

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: P879394

Luminaire Tested: **LD4C25D010 EU4259040 4LBDWWH**

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: P879394
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/1/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD4C25D010 EU4259040 4LBLDWWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

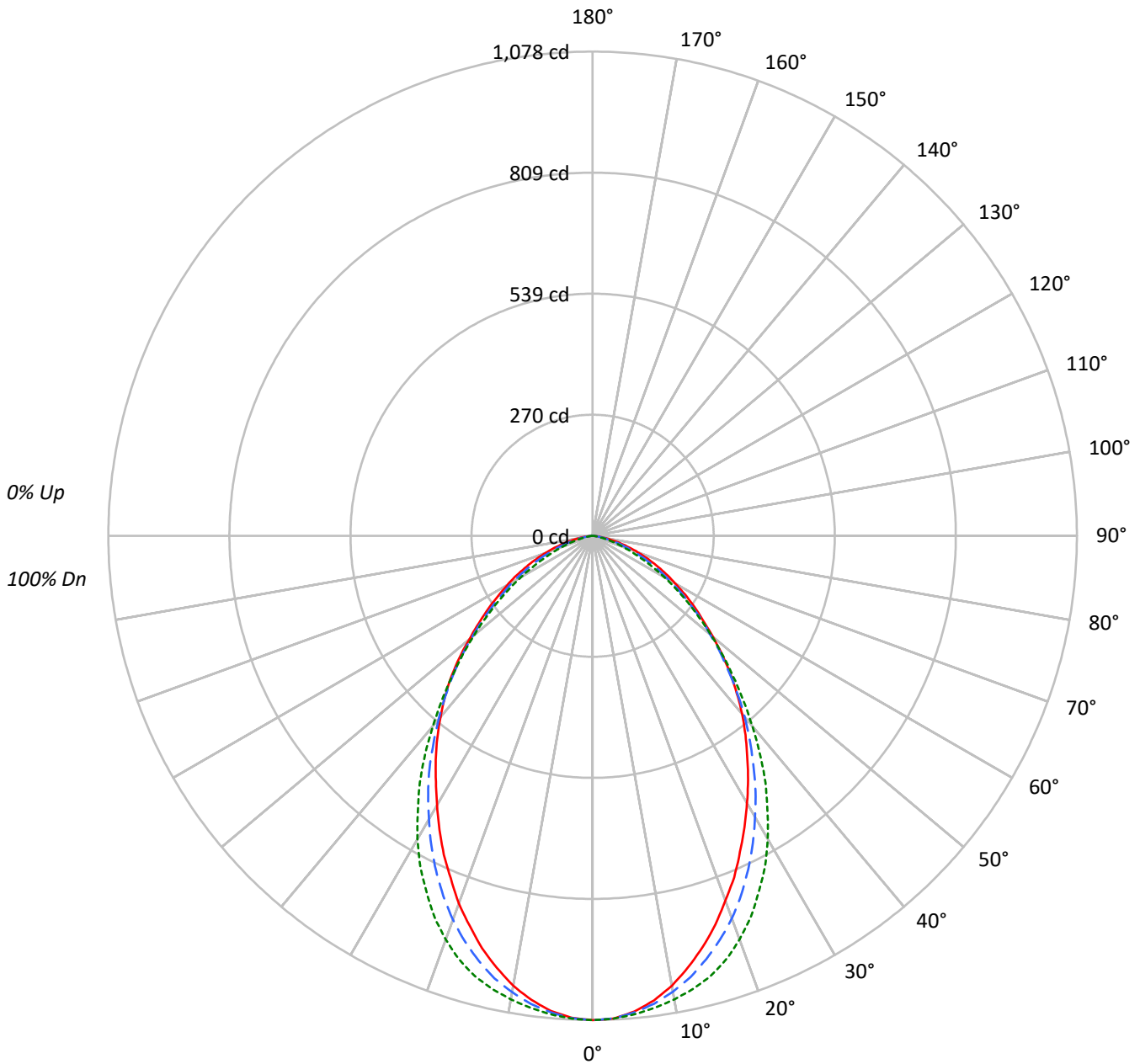
Lumens per Lamp: N/A
Luminaire Lumens: 1929.0 lumens
Efficiency: N/A
Efficacy: 61.2 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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									
RC	80									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	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59																			
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52																			
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	44	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°	132497	132497	132497
5°	131141	131881	130993
10°	126882	130737	126932
15°	120548	129057	120942
20°	112984	124999	113912
25°	105230	118596	106193
30°	97485	110622	98209
35°	89926	100559	91291
40°	82961	88607	84485
45°	75143	76794	77419
50°	66607	65786	68270
55°	59373	55389	60744
60°	51967	44964	53908
65°	45465	34767	47093
70°	38255	25467	40266
75°	29904	16566	31566
80°	19597	8702	21578
85°	6766	3947	8880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.7	5.2
10°-20°	275.1	14.3
20°-30°	378.3	19.6
30°-40°	394.7	20.5
40°-50°	337.7	17.5
50°-60°	241.5	12.5
60°-70°	140.1	7.3
70°-80°	54.0	2.8
80°-90°	6.9	0.4
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°	754.1	39.1
0°-40°	1148.8	59.6
0°-60°	1727.9	89.6
0°-90°	1929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1929.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1078	1078	1078	1078	1078	
5°	1063	1065	1069	1065	1062	100
15°	948	976	1015	980	951	266
25°	776	819	875	824	783	357
35°	600	623	670	633	609	376
45°	432	429	442	440	446	333
55°	277	263	259	270	284	248
65°	156	138	120	143	162	156
75°	63	47	35	50	66	68
85°	5	4	3	4	6	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°	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5
2.5°	1075.7	1074.9	1075.3	1075.3	1075.3	1074.9	1075.7	1075.7	1075.3	1075.3	1075.3
5°	1063.4	1062.6	1063.0	1063.4	1063.4	1063.4	1063.8	1064.2	1064.6	1065.0	1065.4
7.5°	1043.6	1042.4	1043.6	1045.2	1045.2	1045.6	1046.0	1046.4	1047.6	1049.6	1050.7
10°	1017.1	1017.1	1017.5	1018.7	1020.6	1020.2	1021.4	1023.4	1025.8	1028.6	1030.5
12.5°	983.4	984.2	985.4	986.6	988.6	989.8	991.7	994.1	998.1	1002.0	1006.4
15°	947.8	948.2	948.6	951.3	953.3	956.1	957.7	962.4	966.0	971.5	976.3
17.5°	907.8	907.4	908.6	910.9	915.7	916.9	918.9	924.0	929.2	936.7	943.0
20°	864.2	866.6	868.2	871.3	874.1	877.3	878.9	885.2	891.1	898.3	906.6
22.5°	823.0	821.0	823.8	827.4	829.7	832.1	834.9	841.6	848.0	856.7	865.0
25°	776.3	777.5	779.4	782.2	785.4	788.6	791.7	798.9	802.4	811.5	819.1
27.5°	731.9	733.9	734.7	738.3	741.0	743.4	745.0	753.3	756.5	764.4	771.9
30°	687.2	689.1	689.1	693.1	695.1	697.5	701.4	707.0	711.7	717.3	722.8
32.5°	644.0	644.0	645.6	649.1	651.1	653.9	655.1	659.0	663.8	669.3	675.3
35°	599.6	600.8	602.4	602.4	606.0	607.6	609.1	613.1	616.3	618.6	623.4
37.5°	558.8	558.8	557.7	559.6	562.0	561.6	564.0	566.0	567.9	570.7	574.7
40°	517.3	517.3	515.7	516.9	518.4	518.0	517.3	519.2	520.8	522.8	526.8
42.5°	474.9	474.1	473.7	473.7	474.5	473.7	474.5	474.9	474.9	474.9	477.3
45°	432.5	434.5	432.1	431.3	430.1	428.9	428.5	428.9	430.5	428.5	428.9
47.5°	390.9	391.7	390.1	388.9	387.7	387.0	387.7	385.4	386.2	386.6	385.0
50°	348.5	346.9	346.9	345.8	346.2	345.8	345.0	344.2	344.2	342.2	341.0
52.5°	309.3	310.1	310.9	308.1	308.5	306.5	306.9	305.0	305.0	302.6	303.4
55°	277.2	276.1	276.1	274.9	274.5	272.5	272.1	270.9	268.1	266.5	263.4
57.5°	244.0	243.6	242.0	242.4	240.0	239.6	238.8	236.8	234.9	232.9	229.3
60°	211.5	211.9	211.9	211.1	209.9	207.9	208.3	205.6	202.8	199.2	196.0
62.5°	184.6	183.4	183.0	182.2	179.8	179.8	177.8	175.9	173.1	169.5	166.7
65°	156.4	156.8	155.7	154.5	152.1	151.7	150.1	148.5	145.7	142.2	138.2
67.5°	131.1	130.3	129.9	128.7	126.3	125.9	124.8	121.2	118.8	115.3	112.1
70°	106.5	105.7	106.1	104.2	101.8	100.6	100.2	97.4	93.9	91.1	87.9
72.5°	83.6	83.6	83.2	81.2	80.0	79.2	77.6	74.5	72.5	69.3	66.9
75°	63.0	62.6	61.8	60.6	59.0	58.2	57.4	55.4	52.7	49.1	47.1
77.5°	43.6	44.0	43.2	42.8	40.8	39.6	39.2	38.0	35.6	33.3	31.3
80°	27.7	27.3	26.9	26.1	25.7	25.3	24.2	23.4	21.0	19.8	18.6
82.5°	15.1	14.3	14.3	13.9	13.1	12.7	12.3	11.5	11.1	10.3	9.5
85°	4.8	5.1	4.8	4.8	4.8	4.4	4.4	4.4	4.0	4.0	3.6
87.5°	0.4	0.8	0.4	0.4	0.8	0.4	0.4	0.8	0.4	0.4	0.8
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°	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5
2.5°	1075.3	1075.7	1075.7	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1	1076.1
5°	1066.6	1066.6	1067.4	1068.2	1068.2	1068.2	1068.6	1069.4	1069.4	1069.4	1069.0
7.5°	1052.3	1053.9	1055.5	1057.1	1057.5	1057.9	1058.7	1060.3	1060.3	1060.3	1060.3
10°	1033.7	1037.3	1039.3	1041.6	1042.8	1043.6	1046.0	1046.4	1047.6	1048.0	1047.6
12.5°	1010.0	1014.7	1019.1	1023.0	1024.6	1026.2	1028.6	1030.9	1032.1	1033.3	1032.9
15°	983.4	988.6	995.3	999.7	1002.8	1005.2	1008.8	1011.9	1013.9	1014.7	1014.7
17.5°	951.3	957.7	964.8	971.9	973.9	977.9	981.8	986.2	988.6	989.0	988.6
20°	915.7	922.8	928.8	935.9	940.2	942.2	947.8	953.3	955.7	956.1	955.7
22.5°	873.3	880.0	888.0	895.5	899.1	902.6	908.6	914.1	917.3	919.6	917.3
25°	826.2	835.7	843.2	849.5	854.7	858.3	865.8	870.1	875.3	874.9	875.3
27.5°	779.8	787.8	796.1	803.6	806.8	810.7	816.7	823.8	828.2	830.9	830.5
30°	732.3	738.7	745.8	752.5	757.7	760.8	769.5	772.7	778.3	779.8	778.7
32.5°	682.0	686.4	693.5	702.6	704.6	707.8	713.3	721.2	723.2	724.0	724.4
35°	628.5	636.9	642.8	648.3	649.9	652.7	659.0	665.0	667.0	670.5	668.9
37.5°	579.0	583.8	586.6	592.1	596.9	599.2	602.4	606.4	610.3	611.9	611.5
40°	529.5	531.9	534.3	540.2	540.6	540.6	545.4	550.9	550.9	552.5	552.5
42.5°	478.8	479.2	482.4	485.6	486.4	487.2	491.9	492.7	495.1	496.3	497.8
45°	429.7	432.1	434.1	434.5	436.5	436.9	438.0	439.2	442.8	442.0	442.8
47.5°	385.0	386.2	387.3	387.3	388.5	388.1	390.1	388.9	391.3	392.1	393.3
50°	341.0	343.0	341.8	342.6	342.2	343.4	342.6	342.6	342.6	344.2	345.4
52.5°	300.6	301.0	299.8	300.2	300.2	299.4	300.2	299.8	299.4	299.4	299.8
55°	263.4	261.8	261.0	259.4	257.4	259.8	258.6	257.8	259.4	258.6	259.4
57.5°	227.3	225.4	223.8	223.0	220.2	221.8	220.2	219.4	219.4	219.4	221.4
60°	193.3	191.3	189.3	186.9	186.5	185.8	185.0	183.0	183.4	183.0	183.8
62.5°	163.6	159.6	156.8	154.9	154.5	153.3	152.1	150.1	150.5	150.5	150.9
65°	136.2	131.9	127.9	125.2	125.2	123.2	121.2	121.2	118.8	119.6	120.0
67.5°	108.9	105.4	101.4	99.4	98.2	96.6	95.5	94.7	93.5	93.5	94.3
70°	84.4	80.8	78.8	75.6	75.3	74.1	72.5	71.3	70.9	70.9	70.5
72.5°	63.8	60.6	58.2	56.2	55.1	53.9	52.3	51.9	51.1	51.1	51.9
75°	44.4	42.4	40.4	38.4	37.6	37.2	36.0	35.2	35.2	34.9	35.2
77.5°	29.7	27.7	25.7	25.0	24.2	23.4	23.0	22.6	21.4	21.4	21.4
80°	17.0	16.2	15.4	14.3	14.3	13.9	13.1	12.7	12.3	12.3	12.3
82.5°	8.7	8.3	7.5	7.1	7.1	7.1	6.7	6.7	6.3	6.3	6.3
85°	3.6	3.2	2.8	2.8	2.8	2.8	2.8	2.8	3.2	2.8	3.2
87.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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°	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5
2.5°	1076.1	1075.7	1075.7	1075.7	1075.7	1075.7	1075.3	1075.3	1074.9	1074.9	1074.9
5°	1069.4	1069.0	1068.6	1068.2	1067.8	1067.4	1067.0	1066.6	1065.4	1065.0	1064.2
7.5°	1059.9	1059.1	1057.9	1057.5	1056.7	1055.5	1053.9	1053.1	1051.5	1049.6	1048.8
10°	1047.2	1045.6	1044.4	1042.4	1042.0	1040.4	1036.5	1034.5	1031.7	1029.4	1026.6
12.5°	1031.7	1030.2	1027.4	1024.6	1023.0	1019.5	1015.9	1012.7	1009.2	1004.0	1000.0
15°	1012.7	1010.3	1004.8	1004.0	1001.6	996.1	991.3	985.4	979.9	974.3	969.6
17.5°	987.4	982.2	979.5	975.9	973.1	966.0	960.8	954.1	946.6	940.2	933.5
20°	954.1	948.6	943.8	941.8	938.3	931.9	925.6	917.3	909.7	901.8	895.9
22.5°	914.5	910.9	903.8	901.4	897.1	890.7	883.2	875.3	868.2	859.4	851.5
25°	872.1	867.0	861.4	856.7	853.5	847.6	838.1	832.1	824.2	814.7	808.8
27.5°	827.0	821.0	813.1	809.9	807.2	799.2	791.3	783.8	777.5	769.1	764.0
30°	774.7	770.3	765.2	761.2	757.3	750.9	743.8	735.1	728.4	724.4	717.3
32.5°	721.6	718.1	711.3	709.3	705.0	699.8	694.7	688.4	681.2	675.3	669.7
35°	665.0	661.4	656.7	653.1	651.5	648.0	642.4	636.9	633.3	626.6	623.8
37.5°	608.3	607.2	602.4	598.8	597.7	593.3	590.5	586.6	581.4	579.8	576.7
40°	550.1	549.3	546.6	546.2	543.8	542.6	538.6	535.5	533.1	531.9	529.9
42.5°	496.7	495.9	493.5	493.9	491.5	490.7	490.3	487.5	485.6	483.2	483.6
45°	444.0	443.2	441.6	440.8	442.0	441.6	440.8	439.6	439.6	440.0	438.8
47.5°	393.3	394.1	392.5	393.3	393.3	392.1	392.1	393.7	394.1	394.9	395.7
50°	345.4	347.7	346.9	348.1	348.5	348.9	347.7	349.7	349.3	352.9	352.1
52.5°	301.8	302.2	303.8	304.2	304.6	305.0	306.9	308.5	308.9	310.5	313.3
55°	259.8	260.2	263.4	263.4	265.4	265.8	268.5	269.3	270.5	274.9	275.7
57.5°	220.2	222.6	224.2	225.0	226.1	228.1	229.7	233.3	235.3	238.0	240.8
60°	184.6	187.3	189.3	190.1	191.7	194.1	196.0	200.0	203.6	206.7	208.7
62.5°	151.7	154.1	155.7	158.4	158.4	160.4	165.2	167.5	171.5	174.3	177.8
65°	122.4	124.0	126.7	126.7	128.3	131.5	135.5	139.0	143.0	146.9	150.5
67.5°	95.8	97.0	98.6	100.2	101.0	105.0	108.1	113.3	116.8	119.6	124.0
70°	72.5	73.3	75.3	76.8	78.0	80.8	84.4	87.9	91.5	94.7	99.0
72.5°	51.9	53.5	55.4	56.6	57.4	59.4	63.0	66.5	69.7	72.9	75.3
75°	35.6	36.8	37.6	38.8	40.0	41.6	44.0	46.3	49.9	53.1	55.8
77.5°	22.2	23.4	24.6	25.0	25.3	26.9	28.5	30.9	33.3	35.6	37.6
80°	13.1	13.5	13.9	14.3	15.1	16.2	17.0	18.6	20.2	21.8	23.8
82.5°	6.7	7.1	7.5	7.5	7.5	7.9	9.1	9.9	10.3	11.1	12.3
85°	2.8	2.8	2.8	3.2	3.2	3.6	3.6	4.0	4.0	4.4	4.8
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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: P879394

CATALOG NUMBER: LD4C25D010 EU4259040 4LBLDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5	1078.5
2.5°	1074.5	1074.5	1074.5	1074.1	1074.5	1074.5	1074.5	1074.1
5°	1064.2	1063.4	1063.4	1063.0	1062.6	1062.6	1063.0	1062.2
7.5°	1047.2	1046.0	1045.2	1045.2	1044.8	1044.4	1044.4	1042.4
10°	1025.0	1022.6	1022.6	1021.8	1018.7	1018.3	1017.5	1017.5
12.5°	997.3	994.5	992.9	990.9	989.0	987.4	987.0	985.4
15°	964.4	960.8	958.1	957.3	954.1	951.7	951.7	950.9
17.5°	928.8	923.2	921.2	919.3	914.9	914.5	913.7	910.1
20°	888.4	883.2	880.4	878.5	875.7	871.7	870.9	871.3
22.5°	846.0	838.9	836.5	834.5	831.7	828.2	828.2	825.4
25°	802.0	795.7	793.3	790.9	786.6	785.0	783.0	783.4
27.5°	757.3	751.3	749.3	745.0	742.2	740.2	738.3	738.3
30°	710.5	707.4	704.2	703.8	698.3	695.9	693.9	692.3
32.5°	665.4	661.4	659.8	658.3	655.5	652.3	651.9	649.1
35°	621.0	617.1	615.1	613.5	610.3	609.1	608.0	608.7
37.5°	574.3	573.5	572.3	570.3	568.3	567.9	566.4	568.3
40°	528.3	527.9	526.4	526.8	526.8	526.0	526.8	526.8
42.5°	484.0	484.0	482.4	483.2	483.6	484.4	485.6	486.4
45°	440.8	440.4	440.8	441.6	440.8	442.8	444.4	445.6
47.5°	396.5	396.9	398.4	398.8	399.6	402.4	402.4	402.4
50°	354.1	356.1	355.3	357.6	357.2	358.8	357.2	357.2
52.5°	313.7	315.7	316.1	316.5	318.8	319.2	319.2	318.8
55°	277.6	280.4	279.2	281.2	282.4	283.2	284.4	283.6
57.5°	244.4	245.6	246.7	247.1	248.7	249.5	250.3	249.5
60°	211.5	213.9	215.9	216.2	217.0	217.8	218.2	219.4
62.5°	180.6	184.6	185.4	185.8	187.7	188.9	189.7	190.5
65°	153.3	156.0	158.0	159.2	160.8	160.8	162.0	162.0
67.5°	126.7	129.5	130.7	131.5	133.9	134.3	136.2	136.2
70°	102.6	104.6	105.4	106.5	108.9	110.5	111.3	112.1
72.5°	79.2	81.6	82.8	84.4	85.9	87.1	87.5	88.7
75°	57.8	61.4	61.8	63.4	64.6	66.1	66.9	66.5
77.5°	40.4	41.6	43.2	44.0	45.2	46.3	47.5	47.5
80°	25.0	26.5	26.9	27.3	28.9	29.7	30.5	30.5
82.5°	13.1	13.9	14.7	15.1	15.8	15.8	16.2	16.6
85°	5.1	5.5	5.5	5.5	5.9	6.3	6.3	6.3
87.5°	0.8	1.2	0.8	0.8	1.2	1.2	1.2	1.2
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)