

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: P879390

Luminaire Tested: **LD4C25D010 EU4259030 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: P879390  
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 EU4259030 4LBLDWWH  
Description: 4 INCH 2500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBLDWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

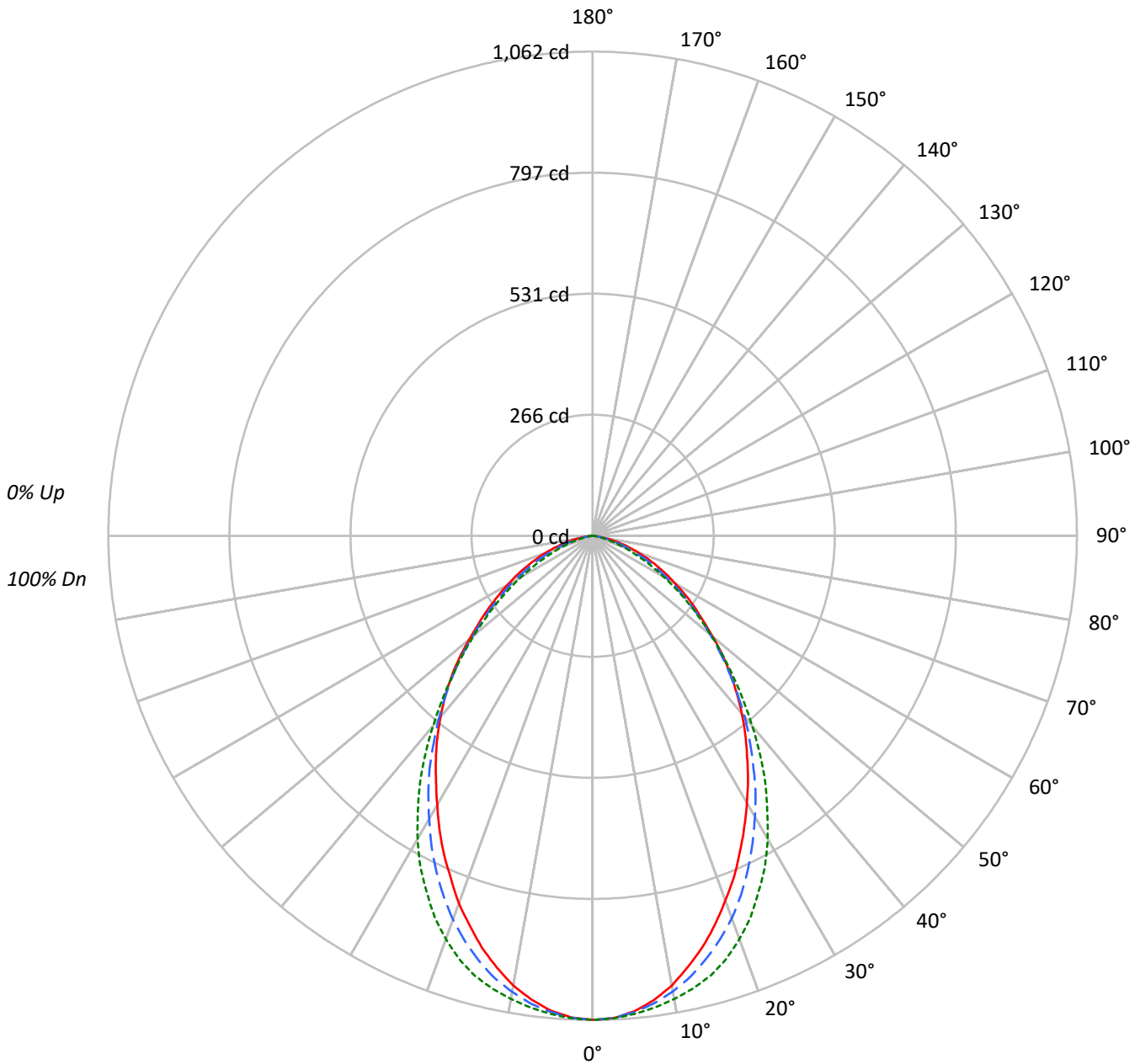
Lumens per Lamp: N/A  
Luminaire Lumens: 1899.0 lumens  
Efficiency: N/A  
Efficacy: 60.3 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.5  
Input Voltage (V): NR  
Input Current (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									
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°	130434	130434	130434
5°	129107	129822	128959
10°	124911	128703	124961
15°	118666	127047	119060
20°	111232	123051	112147
25°	103590	116752	104539
30°	95968	108905	96677
35°	88531	98999	89881
40°	81662	87227	83170
45°	73979	75595	76203
50°	65575	64754	67219
55°	58452	54532	59801
60°	51156	44252	53073
65°	44767	34215	46366
70°	37680	25072	39620
75°	29430	16281	31091
80°	19314	8561	21225
85°	6625	3806	8739



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.1	5.2
10°-20°	270.8	14.3
20°-30°	372.4	19.6
30°-40°	388.5	20.5
40°-50°	332.4	17.5
50°-60°	237.8	12.5
60°-70°	138.0	7.3
70°-80°	53.2	2.8
80°-90°	6.8	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°	742.4	39.1
0°-40°	1130.9	59.6
0°-60°	1701.1	89.6
0°-90°	1899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1899.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1062	1062	1062	1062	1062	
5°	1047	1049	1053	1049	1046	98
15°	933	961	999	965	936	262
25°	764	806	861	811	771	352
35°	590	614	660	623	599	370
45°	426	422	435	433	439	328
55°	273	259	255	266	279	244
65°	154	136	118	141	160	154
75°	62	46	34	49	66	67
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°	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7
2.5°	1059.0	1058.2	1058.6	1058.6	1058.6	1058.2	1059.0	1059.0	1058.6	1058.6	1058.6
5°	1046.9	1046.1	1046.5	1046.9	1046.9	1046.9	1047.3	1047.7	1048.1	1048.4	1048.8
7.5°	1027.4	1026.2	1027.4	1028.9	1028.9	1029.3	1029.7	1030.1	1031.3	1033.2	1034.4
10°	1001.3	1001.3	1001.7	1002.8	1004.8	1004.4	1005.6	1007.5	1009.8	1012.6	1014.5
12.5°	968.1	968.9	970.1	971.2	973.2	974.4	976.3	978.6	982.5	986.4	990.7
15°	933.0	933.4	933.8	936.5	938.5	941.2	942.8	947.5	951.0	956.4	961.1
17.5°	893.7	893.3	894.4	896.8	901.4	902.6	904.6	909.6	914.7	922.1	928.4
20°	850.8	853.1	854.7	857.8	860.5	863.6	865.2	871.4	877.3	884.3	892.5
22.5°	810.2	808.3	811.0	814.5	816.8	819.2	821.9	828.5	834.8	843.4	851.5
25°	764.2	765.4	767.3	770.1	773.2	776.3	779.4	786.4	789.9	798.9	806.3
27.5°	720.5	722.5	723.3	726.8	729.5	731.8	733.4	741.6	744.7	752.5	759.9
30°	676.5	678.4	678.4	682.3	684.3	686.6	690.5	696.0	700.7	706.1	711.6
32.5°	634.0	634.0	635.5	639.0	641.0	643.7	644.9	648.8	653.5	658.9	664.8
35°	590.3	591.5	593.0	593.0	596.5	598.1	599.7	603.6	606.7	609.0	613.7
37.5°	550.1	550.1	549.0	550.9	553.3	552.9	555.2	557.2	559.1	561.8	565.7
40°	509.2	509.2	507.6	508.8	510.4	510.0	509.2	511.2	512.7	514.7	518.6
42.5°	467.5	466.7	466.3	466.3	467.1	466.3	467.1	467.5	467.5	467.5	469.8
45°	425.8	427.7	425.4	424.6	423.4	422.3	421.9	422.3	423.8	421.9	422.3
47.5°	384.8	385.6	384.1	382.9	381.7	380.9	381.7	379.4	380.2	380.5	379.0
50°	343.1	341.6	341.6	340.4	340.8	340.4	339.6	338.8	338.8	336.9	335.7
52.5°	304.5	305.3	306.1	303.3	303.7	301.8	302.2	300.2	300.2	297.9	298.7
55°	272.9	271.8	271.8	270.6	270.2	268.3	267.9	266.7	264.0	262.4	259.3
57.5°	240.2	239.8	238.2	238.6	236.3	235.9	235.1	233.2	231.2	229.3	225.8
60°	208.2	208.6	208.6	207.8	206.6	204.7	205.1	202.4	199.6	196.1	193.0
62.5°	181.7	180.5	180.1	179.4	177.0	177.0	175.1	173.1	170.4	166.9	164.1
65°	154.0	154.4	153.2	152.1	149.7	149.3	147.8	146.2	143.5	140.0	136.1
67.5°	129.1	128.3	127.9	126.7	124.4	124.0	122.8	119.3	117.0	113.5	110.3
70°	104.9	104.1	104.5	102.5	100.2	99.0	98.6	95.9	92.4	89.7	86.6
72.5°	82.3	82.3	81.9	79.9	78.8	78.0	76.4	73.3	71.4	68.2	65.9
75°	62.0	61.6	60.8	59.7	58.1	57.3	56.5	54.6	51.9	48.3	46.4
77.5°	42.9	43.3	42.5	42.1	40.2	39.0	38.6	37.4	35.1	32.8	30.8
80°	27.3	26.9	26.5	25.7	25.3	25.0	23.8	23.0	20.7	19.5	18.3
82.5°	14.8	14.0	14.0	13.6	12.9	12.5	12.1	11.3	10.9	10.1	9.4
85°	4.7	5.1	4.7	4.7	4.7	4.3	4.3	4.3	3.9	3.9	3.5
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°	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7
2.5°	1058.6	1059.0	1059.0	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4	1059.4
5°	1050.0	1050.0	1050.8	1051.6	1051.6	1051.6	1051.9	1052.7	1052.7	1052.7	1052.3
7.5°	1036.0	1037.5	1039.1	1040.6	1041.0	1041.4	1042.2	1043.8	1043.8	1043.8	1043.8
10°	1017.6	1021.1	1023.1	1025.4	1026.6	1027.4	1029.7	1030.1	1031.3	1031.7	1031.3
12.5°	994.2	998.9	1003.2	1007.1	1008.7	1010.2	1012.6	1014.9	1016.1	1017.2	1016.9
15°	968.1	973.2	979.8	984.1	987.2	989.6	993.1	996.2	998.1	998.9	998.9
17.5°	936.5	942.8	949.8	956.8	958.8	962.7	966.6	970.9	973.2	973.6	973.2
20°	901.4	908.5	914.3	921.3	925.6	927.6	933.0	938.5	940.8	941.2	940.8
22.5°	859.7	866.4	874.2	881.6	885.1	888.6	894.4	899.9	903.0	905.3	903.0
25°	813.3	822.7	830.1	836.3	841.4	844.9	852.3	856.6	861.7	861.3	861.7
27.5°	767.7	775.5	783.7	791.1	794.2	798.1	804.0	811.0	815.3	818.0	817.6
30°	720.9	727.2	734.2	740.8	745.9	749.0	757.6	760.7	766.2	767.7	766.5
32.5°	671.4	675.7	682.7	691.7	693.6	696.8	702.2	710.0	712.0	712.7	713.1
35°	618.8	627.0	632.8	638.3	639.8	642.6	648.8	654.6	656.6	660.1	658.5
37.5°	570.0	574.7	577.4	582.9	587.6	589.9	593.0	596.9	600.8	602.4	602.0
40°	521.3	523.6	526.0	531.8	532.2	532.2	536.9	542.4	542.4	543.9	543.9
42.5°	471.4	471.8	474.9	478.0	478.8	479.6	484.3	485.0	487.4	488.5	490.1
45°	423.0	425.4	427.3	427.7	429.7	430.1	431.2	432.4	435.9	435.1	435.9
47.5°	379.0	380.2	381.3	381.3	382.5	382.1	384.1	382.9	385.2	386.0	387.2
50°	335.7	337.7	336.5	337.3	336.9	338.0	337.3	337.3	337.3	338.8	340.0
52.5°	295.9	296.3	295.2	295.5	295.5	294.8	295.5	295.2	294.8	294.8	295.2
55°	259.3	257.7	256.9	255.4	253.4	255.8	254.6	253.8	255.4	254.6	255.4
57.5°	223.8	221.9	220.3	219.5	216.8	218.3	216.8	216.0	216.0	216.0	218.0
60°	190.3	188.3	186.4	184.0	183.6	182.9	182.1	180.1	180.5	180.1	180.9
62.5°	161.0	157.1	154.4	152.5	152.1	150.9	149.7	147.8	148.2	148.2	148.6
65°	134.1	129.8	125.9	123.2	123.2	121.3	119.3	119.3	117.0	117.7	118.1
67.5°	107.2	103.7	99.8	97.9	96.7	95.1	94.0	93.2	92.0	92.0	92.8
70°	83.0	79.5	77.6	74.5	74.1	72.9	71.4	70.2	69.8	69.8	69.4
72.5°	62.8	59.7	57.3	55.4	54.2	53.0	51.5	51.1	50.3	50.3	51.1
75°	43.7	41.7	39.8	37.8	37.0	36.7	35.5	34.7	34.7	34.3	34.7
77.5°	29.2	27.3	25.3	24.6	23.8	23.0	22.6	22.2	21.1	21.1	21.1
80°	16.8	16.0	15.2	14.0	14.0	13.6	12.9	12.5	12.1	12.1	12.1
82.5°	8.6	8.2	7.4	7.0	7.0	7.0	6.6	6.6	6.2	6.2	6.2
85°	3.5	3.1	2.7	2.7	2.7	2.7	2.7	2.7	3.1	2.7	3.1
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°	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7
2.5°	1059.4	1059.0	1059.0	1059.0	1059.0	1059.0	1058.6	1058.6	1058.2	1058.2	1058.2
5°	1052.7	1052.3	1051.9	1051.6	1051.2	1050.8	1050.4	1050.0	1048.8	1048.4	1047.7
7.5°	1043.4	1042.6	1041.4	1041.0	1040.3	1039.1	1037.5	1036.7	1035.2	1033.2	1032.5
10°	1030.9	1029.3	1028.2	1026.2	1025.8	1024.3	1020.4	1018.4	1015.7	1013.3	1010.6
12.5°	1015.7	1014.1	1011.4	1008.7	1007.1	1003.6	1000.1	997.0	993.5	988.4	984.5
15°	997.0	994.6	989.2	988.4	986.1	980.6	975.9	970.1	964.6	959.2	954.5
17.5°	972.0	967.0	964.2	960.7	958.0	951.0	945.9	939.3	931.9	925.6	919.0
20°	939.3	933.8	929.1	927.2	923.7	917.4	911.2	903.0	895.6	887.8	882.0
22.5°	900.3	896.8	889.8	887.4	883.1	876.9	869.5	861.7	854.7	846.1	838.3
25°	858.6	853.5	848.0	843.4	840.2	834.4	825.0	819.2	811.4	802.0	796.2
27.5°	814.1	808.3	800.5	797.3	794.6	786.8	779.0	771.6	765.4	757.2	752.1
30°	762.6	758.4	753.3	749.4	745.5	739.3	732.2	723.7	717.0	713.1	706.1
32.5°	710.4	706.9	700.3	698.3	694.0	689.0	683.9	677.6	670.6	664.8	659.3
35°	654.6	651.1	646.5	642.9	641.4	637.9	632.4	627.0	623.4	616.8	614.1
37.5°	598.9	597.7	593.0	589.5	588.4	584.1	581.3	577.4	572.4	570.8	567.7
40°	541.6	540.8	538.1	537.7	535.3	534.2	530.3	527.1	524.8	523.6	521.7
42.5°	488.9	488.2	485.8	486.2	483.9	483.1	482.7	480.0	478.0	475.7	476.1
45°	437.1	436.3	434.7	434.0	435.1	434.7	434.0	432.8	432.8	433.2	432.0
47.5°	387.2	388.0	386.4	387.2	387.2	386.0	386.0	387.6	388.0	388.7	389.5
50°	340.0	342.3	341.6	342.7	343.1	343.5	342.3	344.3	343.9	347.4	346.6
52.5°	297.1	297.5	299.1	299.4	299.8	300.2	302.2	303.7	304.1	305.7	308.4
55°	255.8	256.2	259.3	259.3	261.2	261.6	264.4	265.1	266.3	270.6	271.4
57.5°	216.8	219.1	220.7	221.5	222.6	224.6	226.1	229.7	231.6	234.3	237.1
60°	181.7	184.4	186.4	187.2	188.7	191.1	193.0	196.9	200.4	203.5	205.5
62.5°	149.3	151.7	153.2	156.0	156.0	157.9	162.6	164.9	168.8	171.6	175.1
65°	120.5	122.0	124.8	124.8	126.3	129.4	133.3	136.9	140.8	144.7	148.2
67.5°	94.4	95.5	97.1	98.6	99.4	103.3	106.4	111.5	115.0	117.7	122.0
70°	71.4	72.1	74.1	75.6	76.8	79.5	83.0	86.6	90.1	93.2	97.5
72.5°	51.1	52.6	54.6	55.8	56.5	58.5	62.0	65.5	68.6	71.7	74.1
75°	35.1	36.3	37.0	38.2	39.4	40.9	43.3	45.6	49.1	52.2	55.0
77.5°	21.8	23.0	24.2	24.6	25.0	26.5	28.1	30.4	32.8	35.1	37.0
80°	12.9	13.3	13.6	14.0	14.8	16.0	16.8	18.3	19.9	21.4	23.4
82.5°	6.6	7.0	7.4	7.4	7.4	7.8	9.0	9.7	10.1	10.9	12.1
85°	2.7	2.7	2.7	3.1	3.1	3.5	3.5	3.9	3.9	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: P879390

CATALOG NUMBER: LD4C25D010 EU4259030 4LBLDWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7	1061.7
2.5°	1057.8	1057.8	1057.8	1057.4	1057.8	1057.8	1057.8	1057.4
5°	1047.7	1046.9	1046.9	1046.5	1046.1	1046.1	1046.5	1045.7
7.5°	1030.9	1029.7	1028.9	1028.9	1028.6	1028.2	1028.2	1026.2
10°	1009.1	1006.7	1006.7	1005.9	1002.8	1002.4	1001.7	1001.7
12.5°	981.8	979.0	977.5	975.5	973.6	972.0	971.6	970.1
15°	949.4	945.9	943.2	942.4	939.3	936.9	936.9	936.1
17.5°	914.3	908.9	906.9	905.0	900.7	900.3	899.5	896.0
20°	874.5	869.5	866.7	864.8	862.1	858.2	857.4	857.8
22.5°	832.8	825.8	823.5	821.5	818.8	815.3	815.3	812.6
25°	789.5	783.3	781.0	778.6	774.3	772.8	770.8	771.2
27.5°	745.5	739.6	737.7	733.4	730.7	728.7	726.8	726.8
30°	699.5	696.4	693.2	692.9	687.4	685.1	683.1	681.5
32.5°	655.0	651.1	649.6	648.0	645.3	642.2	641.8	639.0
35°	611.4	607.5	605.5	604.0	600.8	599.7	598.5	599.3
37.5°	565.4	564.6	563.4	561.5	559.5	559.1	557.6	559.5
40°	520.1	519.7	518.2	518.6	518.6	517.8	518.6	518.6
42.5°	476.5	476.5	474.9	475.7	476.1	476.8	478.0	478.8
45°	434.0	433.6	434.0	434.7	434.0	435.9	437.5	438.6
47.5°	390.3	390.7	392.2	392.6	393.4	396.1	396.1	396.1
50°	348.6	350.5	349.7	352.1	351.7	353.2	351.7	351.7
52.5°	308.8	310.8	311.1	311.5	313.9	314.3	314.3	313.9
55°	273.3	276.0	274.9	276.8	278.0	278.8	279.9	279.2
57.5°	240.6	241.7	242.9	243.3	244.9	245.6	246.4	245.6
60°	208.2	210.5	212.5	212.9	213.7	214.4	214.8	216.0
62.5°	177.8	181.7	182.5	182.9	184.8	186.0	186.8	187.5
65°	150.9	153.6	155.6	156.7	158.3	158.3	159.5	159.5
67.5°	124.8	127.5	128.7	129.4	131.8	132.2	134.1	134.1
70°	101.0	102.9	103.7	104.9	107.2	108.8	109.6	110.3
72.5°	78.0	80.3	81.5	83.0	84.6	85.8	86.2	87.3
75°	56.9	60.4	60.8	62.4	63.6	65.1	65.9	65.5
77.5°	39.8	40.9	42.5	43.3	44.4	45.6	46.8	46.8
80°	24.6	26.1	26.5	26.9	28.5	29.2	30.0	30.0
82.5°	12.9	13.6	14.4	14.8	15.6	15.6	16.0	16.4
85°	5.1	5.5	5.5	5.5	5.8	6.2	6.2	6.2
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)