

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: P879397

Luminaire Tested: **LD4C25D010 EU4259050 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: P879397
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 EU4259050 4LBLDWWLI
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LBLDWW TRIM WITH LI FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

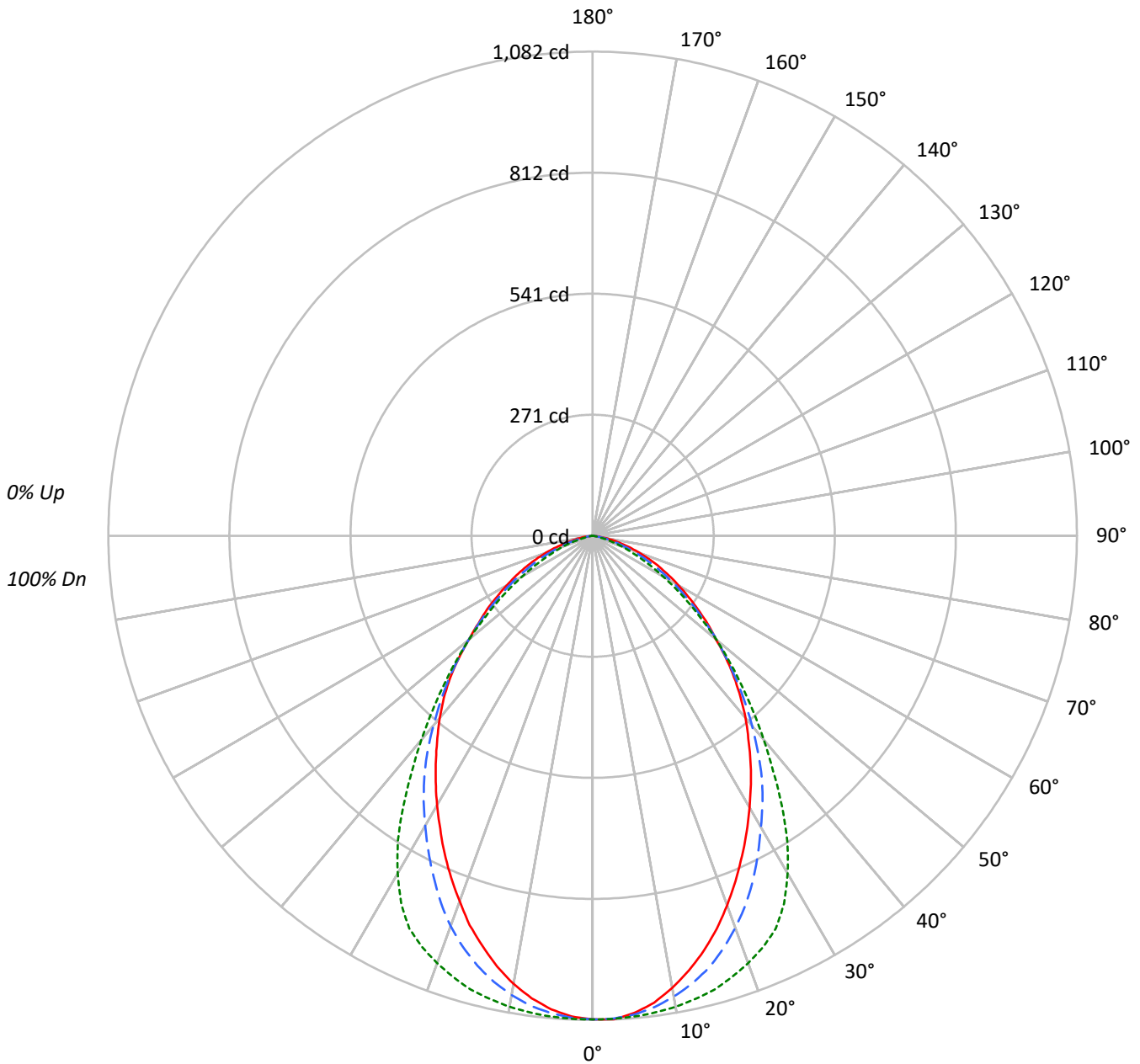
Lumens per Lamp: N/A
Luminaire Lumens: 1985.0 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 1 / 1.19 / 1.15
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	90	85	100	94	89	84	91	86	83	87	84	81	85	82	79	77			
3	95	86	79	74	93	84	78	73	82	76	72	79	74	70	77	73	69	67			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53			
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	45	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°	132780	132780	132780
5°	131992	132991	130993
10°	127967	133319	126869
15°	122100	133610	120764
20°	114879	132843	113611
25°	107006	131284	106125
30°	99429	123616	98620
35°	92205	110578	91531
40°	85239	95358	85175
45°	77662	81398	78305
50°	68595	68825	68977
55°	61472	56267	61729
60°	54326	44694	54424
65°	47820	34070	47354
70°	39620	24390	39620
75°	30901	14003	29762
80°	20022	3467	19173
85°	7471	1128	5638



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	5.1
10°-20°	280.7	14.1
20°-30°	392.4	19.8
30°-40°	413.9	20.9
40°-50°	352.1	17.7
50°-60°	248.5	12.5
60°-70°	140.8	7.1
70°-80°	50.3	2.5
80°-90°	4.8	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°	774.6	39.0
0°-40°	1188.5	59.9
0°-60°	1789.1	90.1
0°-90°	1985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1985.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1081	1081	1081	1081	1081	
5°	1070	1074	1078	1071	1062	101
15°	960	1000	1050	995	950	269
25°	789	848	968	841	783	363
35°	615	659	737	656	610	384
45°	447	454	468	456	451	344
55°	287	277	263	278	288	258
65°	164	141	117	142	163	163
75°	65	44	30	44	63	70
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°	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8
2.5°	1081.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1079.6	1080.0	1080.0
5°	1070.3	1069.5	1069.1	1069.1	1069.1	1069.1	1069.5	1071.1	1071.9	1073.1	1073.9
7.5°	1052.5	1050.9	1051.7	1051.7	1052.5	1053.3	1054.5	1056.2	1058.6	1060.2	1062.2
10°	1025.8	1024.2	1026.3	1027.1	1029.5	1030.7	1032.7	1035.1	1040.0	1042.4	1045.7
12.5°	994.7	993.9	994.7	998.0	1000.4	1002.0	1004.4	1009.7	1014.5	1019.8	1025.4
15°	960.0	957.9	959.2	963.2	967.2	970.1	972.1	979.0	985.4	993.5	1000.4
17.5°	921.2	918.3	921.6	924.8	930.1	932.5	935.3	943.0	951.9	960.8	968.5
20°	878.7	877.9	879.9	884.4	889.6	892.9	895.3	903.8	911.5	923.6	932.5
22.5°	834.7	835.5	837.1	841.9	845.6	850.0	853.7	861.3	870.2	881.6	892.9
25°	789.4	790.6	793.4	796.7	802.7	805.2	809.6	817.7	825.4	835.9	848.4
27.5°	745.7	746.1	749.4	751.0	756.7	761.9	763.9	772.4	781.3	789.4	800.3
30°	700.9	702.1	704.1	708.6	714.2	716.2	718.7	726.3	733.2	743.3	751.8
32.5°	658.0	657.2	659.6	662.1	668.5	672.2	673.4	682.3	688.3	698.5	706.5
35°	614.8	612.8	616.4	618.8	624.5	627.7	629.3	636.2	641.9	650.4	659.2
37.5°	571.5	573.2	574.8	576.8	579.6	580.4	585.3	586.9	594.2	600.6	605.5
40°	531.5	530.7	529.9	531.9	535.6	537.2	537.6	542.0	543.6	550.1	553.7
42.5°	488.7	489.1	488.7	489.1	491.1	491.1	492.3	495.1	496.4	498.4	502.8
45°	447.0	447.0	445.8	446.2	446.6	446.2	446.6	447.8	450.3	450.3	453.5
47.5°	403.8	403.0	404.6	403.4	402.6	402.2	403.4	402.2	404.6	404.6	405.4
50°	358.9	358.9	360.9	360.5	361.4	359.7	360.1	360.1	360.5	360.1	361.8
52.5°	324.2	323.4	322.5	320.5	321.3	319.7	319.7	320.1	318.9	318.5	316.5
55°	287.0	287.8	286.6	285.8	285.8	284.1	283.7	281.3	279.7	278.5	277.3
57.5°	253.4	254.2	253.8	251.8	249.4	249.8	249.0	246.6	242.9	240.5	238.5
60°	221.1	221.9	221.1	219.1	218.3	216.6	216.2	213.0	210.2	206.9	204.5
62.5°	192.0	192.0	191.6	188.8	186.7	187.1	185.1	182.7	179.1	174.6	171.0
65°	164.5	164.1	162.1	160.9	159.3	157.2	156.0	152.4	149.6	145.9	141.1
67.5°	137.0	135.8	135.0	133.8	130.2	129.7	128.1	124.9	120.9	118.0	114.0
70°	110.3	109.9	108.3	108.3	105.5	104.3	101.9	99.0	95.4	91.3	88.1
72.5°	87.3	86.5	84.9	83.3	80.8	80.0	78.0	75.2	71.9	67.9	63.9
75°	65.1	64.3	63.9	61.8	59.8	57.8	57.0	54.2	50.9	48.1	44.5
77.5°	45.7	44.9	43.7	42.4	41.2	40.0	38.8	36.4	33.5	31.1	27.9
80°	28.3	27.5	26.7	26.3	25.1	24.7	23.0	21.8	19.4	17.8	15.8
82.5°	14.6	14.6	13.7	13.3	12.5	12.1	11.7	10.5	9.3	8.1	6.9
85°	5.3	5.3	4.9	4.4	4.4	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°	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8
2.5°	1080.4	1080.0	1080.4	1080.4	1080.8	1080.8	1080.8	1080.4	1080.8	1080.4	1080.4
5°	1073.9	1075.2	1076.0	1076.8	1077.2	1077.6	1077.6	1078.0	1078.4	1078.4	1078.0
7.5°	1063.8	1066.3	1068.7	1070.3	1071.1	1071.9	1073.1	1073.9	1074.8	1074.4	1073.9
10°	1050.5	1054.5	1057.8	1061.0	1062.6	1063.8	1065.9	1067.5	1068.3	1068.7	1067.5
12.5°	1031.5	1037.2	1042.4	1047.7	1050.1	1051.7	1055.8	1058.6	1060.2	1060.2	1059.0
15°	1007.7	1015.7	1023.4	1030.3	1034.3	1036.8	1042.8	1046.9	1049.3	1050.5	1048.5
17.5°	979.0	988.3	997.6	1006.4	1010.5	1014.1	1022.6	1028.3	1033.5	1034.3	1031.9
20°	942.2	953.9	964.4	975.3	979.8	985.4	995.1	1004.4	1012.5	1016.1	1009.3
22.5°	901.0	913.9	923.6	936.9	943.0	949.1	961.6	973.3	987.5	995.1	983.0
25°	858.1	869.0	880.7	893.7	902.2	908.6	923.2	938.1	957.1	968.5	951.5
27.5°	812.0	821.7	835.9	850.0	856.5	864.6	882.0	898.1	916.3	926.4	913.9
30°	764.3	776.5	789.8	802.7	812.0	819.7	833.9	847.6	863.0	871.4	862.2
32.5°	717.0	728.8	740.1	754.2	759.5	766.4	778.9	790.6	802.3	810.0	799.1
35°	667.3	677.8	688.3	698.0	700.5	708.6	718.7	725.5	731.2	737.3	730.0
37.5°	613.2	621.2	626.5	637.0	641.1	642.3	650.4	655.2	661.3	662.5	662.1
40°	558.2	565.5	569.9	576.4	579.6	579.6	585.3	589.7	594.2	594.6	594.2
42.5°	506.9	510.5	514.1	518.2	517.4	522.2	524.6	526.7	529.9	529.9	530.7
45°	455.1	458.0	461.2	462.0	465.2	465.2	467.3	468.1	469.7	468.5	466.8
47.5°	407.0	408.2	408.6	412.3	413.1	410.3	412.7	413.1	412.7	412.7	411.9
50°	361.4	362.2	361.8	360.5	360.9	362.2	360.9	359.3	360.1	360.1	360.9
52.5°	316.9	315.3	314.5	314.5	312.8	312.8	310.8	310.0	309.6	308.0	310.0
55°	276.1	273.6	270.0	269.2	268.0	267.6	265.2	263.1	262.3	262.7	262.3
57.5°	236.9	233.2	230.8	230.0	228.8	226.3	223.5	221.5	221.1	220.3	220.3
60°	201.3	197.2	193.6	190.0	190.4	188.8	185.9	184.7	183.5	181.9	183.1
62.5°	169.0	164.5	160.5	156.8	154.4	153.2	151.2	149.1	147.9	146.7	148.3
65°	137.0	133.4	128.9	125.3	124.1	122.9	120.9	117.6	117.2	117.2	118.0
67.5°	108.3	104.3	100.2	97.8	96.2	94.6	93.8	92.2	90.9	90.1	90.5
70°	83.3	79.2	76.0	73.6	72.4	71.9	69.1	68.7	68.3	67.9	67.5
72.5°	60.6	57.4	54.6	52.9	51.3	50.1	49.3	48.1	47.7	47.7	47.7
75°	41.6	39.2	36.0	34.0	33.1	31.9	30.7	29.9	29.1	29.5	29.5
77.5°	25.1	22.6	20.6	19.0	18.6	17.4	16.2	15.4	14.1	14.1	14.6
80°	13.7	11.7	10.1	8.9	8.1	7.7	6.5	6.1	5.3	4.9	4.9
82.5°	6.1	4.9	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°	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8
2.5°	1080.0	1080.0	1079.6	1079.6	1079.6	1078.8	1078.8	1078.4	1078.0	1077.6	1076.8
5°	1077.2	1076.8	1076.0	1075.6	1075.2	1073.9	1072.7	1071.9	1070.7	1069.1	1068.3
7.5°	1073.1	1071.9	1070.3	1069.5	1068.3	1065.5	1063.4	1061.4	1059.4	1056.6	1053.3
10°	1066.3	1063.8	1061.4	1059.8	1057.8	1054.1	1050.1	1046.9	1042.4	1038.4	1033.9
12.5°	1056.6	1053.7	1048.9	1046.5	1044.0	1038.8	1033.5	1026.7	1020.6	1014.9	1009.7
15°	1044.4	1039.2	1033.5	1030.3	1026.7	1018.2	1010.1	1002.8	994.7	987.9	979.4
17.5°	1026.7	1019.0	1010.9	1007.3	1002.4	992.7	983.0	972.9	963.6	955.1	944.6
20°	1000.0	991.5	981.0	975.3	971.3	958.3	949.1	937.7	928.0	917.5	905.8
22.5°	968.9	957.1	945.4	937.3	932.9	920.0	907.4	897.3	886.8	874.7	866.2
25°	933.7	919.1	905.0	896.9	890.0	876.3	864.2	853.7	840.7	830.2	821.7
27.5°	894.1	877.5	860.9	852.9	846.4	831.4	818.5	807.6	795.1	785.8	776.9
30°	846.8	831.8	816.1	809.6	801.9	786.6	771.6	761.9	748.2	738.5	728.8
32.5°	787.8	778.1	765.5	756.7	752.6	738.5	725.9	714.2	702.5	694.8	685.1
35°	723.1	714.6	704.1	699.3	694.0	685.1	675.0	664.9	655.6	648.3	639.4
37.5°	657.6	649.1	642.7	637.4	634.2	626.1	620.0	612.4	605.9	599.0	594.2
40°	589.7	587.3	580.4	578.0	577.2	568.3	563.0	557.0	552.9	548.9	546.1
42.5°	529.5	525.5	520.2	520.6	518.2	513.3	509.7	505.6	502.8	500.8	498.0
45°	470.1	466.8	464.4	466.4	462.4	460.8	458.0	457.6	455.5	451.9	450.7
47.5°	413.5	413.1	413.5	412.3	411.5	410.7	411.1	409.0	407.0	405.8	404.2
50°	361.8	362.2	363.0	364.2	361.4	362.6	362.2	361.8	361.8	360.5	361.4
52.5°	311.6	312.0	312.8	314.1	314.5	314.5	315.7	316.5	318.1	320.1	320.1
55°	264.3	267.2	268.8	270.8	269.6	272.0	273.2	276.9	278.1	278.1	279.7
57.5°	222.3	225.1	226.3	228.8	229.6	231.6	234.8	236.9	239.7	242.1	244.5
60°	183.9	185.1	188.4	192.0	191.2	196.0	198.5	201.7	205.3	206.9	210.2
62.5°	149.6	151.2	153.6	154.8	157.6	160.1	165.7	169.0	172.2	176.2	179.5
65°	118.8	120.5	122.9	125.3	126.5	130.2	133.0	138.6	141.5	145.9	149.6
67.5°	90.9	93.4	95.4	97.0	97.8	101.5	105.9	108.3	113.6	118.0	120.9
70°	67.9	69.9	72.4	71.9	73.6	76.4	79.6	83.3	87.3	91.3	94.6
72.5°	47.3	49.3	50.9	51.3	52.9	55.0	57.4	60.2	63.5	67.5	71.9
75°	29.9	30.3	31.9	32.7	33.5	36.0	38.0	40.8	43.7	46.9	49.7
77.5°	15.0	16.2	17.0	17.8	18.2	20.2	22.2	24.7	27.1	30.3	33.1
80°	5.7	6.1	7.3	7.7	8.5	9.7	11.3	12.5	14.6	17.0	18.6
82.5°	2.0	2.4	2.8	2.8	3.2	4.0	4.4	5.7	6.9	7.7	8.5
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



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CATALOG NUMBER: LD4C25D010 EU4259050 4LBLDWWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8	1080.8
2.5°	1076.4	1076.4	1076.0	1075.6	1075.6	1075.6	1075.2	1075.2
5°	1066.7	1065.5	1065.1	1064.2	1063.8	1063.4	1062.2	1062.2
7.5°	1050.9	1049.3	1048.1	1046.9	1045.3	1044.0	1044.0	1042.4
10°	1029.9	1026.7	1025.0	1023.4	1021.4	1019.0	1018.2	1017.0
12.5°	1004.4	998.0	996.3	993.5	990.3	988.7	985.8	985.8
15°	972.9	966.0	962.4	960.8	956.7	953.9	952.7	949.5
17.5°	936.1	930.9	925.2	922.8	918.3	914.7	913.1	912.7
20°	898.9	890.4	886.8	883.2	877.9	874.7	872.3	869.0
22.5°	856.1	848.4	843.2	840.7	836.3	830.6	826.6	826.6
25°	810.8	803.9	801.1	795.9	790.6	788.6	783.7	782.9
27.5°	767.6	760.7	755.0	752.2	746.1	743.3	739.3	737.7
30°	722.7	714.6	710.6	710.2	702.9	700.1	696.8	695.2
32.5°	677.8	671.0	666.9	664.5	661.3	656.4	653.6	652.0
35°	633.4	628.9	625.3	622.5	617.2	614.8	612.4	610.3
37.5°	586.9	582.9	581.2	578.8	576.4	571.9	571.1	569.5
40°	542.0	536.8	536.8	535.2	532.7	532.3	531.1	531.1
42.5°	495.1	492.7	492.3	492.7	491.1	490.3	489.1	491.9
45°	448.7	449.9	447.8	448.3	447.4	449.1	449.1	450.7
47.5°	405.8	404.2	405.0	405.8	407.0	407.0	406.6	406.2
50°	360.1	361.8	363.4	361.4	362.2	362.6	360.5	360.9
52.5°	320.9	321.3	322.5	321.3	322.5	322.1	323.0	321.3
55°	282.9	282.9	284.6	285.0	285.4	286.6	287.0	288.2
57.5°	246.2	248.2	250.2	249.8	251.4	253.0	251.8	253.0
60°	214.2	215.8	217.9	218.7	219.9	220.7	220.7	221.5
62.5°	181.9	185.1	186.7	188.4	188.4	190.0	191.6	192.0
65°	152.8	156.4	157.6	158.8	159.7	161.3	163.3	162.9
67.5°	125.3	127.7	129.3	130.2	132.6	133.4	135.0	136.6
70°	98.2	101.5	102.7	104.3	106.3	107.9	109.5	110.3
72.5°	75.2	77.6	78.4	80.0	82.1	83.7	84.5	85.7
75°	52.5	56.6	57.0	58.2	59.8	61.8	63.1	62.7
77.5°	34.8	37.6	38.0	39.6	41.2	42.8	43.2	43.7
80°	20.6	22.2	22.6	23.4	24.7	25.5	26.3	27.1
82.5°	9.7	10.5	11.3	11.3	12.1	12.9	12.9	13.3
85°	3.2	3.2	3.6	3.6	4.0	4.0	4.4	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



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













(END OF REPORT)