

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: P879395

Luminaire Tested: **LD4C25D010 EU4259040 4LBLDWWLI**

Issue Date: 10/1/2024

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P879395  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/1/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C25D010 EU4259040 4LBLDWWLI  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 4LBLDWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

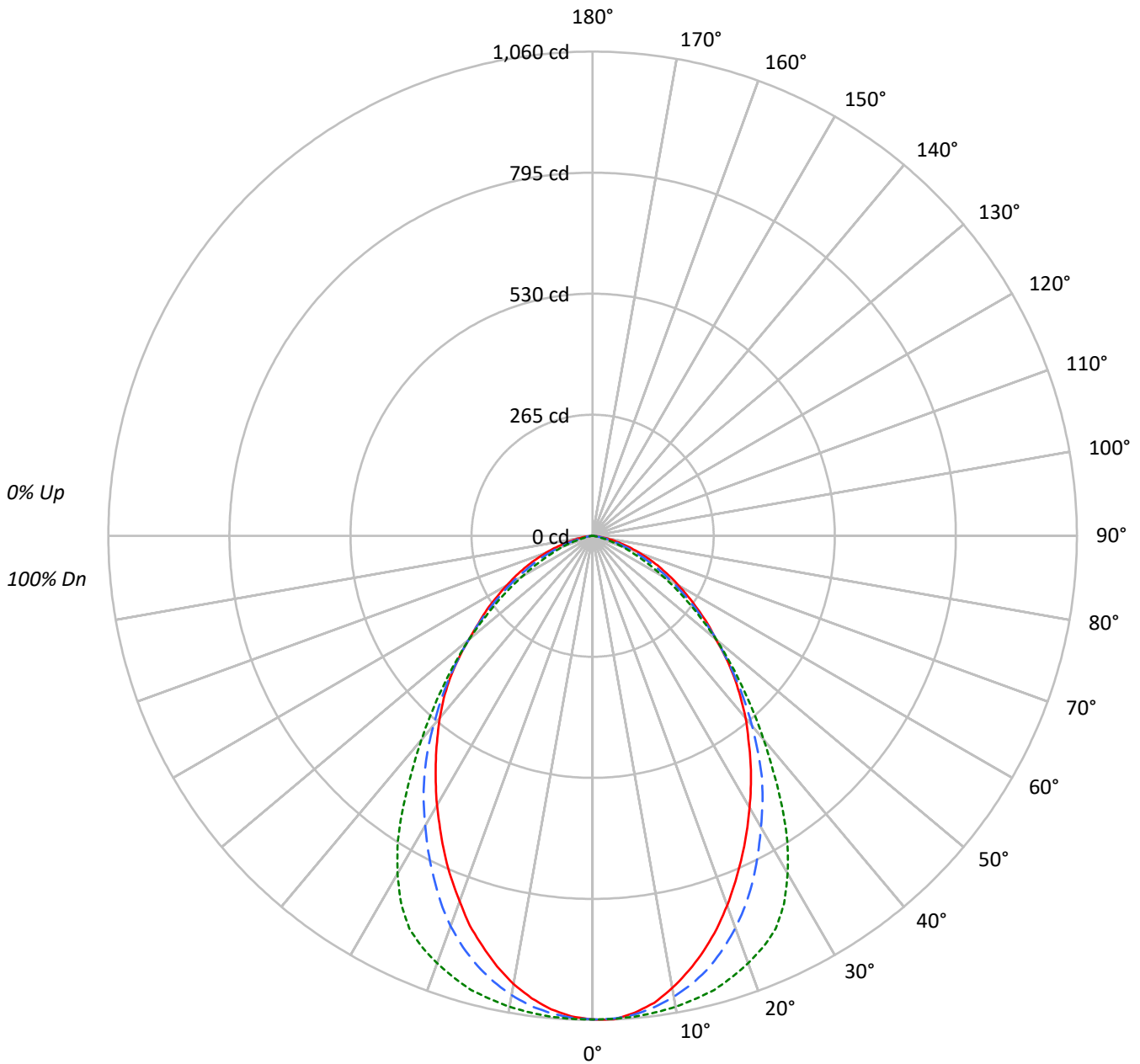
Lumens per Lamp: N/A  
Luminaire Lumens: 1945.0 lumens  
Efficiency: N/A  
Efficacy: 61.7 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.5  
Input Voltage (V): NR  
Input Current (Ain): 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: LD4C25D010 EU4259040 4LBLDWWLI

### 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	93	92	90	88			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32			

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

	0°	90°	180°
0°	130102	130102	130102
5°	129329	130315	128354
10°	125397	130637	124312
15°	119632	130914	118322
20°	112565	130176	111323
25°	104851	128627	103997
30°	97429	121133	96634
35°	90346	108343	89686
40°	83523	93434	83459
45°	76099	79747	76724
50°	67219	67448	67601
55°	60230	55132	60487
60°	53220	43785	53318
65°	46860	33401	46395
70°	38829	23887	38829
75°	30284	13718	29145
80°	19597	3396	18748
85°	7189	1128	5638



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.4	5.1
10°-20°	275.1	14.1
20°-30°	384.5	19.8
30°-40°	405.6	20.9
40°-50°	345.0	17.7
50°-60°	243.5	12.5
60°-70°	138.0	7.1
70°-80°	49.2	2.5
80°-90°	4.7	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°	759.0	39.0
0°-40°	1164.5	59.9
0°-60°	1753.0	90.1
0°-90°	1945.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1945.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1059	1059	1059	1059	1059	
5°	1049	1052	1057	1049	1041	99
15°	941	980	1029	975	930	264
25°	774	831	949	824	767	356
35°	602	646	722	642	598	377
45°	438	444	459	446	442	337
55°	281	272	257	272	282	253
65°	161	138	115	139	160	160
75°	64	44	29	43	61	69
85°	5	2	1	2	4	9
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°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1059.8	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1057.9	1058.2	1058.2
5°	1048.7	1048.0	1047.6	1047.6	1047.6	1047.6	1048.0	1049.5	1050.3	1051.5	1052.3
7.5°	1031.3	1029.7	1030.5	1030.5	1031.3	1032.1	1033.3	1034.9	1037.3	1038.8	1040.8
10°	1005.2	1003.6	1005.6	1006.4	1008.7	1009.9	1011.9	1014.3	1019.0	1021.4	1024.6
12.5°	974.7	973.9	974.7	977.9	980.2	981.8	984.2	989.3	994.1	999.2	1004.8
15°	940.6	938.6	939.8	943.8	947.8	950.5	952.5	959.2	965.6	973.5	980.2
17.5°	902.6	899.8	903.0	906.2	911.3	913.7	916.5	924.0	932.7	941.4	948.9
20°	861.0	860.2	862.2	866.6	871.7	874.9	877.3	885.6	893.1	905.0	913.7
22.5°	817.8	818.6	820.2	825.0	828.5	832.9	836.5	844.0	852.7	863.8	874.9
25°	773.5	774.7	777.4	780.6	786.6	788.9	793.3	801.2	808.7	819.0	831.3
27.5°	730.7	731.1	734.3	735.9	741.4	746.6	748.5	756.9	765.6	773.5	784.2
30°	686.8	687.9	689.9	694.3	699.8	701.8	704.2	711.7	718.4	728.3	736.7
32.5°	644.8	644.0	646.4	648.7	655.1	658.6	659.8	668.5	674.5	684.4	692.3
35°	602.4	600.4	604.0	606.4	611.9	615.1	616.7	623.4	628.9	637.2	646.0
37.5°	560.0	561.6	563.2	565.2	567.9	568.7	573.5	575.1	582.2	588.5	593.3
40°	520.8	520.0	519.2	521.2	524.8	526.4	526.7	531.1	532.7	539.0	542.6
42.5°	478.8	479.2	478.8	479.2	481.2	481.2	482.4	485.2	486.4	488.3	492.7
45°	438.0	438.0	436.8	437.2	437.6	437.2	437.6	438.8	441.2	441.2	444.4
47.5°	395.7	394.9	396.4	395.3	394.5	394.1	395.3	394.1	396.4	396.4	397.2
50°	351.7	351.7	353.7	353.3	354.1	352.5	352.9	352.9	353.3	352.9	354.5
52.5°	317.6	316.8	316.0	314.1	314.9	313.3	313.3	313.7	312.5	312.1	310.1
55°	281.2	282.0	280.8	280.0	280.0	278.4	278.0	275.7	274.1	272.9	271.7
57.5°	248.3	249.1	248.7	246.7	244.4	244.8	244.0	241.6	238.0	235.7	233.7
60°	216.6	217.4	216.6	214.7	213.9	212.3	211.9	208.7	205.9	202.8	200.4
62.5°	188.1	188.1	187.7	185.0	183.0	183.4	181.4	179.0	175.5	171.1	167.5
65°	161.2	160.8	158.8	157.6	156.0	154.1	152.9	149.3	146.5	143.0	138.2
67.5°	134.3	133.1	132.3	131.1	127.5	127.1	125.5	122.4	118.4	115.6	111.7
70°	108.1	107.7	106.1	106.1	103.4	102.2	99.8	97.0	93.5	89.5	86.3
72.5°	85.5	84.8	83.2	81.6	79.2	78.4	76.4	73.7	70.5	66.5	62.6
75°	63.8	63.0	62.6	60.6	58.6	56.6	55.8	53.1	49.9	47.1	43.6
77.5°	44.8	44.0	42.8	41.6	40.4	39.2	38.0	35.6	32.9	30.5	27.3
80°	27.7	26.9	26.1	25.7	24.6	24.2	22.6	21.4	19.0	17.4	15.4
82.5°	14.3	14.3	13.5	13.1	12.3	11.9	11.5	10.3	9.1	7.9	6.7
85°	5.1	5.1	4.8	4.4	4.4	4.0	4.0	3.6	2.8	2.8	2.0
87.5°	0.4	0.4	0.8	0.4	0.4	0.4	0.4	0.4	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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1058.6	1058.2	1058.6	1058.6	1059.0	1059.0	1059.0	1058.6	1059.0	1058.6	1058.6
5°	1052.3	1053.5	1054.3	1055.1	1055.5	1055.9	1055.9	1056.3	1056.7	1056.7	1056.3
7.5°	1042.4	1044.8	1047.2	1048.7	1049.5	1050.3	1051.5	1052.3	1053.1	1052.7	1052.3
10°	1029.3	1033.3	1036.5	1039.6	1041.2	1042.4	1044.4	1046.0	1046.8	1047.2	1046.0
12.5°	1010.7	1016.3	1021.4	1026.6	1028.9	1030.5	1034.5	1037.3	1038.8	1038.8	1037.7
15°	987.4	995.3	1002.8	1009.5	1013.5	1015.9	1021.8	1025.8	1028.1	1029.3	1027.4
17.5°	959.2	968.3	977.5	986.2	990.1	993.7	1002.0	1007.6	1012.7	1013.5	1011.1
20°	923.2	934.7	945.0	955.7	960.0	965.6	975.1	984.2	992.1	995.7	988.9
22.5°	882.8	895.5	905.0	918.0	924.0	929.9	942.2	953.7	967.6	975.1	963.2
25°	840.8	851.5	863.0	875.7	884.0	890.3	904.6	919.2	937.8	948.9	932.3
27.5°	795.7	805.2	819.0	832.9	839.2	847.2	864.2	880.0	897.8	907.7	895.5
30°	748.9	760.8	773.9	786.6	795.7	803.2	817.1	830.5	845.6	853.9	844.8
32.5°	702.6	714.1	725.2	739.0	744.2	750.9	763.2	774.7	786.2	793.7	783.0
35°	653.9	664.2	674.5	684.0	686.4	694.3	704.2	710.9	716.5	722.4	715.3
37.5°	600.8	608.7	613.9	624.2	628.1	629.3	637.2	642.0	647.9	649.1	648.7
40°	546.9	554.1	558.4	564.8	567.9	567.9	573.5	577.8	582.2	582.6	582.2
42.5°	496.6	500.2	503.8	507.7	506.9	511.7	514.1	516.1	519.2	519.2	520.0
45°	446.0	448.7	451.9	452.7	455.9	455.9	457.8	458.6	460.2	459.0	457.4
47.5°	398.8	400.0	400.4	404.0	404.8	402.0	404.4	404.8	404.4	404.4	403.6
50°	354.1	354.9	354.5	353.3	353.7	354.9	353.7	352.1	352.9	352.9	353.7
52.5°	310.5	308.9	308.1	308.1	306.5	306.5	304.6	303.8	303.4	301.8	303.8
55°	270.5	268.1	264.6	263.8	262.6	262.2	259.8	257.8	257.0	257.4	257.0
57.5°	232.1	228.5	226.1	225.4	224.2	221.8	219.0	217.0	216.6	215.8	215.8
60°	197.2	193.3	189.7	186.1	186.5	185.0	182.2	181.0	179.8	178.2	179.4
62.5°	165.5	161.2	157.2	153.7	151.3	150.1	148.1	146.1	145.0	143.8	145.4
65°	134.3	130.7	126.3	122.8	121.6	120.4	118.4	115.3	114.9	114.9	115.6
67.5°	106.1	102.2	98.2	95.8	94.3	92.7	91.9	90.3	89.1	88.3	88.7
70°	81.6	77.6	74.5	72.1	70.9	70.5	67.7	67.3	66.9	66.5	66.1
72.5°	59.4	56.2	53.5	51.9	50.3	49.1	48.3	47.1	46.7	46.7	46.7
75°	40.8	38.4	35.2	33.3	32.5	31.3	30.1	29.3	28.5	28.9	28.9
77.5°	24.6	22.2	20.2	18.6	18.2	17.0	15.8	15.0	13.9	13.9	14.3
80°	13.5	11.5	9.9	8.7	7.9	7.5	6.3	5.9	5.1	4.8	4.8
82.5°	5.9	4.8	4.0	3.6	3.2	2.8	2.4	2.0	2.0	1.6	2.0
85°	2.0	1.6	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.4	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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1058.2	1058.2	1057.9	1057.9	1057.9	1057.1	1057.1	1056.7	1056.3	1055.9	1055.1
5°	1055.5	1055.1	1054.3	1053.9	1053.5	1052.3	1051.1	1050.3	1049.1	1047.6	1046.8
7.5°	1051.5	1050.3	1048.7	1048.0	1046.8	1044.0	1042.0	1040.0	1038.1	1035.3	1032.1
10°	1044.8	1042.4	1040.0	1038.4	1036.5	1032.9	1028.9	1025.8	1021.4	1017.5	1013.1
12.5°	1035.3	1032.5	1027.8	1025.4	1023.0	1017.9	1012.7	1006.0	1000.0	994.5	989.3
15°	1023.4	1018.2	1012.7	1009.5	1006.0	997.7	989.7	982.6	974.7	967.9	959.6
17.5°	1006.0	998.4	990.5	987.0	982.2	972.7	963.2	953.3	944.2	935.9	925.6
20°	979.8	971.5	961.2	955.7	951.7	939.0	929.9	918.8	909.3	899.0	887.6
22.5°	949.3	937.8	926.4	918.4	914.1	901.4	889.1	879.2	868.9	857.1	848.7
25°	914.9	900.6	886.8	878.8	872.1	858.6	846.8	836.5	823.8	813.5	805.2
27.5°	876.1	859.8	843.6	835.7	829.3	814.7	802.0	791.3	779.0	769.9	761.2
30°	829.7	815.1	799.6	793.3	785.8	770.7	756.1	746.6	733.1	723.6	714.1
32.5°	771.9	762.4	750.1	741.4	737.4	723.6	711.3	699.8	688.3	680.8	671.3
35°	708.5	700.2	689.9	685.2	680.0	671.3	661.4	651.5	642.4	635.3	626.6
37.5°	644.4	636.1	629.7	624.6	621.4	613.5	607.5	600.0	593.7	586.9	582.2
40°	577.8	575.5	568.7	566.4	565.6	556.8	551.7	545.8	541.8	537.8	535.1
42.5°	518.8	514.9	509.7	510.1	507.7	503.0	499.4	495.5	492.7	490.7	487.9
45°	460.6	457.4	455.1	457.0	453.1	451.5	448.7	448.3	446.3	442.8	441.6
47.5°	405.2	404.8	405.2	404.0	403.2	402.4	402.8	400.8	398.8	397.6	396.1
50°	354.5	354.9	355.7	356.8	354.1	355.3	354.9	354.5	354.5	353.3	354.1
52.5°	305.4	305.8	306.5	307.7	308.1	308.1	309.3	310.1	311.7	313.7	313.7
55°	259.0	261.8	263.4	265.4	264.2	266.5	267.7	271.3	272.5	272.5	274.1
57.5°	217.8	220.6	221.8	224.2	225.0	226.9	230.1	232.1	234.9	237.2	239.6
60°	180.2	181.4	184.6	188.1	187.3	192.1	194.5	197.6	201.2	202.8	205.9
62.5°	146.5	148.1	150.5	151.7	154.5	156.8	162.4	165.5	168.7	172.7	175.8
65°	116.4	118.0	120.4	122.8	124.0	127.5	130.3	135.8	138.6	143.0	146.5
67.5°	89.1	91.5	93.5	95.1	95.8	99.4	103.8	106.1	111.3	115.6	118.4
70°	66.5	68.5	70.9	70.5	72.1	74.9	78.0	81.6	85.5	89.5	92.7
72.5°	46.3	48.3	49.9	50.3	51.9	53.9	56.2	59.0	62.2	66.1	70.5
75°	29.3	29.7	31.3	32.1	32.9	35.2	37.2	40.0	42.8	45.9	48.7
77.5°	14.7	15.8	16.6	17.4	17.8	19.8	21.8	24.2	26.5	29.7	32.5
80°	5.5	5.9	7.1	7.5	8.3	9.5	11.1	12.3	14.3	16.6	18.2
82.5°	2.0	2.4	2.8	2.8	3.2	4.0	4.4	5.5	6.7	7.5	8.3
85°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.6	2.0	2.4	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





TEST NUMBER: P879395

CATALOG NUMBER: LD4C25D010 EU4259040 4LBLDWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0	1059.0
2.5°	1054.7	1054.7	1054.3	1053.9	1053.9	1053.9	1053.5	1053.5
5°	1045.2	1044.0	1043.6	1042.8	1042.4	1042.0	1040.8	1040.8
7.5°	1029.7	1028.1	1027.0	1025.8	1024.2	1023.0	1023.0	1021.4
10°	1009.1	1006.0	1004.4	1002.8	1000.8	998.4	997.7	996.5
12.5°	984.2	977.9	976.3	973.5	970.3	968.7	966.0	966.0
15°	953.3	946.6	943.0	941.4	937.5	934.7	933.5	930.3
17.5°	917.3	912.1	906.6	904.2	899.8	896.3	894.7	894.3
20°	880.8	872.5	868.9	865.4	860.2	857.1	854.7	851.5
22.5°	838.8	831.3	826.2	823.8	819.4	813.9	809.9	809.9
25°	794.5	787.7	785.0	779.8	774.7	772.7	767.9	767.2
27.5°	752.1	745.4	739.8	737.1	731.1	728.3	724.4	722.8
30°	708.1	700.2	696.3	695.9	688.7	686.0	682.8	681.2
32.5°	664.2	657.4	653.5	651.1	647.9	643.2	640.4	638.8
35°	620.6	616.3	612.7	609.9	604.8	602.4	600.0	598.0
37.5°	575.1	571.1	569.5	567.1	564.8	560.4	559.6	558.0
40°	531.1	526.0	526.0	524.4	522.0	521.6	520.4	520.4
42.5°	485.2	482.8	482.4	482.8	481.2	480.4	479.2	482.0
45°	439.6	440.8	438.8	439.2	438.4	440.0	440.0	441.6
47.5°	397.6	396.1	396.8	397.6	398.8	398.8	398.4	398.0
50°	352.9	354.5	356.1	354.1	354.9	355.3	353.3	353.7
52.5°	314.5	314.9	316.0	314.9	316.0	315.7	316.4	314.9
55°	277.2	277.2	278.8	279.2	279.6	280.8	281.2	282.4
57.5°	241.2	243.2	245.2	244.8	246.3	247.9	246.7	247.9
60°	209.9	211.5	213.5	214.3	215.5	216.2	216.2	217.0
62.5°	178.2	181.4	183.0	184.6	184.6	186.1	187.7	188.1
65°	149.7	153.3	154.5	155.6	156.4	158.0	160.0	159.6
67.5°	122.8	125.2	126.7	127.5	129.9	130.7	132.3	133.9
70°	96.2	99.4	100.6	102.2	104.2	105.7	107.3	108.1
72.5°	73.7	76.0	76.8	78.4	80.4	82.0	82.8	84.0
75°	51.5	55.4	55.8	57.0	58.6	60.6	61.8	61.4
77.5°	34.1	36.8	37.2	38.8	40.4	42.0	42.4	42.8
80°	20.2	21.8	22.2	23.0	24.2	25.0	25.7	26.5
82.5°	9.5	10.3	11.1	11.1	11.9	12.7	12.7	13.1
85°	3.2	3.2	3.6	3.6	4.0	4.0	4.4	4.0
87.5°	0.4	0.4	0.0	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)