

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: P879393

Luminaire Tested: **LD4C25D010 EU4259035 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: P879393
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 EU4259035 4LBLDWWLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBLDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

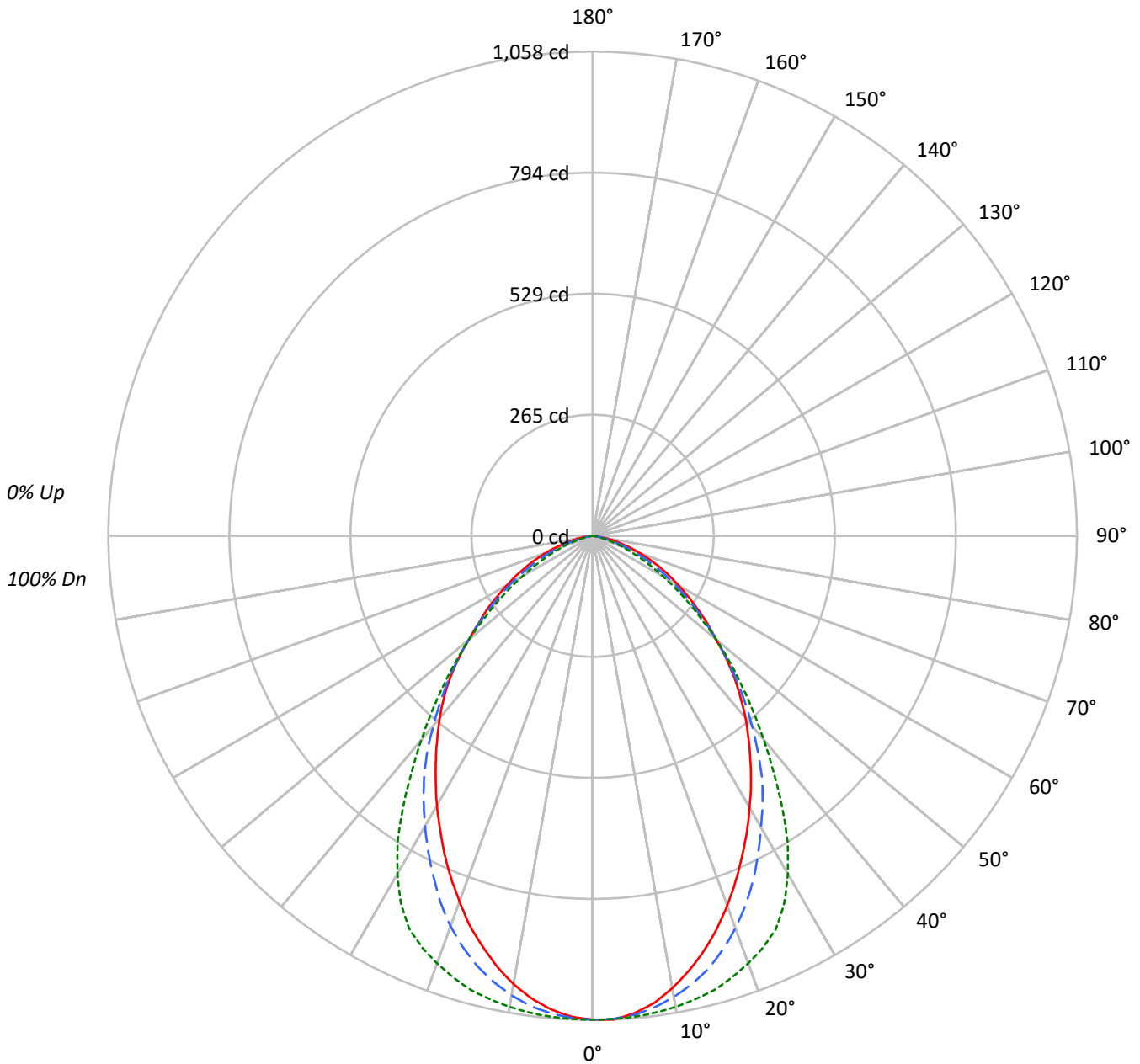
Lumens per Lamp: N/A
Luminaire Lumens: 1942.0 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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			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°	129905	129905	129905
5°	129131	130106	128157
10°	125198	130425	124112
15°	119454	130710	118144
20°	112395	129967	111153
25°	104688	128437	103834
30°	97273	120949	96492
35°	90211	108178	89551
40°	83394	93289	83330
45°	75994	79626	76602
50°	67123	67334	67487
55°	60144	55046	60380
60°	53146	43711	53245
65°	46773	33343	46337
70°	38794	23851	38794
75°	30236	13718	29097
80°	19597	3325	18748
85°	7189	1128	5638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	5.1
10°-20°	274.6	14.1
20°-30°	383.9	19.8
30°-40°	405.0	20.9
40°-50°	344.5	17.7
50°-60°	243.1	12.5
60°-70°	137.8	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°	757.8	39.0
0°-40°	1162.7	59.9
0°-60°	1750.3	90.1
0°-90°	1942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1942.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1057	1057	1057	1057	1057	
5°	1047	1051	1055	1048	1039	99
15°	939	979	1028	973	929	263
25°	772	830	948	822	766	355
35°	602	645	721	641	597	376
45°	437	444	458	446	441	336
55°	281	271	257	272	282	252
65°	161	138	115	138	159	159
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°	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4
2.5°	1058.2	1056.2	1056.2	1056.2	1056.2	1056.2	1056.2	1056.2	1056.2	1056.6	1056.6
5°	1047.1	1046.3	1045.9	1045.9	1045.9	1045.9	1046.3	1047.9	1048.7	1049.9	1050.7
7.5°	1029.7	1028.1	1028.9	1028.9	1029.7	1030.5	1031.7	1033.3	1035.7	1037.2	1039.2
10°	1003.6	1002.0	1004.0	1004.8	1007.2	1008.4	1010.4	1012.7	1017.5	1019.8	1023.0
12.5°	973.2	972.4	973.2	976.3	978.7	980.3	982.7	987.8	992.6	997.7	1003.2
15°	939.2	937.2	938.4	942.3	946.3	949.1	951.0	957.8	964.1	972.0	978.7
17.5°	901.2	898.4	901.6	904.8	909.9	912.3	915.0	922.6	931.3	940.0	947.5
20°	859.7	858.9	860.9	865.2	870.4	873.5	875.9	884.2	891.7	903.6	912.3
22.5°	816.6	817.4	819.0	823.7	827.3	831.6	835.2	842.7	851.4	862.5	873.5
25°	772.3	773.5	776.2	779.4	785.3	787.7	792.1	800.0	807.5	817.8	830.0
27.5°	729.6	730.0	733.1	734.7	740.3	745.4	747.4	755.7	764.4	772.3	783.0
30°	685.7	686.9	688.9	693.2	698.7	700.7	703.1	710.6	717.3	727.2	735.5
32.5°	643.8	643.0	645.4	647.7	654.1	657.6	658.8	667.5	673.4	683.3	691.2
35°	601.5	599.5	603.0	605.4	611.0	614.1	615.7	622.4	628.0	636.3	645.0
37.5°	559.2	560.7	562.3	564.3	567.1	567.9	572.6	574.2	581.3	587.6	592.4
40°	520.0	519.2	518.4	520.4	524.0	525.5	525.9	530.3	531.9	538.2	541.8
42.5°	478.1	478.5	478.1	478.5	480.5	480.5	481.6	484.4	485.6	487.6	491.9
45°	437.4	437.4	436.2	436.6	437.0	436.6	437.0	438.1	440.5	440.5	443.7
47.5°	395.0	394.3	395.8	394.6	393.9	393.5	394.6	393.5	395.8	395.8	396.6
50°	351.2	351.2	353.1	352.7	353.5	351.9	352.3	352.3	352.7	352.3	353.9
52.5°	317.1	316.4	315.6	313.6	314.4	312.8	312.8	313.2	312.0	311.6	309.6
55°	280.8	281.6	280.4	279.6	279.6	278.0	277.6	275.2	273.6	272.5	271.3
57.5°	247.9	248.7	248.3	246.4	244.0	244.4	243.6	241.2	237.7	235.3	233.3
60°	216.3	217.1	216.3	214.3	213.5	212.0	211.6	208.4	205.6	202.5	200.1
62.5°	187.8	187.8	187.4	184.7	182.7	183.1	181.1	178.7	175.2	170.8	167.3
65°	160.9	160.5	158.6	157.4	155.8	153.8	152.6	149.1	146.3	142.8	138.0
67.5°	134.1	132.9	132.1	130.9	127.3	126.9	125.4	122.2	118.2	115.5	111.5
70°	108.0	107.6	106.0	106.0	103.2	102.0	99.7	96.9	93.3	89.4	86.2
72.5°	85.4	84.6	83.0	81.5	79.1	78.3	76.3	73.6	70.4	66.4	62.5
75°	63.7	62.9	62.5	60.5	58.5	56.5	55.8	53.0	49.8	47.1	43.5
77.5°	44.7	43.9	42.7	41.5	40.3	39.1	38.0	35.6	32.8	30.4	27.3
80°	27.7	26.9	26.1	25.7	24.5	24.1	22.5	21.4	19.0	17.4	15.4
82.5°	14.2	14.2	13.4	13.0	12.3	11.9	11.5	10.3	9.1	7.9	6.7
85°	5.1	5.1	4.7	4.3	4.3	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°	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4
2.5°	1057.0	1056.6	1057.0	1057.0	1057.4	1057.4	1057.4	1057.0	1057.4	1057.0	1057.0
5°	1050.7	1051.9	1052.7	1053.5	1053.8	1054.2	1054.2	1054.6	1055.0	1055.0	1054.6
7.5°	1040.8	1043.2	1045.5	1047.1	1047.9	1048.7	1049.9	1050.7	1051.5	1051.1	1050.7
10°	1027.7	1031.7	1034.9	1038.0	1039.6	1040.8	1042.8	1044.4	1045.1	1045.5	1044.4
12.5°	1009.2	1014.7	1019.8	1025.0	1027.4	1028.9	1032.9	1035.7	1037.2	1037.2	1036.1
15°	985.8	993.7	1001.3	1008.0	1011.9	1014.3	1020.2	1024.2	1026.6	1027.7	1025.8
17.5°	957.8	966.9	975.9	984.6	988.6	992.2	1000.5	1006.0	1011.1	1011.9	1009.6
20°	921.8	933.2	943.5	954.2	958.5	964.1	973.6	982.7	990.6	994.1	987.4
22.5°	881.4	894.1	903.6	916.6	922.6	928.5	940.8	952.2	966.1	973.6	961.7
25°	839.5	850.2	861.7	874.3	882.6	888.9	903.2	917.8	936.4	947.5	930.9
27.5°	794.4	803.9	817.8	831.6	837.9	845.8	862.9	878.7	896.5	906.3	894.1
30°	747.8	759.6	772.7	785.3	794.4	802.0	815.8	829.2	844.3	852.6	843.5
32.5°	701.5	713.0	724.1	737.9	743.0	749.8	762.0	773.5	784.9	792.5	781.8
35°	652.9	663.2	673.4	682.9	685.3	693.2	703.1	709.8	715.4	721.3	714.2
37.5°	599.9	607.8	612.9	623.2	627.2	628.4	636.3	641.0	646.9	648.1	647.7
40°	546.1	553.2	557.6	563.9	567.1	567.1	572.6	576.9	581.3	581.7	581.3
42.5°	495.9	499.4	503.0	507.0	506.2	510.9	513.3	515.3	518.4	518.4	519.2
45°	445.3	448.0	451.2	452.0	455.2	455.2	457.1	457.9	459.5	458.3	456.7
47.5°	398.2	399.4	399.8	403.3	404.1	401.4	403.7	404.1	403.7	403.7	403.0
50°	353.5	354.3	353.9	352.7	353.1	354.3	353.1	351.5	352.3	352.3	353.1
52.5°	310.0	308.4	307.7	307.7	306.1	306.1	304.1	303.3	302.9	301.3	303.3
55°	270.1	267.7	264.2	263.4	262.2	261.8	259.4	257.4	256.6	257.0	256.6
57.5°	231.7	228.2	225.8	225.0	223.8	221.4	218.7	216.7	216.3	215.5	215.5
60°	196.9	193.0	189.4	185.9	186.3	184.7	181.9	180.7	179.5	177.9	179.1
62.5°	165.3	160.9	157.0	153.4	151.1	149.9	147.9	145.9	144.7	143.5	145.1
65°	134.1	130.5	126.1	122.6	121.4	120.2	118.2	115.1	114.7	114.7	115.5
67.5°	106.0	102.0	98.1	95.7	94.1	92.5	91.7	90.2	89.0	88.2	88.6
70°	81.5	77.5	74.3	72.0	70.8	70.4	67.6	67.2	66.8	66.4	66.0
72.5°	59.3	56.2	53.4	51.8	50.2	49.0	48.2	47.1	46.7	46.7	46.7
75°	40.7	38.4	35.2	33.2	32.4	31.2	30.1	29.3	28.5	28.9	28.9
77.5°	24.5	22.1	20.2	18.6	18.2	17.0	15.8	15.0	13.8	13.8	14.2
80°	13.4	11.5	9.9	8.7	7.9	7.5	6.3	5.9	5.1	4.7	4.7
82.5°	5.9	4.7	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°	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4
2.5°	1056.6	1056.6	1056.2	1056.2	1056.2	1055.4	1055.4	1055.0	1054.6	1054.2	1053.5
5°	1053.8	1053.5	1052.7	1052.3	1051.9	1050.7	1049.5	1048.7	1047.5	1045.9	1045.1
7.5°	1049.9	1048.7	1047.1	1046.3	1045.1	1042.4	1040.4	1038.4	1036.4	1033.7	1030.5
10°	1043.2	1040.8	1038.4	1036.8	1034.9	1031.3	1027.4	1024.2	1019.8	1015.9	1011.5
12.5°	1033.7	1030.9	1026.2	1023.8	1021.4	1016.3	1011.1	1004.4	998.5	993.0	987.8
15°	1021.8	1016.7	1011.1	1008.0	1004.4	996.1	988.2	981.1	973.2	966.5	958.2
17.5°	1004.4	996.9	989.0	985.4	980.7	971.2	961.7	951.8	942.7	934.4	924.1
20°	978.3	970.0	959.7	954.2	950.2	937.6	928.5	917.4	907.9	897.6	886.2
22.5°	947.9	936.4	924.9	917.0	912.7	900.0	887.8	877.9	867.6	855.7	847.4
25°	913.5	899.2	885.4	877.5	870.8	857.3	845.5	835.2	822.5	812.2	803.9
27.5°	874.7	858.5	842.3	834.4	828.1	813.4	800.8	790.1	777.8	768.7	760.0
30°	828.4	813.8	798.4	792.1	784.6	769.5	754.9	745.4	732.0	722.5	713.0
32.5°	770.7	761.2	749.0	740.3	736.3	722.5	710.2	698.7	687.3	679.8	670.3
35°	707.4	699.1	688.9	684.1	679.0	670.3	660.4	650.5	641.4	634.3	625.6
37.5°	643.4	635.1	628.8	623.6	620.4	612.5	606.6	599.1	592.8	586.0	581.3
40°	576.9	574.6	567.9	565.5	564.7	556.0	550.8	544.9	541.0	537.0	534.2
42.5°	518.0	514.1	508.9	509.3	507.0	502.2	498.7	494.7	491.9	490.0	487.2
45°	459.9	456.7	454.4	456.3	452.4	450.8	448.0	447.6	445.7	442.1	440.9
47.5°	404.5	404.1	404.5	403.3	402.6	401.8	402.2	400.2	398.2	397.0	395.4
50°	353.9	354.3	355.1	356.3	353.5	354.7	354.3	353.9	353.9	352.7	353.5
52.5°	304.9	305.3	306.1	307.3	307.7	307.7	308.8	309.6	311.2	313.2	313.2
55°	258.6	261.4	263.0	264.9	263.8	266.1	267.3	270.9	272.1	272.1	273.6
57.5°	217.5	220.3	221.4	223.8	224.6	226.6	229.8	231.7	234.5	236.9	239.2
60°	179.9	181.1	184.3	187.8	187.0	191.8	194.2	197.3	200.9	202.5	205.6
62.5°	146.3	147.9	150.3	151.5	154.2	156.6	162.1	165.3	168.5	172.4	175.6
65°	116.3	117.8	120.2	122.6	123.8	127.3	130.1	135.6	138.4	142.8	146.3
67.5°	89.0	91.3	93.3	94.9	95.7	99.3	103.6	106.0	111.1	115.5	118.2
70°	66.4	68.4	70.8	70.4	72.0	74.7	77.9	81.5	85.4	89.4	92.5
72.5°	46.3	48.2	49.8	50.2	51.8	53.8	56.2	58.9	62.1	66.0	70.4
75°	29.3	29.7	31.2	32.0	32.8	35.2	37.2	39.9	42.7	45.9	48.6
77.5°	14.6	15.8	16.6	17.4	17.8	19.8	21.7	24.1	26.5	29.7	32.4
80°	5.5	5.9	7.1	7.5	8.3	9.5	11.1	12.3	14.2	16.6	18.2
82.5°	2.0	2.4	2.8	2.8	3.2	4.0	4.3	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: P879393

CATALOG NUMBER: LD4C25D010 EU4259035 4LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4	1057.4
2.5°	1053.1	1053.1	1052.7	1052.3	1052.3	1052.3	1051.9	1051.9
5°	1043.6	1042.4	1042.0	1041.2	1040.8	1040.4	1039.2	1039.2
7.5°	1028.1	1026.6	1025.4	1024.2	1022.6	1021.4	1021.4	1019.8
10°	1007.6	1004.4	1002.8	1001.3	999.3	996.9	996.1	994.9
12.5°	982.7	976.3	974.8	972.0	968.8	967.2	964.5	964.5
15°	951.8	945.1	941.5	940.0	936.0	933.2	932.1	928.9
17.5°	915.8	910.7	905.2	902.8	898.4	894.9	893.3	892.9
20°	879.5	871.2	867.6	864.0	858.9	855.7	853.4	850.2
22.5°	837.5	830.0	824.9	822.5	818.2	812.6	808.7	808.7
25°	793.3	786.5	783.8	778.6	773.5	771.5	766.8	766.0
27.5°	750.9	744.2	738.7	735.9	730.0	727.2	723.3	721.7
30°	707.0	699.1	695.2	694.8	687.7	684.9	681.7	680.2
32.5°	663.2	656.4	652.5	650.1	646.9	642.2	639.4	637.8
35°	619.7	615.3	611.7	609.0	603.8	601.5	599.1	597.1
37.5°	574.2	570.2	568.6	566.3	563.9	559.5	558.8	557.2
40°	530.3	525.1	525.1	523.6	521.2	520.8	519.6	519.6
42.5°	484.4	482.0	481.6	482.0	480.5	479.7	478.5	481.3
45°	438.9	440.1	438.1	438.5	437.8	439.3	439.3	440.9
47.5°	397.0	395.4	396.2	397.0	398.2	398.2	397.8	397.4
50°	352.3	353.9	355.5	353.5	354.3	354.7	352.7	353.1
52.5°	314.0	314.4	315.6	314.4	315.6	315.2	316.0	314.4
55°	276.8	276.8	278.4	278.8	279.2	280.4	280.8	281.9
57.5°	240.8	242.8	244.8	244.4	246.0	247.5	246.4	247.5
60°	209.6	211.2	213.1	213.9	215.1	215.9	215.9	216.7
62.5°	177.9	181.1	182.7	184.3	184.3	185.9	187.4	187.8
65°	149.5	153.0	154.2	155.4	156.2	157.8	159.8	159.4
67.5°	122.6	125.0	126.5	127.3	129.7	130.5	132.1	133.7
70°	96.1	99.3	100.4	102.0	104.0	105.6	107.2	108.0
72.5°	73.6	75.9	76.7	78.3	80.3	81.9	82.6	83.8
75°	51.4	55.4	55.8	56.9	58.5	60.5	61.7	61.3
77.5°	34.0	36.8	37.2	38.8	40.3	41.9	42.3	42.7
80°	20.2	21.7	22.1	22.9	24.1	24.9	25.7	26.5
82.5°	9.5	10.3	11.1	11.1	11.9	12.7	12.7	13.0
85°	3.2	3.2	3.6	3.6	4.0	4.0	4.3	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)