

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: P879389

Luminaire Tested: **LD4C25D010 EU4259027 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: P879389
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 EU4259027 4LBLDWWLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LBLDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

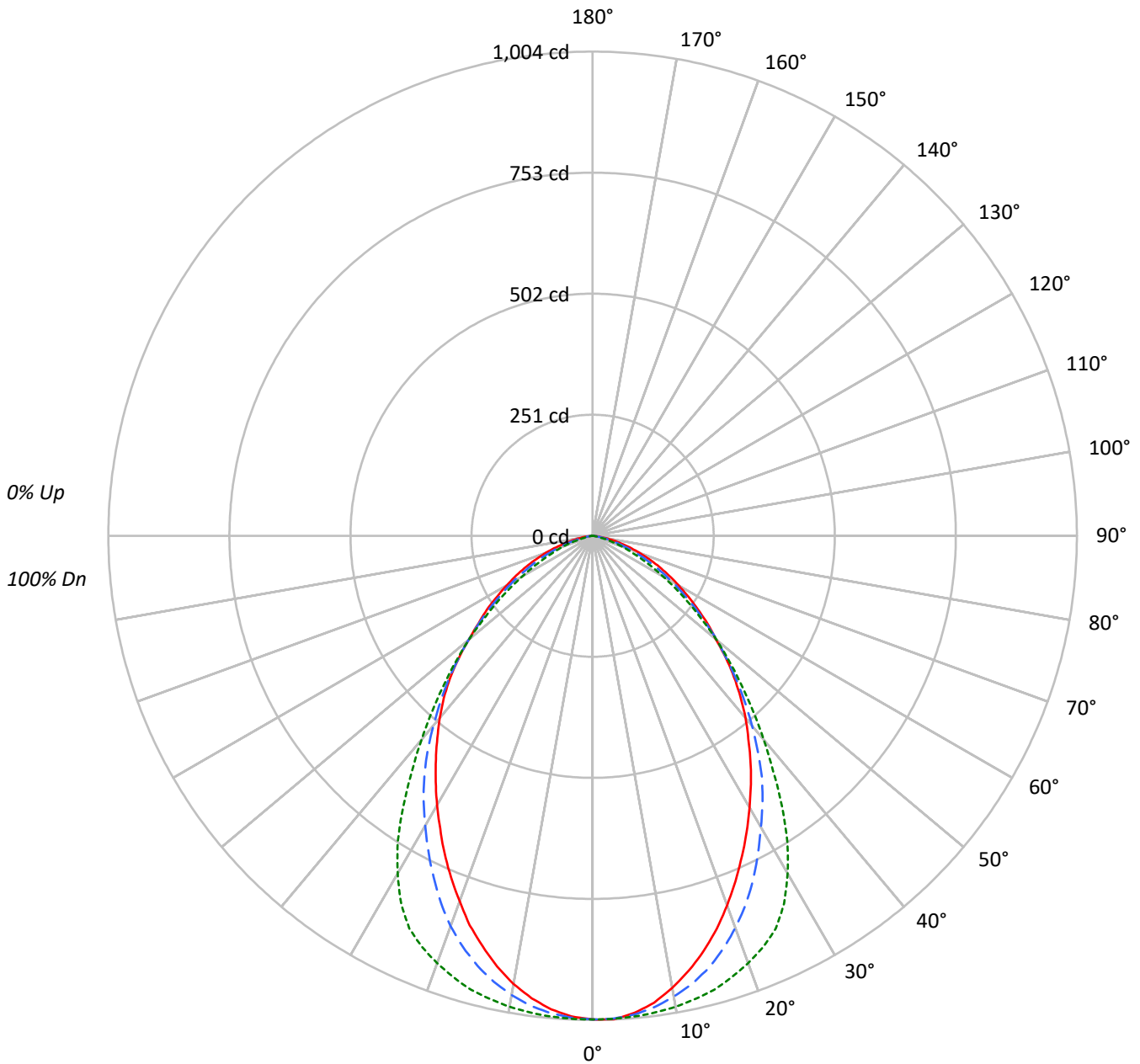
Lumens per Lamp: N/A
Luminaire Lumens: 1842.0 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P879389

CATALOG NUMBER: LD4C25D010 EU4259027 4LBLDWWLI

Luminous Intensity Polar Plot





TEST NUMBER: P879389

CATALOG NUMBER: LD4C25D010 EU4259027 4LBLDWWLI

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			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°	123222	123222	123222
5°	122484	123409	121559
10°	118748	123713	117725
15°	113298	123982	112065
20°	106604	123273	105427
25°	99293	121822	98480
30°	92265	114721	91513
35°	85562	102599	84947
40°	79096	88478	79048
45°	72068	75525	72659
50°	63664	63874	64008
55°	57038	52219	57274
60°	50419	41475	50493
65°	44389	31628	43953
70°	36782	22630	36782
75°	28670	13006	27578
80°	18607	3184	17758
85°	6907	1128	5356



TEST NUMBER: P879389

CATALOG NUMBER: LD4C25D010 EU4259027 4LBDWWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.1	5.1
10°-20°	260.5	14.1
20°-30°	364.1	19.8
30°-40°	384.1	20.9
40°-50°	326.8	17.7
50°-60°	230.6	12.5
60°-70°	130.7	7.1
70°-80°	46.6	2.5
80°-90°	4.5	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°	718.8	39.0
0°-40°	1102.9	59.9
0°-60°	1660.2	90.1
0°-90°	1842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1842.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1003	1003	1003	1003	1003	
5°	993	997	1001	994	986	94
15°	891	928	975	923	881	250
25°	732	787	899	780	726	337
35°	570	612	684	608	566	357
45°	415	421	435	423	418	319
55°	266	257	244	258	267	239
65°	153	131	109	131	151	151
75°	60	41	27	40	58	65
85°	5	2	1	2	4	9
90°	0	0	0	0	0	



TEST NUMBER: P879389

CATALOG NUMBER: LD4C25D010 EU4259027 4LBDWVLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0
2.5°	1003.7	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1002.2	1002.2
5°	993.2	992.5	992.1	992.1	992.1	992.1	992.5	994.0	994.7	995.8	996.6
7.5°	976.7	975.2	976.0	976.0	976.7	977.5	978.6	980.1	982.3	983.8	985.7
10°	951.9	950.4	952.3	953.1	955.3	956.4	958.3	960.6	965.1	967.3	970.3
12.5°	923.1	922.3	923.1	926.1	928.3	929.8	932.1	936.9	941.4	946.3	951.6
15°	890.8	888.9	890.1	893.8	897.6	900.2	902.1	908.4	914.4	921.9	928.3
17.5°	854.8	852.2	855.2	858.2	863.1	865.3	867.9	875.1	883.3	891.6	898.7
20°	815.4	814.7	816.5	820.7	825.5	828.5	830.8	838.7	845.8	857.1	865.3
22.5°	774.5	775.3	776.8	781.3	784.7	788.8	792.2	799.3	807.5	818.0	828.5
25°	732.5	733.7	736.3	739.3	744.9	747.2	751.3	758.8	765.9	775.7	787.3
27.5°	692.0	692.4	695.4	696.9	702.1	707.0	708.9	716.8	725.0	732.5	742.7
30°	650.4	651.5	653.4	657.5	662.8	664.6	666.9	674.0	680.4	689.8	697.6
32.5°	610.6	609.9	612.1	614.4	620.4	623.8	624.9	633.1	638.8	648.1	655.6
35°	570.5	568.6	572.0	574.2	579.5	582.5	584.0	590.4	595.6	603.5	611.8
37.5°	530.4	531.9	533.4	535.2	537.9	538.6	543.1	544.6	551.4	557.4	561.9
40°	493.2	492.5	491.7	493.6	497.0	498.5	498.9	503.0	504.5	510.5	513.9
42.5°	453.5	453.8	453.5	453.8	455.7	455.7	456.8	459.5	460.6	462.5	466.6
45°	414.8	414.8	413.7	414.1	414.5	414.1	414.5	415.6	417.8	417.8	420.8
47.5°	374.7	374.0	375.5	374.3	373.6	373.2	374.3	373.2	375.5	375.5	376.2
50°	333.1	333.1	334.9	334.6	335.3	333.8	334.2	334.2	334.6	334.2	335.7
52.5°	300.8	300.1	299.3	297.4	298.2	296.7	296.7	297.1	295.9	295.6	293.7
55°	266.3	267.1	265.9	265.2	265.2	263.7	263.3	261.1	259.6	258.4	257.3
57.5°	235.2	235.9	235.5	233.7	231.4	231.8	231.0	228.8	225.4	223.2	221.3
60°	205.2	205.9	205.2	203.3	202.5	201.0	200.7	197.7	195.0	192.0	189.8
62.5°	178.2	178.2	177.8	175.2	173.3	173.7	171.8	169.5	166.2	162.0	158.7
65°	152.7	152.3	150.4	149.3	147.8	145.9	144.8	141.4	138.8	135.4	130.9
67.5°	127.2	126.0	125.3	124.2	120.8	120.4	118.9	115.9	112.1	109.5	105.8
70°	102.4	102.0	100.5	100.5	97.9	96.8	94.5	91.9	88.5	84.8	81.8
72.5°	81.0	80.3	78.8	77.3	75.0	74.3	72.4	69.8	66.8	63.0	59.3
75°	60.4	59.6	59.3	57.4	55.5	53.6	52.9	50.3	47.3	44.6	41.3
77.5°	42.4	41.6	40.5	39.4	38.3	37.1	36.0	33.8	31.1	28.9	25.9
80°	26.3	25.5	24.8	24.4	23.3	22.9	21.4	20.3	18.0	16.5	14.6
82.5°	13.5	13.5	12.8	12.4	11.6	11.3	10.9	9.8	8.6	7.5	6.4
85°	4.9	4.9	4.5	4.1	4.1	3.8	3.8	3.4	2.6	2.6	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: P879389

CATALOG NUMBER: LD4C25D010 EU4259027 4LBLDWWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0
2.5°	1002.6	1002.2	1002.6	1002.6	1003.0	1003.0	1003.0	1002.6	1003.0	1002.6	1002.6
5°	996.6	997.7	998.5	999.2	999.6	1000.0	1000.0	1000.3	1000.7	1000.7	1000.3
7.5°	987.2	989.5	991.7	993.2	994.0	994.7	995.8	996.6	997.3	997.0	996.6
10°	974.8	978.6	981.6	984.6	986.1	987.2	989.1	990.6	991.3	991.7	990.6
12.5°	957.2	962.4	967.3	972.2	974.5	976.0	979.7	982.3	983.8	983.8	982.7
15°	935.1	942.6	949.7	956.1	959.8	962.1	967.7	971.5	973.7	974.8	973.0
17.5°	908.4	917.1	925.7	933.9	937.7	941.1	948.9	954.2	959.1	959.8	957.6
20°	874.3	885.2	894.9	905.1	909.2	914.4	923.4	932.1	939.6	942.9	936.6
22.5°	836.0	848.1	857.1	869.4	875.1	880.7	892.3	903.2	916.3	923.4	912.2
25°	796.3	806.4	817.3	829.3	837.2	843.2	856.7	870.6	888.2	898.7	882.9
27.5°	753.5	762.5	775.7	788.8	794.8	802.3	818.4	833.4	850.3	859.7	848.1
30°	709.3	720.5	732.9	744.9	753.5	760.7	773.8	786.5	800.8	808.7	800.0
32.5°	665.4	676.3	686.8	699.9	704.8	711.1	722.8	733.7	744.5	751.7	741.5
35°	619.3	629.0	638.8	647.8	650.0	657.5	666.9	673.3	678.5	684.1	677.4
37.5°	569.0	576.5	581.4	591.1	594.9	596.0	603.5	608.0	613.6	614.8	614.4
40°	518.0	524.7	528.9	534.9	537.9	537.9	543.1	547.2	551.4	551.7	551.4
42.5°	470.3	473.7	477.1	480.8	480.1	484.6	486.9	488.7	491.7	491.7	492.5
45°	422.3	425.0	428.0	428.7	431.7	431.7	433.6	434.3	435.8	434.7	433.2
47.5°	377.7	378.8	379.2	382.6	383.3	380.7	383.0	383.3	383.0	383.0	382.2
50°	335.3	336.1	335.7	334.6	334.9	336.1	334.9	333.4	334.2	334.2	334.9
52.5°	294.1	292.6	291.8	291.8	290.3	290.3	288.4	287.7	287.3	285.8	287.7
55°	256.2	253.9	250.6	249.8	248.7	248.3	246.1	244.2	243.4	243.8	243.4
57.5°	219.8	216.4	214.2	213.4	212.3	210.0	207.4	205.5	205.2	204.4	204.4
60°	186.8	183.0	179.7	176.3	176.7	175.2	172.5	171.4	170.3	168.8	169.9
62.5°	156.8	152.7	148.9	145.5	143.3	142.2	140.3	138.4	137.3	136.2	137.7
65°	127.2	123.8	119.6	116.3	115.1	114.0	112.1	109.1	108.8	108.8	109.5
67.5°	100.5	96.8	93.0	90.8	89.3	87.8	87.0	85.5	84.4	83.6	84.0
70°	77.3	73.5	70.5	68.3	67.1	66.8	64.1	63.8	63.4	63.0	62.6
72.5°	56.3	53.3	50.6	49.1	47.6	46.5	45.8	44.6	44.3	44.3	44.3
75°	38.6	36.4	33.4	31.5	30.8	29.6	28.5	27.8	27.0	27.4	27.4
77.5°	23.3	21.0	19.1	17.6	17.3	16.1	15.0	14.3	13.1	13.1	13.5
80°	12.8	10.9	9.4	8.3	7.5	7.1	6.0	5.6	4.9	4.5	4.5
82.5°	5.6	4.5	3.8	3.4	3.0	2.6	2.3	1.9	1.9	1.5	1.9
85°	1.9	1.5	1.1	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: P879389

CATALOG NUMBER: LD4C25D010 EU4259027 4LBDWVLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0
2.5°	1002.2	1002.2	1001.8	1001.8	1001.8	1001.1	1001.1	1000.7	1000.3	1000.0	999.2
5°	999.6	999.2	998.5	998.1	997.7	996.6	995.5	994.7	993.6	992.1	991.3
7.5°	995.8	994.7	993.2	992.5	991.3	988.7	986.8	985.0	983.1	980.5	977.5
10°	989.5	987.2	985.0	983.5	981.6	978.2	974.5	971.5	967.3	963.6	959.4
12.5°	980.5	977.8	973.3	971.1	968.8	963.9	959.1	952.7	947.1	941.8	936.9
15°	969.2	964.3	959.1	956.1	952.7	944.8	937.3	930.6	923.1	916.7	908.8
17.5°	952.7	945.6	938.1	934.7	930.2	921.2	912.2	902.8	894.2	886.3	876.6
20°	927.9	920.1	910.3	905.1	901.3	889.3	880.7	870.2	861.2	851.4	840.5
22.5°	899.1	888.2	877.3	869.8	865.7	853.7	842.0	832.7	822.9	811.7	803.8
25°	866.4	852.9	839.8	832.3	825.9	813.2	801.9	792.2	780.2	770.4	762.5
27.5°	829.7	814.3	798.9	791.4	785.4	771.5	759.5	749.4	737.8	729.2	720.9
30°	785.8	771.9	757.3	751.3	744.2	729.9	716.0	707.0	694.3	685.3	676.3
32.5°	731.0	722.0	710.4	702.1	698.4	685.3	673.6	662.8	651.9	644.8	635.8
35°	671.0	663.1	653.4	648.9	644.0	635.8	626.4	617.0	608.4	601.6	593.4
37.5°	610.3	602.4	596.4	591.5	588.5	581.0	575.4	568.2	562.2	555.9	551.4
40°	547.2	545.0	538.6	536.4	535.6	527.4	522.5	516.9	513.1	509.4	506.7
42.5°	491.4	487.6	482.7	483.1	480.8	476.3	473.0	469.2	466.6	464.7	462.1
45°	436.2	433.2	431.0	432.8	429.1	427.6	425.0	424.6	422.7	419.3	418.2
47.5°	383.7	383.3	383.7	382.6	381.8	381.1	381.5	379.6	377.7	376.6	375.1
50°	335.7	336.1	336.8	337.9	335.3	336.4	336.1	335.7	335.7	334.6	335.3
52.5°	289.2	289.6	290.3	291.4	291.8	291.8	292.9	293.7	295.2	297.1	297.1
55°	245.3	247.9	249.4	251.3	250.2	252.4	253.6	256.9	258.1	258.1	259.6
57.5°	206.3	208.9	210.0	212.3	213.0	214.9	217.9	219.8	222.4	224.7	226.9
60°	170.7	171.8	174.8	178.2	177.4	181.9	184.2	187.2	190.5	192.0	195.0
62.5°	138.8	140.3	142.5	143.7	146.3	148.5	153.8	156.8	159.8	163.5	166.5
65°	110.3	111.8	114.0	116.3	117.4	120.8	123.4	128.7	131.3	135.4	138.8
67.5°	84.4	86.6	88.5	90.0	90.8	94.1	98.3	100.5	105.4	109.5	112.1
70°	63.0	64.9	67.1	66.8	68.3	70.9	73.9	77.3	81.0	84.8	87.8
72.5°	43.9	45.8	47.3	47.6	49.1	51.0	53.3	55.9	58.9	62.6	66.8
75°	27.8	28.1	29.6	30.4	31.1	33.4	35.3	37.9	40.5	43.5	46.1
77.5°	13.9	15.0	15.8	16.5	16.9	18.8	20.6	22.9	25.1	28.1	30.8
80°	5.3	5.6	6.8	7.1	7.9	9.0	10.5	11.6	13.5	15.8	17.3
82.5°	1.9	2.3	2.6	2.6	3.0	3.8	4.1	5.3	6.4	7.1	7.9
85°	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.5	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: P879389

CATALOG NUMBER: LD4C25D010 EU4259027 4LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0	1003.0
2.5°	998.8	998.8	998.5	998.1	998.1	998.1	997.7	997.7
5°	989.8	988.7	988.3	987.6	987.2	986.8	985.7	985.7
7.5°	975.2	973.7	972.6	971.5	970.0	968.8	968.8	967.3
10°	955.7	952.7	951.2	949.7	947.8	945.6	944.8	943.7
12.5°	932.1	926.1	924.6	921.9	918.9	917.4	914.8	914.8
15°	902.8	896.4	893.1	891.6	887.8	885.2	884.1	881.1
17.5°	868.7	863.8	858.6	856.3	852.2	848.8	847.3	846.9
20°	834.2	826.3	822.9	819.5	814.7	811.7	809.4	806.4
22.5°	794.4	787.3	782.4	780.2	776.0	770.8	767.0	767.0
25°	752.4	746.0	743.4	738.5	733.7	731.8	727.3	726.5
27.5°	712.3	705.9	700.6	698.0	692.4	689.8	686.0	684.5
30°	670.6	663.1	659.4	659.0	652.3	649.6	646.6	645.1
32.5°	629.0	622.6	618.9	616.6	613.6	609.1	606.5	605.0
35°	587.7	583.6	580.2	577.6	572.7	570.5	568.2	566.4
37.5°	544.6	540.9	539.4	537.1	534.9	530.7	530.0	528.5
40°	503.0	498.1	498.1	496.6	494.4	494.0	492.9	492.9
42.5°	459.5	457.2	456.8	457.2	455.7	455.0	453.8	456.5
45°	416.3	417.5	415.6	416.0	415.2	416.7	416.7	418.2
47.5°	376.6	375.1	375.8	376.6	377.7	377.7	377.3	377.0
50°	334.2	335.7	337.2	335.3	336.1	336.4	334.6	334.9
52.5°	297.8	298.2	299.3	298.2	299.3	298.9	299.7	298.2
55°	262.6	262.6	264.1	264.4	264.8	265.9	266.3	267.4
57.5°	228.4	230.3	232.2	231.8	233.3	234.8	233.7	234.8
60°	198.8	200.3	202.2	202.9	204.0	204.8	204.8	205.5
62.5°	168.8	171.8	173.3	174.8	174.8	176.3	177.8	178.2
65°	141.8	145.2	146.3	147.4	148.2	149.7	151.5	151.2
67.5°	116.3	118.5	120.0	120.8	123.0	123.8	125.3	126.8
70°	91.1	94.1	95.3	96.8	98.6	100.1	101.6	102.4
72.5°	69.8	72.0	72.8	74.3	76.1	77.6	78.4	79.5
75°	48.8	52.5	52.9	54.0	55.5	57.4	58.5	58.1
77.5°	32.3	34.9	35.3	36.8	38.3	39.8	40.1	40.5
80°	19.1	20.6	21.0	21.8	22.9	23.6	24.4	25.1
82.5°	9.0	9.8	10.5	10.5	11.3	12.0	12.0	12.4
85°	3.0	3.0	3.4	3.4	3.8	3.8	4.1	3.8
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)