

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P252380

Luminaire Tested: **LD6B30D010 EU6B30509024 6LBLWW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252380  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6B30D010 EU6B30509024 6LBLWW1LI  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1931.0 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

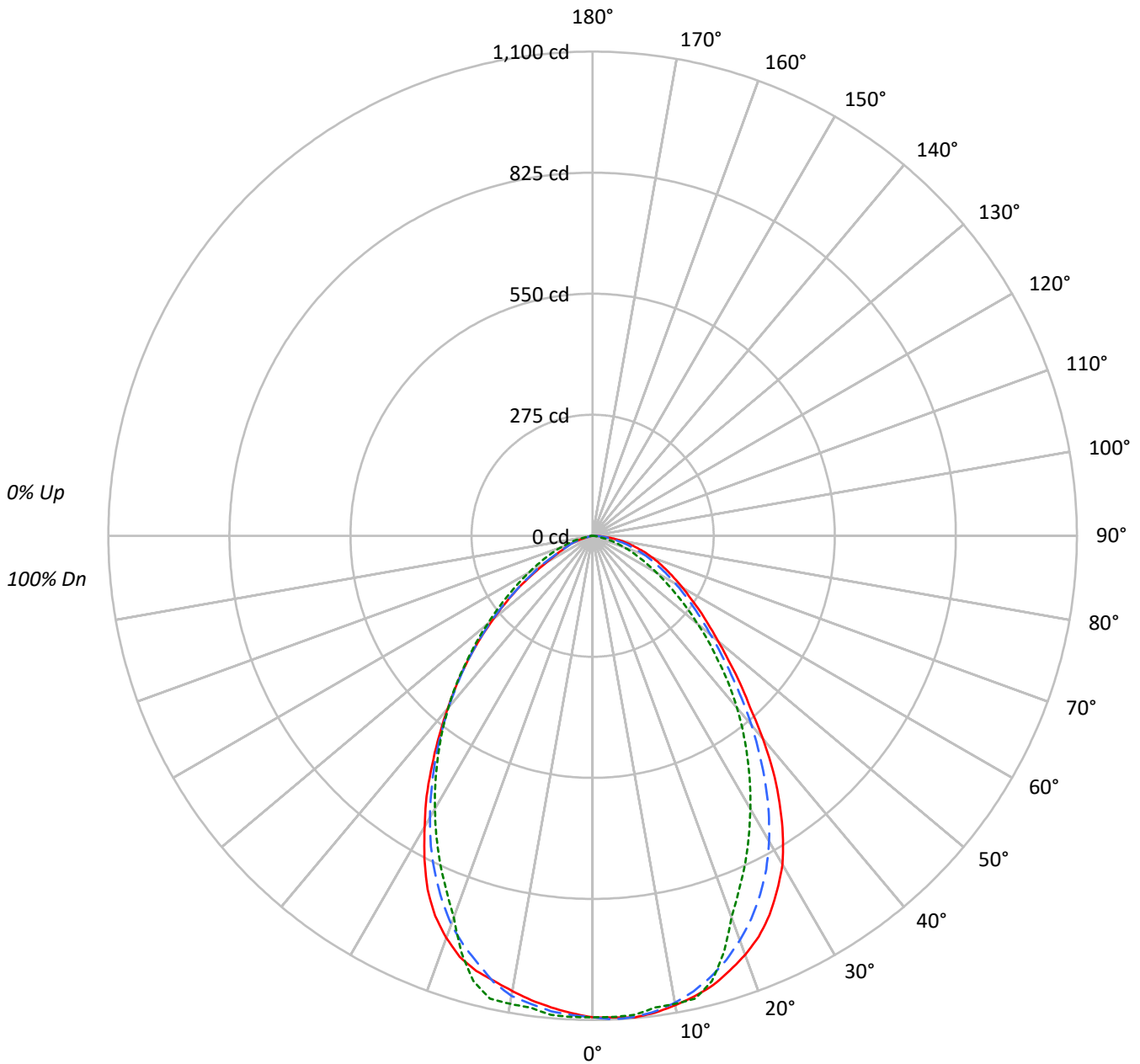
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P252380

CATALOG NUMBER: LD6B30D010 EU6B30509024 6LBLWW1LI

### 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	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	71380	71380	71380
5°	71934	71561	70441
10°	71732	71540	69566
15°	71405	70730	69102
20°	70337	64026	67477
25°	68429	59021	63829
30°	64975	53954	57479
35°	58961	48774	50590
40°	51193	43443	43562
45°	43659	37367	36970
50°	37787	31586	29850
55°	33782	26343	23113
60°	30781	21882	15579
65°	28729	17984	11624
70°	27373	14631	9766
75°	25787	10385	3227
80°	24571	5335	1052
85°	20211	3219	0



TEST NUMBER: P252380

CATALOG NUMBER: LD6B30D010 EU6B30509024 6LBLWW1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.3	5.4
10°-20°	289.0	15.0
20°-30°	398.9	20.7
30°-40°	405.9	21.0
40°-50°	326.2	16.9
50°-60°	216.9	11.2
60°-70°	123.6	6.4
70°-80°	55.5	2.9
80°-90°	11.7	0.6
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°	791.2	41.0
0°-40°	1197.1	62.0
0°-60°	1740.2	90.1
0°-90°	1931.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1931.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1094	1094	1094	1094	1094	
5°	1098	1097	1093	1084	1076	104
15°	1057	1037	1047	1006	1023	298
25°	951	900	820	847	887	436
35°	740	684	612	624	635	460
45°	473	445	405	401	401	367
55°	297	277	232	206	203	267
65°	186	166	116	75	75	185
75°	102	85	41	17	13	109
85°	27	18	4	1	0	32
90°	0	0	0	0	0	



TEST NUMBER: P252380

CATALOG NUMBER: LD6B30D010 EU6B30509024 6LBLWW1LI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1
2.5°	1095.5	1101.2	1099.8	1098.4	1099.8	1098.4	1095.5	1095.5	1092.7	1092.7	1099.8
5°	1098.4	1101.2	1099.8	1098.4	1098.4	1099.8	1094.1	1094.1	1091.3	1089.9	1097.0
7.5°	1092.7	1097.0	1094.1	1094.1	1092.7	1094.1	1088.4	1088.4	1084.2	1082.8	1089.9
10°	1082.8	1088.4	1085.6	1085.6	1085.6	1082.8	1079.9	1078.5	1074.2	1072.8	1077.1
12.5°	1071.4	1075.6	1074.2	1071.4	1071.4	1071.4	1065.7	1064.3	1058.6	1055.8	1060.0
15°	1057.2	1060.0	1058.6	1057.2	1054.3	1054.3	1048.7	1045.8	1040.1	1034.4	1037.3
17.5°	1035.9	1040.1	1037.3	1035.9	1031.6	1031.6	1025.9	1023.1	1014.5	1008.9	1010.3
20°	1013.1	1014.5	1013.1	1010.3	1006.0	1004.6	998.9	993.2	986.1	979.0	977.6
22.5°	986.1	987.6	983.3	980.4	976.2	974.8	967.7	963.4	952.0	943.5	942.1
25°	950.6	952.0	952.0	944.9	942.1	939.2	932.1	925.0	915.1	903.7	899.5
27.5°	908.0	912.2	909.4	902.3	896.6	895.2	888.1	882.4	869.6	859.7	854.0
30°	862.5	861.1	859.7	855.4	846.9	845.5	838.4	831.2	821.3	808.5	801.4
32.5°	804.2	804.2	802.8	798.6	790.0	787.2	781.5	773.0	761.6	751.7	744.6
35°	740.3	741.7	740.3	731.8	726.1	723.3	720.4	710.5	700.5	689.2	683.5
37.5°	673.5	669.3	670.7	663.6	656.5	659.3	650.8	646.5	635.2	626.6	620.9
40°	601.1	603.9	598.2	595.4	591.1	586.8	586.8	579.7	574.1	564.1	561.3
42.5°	530.0	534.3	532.9	530.0	524.3	525.7	518.6	515.8	508.7	504.4	500.2
45°	473.2	473.2	473.2	470.3	468.9	466.1	461.8	457.5	453.3	447.6	444.8
47.5°	417.8	417.8	419.2	416.3	413.5	412.1	409.2	409.2	402.1	396.4	393.6
50°	372.3	372.3	372.3	369.4	366.6	366.6	363.8	360.9	356.7	352.4	349.6
52.5°	331.1	331.1	331.1	328.2	326.8	325.4	324.0	322.6	316.9	314.0	311.2
55°	297.0	295.6	295.6	294.1	291.3	291.3	289.9	287.0	282.8	278.5	277.1
57.5°	262.9	264.3	262.9	262.9	260.0	260.0	257.2	255.8	251.5	248.7	245.8
60°	235.9	235.9	235.9	234.5	231.6	233.0	230.2	228.8	224.5	220.2	217.4
62.5°	208.9	210.3	210.3	208.9	206.0	206.0	204.6	203.2	198.9	194.7	190.4
65°	186.1	186.1	186.1	184.7	183.3	183.3	181.9	180.5	176.2	170.5	166.2
67.5°	164.8	163.4	163.4	163.4	162.0	160.6	159.1	157.7	153.5	149.2	143.5
70°	143.5	143.5	143.5	142.1	139.3	140.7	139.3	137.8	133.6	129.3	125.0
72.5°	123.6	123.6	122.2	120.8	120.8	119.4	119.4	117.9	113.7	108.0	103.7
75°	102.3	102.3	102.3	102.3	99.5	100.9	98.0	96.6	93.8	89.5	85.3
77.5°	83.8	83.8	83.8	82.4	81.0	81.0	79.6	78.2	73.9	71.0	65.4
80°	65.4	65.4	65.4	65.4	63.9	62.5	61.1	59.7	56.8	52.6	48.3
82.5°	48.3	48.3	46.9	46.9	46.9	45.5	44.0	42.6	39.8	36.9	34.1
85°	27.0	28.4	28.4	25.6	27.0	25.6	25.6	22.7	22.7	19.9	18.5
87.5°	9.9	8.5	8.5	8.5	8.5	8.5	8.5	7.1	7.1	7.1	5.7
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: P252380

CATALOG NUMBER: LD6B30D010 EU6B30509024 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1
2.5°	1094.1	1092.7	1098.4	1098.4	1089.9	1094.1	1095.5	1092.7	1092.7	1094.1	1089.9
5°	1091.3	1088.4	1094.1	1095.5	1087.0	1091.3	1092.7	1089.9	1091.3	1092.7	1087.0
7.5°	1081.3	1081.3	1085.6	1087.0	1078.5	1082.8	1082.8	1079.9	1081.3	1081.3	1077.1
10°	1071.4	1067.1	1071.4	1071.4	1064.3	1065.7	1068.5	1067.1	1072.8	1079.9	1079.9
12.5°	1052.9	1048.7	1055.8	1055.8	1051.5	1057.2	1064.3	1068.5	1074.2	1077.1	1068.5
15°	1030.2	1031.6	1044.4	1054.3	1050.1	1058.6	1065.7	1062.9	1055.8	1047.2	1034.4
17.5°	1000.3	996.1	1007.4	1013.1	1007.4	1010.3	1016.0	1010.3	998.9	991.8	974.8
20°	966.2	954.9	954.9	952.0	942.1	942.1	940.7	930.7	926.5	922.2	915.1
22.5°	927.9	915.1	910.8	902.3	893.8	892.3	888.1	878.1	872.5	869.6	861.1
25°	883.8	872.5	865.4	856.8	844.0	841.2	836.9	827.0	824.1	819.9	812.8
27.5°	838.4	824.1	814.2	805.7	794.3	792.9	784.4	777.3	771.6	768.7	763.0
30°	785.8	770.1	763.0	751.7	743.1	740.3	733.2	723.3	719.0	716.2	711.9
32.5°	727.5	714.7	707.6	697.7	686.3	687.7	679.2	670.7	667.8	665.0	660.7
35°	670.7	657.9	649.4	640.8	633.7	630.9	625.2	618.1	613.8	612.4	609.6
37.5°	608.2	598.2	591.1	582.6	576.9	574.1	571.2	564.1	561.3	561.3	555.6
40°	547.1	538.5	532.9	528.6	521.5	520.1	517.2	513.0	511.5	510.1	505.9
42.5°	491.6	480.3	476.0	473.2	468.9	466.1	464.6	461.8	460.4	459.0	454.7
45°	439.1	429.1	424.9	422.0	417.8	416.3	414.9	410.7	407.8	405.0	403.5
47.5°	387.9	380.8	379.4	372.3	369.4	366.6	363.8	360.9	359.5	358.1	352.4
50°	343.9	339.6	332.5	328.2	325.4	324.0	318.3	314.0	312.6	311.2	306.9
52.5°	304.1	298.4	294.1	287.0	285.6	282.8	279.9	274.2	271.4	270.0	265.7
55°	268.6	264.3	258.6	252.9	248.7	247.2	243.0	237.3	234.5	231.6	228.8
57.5°	238.7	231.6	225.9	220.2	217.4	213.1	208.9	206.0	201.8	197.5	193.2
60°	210.3	204.6	197.5	191.8	189.0	186.1	180.5	176.2	171.9	167.7	163.4
62.5°	183.3	177.6	170.5	164.8	162.0	159.1	153.5	149.2	144.9	140.7	135.0
65°	159.1	153.5	147.8	142.1	139.3	136.4	130.7	125.0	120.8	116.5	110.8
67.5°	139.3	132.1	126.5	120.8	117.9	115.1	109.4	105.1	99.5	95.2	89.5
70°	117.9	112.3	108.0	102.3	99.5	96.6	90.9	85.3	81.0	76.7	71.0
72.5°	99.5	92.4	88.1	82.4	79.6	78.2	72.5	68.2	63.9	58.3	54.0
75°	79.6	73.9	68.2	63.9	61.1	59.7	54.0	49.7	45.5	41.2	36.9
77.5°	61.1	56.8	51.2	46.9	44.0	42.6	36.9	32.7	28.4	25.6	21.3
80°	45.5	39.8	36.9	32.7	31.3	28.4	25.6	21.3	18.5	14.2	11.4
82.5°	31.3	27.0	24.2	21.3	19.9	18.5	15.6	12.8	9.9	8.5	7.1
85°	17.1	14.2	12.8	11.4	9.9	9.9	8.5	7.1	5.7	4.3	2.8
87.5°	5.7	4.3	4.3	4.3	4.3	2.8	2.8	2.8	1.4	1.4	1.4
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: P252380

CATALOG NUMBER: LD6B30D010 EU6B30509024 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1
2.5°	1092.7	1092.7	1092.7	1091.3	1091.3	1091.3	1089.9	1095.5	1089.9	1088.4	1092.7
5°	1091.3	1088.4	1088.4	1088.4	1088.4	1087.0	1085.6	1088.4	1084.2	1082.8	1082.8
7.5°	1082.8	1081.3	1081.3	1079.9	1078.5	1077.1	1075.6	1077.1	1072.8	1071.4	1071.4
10°	1084.2	1081.3	1081.3	1077.1	1074.2	1070.0	1065.7	1067.1	1061.4	1057.2	1057.2
12.5°	1067.1	1060.0	1055.8	1051.5	1048.7	1047.2	1041.5	1044.4	1038.7	1037.3	1037.3
15°	1028.8	1020.2	1013.1	1010.3	1010.3	1007.4	1003.2	1008.9	1006.0	1007.4	1014.5
17.5°	969.1	964.8	960.6	959.1	960.6	963.4	966.2	974.8	974.8	979.0	986.1
20°	916.5	913.7	916.5	916.5	917.9	923.6	929.3	936.4	939.2	943.5	953.4
22.5°	865.4	865.4	868.2	872.5	871.0	881.0	882.4	895.2	895.2	903.7	912.2
25°	815.6	815.6	818.5	819.9	822.7	828.4	834.1	844.0	846.9	855.4	862.5
27.5°	767.3	765.9	765.9	767.3	770.1	777.3	780.1	791.5	795.7	801.4	808.5
30°	713.3	711.9	714.7	717.6	716.2	723.3	727.5	736.0	738.9	744.6	750.3
32.5°	662.2	662.2	662.2	665.0	665.0	670.7	670.7	680.6	680.6	684.9	690.6
35°	609.6	609.6	611.0	612.4	613.8	615.3	616.7	622.4	623.8	625.2	628.1
37.5°	559.8	558.4	559.8	559.8	557.0	562.7	562.7	568.4	564.1	568.4	569.8
40°	508.7	508.7	507.3	507.3	507.3	510.1	507.3	511.5	508.7	511.5	510.1
42.5°	456.1	456.1	453.3	456.1	454.7	454.7	454.7	457.5	453.3	456.1	457.5
45°	403.5	402.1	402.1	400.7	400.7	400.7	402.1	402.1	400.7	403.5	403.5
47.5°	352.4	351.0	351.0	351.0	351.0	352.4	348.1	351.0	348.1	348.1	348.1
50°	308.3	306.9	305.5	304.1	302.7	302.7	301.2	301.2	298.4	297.0	295.6
52.5°	265.7	264.3	261.5	261.5	260.0	258.6	254.3	254.3	250.1	248.7	248.7
55°	227.3	223.1	221.7	218.8	218.8	216.0	213.1	210.3	206.0	203.2	203.2
57.5°	191.8	187.6	184.7	183.3	181.9	179.0	173.4	171.9	166.2	164.8	163.4
60°	160.6	156.3	152.0	149.2	147.8	143.5	137.8	135.0	132.1	127.9	123.6
62.5°	130.7	126.5	120.8	119.4	116.5	112.3	108.0	103.7	100.9	96.6	93.8
65°	105.1	100.9	96.6	93.8	90.9	86.7	82.4	78.2	75.3	73.9	72.5
67.5°	85.3	79.6	75.3	73.9	71.0	68.2	63.9	62.5	59.7	59.7	59.7
70°	66.8	62.5	58.3	56.8	55.4	52.6	49.7	49.7	49.7	49.7	49.7
72.5°	49.7	46.9	42.6	41.2	39.8	38.4	35.5	36.9	35.5	35.5	35.5
75°	31.3	28.4	25.6	24.2	22.7	21.3	19.9	18.5	17.1	15.6	15.6
77.5°	17.1	14.2	12.8	11.4	11.4	9.9	8.5	8.5	7.1	7.1	7.1
80°	9.9	8.5	7.1	5.7	5.7	4.3	4.3	4.3	4.3	2.8	2.8
82.5°	5.7	4.3	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4
85°	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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: P252380

CATALOG NUMBER: LD6B30D010 EU6B30509024 6LBLWW1LI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1	1094.1
2.5°	1085.6	1089.9	1085.6	1089.9	1089.9	1089.9	1089.9	1085.6
5°	1078.5	1081.3	1077.1	1079.9	1081.3	1079.9	1079.9	1075.6
7.5°	1065.7	1068.5	1064.3	1068.5	1070.0	1068.5	1067.1	1064.3
10°	1052.9	1054.3	1050.1	1052.9	1055.8	1055.8	1054.3	1050.1
12.5°	1033.0	1037.3	1033.0	1035.9	1038.7	1040.1	1040.1	1035.9
15°	1010.3	1017.4	1014.5	1018.8	1023.1	1024.5	1024.5	1023.1
17.5°	987.6	994.7	990.4	997.5	1001.8	1004.6	1006.0	1003.2
20°	954.9	963.4	960.6	966.2	971.9	976.2	976.2	971.9
22.5°	912.2	923.6	922.2	926.5	933.6	935.0	937.8	935.0
25°	865.4	873.9	872.5	876.7	885.2	885.2	886.7	886.7
27.5°	811.4	819.9	818.5	821.3	827.0	828.4	829.8	827.0
30°	753.1	757.4	757.4	761.6	765.9	767.3	767.3	763.0
32.5°	689.2	694.8	697.7	696.3	700.5	703.4	701.9	701.9
35°	630.9	632.3	633.7	635.2	636.6	639.4	636.6	635.2
37.5°	568.4	572.6	569.8	572.6	575.5	574.1	572.6	572.6
40°	511.5	513.0	510.1	513.0	514.4	514.4	514.4	511.5
42.5°	454.7	457.5	454.7	457.5	457.5	457.5	457.5	456.1
45°	397.9	400.7	400.7	402.1	402.1	400.7	400.7	400.7
47.5°	345.3	348.1	345.3	348.1	349.6	346.7	346.7	346.7
50°	295.6	294.1	294.1	295.6	295.6	295.6	295.6	294.1
52.5°	244.4	245.8	245.8	245.8	247.2	245.8	247.2	247.2
55°	200.4	200.4	200.4	201.8	200.4	200.4	201.8	203.2
57.5°	160.6	159.1	157.7	157.7	159.1	157.7	157.7	157.7
60°	123.6	122.2	120.8	120.8	120.8	120.8	120.8	119.4
62.5°	92.4	92.4	92.4	93.8	93.8	93.8	93.8	95.2
65°	73.9	73.9	73.9	73.9	73.9	73.9	73.9	75.3
67.5°	59.7	59.7	59.7	61.1	61.1	61.1	61.1	61.1
70°	49.7	49.7	51.2	49.7	51.2	51.2	51.2	51.2
72.5°	34.1	34.1	34.1	34.1	34.1	32.7	34.1	32.7
75°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	12.8
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
80°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0
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)