

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: P252145

Luminaire Tested: **LD6B15D010 EU6B10208050 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10208050 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1932.0 lumens
Efficiency: N/A
Efficacy: 134.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

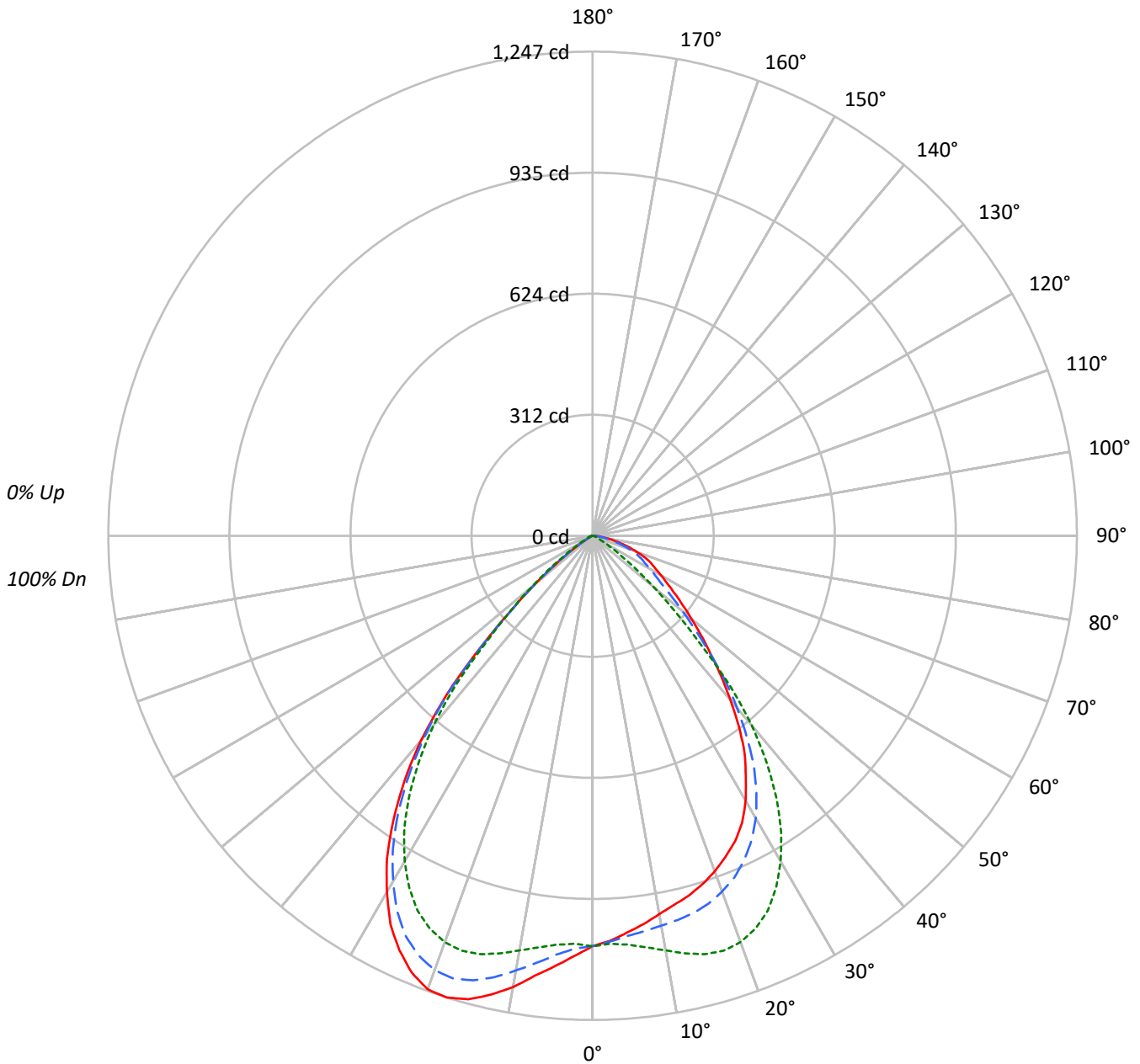
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90				90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80				80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72				72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65				65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48				48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44				44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40				40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	68959	68959	68959
5°	67166	69223	72857
10°	65538	71825	78185
15°	64766	75350	83468
20°	63839	77308	86292
25°	62483	76743	84741
30°	59378	72923	79778
35°	54325	65754	71226
40°	46986	54302	58432
45°	39627	35614	38225
50°	33636	20614	19386
55°	29198	9884	7473
60°	26370	4619	1840
65°	25580	2655	617
70°	22928	2117	572
75°	18855	1538	252
80°	14051	751	0
85°	12127	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	5.3
10°-20°	311.1	16.1
20°-30°	475.4	24.6
30°-40°	497.2	25.7
40°-50°	322.5	16.7
50°-60°	128.1	6.6
60°-70°	60.7	3.1
70°-80°	28.9	1.5
80°-90°	5.9	0.3
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°	888.6	46.0
0°-40°	1385.8	71.7
0°-60°	1836.5	95.1
0°-90°	1932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1932.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1057	1057	1057	1057	1057	
5°	1026	1035	1057	1083	1112	97
15°	959	1005	1116	1185	1236	270
25°	868	923	1066	1138	1177	397
35°	682	724	826	874	894	422
45°	430	425	386	409	414	334
55°	257	218	87	68	66	233
65°	166	137	17	4	4	162
75°	75	61	6	2	1	81
85°	16	10	0	0	0	19
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°	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0
2.5°	1043.8	1045.8	1034.7	1031.7	1039.8	1042.8	1043.8	1040.8	1041.8	1045.8	1045.8
5°	1025.6	1027.7	1017.5	1014.5	1022.6	1024.6	1027.7	1026.6	1029.7	1035.7	1034.7
7.5°	1008.5	1011.5	1000.4	996.3	1006.4	1011.5	1013.5	1013.5	1017.5	1025.6	1026.6
10°	989.3	993.3	983.2	981.2	992.3	997.3	998.3	1000.4	1006.4	1017.5	1019.6
12.5°	973.1	977.1	970.1	967.0	979.1	984.2	986.2	990.3	997.3	1011.5	1013.5
15°	958.9	962.0	953.9	951.9	964.0	970.1	971.1	977.1	986.2	1002.4	1005.4
17.5°	940.8	942.8	936.7	934.7	946.8	952.9	953.9	961.0	972.1	988.2	993.3
20°	919.5	921.6	915.5	913.5	925.6	932.7	933.7	939.7	952.9	970.1	975.1
22.5°	894.3	898.3	891.2	889.2	901.3	907.4	910.4	915.5	928.6	945.8	952.9
25°	868.0	868.0	862.9	861.9	873.1	880.1	879.1	886.2	899.3	916.5	922.6
27.5°	833.6	832.6	827.6	826.6	838.7	844.8	842.7	849.8	861.9	879.1	885.2
30°	788.2	790.2	783.1	781.1	791.2	801.3	800.3	807.4	819.5	835.7	839.7
32.5°	733.6	735.6	734.6	731.6	740.7	745.7	748.8	753.8	763.9	781.1	785.1
35°	682.1	679.0	675.0	675.0	684.1	692.2	689.1	695.2	705.3	722.5	723.5
37.5°	618.4	617.4	615.4	613.4	623.5	625.5	626.5	630.5	639.6	653.8	651.8
40°	551.7	552.7	551.7	547.7	553.7	561.8	560.8	562.8	570.9	581.0	578.0
42.5°	489.1	489.1	489.1	485.0	492.1	496.1	498.2	497.2	499.2	508.3	504.2
45°	429.5	430.5	429.5	428.4	429.5	431.5	429.5	428.4	428.4	431.5	425.4
47.5°	377.9	377.9	374.9	371.9	374.9	375.9	372.9	369.8	368.8	367.8	357.7
50°	331.4	330.4	329.4	324.4	327.4	328.4	324.4	322.3	318.3	313.2	301.1
52.5°	291.0	290.0	289.0	283.9	286.0	287.0	282.9	278.9	273.8	269.8	254.6
55°	256.7	255.7	255.7	252.6	250.6	252.6	248.6	245.5	238.5	233.4	218.3
57.5°	227.4	227.4	225.3	222.3	223.3	223.3	219.3	215.2	209.2	203.1	191.0
60°	202.1	202.1	202.1	199.1	199.1	199.1	197.0	193.0	187.9	181.9	169.8
62.5°	181.9	181.9	180.9	177.8	178.9	178.9	176.8	172.8	167.7	163.7	151.6
65°	165.7	165.7	165.7	162.7	162.7	163.7	161.7	157.6	153.6	148.5	137.4
67.5°	145.5	144.5	144.5	142.5	143.5	144.5	142.5	139.4	134.4	131.4	121.3
70°	120.2	121.3	122.3	119.2	120.2	120.2	119.2	116.2	113.2	110.1	101.0
72.5°	98.0	98.0	97.0	96.0	96.0	97.0	95.0	92.0	89.9	87.9	80.8
75°	74.8	73.8	74.8	72.8	72.8	72.8	70.7	69.7	68.7	65.7	60.6
77.5°	54.6	53.6	53.6	51.5	52.5	52.5	51.5	49.5	47.5	46.5	42.4
80°	37.4	37.4	37.4	36.4	36.4	35.4	35.4	34.4	32.3	31.3	29.3
82.5°	25.3	25.3	25.3	24.3	24.3	24.3	23.2	22.2	21.2	20.2	18.2
85°	16.2	16.2	16.2	15.2	15.2	15.2	14.1	14.1	13.1	12.1	10.1
87.5°	9.1	9.1	9.1	8.1	8.1	8.1	8.1	8.1	7.1	6.1	5.1
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°	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0
2.5°	1052.9	1038.8	1047.9	1047.9	1044.8	1052.9	1058.0	1062.0	1061.0	1051.9	1050.9
5°	1044.8	1032.7	1042.8	1043.8	1040.8	1051.9	1059.0	1064.0	1065.0	1057.0	1058.0
7.5°	1038.8	1028.7	1041.8	1045.8	1044.8	1054.9	1063.0	1071.1	1075.1	1069.1	1070.1
10°	1035.7	1027.7	1041.8	1047.9	1048.9	1060.0	1072.1	1083.2	1088.3	1084.2	1087.3
12.5°	1031.7	1026.6	1042.8	1051.9	1055.9	1067.1	1082.2	1095.4	1103.4	1101.4	1107.5
15°	1027.7	1023.6	1042.8	1055.9	1061.0	1071.1	1088.3	1107.5	1116.6	1115.6	1123.6
17.5°	1017.5	1016.5	1036.7	1050.9	1058.0	1070.1	1086.3	1109.5	1118.6	1120.6	1130.7
20°	1001.4	1001.4	1023.6	1038.8	1046.9	1058.0	1078.2	1100.4	1111.5	1113.5	1124.7
22.5°	979.1	981.2	1002.4	1017.5	1029.7	1037.8	1059.0	1082.2	1092.3	1095.4	1107.5
25°	949.8	951.9	972.1	987.2	1000.4	1009.5	1029.7	1050.9	1063.0	1066.1	1075.1
27.5°	911.4	915.5	934.7	949.8	961.0	967.0	988.2	1010.5	1019.6	1022.6	1031.7
30°	867.0	868.0	887.2	900.3	911.4	916.5	934.7	957.9	965.0	968.0	981.2
32.5°	812.4	811.4	829.6	841.7	850.8	856.9	876.1	891.2	898.3	903.4	910.4
35°	746.7	745.7	758.9	773.0	780.1	782.1	801.3	817.5	821.5	825.6	834.7
37.5°	673.0	673.0	684.1	691.2	699.2	702.3	711.4	729.6	736.6	735.6	742.7
40°	595.2	591.1	599.2	606.3	608.3	609.3	618.4	632.6	637.6	637.6	642.7
42.5°	513.3	507.3	508.3	512.3	514.3	507.3	513.3	522.4	519.4	523.4	524.4
45°	426.4	417.3	413.3	404.2	406.2	399.1	395.1	397.1	396.1	386.0	388.0
47.5°	355.7	339.5	332.4	319.3	316.3	308.2	303.1	294.0	286.0	286.0	280.9
50°	296.1	279.9	265.8	250.6	245.5	238.5	227.4	215.2	209.2	203.1	198.1
52.5°	248.6	231.4	214.2	198.1	191.0	181.9	166.7	154.6	143.5	137.4	131.4
55°	210.2	191.0	172.8	155.6	146.5	137.4	122.3	108.1	95.0	86.9	81.8
57.5°	180.9	162.7	143.5	125.3	117.2	107.1	90.9	75.8	63.7	54.6	49.5
60°	159.7	141.5	124.3	105.1	97.0	86.9	69.7	55.6	43.5	35.4	29.3
62.5°	141.5	125.3	107.1	89.9	81.8	71.7	55.6	41.4	30.3	22.2	17.2
65°	128.3	112.2	97.0	79.8	72.8	62.6	47.5	34.4	24.3	17.2	12.1
67.5°	113.2	99.0	83.9	69.7	62.6	54.6	40.4	29.3	20.2	14.1	10.1
70°	95.0	83.9	70.7	57.6	52.5	45.5	33.3	24.3	16.2	11.1	8.1
72.5°	75.8	66.7	56.6	46.5	42.4	35.4	27.3	19.2	12.1	8.1	6.1
75°	57.6	50.5	42.4	35.4	31.3	27.3	20.2	14.1	9.1	6.1	4.0
77.5°	39.4	36.4	30.3	24.3	22.2	19.2	13.1	9.1	6.1	4.0	2.0
80°	27.3	24.3	20.2	16.2	14.1	12.1	8.1	6.1	3.0	2.0	1.0
82.5°	17.2	14.1	12.1	10.1	9.1	7.1	5.1	3.0	2.0	1.0	1.0
85°	9.1	8.1	7.1	5.1	5.1	4.0	3.0	2.0	1.0	0.0	0.0
87.5°	5.1	4.0	3.0	2.0	2.0	1.0	1.0	1.0	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°	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0
2.5°	1063.0	1063.0	1062.0	1074.1	1060.0	1074.1	1067.1	1074.1	1064.0	1063.0	1064.0
5°	1071.1	1074.1	1075.1	1086.3	1073.1	1090.3	1084.2	1090.3	1083.2	1085.2	1088.3
7.5°	1087.3	1092.3	1091.3	1105.5	1092.3	1111.5	1107.5	1116.6	1109.5	1111.5	1115.6
10°	1105.5	1111.5	1112.5	1126.7	1114.6	1137.8	1132.7	1142.8	1136.8	1139.8	1144.9
12.5°	1126.7	1133.8	1134.8	1150.9	1137.8	1162.0	1159.0	1169.1	1164.1	1167.1	1173.2
15°	1142.8	1153.0	1155.0	1171.1	1157.0	1182.3	1180.2	1193.4	1185.3	1190.3	1195.4
17.5°	1150.9	1160.0	1164.1	1179.2	1167.1	1192.4	1190.3	1201.5	1195.4	1200.4	1206.5
20°	1145.9	1157.0	1160.0	1175.2	1163.1	1188.3	1185.3	1196.4	1190.3	1194.4	1200.4
22.5°	1127.7	1138.8	1142.8	1157.0	1145.9	1169.1	1168.1	1178.2	1170.1	1175.2	1180.2
25°	1095.4	1107.5	1109.5	1122.6	1110.5	1134.8	1132.7	1143.9	1137.8	1140.8	1147.9
27.5°	1048.9	1063.0	1066.1	1077.2	1068.1	1088.3	1088.3	1097.4	1090.3	1090.3	1097.4
30°	993.3	1007.4	1009.5	1018.6	1010.5	1028.7	1029.7	1038.8	1027.7	1033.7	1034.7
32.5°	925.6	934.7	940.8	948.8	936.7	960.0	956.9	964.0	957.9	957.9	963.0
35°	843.7	854.9	857.9	868.0	857.9	876.1	876.1	880.1	874.1	874.1	882.1
37.5°	754.8	762.9	763.9	774.0	765.9	781.1	780.1	783.1	777.1	781.1	781.1
40°	650.7	656.8	658.8	663.9	662.9	674.0	673.0	675.0	672.0	673.0	675.0
42.5°	529.5	537.6	541.6	545.7	539.6	554.8	551.7	554.8	553.7	554.8	557.8
45°	390.0	396.1	399.1	400.1	398.1	407.2	414.3	408.2	409.2	407.2	411.3
47.5°	281.9	282.9	280.9	287.0	281.9	286.0	288.0	289.0	282.9	281.9	286.0
50°	193.0	198.1	191.0	194.0	193.0	197.0	195.0	196.0	190.0	193.0	191.0
52.5°	128.3	127.3	125.3	126.3	124.3	124.3	124.3	126.3	122.3	120.2	118.2
55°	77.8	75.8	71.7	70.7	70.7	71.7	69.7	67.7	67.7	66.7	66.7
57.5°	45.5	42.4	40.4	39.4	37.4	36.4	35.4	35.4	33.3	33.3	33.3
60°	25.3	22.2	20.2	18.2	18.2	17.2	16.2	15.2	15.2	15.2	14.1
62.5°	13.1	11.1	9.1	8.1	8.1	7.1	6.1	6.1	6.1	6.1	5.1
65°	9.1	7.1	6.1	5.1	5.1	4.0	4.0	4.0	4.0	4.0	4.0
67.5°	7.1	6.1	5.1	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0
70°	6.1	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
72.5°	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
75°	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
80°	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



TEST NUMBER: P252145

CATALOG NUMBER: LD6B15D010 EU6B10208050 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0	1057.0
2.5°	1073.1	1072.1	1073.1	1075.1	1071.1	1083.2	1077.2	1083.2
5°	1096.4	1097.4	1098.4	1101.4	1096.4	1111.5	1103.4	1112.5
7.5°	1126.7	1127.7	1128.7	1131.7	1128.7	1143.9	1134.8	1142.8
10°	1158.0	1160.0	1160.0	1165.1	1162.0	1176.2	1170.1	1180.2
12.5°	1187.3	1189.3	1191.3	1194.4	1192.4	1207.5	1202.5	1210.5
15°	1210.5	1214.6	1215.6	1219.6	1217.6	1233.8	1227.7	1235.8
17.5°	1221.7	1225.7	1225.7	1230.8	1228.7	1245.9	1237.8	1246.9
20°	1215.6	1218.6	1219.6	1224.7	1222.7	1239.9	1231.8	1242.9
22.5°	1196.4	1197.4	1198.4	1203.5	1202.5	1217.6	1210.5	1217.6
25°	1161.0	1164.1	1163.1	1167.1	1167.1	1179.2	1171.1	1177.2
27.5°	1110.5	1113.5	1113.5	1118.6	1114.6	1126.7	1118.6	1127.7
30°	1048.9	1051.9	1049.9	1053.9	1049.9	1062.0	1055.9	1059.0
32.5°	975.1	975.1	976.1	977.1	975.1	986.2	980.2	986.2
35°	887.2	889.2	890.2	891.2	889.2	897.3	890.2	894.3
37.5°	788.2	793.2	792.2	793.2	790.2	800.3	794.2	796.3
40°	682.1	682.1	681.1	683.1	680.0	688.1	684.1	686.1
42.5°	558.8	561.8	557.8	562.8	554.8	565.9	561.8	558.8
45°	419.3	415.3	414.3	415.3	412.3	413.3	416.3	414.3
47.5°	286.0	286.0	283.9	280.9	285.0	286.0	281.9	281.9
50°	192.0	192.0	190.0	189.0	191.0	190.0	187.9	191.0
52.5°	122.3	118.2	118.2	120.2	118.2	116.2	119.2	117.2
55°	66.7	64.7	64.7	66.7	64.7	64.7	63.7	65.7
57.5°	32.3	33.3	32.3	32.3	32.3	32.3	31.3	32.3
60°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1
62.5°	6.1	6.1	5.1	5.1	5.1	5.1	5.1	5.1
65°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
67.5°	3.0	3.0	3.0	3.0	3.0	4.0	3.0	3.0
70°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
72.5°	3.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0
75°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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



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













(END OF REPORT)