

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: P879391

Luminaire Tested: **LD4C25D010 EU4259030 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: P879391
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 EU4259030 4LBLDWWLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

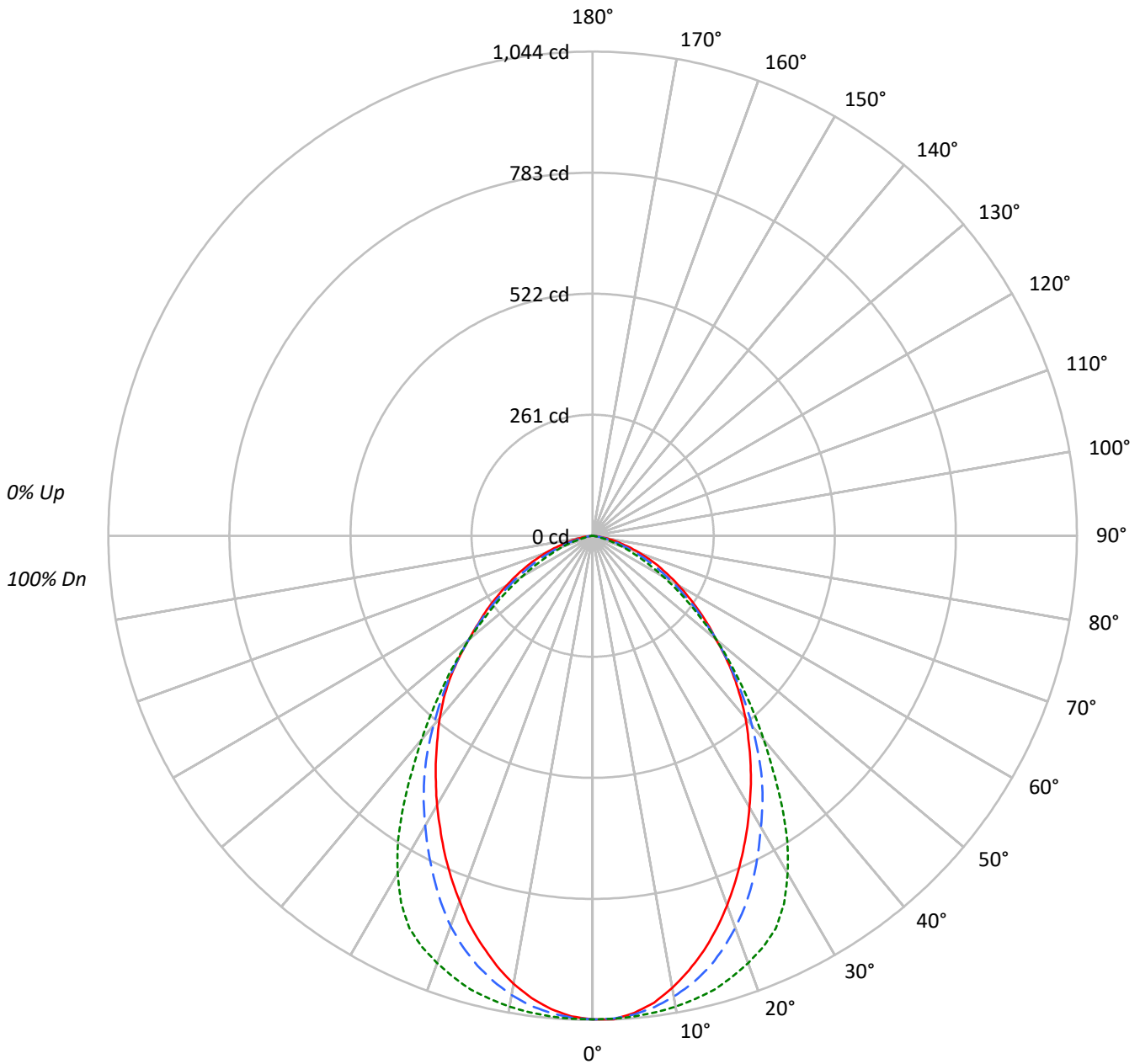
Lumens per Lamp: N/A
Luminaire Lumens: 1915.0 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 31.5
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P879391

CATALOG NUMBER: LD4C25D010 EU4259030 4LBLDWWLI

Luminous Intensity Polar Plot





TEST NUMBER: P879391

CATALOG NUMBER: LD4C25D010 EU4259030 4LBLDWWLI

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77				77
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67				67
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47				47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35				35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32				32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	128099	128099	128099
5°	127343	128305	126381
10°	123464	128616	122391
15°	117788	128904	116504
20°	110827	128162	109611
25°	103238	126648	102384
30°	95925	119261	95145
35°	88951	106678	88306
40°	82240	91990	82176
45°	74935	78514	75543
50°	66187	66397	66550
55°	59309	54297	59544
60°	52409	43122	52508
65°	46133	32878	45668
70°	38255	23528	38255
75°	29809	13528	28670
80°	19314	3325	18465
85°	7189	1128	5497



TEST NUMBER: P879391

CATALOG NUMBER: LD4C25D010 EU4259030 4LBLDWWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	5.1
10°-20°	270.8	14.1
20°-30°	378.6	19.8
30°-40°	399.3	20.9
40°-50°	339.7	17.7
50°-60°	239.7	12.5
60°-70°	135.9	7.1
70°-80°	48.5	2.5
80°-90°	4.6	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°	747.2	39.0
0°-40°	1146.6	59.9
0°-60°	1726.0	90.1
0°-90°	1915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1915.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1043	1043	1043	1043	1043	
5°	1033	1036	1040	1033	1025	97
15°	926	965	1014	960	916	260
25°	762	818	934	811	755	350
35°	593	636	711	632	589	371
45°	431	438	452	440	435	332
55°	277	268	254	268	278	249
65°	159	136	113	136	157	157
75°	63	43	28	42	60	68
85°	5	2	1	2	4	9
90°	0	0	0	0	0	



TEST NUMBER: P879391

CATALOG NUMBER: LD4C25D010 EU4259030 4LBDWWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7
2.5°	1043.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.9	1041.9
5°	1032.6	1031.8	1031.4	1031.4	1031.4	1031.4	1031.8	1033.3	1034.1	1035.3	1036.1
7.5°	1015.4	1013.9	1014.6	1014.6	1015.4	1016.2	1017.4	1018.9	1021.3	1022.8	1024.8
10°	989.7	988.1	990.1	990.8	993.2	994.4	996.3	998.6	1003.3	1005.7	1008.8
12.5°	959.6	958.9	959.6	962.8	965.1	966.7	969.0	974.1	978.8	983.8	989.3
15°	926.1	924.2	925.3	929.2	933.1	935.9	937.8	944.4	950.7	958.5	965.1
17.5°	888.7	885.9	889.1	892.2	897.3	899.6	902.3	909.7	918.3	926.9	934.3
20°	847.7	847.0	848.9	853.2	858.3	861.4	863.7	871.9	879.3	891.0	899.6
22.5°	805.2	806.0	807.6	812.3	815.8	820.0	823.6	831.0	839.5	850.5	861.4
25°	761.6	762.7	765.5	768.6	774.4	776.8	781.1	788.9	796.3	806.4	818.5
27.5°	719.4	719.8	723.0	724.5	730.0	735.0	737.0	745.2	753.8	761.6	772.1
30°	676.2	677.3	679.3	683.6	689.0	691.0	693.3	700.7	707.4	717.1	725.3
32.5°	634.8	634.0	636.4	638.7	645.0	648.5	649.6	658.2	664.1	673.8	681.6
35°	593.1	591.2	594.7	597.0	602.5	605.6	607.1	613.8	619.2	627.4	636.0
37.5°	551.4	552.9	554.5	556.4	559.2	560.0	564.6	566.2	573.2	579.5	584.1
40°	512.8	512.0	511.2	513.2	516.7	518.2	518.6	522.9	524.5	530.7	534.2
42.5°	471.4	471.8	471.4	471.8	473.8	473.8	474.9	477.7	478.8	480.8	485.1
45°	431.3	431.3	430.1	430.5	430.9	430.5	430.9	432.1	434.4	434.4	437.5
47.5°	389.6	388.8	390.3	389.2	388.4	388.0	389.2	388.0	390.3	390.3	391.1
50°	346.3	346.3	348.2	347.8	348.6	347.0	347.4	347.4	347.8	347.4	349.0
52.5°	312.7	312.0	311.2	309.2	310.0	308.4	308.4	308.8	307.7	307.3	305.3
55°	276.9	277.6	276.5	275.7	275.7	274.1	273.7	271.4	269.8	268.7	267.5
57.5°	244.5	245.3	244.9	242.9	240.6	241.0	240.2	237.9	234.4	232.0	230.1
60°	213.3	214.1	213.3	211.3	210.6	209.0	208.6	205.5	202.8	199.7	197.3
62.5°	185.2	185.2	184.8	182.1	180.2	180.5	178.6	176.3	172.7	168.5	164.9
65°	158.7	158.3	156.4	155.2	153.6	151.7	150.5	147.0	144.3	140.8	136.1
67.5°	132.2	131.0	130.2	129.1	125.6	125.2	123.6	120.5	116.6	113.9	110.0
70°	106.5	106.1	104.5	104.5	101.8	100.6	98.3	95.5	92.0	88.1	85.0
72.5°	84.2	83.4	81.9	80.3	78.0	77.2	75.3	72.5	69.4	65.5	61.6
75°	62.8	62.0	61.6	59.7	57.7	55.8	55.0	52.3	49.1	46.4	42.9
77.5°	44.1	43.3	42.1	40.9	39.8	38.6	37.4	35.1	32.4	30.0	26.9
80°	27.3	26.5	25.7	25.3	24.2	23.8	22.2	21.1	18.7	17.2	15.2
82.5°	14.0	14.0	13.3	12.9	12.1	11.7	11.3	10.1	9.0	7.8	6.6
85°	5.1	5.1	4.7	4.3	4.3	3.9	3.9	3.5	2.7	2.7	1.9
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



TEST NUMBER: P879391

CATALOG NUMBER: LD4C25D010 EU4259030 4LBDWWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7
2.5°	1042.3	1041.9	1042.3	1042.3	1042.7	1042.7	1042.7	1042.3	1042.7	1042.3	1042.3
5°	1036.1	1037.2	1038.0	1038.8	1039.2	1039.6	1039.6	1040.0	1040.4	1040.4	1040.0
7.5°	1026.3	1028.7	1031.0	1032.6	1033.3	1034.1	1035.3	1036.1	1036.9	1036.5	1036.1
10°	1013.5	1017.4	1020.5	1023.6	1025.2	1026.3	1028.3	1029.8	1030.6	1031.0	1029.8
12.5°	995.1	1000.6	1005.7	1010.7	1013.1	1014.6	1018.5	1021.3	1022.8	1022.8	1021.6
15°	972.1	979.9	987.3	994.0	997.9	1000.2	1006.1	1010.0	1012.3	1013.5	1011.5
17.5°	944.4	953.4	962.4	971.0	974.9	978.4	986.6	992.0	997.1	997.9	995.5
20°	909.0	920.3	930.4	940.9	945.2	950.7	960.0	969.0	976.8	980.3	973.7
22.5°	869.2	881.7	891.0	903.9	909.7	915.6	927.7	939.0	952.6	960.0	948.3
25°	827.8	838.4	849.7	862.2	870.4	876.6	890.6	905.1	923.4	934.3	917.9
27.5°	783.4	792.8	806.4	820.0	826.3	834.1	850.9	866.5	884.0	893.7	881.7
30°	737.4	749.1	761.9	774.4	783.4	790.8	804.5	817.7	832.5	840.7	831.7
32.5°	691.8	703.1	714.0	727.6	732.7	739.3	751.4	762.7	774.0	781.4	770.9
35°	643.8	653.9	664.1	673.4	675.8	683.6	693.3	699.9	705.4	711.3	704.2
37.5°	591.5	599.3	604.4	614.5	618.4	619.6	627.4	632.1	637.9	639.1	638.7
40°	538.5	545.5	549.8	556.1	559.2	559.2	564.6	568.9	573.2	573.6	573.2
42.5°	489.0	492.5	496.0	499.9	499.1	503.8	506.1	508.1	511.2	511.2	512.0
45°	439.1	441.8	444.9	445.7	448.8	448.8	450.8	451.6	453.1	451.9	450.4
47.5°	392.7	393.8	394.2	397.7	398.5	395.8	398.1	398.5	398.1	398.1	397.4
50°	348.6	349.4	349.0	347.8	348.2	349.4	348.2	346.7	347.4	347.4	348.2
52.5°	305.7	304.2	303.4	303.4	301.8	301.8	299.9	299.1	298.7	297.1	299.1
55°	266.3	264.0	260.5	259.7	258.5	258.1	255.8	253.9	253.1	253.5	253.1
57.5°	228.5	225.0	222.7	221.9	220.7	218.4	215.6	213.7	213.3	212.5	212.5
60°	194.2	190.3	186.8	183.3	183.7	182.1	179.4	178.2	177.0	175.5	176.6
62.5°	163.0	158.7	154.8	151.3	149.0	147.8	145.8	143.9	142.7	141.5	143.1
65°	132.2	128.7	124.4	120.9	119.7	118.5	116.6	113.5	113.1	113.1	113.9
67.5°	104.5	100.6	96.7	94.4	92.8	91.2	90.5	88.9	87.7	87.0	87.3
70°	80.3	76.4	73.3	71.0	69.8	69.4	66.7	66.3	65.9	65.5	65.1
72.5°	58.5	55.4	52.6	51.1	49.5	48.4	47.6	46.4	46.0	46.0	46.0
75°	40.2	37.8	34.7	32.8	32.0	30.8	29.6	28.9	28.1	28.5	28.5
77.5°	24.2	21.8	19.9	18.3	17.9	16.8	15.6	14.8	13.6	13.6	14.0
80°	13.3	11.3	9.7	8.6	7.8	7.4	6.2	5.8	5.1	4.7	4.7
82.5°	5.8	4.7	3.9	3.5	3.1	2.7	2.3	1.9	1.9	1.6	1.9
85°	1.9	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



TEST NUMBER: P879391

CATALOG NUMBER: LD4C25D010 EU4259030 4LBDWWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7
2.5°	1041.9	1041.9	1041.5	1041.5	1041.5	1040.8	1040.8	1040.4	1040.0	1039.6	1038.8
5°	1039.2	1038.8	1038.0	1037.6	1037.2	1036.1	1034.9	1034.1	1033.0	1031.4	1030.6
7.5°	1035.3	1034.1	1032.6	1031.8	1030.6	1027.9	1025.9	1024.0	1022.0	1019.3	1016.2
10°	1028.7	1026.3	1024.0	1022.4	1020.5	1017.0	1013.1	1010.0	1005.7	1001.8	997.5
12.5°	1019.3	1016.6	1011.9	1009.6	1007.2	1002.2	997.1	990.5	984.6	979.1	974.1
15°	1007.6	1002.5	997.1	994.0	990.5	982.3	974.5	967.4	959.6	953.0	944.8
17.5°	990.5	983.0	975.2	971.7	967.1	957.7	948.3	938.6	929.6	921.4	911.3
20°	964.7	956.5	946.4	940.9	937.0	924.6	915.6	904.7	895.3	885.2	873.9
22.5°	934.7	923.4	912.1	904.3	900.0	887.5	875.4	865.7	855.5	843.8	835.6
25°	900.8	886.7	873.1	865.3	858.7	845.4	833.7	823.6	811.1	800.9	792.8
27.5°	862.6	846.6	830.6	822.8	816.5	802.1	789.6	779.1	767.0	758.0	749.5
30°	816.9	802.5	787.3	781.1	773.6	758.8	744.4	735.0	721.8	712.4	703.1
32.5°	760.0	750.6	738.6	730.0	726.1	712.4	700.3	689.0	677.7	670.3	661.0
35°	697.6	689.4	679.3	674.6	669.5	661.0	651.2	641.5	632.5	625.5	616.9
37.5°	634.4	626.2	620.0	614.9	611.8	604.0	598.2	590.8	584.5	577.9	573.2
40°	568.9	566.6	560.0	557.6	556.8	548.3	543.2	537.3	533.4	529.5	526.8
42.5°	510.8	506.9	501.9	502.2	499.9	495.2	491.7	487.8	485.1	483.1	480.4
45°	453.5	450.4	448.0	450.0	446.1	444.5	441.8	441.4	439.5	436.0	434.8
47.5°	398.9	398.5	398.9	397.7	397.0	396.2	396.6	394.6	392.7	391.5	389.9
50°	349.0	349.4	350.2	351.3	348.6	349.8	349.4	349.0	349.0	347.8	348.6
52.5°	300.6	301.0	301.8	303.0	303.4	303.4	304.5	305.3	306.9	308.8	308.8
55°	255.0	257.8	259.3	261.3	260.1	262.4	263.6	267.1	268.3	268.3	269.8
57.5°	214.5	217.2	218.4	220.7	221.5	223.4	226.6	228.5	231.2	233.6	235.9
60°	177.4	178.6	181.7	185.2	184.4	189.1	191.5	194.6	198.1	199.7	202.8
62.5°	144.3	145.8	148.2	149.3	152.1	154.4	159.9	163.0	166.1	170.0	173.1
65°	114.6	116.2	118.5	120.9	122.1	125.6	128.3	133.8	136.5	140.8	144.3
67.5°	87.7	90.1	92.0	93.6	94.4	97.9	102.2	104.5	109.6	113.9	116.6
70°	65.5	67.5	69.8	69.4	71.0	73.7	76.8	80.3	84.2	88.1	91.2
72.5°	45.6	47.6	49.1	49.5	51.1	53.0	55.4	58.1	61.2	65.1	69.4
75°	28.9	29.2	30.8	31.6	32.4	34.7	36.7	39.4	42.1	45.2	48.0
77.5°	14.4	15.6	16.4	17.2	17.5	19.5	21.4	23.8	26.1	29.2	32.0
80°	5.5	5.8	7.0	7.4	8.2	9.4	10.9	12.1	14.0	16.4	17.9
82.5°	1.9	2.3	2.7	2.7	3.1	3.9	4.3	5.5	6.6	7.4	8.2
85°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.6	1.9	2.3	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: P879391

CATALOG NUMBER: LD4C25D010 EU4259030 4LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7	1042.7
2.5°	1038.4	1038.4	1038.0	1037.6	1037.6	1037.6	1037.2	1037.2
5°	1029.1	1027.9	1027.5	1026.7	1026.3	1025.9	1024.8	1024.8
7.5°	1013.9	1012.3	1011.1	1010.0	1008.4	1007.2	1007.2	1005.7
10°	993.6	990.5	988.9	987.3	985.4	983.0	982.3	981.1
12.5°	969.0	962.8	961.2	958.5	955.4	953.8	951.1	951.1
15°	938.6	932.0	928.5	926.9	923.0	920.3	919.1	916.0
17.5°	903.1	898.0	892.6	890.2	885.9	882.4	880.9	880.5
20°	867.2	859.0	855.5	852.0	847.0	843.8	841.5	838.4
22.5°	825.9	818.5	813.4	811.1	806.8	801.3	797.4	797.4
25°	782.2	775.6	772.9	767.8	762.7	760.8	756.1	755.3
27.5°	740.5	733.9	728.4	725.7	719.8	717.1	713.2	711.6
30°	697.2	689.4	685.5	685.1	678.1	675.4	672.3	670.7
32.5°	653.9	647.3	643.4	641.1	637.9	633.3	630.5	629.0
35°	611.0	606.8	603.2	600.5	595.4	593.1	590.8	588.8
37.5°	566.2	562.3	560.7	558.4	556.1	551.8	551.0	549.4
40°	522.9	517.8	517.8	516.3	513.9	513.6	512.4	512.4
42.5°	477.7	475.3	474.9	475.3	473.8	473.0	471.8	474.6
45°	432.8	434.0	432.1	432.4	431.7	433.2	433.2	434.8
47.5°	391.5	389.9	390.7	391.5	392.7	392.7	392.3	391.9
50°	347.4	349.0	350.6	348.6	349.4	349.8	347.8	348.2
52.5°	309.6	310.0	311.2	310.0	311.2	310.8	311.6	310.0
55°	273.0	273.0	274.5	274.9	275.3	276.5	276.9	278.0
57.5°	237.5	239.4	241.4	241.0	242.5	244.1	242.9	244.1
60°	206.7	208.2	210.2	211.0	212.1	212.9	212.9	213.7
62.5°	175.5	178.6	180.2	181.7	181.7	183.3	184.8	185.2
65°	147.4	150.9	152.1	153.2	154.0	155.6	157.5	157.1
67.5°	120.9	123.2	124.8	125.6	127.9	128.7	130.2	131.8
70°	94.8	97.9	99.0	100.6	102.6	104.1	105.7	106.5
72.5°	72.5	74.9	75.6	77.2	79.2	80.7	81.5	82.7
75°	50.7	54.6	55.0	56.2	57.7	59.7	60.8	60.4
77.5°	33.5	36.3	36.7	38.2	39.8	41.3	41.7	42.1
80°	19.9	21.4	21.8	22.6	23.8	24.6	25.3	26.1
82.5°	9.4	10.1	10.9	10.9	11.7	12.5	12.5	12.9
85°	3.1	3.1	3.5	3.5	3.9	3.9	4.3	3.9
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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)