1055.2	1055.2	1055.2	1054.8	1055.2	1054.8	1054.8	1054.4	1053.6
5°	1058.8	1058.0	1058.0	1058.0	1057.6	1057.2	1057.2	1056.8	1056.0	1055.6	1054.0
7.5°	1060.9	1060.1	1060.1	1059.7	1059.3	1058.8	1058.4	1057.2	1056.0	1055.2	1053.2
10°	1062.1	1060.9	1060.9	1060.1	1059.3	1058.8	1058.0	1056.4	1054.8	1052.8	1050.0
12.5°	1061.3	1060.1	1059.7	1058.8	1057.2	1056.4	1055.6	1053.6	1050.8	1047.9	1044.3
15°	1058.8	1058.0	1057.2	1056.0	1054.0	1052.8	1052.0	1048.7	1045.1	1041.1	1036.6
17.5°	1054.0	1052.8	1051.2	1049.5	1046.7	1045.5	1043.5	1039.4	1034.2	1028.5	1021.7
20°	1036.6	1035.8	1034.2	1031.4	1026.9	1025.3	1022.5	1017.2	1010.3	1003.5	996.2
22.5°	1007.9	1006.7	1004.3	1001.8	997.8	995.0	992.5	985.3	977.6	970.3	963.4
25°	971.1	969.9	966.7	963.4	959.4	954.5	952.1	946.5	938.8	929.5	919.4
27.5°	923.8	919.8	918.6	914.9	908.9	907.2	903.6	896.3	889.0	881.0	872.5
30°	862.4	862.4	859.9	858.3	852.7	851.0	847.0	839.3	835.3	824.0	817.5
32.5°	797.3	796.5	794.4	793.2	790.0	787.2	783.1	779.1	770.2	764.5	755.6
35°	730.2	725.3	726.1	723.7	721.7	718.4	718.0	713.6	705.5	702.3	694.2
37.5°	653.7	651.7	654.6	650.9	648.9	649.3	646.1	643.2	640.0	634.3	632.7
40°	584.6	586.2	585.8	582.6	584.2	582.2	579.0	576.1	574.5	570.9	569.7
42.5°	522.8	520.3	519.5	519.5	519.9	519.9	518.3	516.3	516.3	512.6	509.0
45°	464.5	464.5	463.7	466.2	462.5	462.5	461.3	460.9	459.3	458.5	454.0
47.5°	414.4	414.0	413.6	413.2	412.8	412.8	410.4	408.3	407.9	405.5	403.1
50°	367.1	369.5	368.7	366.7	365.9	366.3	364.7	363.5	363.1	359.0	359.4
52.5°	327.5	327.1	327.9	326.7	324.6	325.1	323.4	321.8	320.2	318.2	316.6
55°	288.3	290.3	289.5	288.3	287.9	287.0	285.8	283.8	283.4	279.0	278.6
57.5°	255.5	255.1	254.3	252.3	251.9	250.7	250.7	249.0	246.6	244.2	242.2
60°	223.6	223.6	222.4	222.0	220.3	219.9	219.5	217.9	215.1	213.1	209.8
62.5°	192.8	193.7	192.8	191.6	190.4	188.8	188.0	186.8	184.4	182.3	179.5
65°	165.8	165.4	165.0	163.3	162.9	161.3	160.9	158.5	156.1	154.4	151.2
67.5°	139.9	138.7	138.7	137.9	137.1	135.8	135.0	132.6	129.8	128.2	124.9
70°	115.2	114.4	114.4	114.4	112.4	111.2	110.8	109.6	105.5	103.9	100.7
72.5°	92.6	92.2	91.8	90.6	89.3	89.3	87.7	85.3	83.3	81.3	78.8
75°	70.8	71.6	70.8	69.1	68.7	67.9	66.7	64.7	62.7	60.2	57.4
77.5°	51.7	50.9	50.1	50.1	49.3	47.7	47.3	45.7	43.3	41.6	38.8
80°	34.0	33.6	32.7	31.9	31.5	31.1	30.7	29.1	26.7	25.5	23.0
82.5°	18.6	18.2	18.2	17.8	16.6	16.6	16.2	14.6	13.3	12.5	11.3
85°	6.5	6.5	6.5	6.1	6.1	6.1	5.7	5.3	4.9	4.4	3.6
87.5°	0.8	0.4	0.8	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.4
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°	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2
2.5°	1052.8	1052.0	1051.6	1051.2	1050.8	1050.4	1050.0	1049.1	1048.7	1048.3	1047.5
5°	1052.8	1051.2	1050.4	1049.1	1048.3	1047.5	1046.3	1045.1	1043.9	1042.7	1041.5
7.5°	1051.2	1048.7	1047.1	1044.7	1043.9	1042.7	1040.3	1038.6	1036.6	1034.2	1031.4
10°	1047.1	1044.3	1041.1	1037.8	1036.6	1034.6	1031.4	1028.5	1025.3	1022.1	1019.2
12.5°	1040.7	1036.2	1032.2	1027.7	1025.3	1023.3	1018.8	1014.8	1010.7	1007.1	1002.2
15°	1031.0	1025.7	1020.4	1014.4	1011.5	1009.1	1002.7	997.8	991.3	986.5	981.6
17.5°	1015.2	1007.1	1000.6	992.9	988.9	986.1	980.4	972.7	966.7	961.4	955.8
20°	988.1	980.4	971.5	963.0	958.6	954.9	946.9	938.8	932.7	927.0	921.0
22.5°	952.5	942.8	936.3	925.8	922.2	917.7	908.0	900.8	893.9	888.2	882.6
25°	909.3	900.8	891.9	882.2	877.7	872.5	864.4	856.7	852.3	845.8	838.9
27.5°	859.5	852.7	841.7	833.3	828.8	824.8	817.1	810.2	803.7	799.3	792.8
30°	807.0	798.9	789.2	780.3	777.9	773.0	766.1	760.9	754.0	751.2	748.3
32.5°	749.2	739.9	732.6	726.9	722.1	718.0	714.4	705.9	704.7	697.4	696.6
35°	686.1	682.0	675.2	670.3	666.3	663.4	657.4	653.3	648.9	647.7	644.9
37.5°	626.7	621.8	615.3	610.9	608.1	607.7	603.2	600.8	597.5	595.9	592.7
40°	564.4	562.4	556.7	555.9	551.5	551.1	548.6	545.8	543.0	543.0	543.4
42.5°	507.0	504.6	502.1	499.3	496.9	496.9	495.7	494.9	494.0	492.8	494.9
45°	453.2	450.0	448.4	445.5	446.7	444.3	443.5	443.5	442.3	441.9	444.7
47.5°	403.1	399.4	397.8	397.0	397.0	397.4	393.8	395.0	394.6	395.4	396.6
50°	357.4	354.2	351.7	351.7	352.1	350.5	348.9	350.1	348.9	349.7	352.5
52.5°	314.9	311.7	310.5	310.5	308.1	307.7	308.5	306.9	307.3	307.7	309.3
55°	275.7	273.7	271.7	269.7	270.1	269.3	267.6	267.2	268.0	268.5	270.5
57.5°	240.6	237.7	234.9	234.1	233.3	233.3	231.3	230.9	231.7	229.6	229.6
60°	207.0	205.4	201.7	200.5	200.5	198.5	196.9	197.7	195.7	195.3	195.7
62.5°	175.9	174.7	172.2	169.8	169.0	168.2	166.2	165.4	164.5	162.9	160.5
65°	148.8	146.0	143.1	141.5	140.3	138.3	137.1	135.4	133.0	132.2	129.8
67.5°	121.7	118.9	116.0	114.8	113.6	112.4	110.4	108.4	105.5	102.3	99.5
70°	97.8	94.2	92.6	89.3	88.5	86.9	84.1	82.1	79.2	75.6	72.8
72.5°	74.8	72.4	69.9	67.1	65.1	63.9	61.5	58.2	55.0	53.0	50.1
75°	53.8	52.6	49.3	46.1	45.3	43.7	40.8	38.8	36.4	33.2	30.7
77.5°	36.4	34.0	31.9	29.1	28.3	26.7	25.1	23.0	21.4	19.4	17.8
80°	21.4	19.4	18.2	16.2	15.4	14.6	13.3	11.7	10.5	9.7	9.3
82.5°	10.5	8.9	8.5	7.3	6.9	6.5	5.7	5.3	4.4	4.4	4.4
85°	3.6	2.8	2.8	2.4	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.4
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2
2.5°	1047.1	1046.7	1046.3	1045.9	1045.9	1045.5	1045.5	1045.1	1045.1	1044.7	1044.7
5°	1039.8	1038.6	1037.8	1037.0	1037.0	1035.8	1035.0	1034.2	1033.8	1033.8	1033.0
7.5°	1029.7	1028.1	1026.5	1025.3	1024.9	1022.9	1021.2	1021.2	1019.6	1018.8	1018.0
10°	1016.4	1013.6	1011.1	1009.9	1008.3	1007.1	1005.1	1003.9	1002.7	1000.6	1000.2
12.5°	998.2	996.2	992.5	990.9	990.1	987.7	984.5	982.8	982.4	980.8	979.6
15°	977.6	973.1	969.9	967.9	967.9	963.8	962.2	959.8	958.2	957.0	956.6
17.5°	950.9	946.5	943.2	940.4	939.6	936.3	933.9	933.1	931.1	931.9	929.9
20°	916.5	912.9	910.5	906.8	906.8	904.8	904.0	902.0	901.2	900.4	901.2
22.5°	879.7	875.3	871.3	870.9	870.9	868.0	867.6	867.2	865.6	866.8	866.4
25°	836.5	833.3	830.8	830.4	830.4	828.8	827.2	828.0	829.2	828.8	830.0
27.5°	791.6	788.4	787.6	787.2	786.4	785.9	786.8	786.8	788.0	789.6	791.2
30°	743.1	742.3	741.1	740.7	739.9	741.9	742.7	743.9	743.5	745.9	747.5
32.5°	694.6	693.0	692.6	693.4	694.6	694.2	696.6	697.4	698.2	701.0	702.3
35°	645.7	645.3	644.4	644.4	644.9	648.1	648.1	650.9	652.5	653.3	656.6
37.5°	593.1	594.7	595.5	596.7	597.1	598.4	599.2	602.0	603.6	605.2	606.8
40°	545.0	544.2	547.8	545.4	546.2	549.8	551.5	551.1	553.5	555.9	557.5
42.5°	493.6	494.9	495.7	496.5	498.5	498.9	500.9	503.8	504.6	507.4	508.2
45°	443.9	444.3	445.9	447.6	448.8	452.0	452.8	454.0	456.4	456.4	457.7
47.5°	397.0	398.6	398.6	401.1	403.1	402.7	405.5	406.3	405.9	407.9	408.7
50°	352.1	354.6	354.2	355.8	356.6	357.0	359.4	360.2	358.6	360.6	361.0
52.5°	309.3	310.5	312.1	312.5	311.7	313.7	312.9	314.5	314.1	315.8	314.1
55°	270.1	269.7	269.7	270.5	269.7	270.5	271.3	269.7	268.5	270.1	269.7
57.5°	230.9	230.9	230.0	231.3	230.0	228.8	228.4	227.2	226.0	226.0	225.6
60°	194.1	193.3	191.6	191.2	191.2	189.2	188.4	186.8	186.8	185.2	183.5
62.5°	159.7	157.7	156.5	156.5	155.7	153.6	150.0	147.6	146.8	144.3	143.9
65°	127.4	125.3	124.1	121.7	119.7	118.9	115.2	112.4	111.2	108.8	109.2
67.5°	97.8	94.6	91.0	89.3	88.1	85.3	84.1	82.1	80.9	80.9	80.9
70°	70.3	67.5	63.9	62.7	61.9	59.4	58.2	57.8	59.0	58.6	59.0
72.5°	47.3	44.5	42.9	42.0	41.2	40.0	40.8	41.2	40.4	40.8	41.2
75°	28.7	27.9	26.7	26.3	26.3	26.7	26.3	26.3	26.7	26.7	27.1
77.5°	16.6	15.8	15.8	15.4	16.2	15.8	15.8	15.8	16.2	16.2	16.2
80°	8.9	8.9	8.9	8.9	9.3	8.9	9.3	9.3	9.3	9.3	9.3
82.5°	4.4	4.4	4.4	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.4
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.4	0.4	0.4	0.4	0.4
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: P857420

CATALOG NUMBER: LX4C25D010 EX4C259050 4LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2
2.5°	1043.9	1043.9	1043.9	1043.1	1043.5	1043.5	1043.1	1043.1
5°	1032.6	1032.2	1031.4	1031.4	1030.5	1031.4	1031.0	1031.4
7.5°	1017.2	1017.2	1016.0	1016.0	1015.6	1015.2	1014.8	1015.2
10°	999.0	999.0	998.2	997.8	998.2	996.6	996.6	996.2
12.5°	978.8	978.0	977.2	977.6	977.2	976.0	975.6	976.0
15°	955.3	954.1	954.5	953.3	953.3	952.9	953.7	953.7
17.5°	929.5	928.7	927.9	928.3	927.5	927.9	927.5	927.0
20°	900.8	900.4	900.4	898.7	899.2	898.7	899.2	900.4
22.5°	867.6	867.2	867.6	866.4	867.2	867.2	868.4	868.4
25°	831.2	830.8	831.6	832.0	832.4	833.7	832.4	832.8
27.5°	790.8	792.0	793.2	793.6	795.2	794.0	793.2	794.4
30°	750.0	750.0	749.6	751.2	752.4	753.6	751.6	751.6
32.5°	703.1	705.1	705.1	705.5	706.7	706.7	706.7	708.3
35°	658.2	659.4	659.8	658.2	659.0	658.6	661.4	661.4
37.5°	608.1	608.1	608.5	611.3	611.3	610.1	610.9	610.9
40°	560.4	560.8	559.1	559.9	562.0	561.2	562.0	562.8
42.5°	508.2	511.0	509.4	510.2	509.8	510.2	510.6	510.6
45°	458.5	459.3	459.3	459.7	460.5	461.3	458.9	458.5
47.5°	410.0	410.4	411.6	409.6	412.0	409.6	412.0	409.1
50°	361.0	362.7	361.4	362.2	361.0	361.0	360.6	360.2
52.5°	314.5	314.1	314.1	313.7	313.7	314.5	313.7	314.9
55°	268.0	268.5	267.6	267.2	266.8	268.0	266.8	266.0
57.5°	224.0	224.8	223.2	224.0	221.1	222.4	222.8	223.2
60°	183.1	181.9	181.9	180.3	180.3	181.5	179.9	179.9
62.5°	141.9	142.7	141.5	143.1	143.1	144.7	143.9	144.7
65°	108.8	109.2	109.6	109.6	109.6	112.0	111.2	110.0
67.5°	82.1	82.5	82.9	82.5	83.7	82.9	82.9	83.3
70°	59.4	59.8	60.2	60.2	59.8	60.2	60.2	60.2
72.5°	41.2	41.6	41.2	41.6	42.0	41.6	41.6	42.0
75°	27.1	27.1	26.7	26.7	26.7	26.7	27.1	26.7
77.5°	15.8	16.2	15.8	16.2	16.2	16.2	16.2	16.2
80°	9.3	9.3	9.3	8.9	9.3	9.3	9.3	8.9
82.5°	4.9	4.9	4.4	4.4	4.9	4.9	4.9	4.9
85°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	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)