

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: P879392

Luminaire Tested: **LD4C25D010 EU4259035 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: P879392
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 EU4259035 4LBLDWWH
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LBLDWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

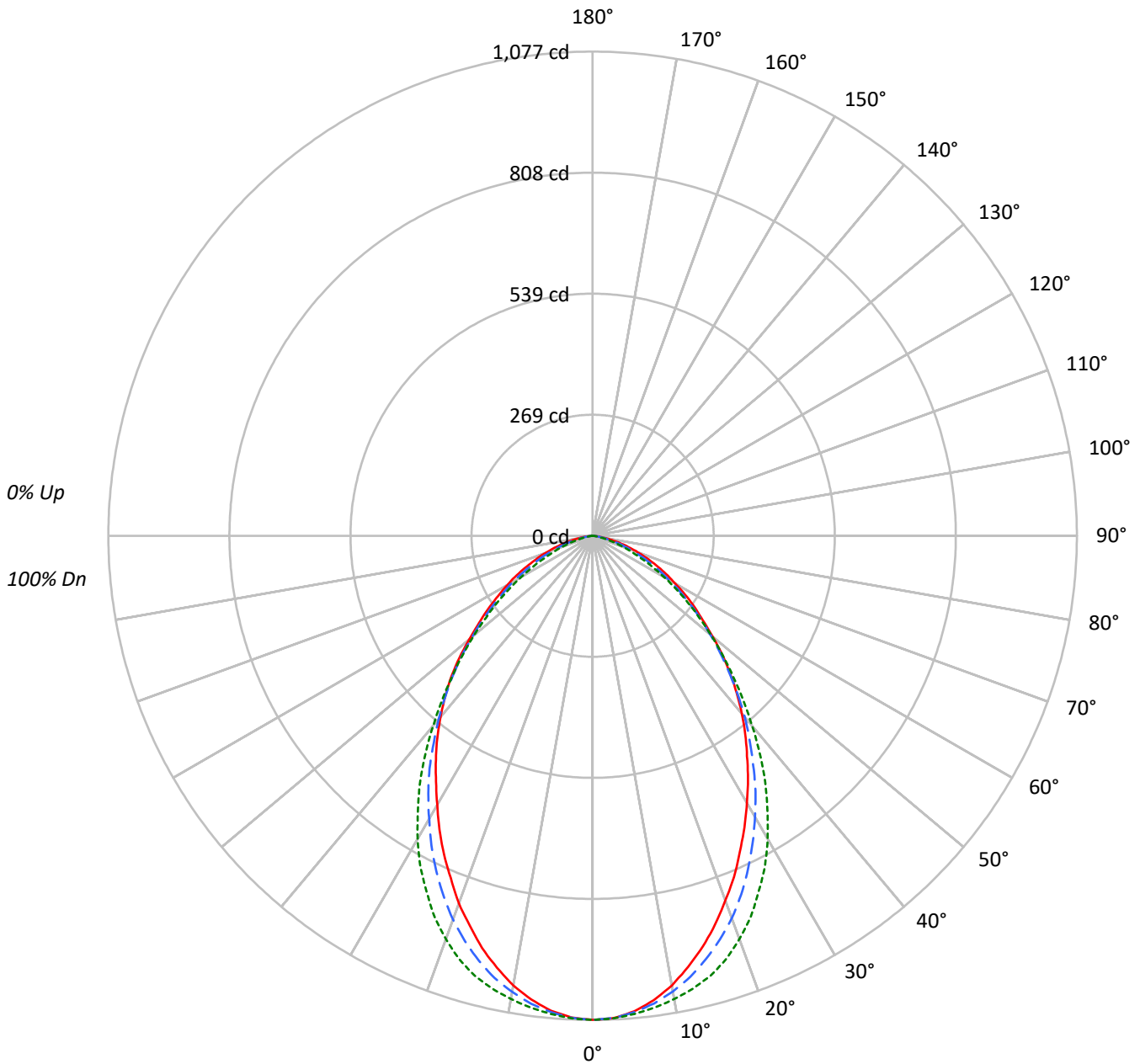
Lumens per Lamp: N/A
Luminaire Lumens: 1926.0 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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					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	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88				
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77				
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				67				
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59				59				
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52				52				
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	44	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°	132289	132289	132289
5°	130944	131672	130796
10°	126682	130525	126732
15°	120357	128853	120764
20°	112814	124802	113742
25°	105068	118406	106030
30°	97329	110451	98053
35°	89791	100409	91156
40°	82817	88462	84341
45°	75021	76672	77297
50°	66512	65671	68175
55°	59287	55303	60637
60°	51893	44891	53834
65°	45407	34709	47006
70°	38219	25431	40194
75°	29857	16518	31518
80°	19597	8702	21508
85°	6625	3947	8880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	5.2
10°-20°	274.6	14.3
20°-30°	377.7	19.6
30°-40°	394.1	20.5
40°-50°	337.1	17.5
50°-60°	241.2	12.5
60°-70°	139.9	7.3
70°-80°	53.9	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°	752.9	39.1
0°-40°	1147.0	59.6
0°-60°	1725.3	89.6
0°-90°	1926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1926.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1077	1077	1077	1077	1077	
5°	1062	1064	1068	1064	1061	100
15°	946	975	1013	978	950	265
25°	775	818	874	823	782	357
35°	599	622	670	632	608	375
45°	432	428	441	439	445	333
55°	277	263	258	270	283	248
65°	156	138	119	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°	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8
2.5°	1074.0	1073.2	1073.6	1073.6	1073.6	1073.2	1074.0	1074.0	1073.6	1073.6	1073.6
5°	1061.8	1061.0	1061.4	1061.8	1061.8	1061.8	1062.2	1062.6	1063.0	1063.3	1063.7
7.5°	1042.0	1040.8	1042.0	1043.6	1043.6	1044.0	1044.4	1044.8	1045.9	1047.9	1049.1
10°	1015.5	1015.5	1015.9	1017.1	1019.1	1018.7	1019.8	1021.8	1024.2	1027.0	1028.9
12.5°	981.9	982.7	983.9	985.0	987.0	988.2	990.2	992.6	996.5	1000.5	1004.8
15°	946.3	946.7	947.1	949.9	951.8	954.6	956.2	960.9	964.5	970.0	974.8
17.5°	906.4	906.0	907.1	909.5	914.3	915.5	917.4	922.6	927.7	935.2	941.6
20°	862.9	865.2	866.8	870.0	872.7	875.9	877.5	883.8	889.7	896.9	905.2
22.5°	821.7	819.8	822.5	826.1	828.5	830.8	833.6	840.3	846.6	855.3	863.6
25°	775.1	776.3	778.2	781.0	784.2	787.3	790.5	797.6	801.2	810.3	817.8
27.5°	730.8	732.8	733.5	737.1	739.9	742.2	743.8	752.1	755.3	763.2	770.7
30°	686.1	688.1	688.1	692.0	694.0	696.4	700.3	705.9	710.6	716.1	721.7
32.5°	643.0	643.0	644.6	648.1	650.1	652.9	654.1	658.0	662.8	668.3	674.2
35°	598.7	599.9	601.5	601.5	605.0	606.6	608.2	612.1	615.3	617.7	622.4
37.5°	558.0	558.0	556.8	558.8	561.1	560.7	563.1	565.1	567.1	569.8	573.8
40°	516.4	516.4	514.9	516.1	517.6	517.2	516.4	518.4	520.0	522.0	525.9
42.5°	474.1	473.3	473.0	473.0	473.7	473.0	473.7	474.1	474.1	474.1	476.5
45°	431.8	433.8	431.4	430.6	429.5	428.3	427.9	428.3	429.8	427.9	428.3
47.5°	390.3	391.1	389.5	388.3	387.1	386.3	387.1	384.8	385.6	386.0	384.4
50°	348.0	346.4	346.4	345.2	345.6	345.2	344.4	343.6	343.6	341.7	340.5
52.5°	308.8	309.6	310.4	307.7	308.1	306.1	306.5	304.5	304.5	302.1	302.9
55°	276.8	275.6	275.6	274.4	274.0	272.1	271.7	270.5	267.7	266.1	263.0
57.5°	243.6	243.2	241.6	242.0	239.6	239.2	238.5	236.5	234.5	232.5	229.0
60°	211.2	211.6	211.6	210.8	209.6	207.6	208.0	205.2	202.5	198.9	195.7
62.5°	184.3	183.1	182.7	181.9	179.5	179.5	177.6	175.6	172.8	169.2	166.5
65°	156.2	156.6	155.4	154.2	151.9	151.5	149.9	148.3	145.5	142.0	138.0
67.5°	130.9	130.1	129.7	128.5	126.1	125.8	124.6	121.0	118.6	115.1	111.9
70°	106.4	105.6	106.0	104.0	101.6	100.4	100.0	97.3	93.7	91.0	87.8
72.5°	83.4	83.4	83.0	81.1	79.9	79.1	77.5	74.3	72.4	69.2	66.8
75°	62.9	62.5	61.7	60.5	58.9	58.1	57.3	55.4	52.6	49.0	47.1
77.5°	43.5	43.9	43.1	42.7	40.7	39.5	39.1	38.0	35.6	33.2	31.2
80°	27.7	27.3	26.9	26.1	25.7	25.3	24.1	23.3	21.0	19.8	18.6
82.5°	15.0	14.2	14.2	13.8	13.0	12.7	12.3	11.5	11.1	10.3	9.5
85°	4.7	5.1	4.7	4.7	4.7	4.3	4.3	4.3	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°	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8
2.5°	1073.6	1074.0	1074.0	1074.4	1074.4	1074.4	1074.4	1074.4	1074.4	1074.4	1074.4
5°	1064.9	1064.9	1065.7	1066.5	1066.5	1066.5	1066.9	1067.7	1067.7	1067.7	1067.3
7.5°	1050.7	1052.3	1053.9	1055.4	1055.8	1056.2	1057.0	1058.6	1058.6	1058.6	1058.6
10°	1032.1	1035.7	1037.6	1040.0	1041.2	1042.0	1044.4	1044.8	1045.9	1046.3	1045.9
12.5°	1008.4	1013.1	1017.5	1021.4	1023.0	1024.6	1027.0	1029.3	1030.5	1031.7	1031.3
15°	981.9	987.0	993.7	998.1	1001.3	1003.6	1007.2	1010.4	1012.3	1013.1	1013.1
17.5°	949.9	956.2	963.3	970.4	972.4	976.3	980.3	984.7	987.0	987.4	987.0
20°	914.3	921.4	927.3	934.4	938.8	940.8	946.3	951.8	954.2	954.6	954.2
22.5°	872.0	878.7	886.6	894.1	897.7	901.2	907.1	912.7	915.8	918.2	915.8
25°	824.9	834.4	841.9	848.2	853.4	856.9	864.4	868.8	873.9	873.5	873.9
27.5°	778.6	786.5	794.8	802.4	805.5	809.5	815.4	822.5	826.9	829.6	829.2
30°	731.2	737.5	744.6	751.3	756.5	759.6	768.3	771.5	777.0	778.6	777.4
32.5°	681.0	685.3	692.4	701.5	703.5	706.7	712.2	720.1	722.1	722.9	723.3
35°	627.6	635.9	641.8	647.3	648.9	651.7	658.0	663.9	665.9	669.5	667.9
37.5°	578.1	582.9	585.7	591.2	595.9	598.3	601.5	605.4	609.4	611.0	610.6
40°	528.7	531.1	533.5	539.4	539.8	539.8	544.5	550.1	550.1	551.6	551.6
42.5°	478.1	478.5	481.7	484.8	485.6	486.4	491.1	491.9	494.3	495.5	497.1
45°	429.1	431.4	433.4	433.8	435.8	436.2	437.4	438.5	442.1	441.3	442.1
47.5°	384.4	385.6	386.7	386.7	387.9	387.5	389.5	388.3	390.7	391.5	392.7
50°	340.5	342.5	341.3	342.1	341.7	342.8	342.1	342.1	342.1	343.6	344.8
52.5°	300.1	300.5	299.4	299.7	299.7	299.0	299.7	299.4	299.0	299.0	299.4
55°	263.0	261.4	260.6	259.0	257.0	259.4	258.2	257.4	259.0	258.2	259.0
57.5°	227.0	225.0	223.4	222.6	219.9	221.4	219.9	219.1	219.1	219.1	221.1
60°	193.0	191.0	189.0	186.6	186.3	185.5	184.7	182.7	183.1	182.7	183.5
62.5°	163.3	159.4	156.6	154.6	154.2	153.0	151.9	149.9	150.3	150.3	150.7
65°	136.0	131.7	127.7	125.0	125.0	123.0	121.0	121.0	118.6	119.4	119.8
67.5°	108.7	105.2	101.2	99.3	98.1	96.5	95.3	94.5	93.3	93.3	94.1
70°	84.2	80.7	78.7	75.5	75.1	73.9	72.4	71.2	70.8	70.8	70.4
72.5°	63.7	60.5	58.1	56.2	55.0	53.8	52.2	51.8	51.0	51.0	51.8
75°	44.3	42.3	40.3	38.4	37.6	37.2	36.0	35.2	35.2	34.8	35.2
77.5°	29.7	27.7	25.7	24.9	24.1	23.3	22.9	22.5	21.4	21.4	21.4
80°	17.0	16.2	15.4	14.2	14.2	13.8	13.0	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°	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8
2.5°	1074.4	1074.0	1074.0	1074.0	1074.0	1074.0	1073.6	1073.6	1073.2	1073.2	1073.2
5°	1067.7	1067.3	1066.9	1066.5	1066.1	1065.7	1065.3	1064.9	1063.7	1063.3	1062.6
7.5°	1058.2	1057.4	1056.2	1055.8	1055.0	1053.9	1052.3	1051.5	1049.9	1047.9	1047.1
10°	1045.6	1044.0	1042.8	1040.8	1040.4	1038.8	1034.9	1032.9	1030.1	1027.8	1025.0
12.5°	1030.1	1028.5	1025.8	1023.0	1021.4	1017.9	1014.3	1011.1	1007.6	1002.4	998.5
15°	1011.1	1008.8	1003.2	1002.4	1000.1	994.5	989.8	983.9	978.3	972.8	968.0
17.5°	985.8	980.7	977.9	974.4	971.6	964.5	959.3	952.6	945.1	938.8	932.1
20°	952.6	947.1	942.3	940.4	936.8	930.5	924.2	915.8	908.3	900.4	894.5
22.5°	913.1	909.5	902.4	900.0	895.7	889.4	881.8	873.9	866.8	858.1	850.2
25°	870.8	865.6	860.1	855.3	852.2	846.2	836.8	830.8	822.9	813.4	807.5
27.5°	825.7	819.8	811.8	808.7	805.9	798.0	790.1	782.6	776.3	768.0	762.8
30°	773.5	769.1	764.0	760.0	756.1	749.8	742.6	733.9	727.2	723.3	716.1
32.5°	720.5	716.9	710.2	708.2	703.9	698.7	693.6	687.3	680.2	674.2	668.7
35°	663.9	660.4	655.6	652.1	650.5	646.9	641.4	635.9	632.3	625.6	622.8
37.5°	607.4	606.2	601.5	597.9	596.7	592.4	589.6	585.7	580.5	578.9	575.8
40°	549.3	548.5	545.7	545.3	542.9	541.8	537.8	534.6	532.3	531.1	529.1
42.5°	495.9	495.1	492.7	493.1	490.7	490.0	489.6	486.8	484.8	482.4	482.8
45°	443.3	442.5	440.9	440.1	441.3	440.9	440.1	438.9	438.9	439.3	438.2
47.5°	392.7	393.5	391.9	392.7	392.7	391.5	391.5	393.1	393.5	394.3	395.0
50°	344.8	347.2	346.4	347.6	348.0	348.4	347.2	349.2	348.8	352.3	351.5
52.5°	301.3	301.7	303.3	303.7	304.1	304.5	306.5	308.1	308.4	310.0	312.8
55°	259.4	259.8	263.0	263.0	264.9	265.3	268.1	268.9	270.1	274.4	275.2
57.5°	219.9	222.2	223.8	224.6	225.8	227.8	229.4	232.9	234.9	237.7	240.4
60°	184.3	187.0	189.0	189.8	191.4	193.8	195.7	199.7	203.3	206.4	208.4
62.5°	151.5	153.8	155.4	158.2	158.2	160.2	164.9	167.3	171.2	174.0	177.6
65°	122.2	123.8	126.5	126.5	128.1	131.3	135.2	138.8	142.8	146.7	150.3
67.5°	95.7	96.9	98.5	100.0	100.8	104.8	108.0	113.1	116.7	119.4	123.8
70°	72.4	73.2	75.1	76.7	77.9	80.7	84.2	87.8	91.3	94.5	98.9
72.5°	51.8	53.4	55.4	56.5	57.3	59.3	62.9	66.4	69.6	72.8	75.1
75°	35.6	36.8	37.6	38.8	39.9	41.5	43.9	46.3	49.8	53.0	55.8
77.5°	22.1	23.3	24.5	24.9	25.3	26.9	28.5	30.8	33.2	35.6	37.6
80°	13.0	13.4	13.8	14.2	15.0	16.2	17.0	18.6	20.2	21.7	23.7
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	4.3	4.7
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: P879392

CATALOG NUMBER: LD4C25D010 EU4259035 4LBDWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8	1076.8
2.5°	1072.8	1072.8	1072.8	1072.4	1072.8	1072.8	1072.8	1072.4
5°	1062.6	1061.8	1061.8	1061.4	1061.0	1061.0	1061.4	1060.6
7.5°	1045.6	1044.4	1043.6	1043.6	1043.2	1042.8	1042.8	1040.8
10°	1023.4	1021.0	1021.0	1020.2	1017.1	1016.7	1015.9	1015.9
12.5°	995.7	993.0	991.4	989.4	987.4	985.8	985.4	983.9
15°	962.9	959.3	956.6	955.8	952.6	950.3	950.3	949.5
17.5°	927.3	921.8	919.8	917.8	913.5	913.1	912.3	908.7
20°	887.0	881.8	879.1	877.1	874.3	870.4	869.6	870.0
22.5°	844.7	837.5	835.2	833.2	830.4	826.9	826.9	824.1
25°	800.8	794.4	792.1	789.7	785.4	783.8	781.8	782.2
27.5°	756.1	750.2	748.2	743.8	741.1	739.1	737.1	737.1
30°	709.4	706.3	703.1	702.7	697.2	694.8	692.8	691.2
32.5°	664.3	660.4	658.8	657.2	654.5	651.3	650.9	648.1
35°	620.1	616.1	614.1	612.5	609.4	608.2	607.0	607.8
37.5°	573.4	572.6	571.4	569.4	567.5	567.1	565.5	567.5
40°	527.5	527.1	525.5	525.9	525.9	525.1	525.9	525.9
42.5°	483.2	483.2	481.7	482.4	482.8	483.6	484.8	485.6
45°	440.1	439.7	440.1	440.9	440.1	442.1	443.7	444.9
47.5°	395.8	396.2	397.8	398.2	399.0	401.8	401.8	401.8
50°	353.5	355.5	354.7	357.1	356.7	358.3	356.7	356.7
52.5°	313.2	315.2	315.6	316.0	318.3	318.7	318.7	318.3
55°	277.2	280.0	278.8	280.8	282.0	282.7	283.9	283.1
57.5°	244.0	245.2	246.4	246.8	248.3	249.1	249.9	249.1
60°	211.2	213.5	215.5	215.9	216.7	217.5	217.9	219.1
62.5°	180.3	184.3	185.1	185.5	187.4	188.6	189.4	190.2
65°	153.0	155.8	157.8	159.0	160.6	160.6	161.7	161.7
67.5°	126.5	129.3	130.5	131.3	133.7	134.1	136.0	136.0
70°	102.4	104.4	105.2	106.4	108.7	110.3	111.1	111.9
72.5°	79.1	81.5	82.6	84.2	85.8	87.0	87.4	88.6
75°	57.7	61.3	61.7	63.3	64.5	66.0	66.8	66.4
77.5°	40.3	41.5	43.1	43.9	45.1	46.3	47.5	47.5
80°	24.9	26.5	26.9	27.3	28.9	29.7	30.4	30.4
82.5°	13.0	13.8	14.6	15.0	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)