

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: P252142

Luminaire Tested: **LD6B15D010 EU6B10208030 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252142
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 EU6B10208030 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1866.0 lumens
Efficiency: N/A
Efficacy: 129.7 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

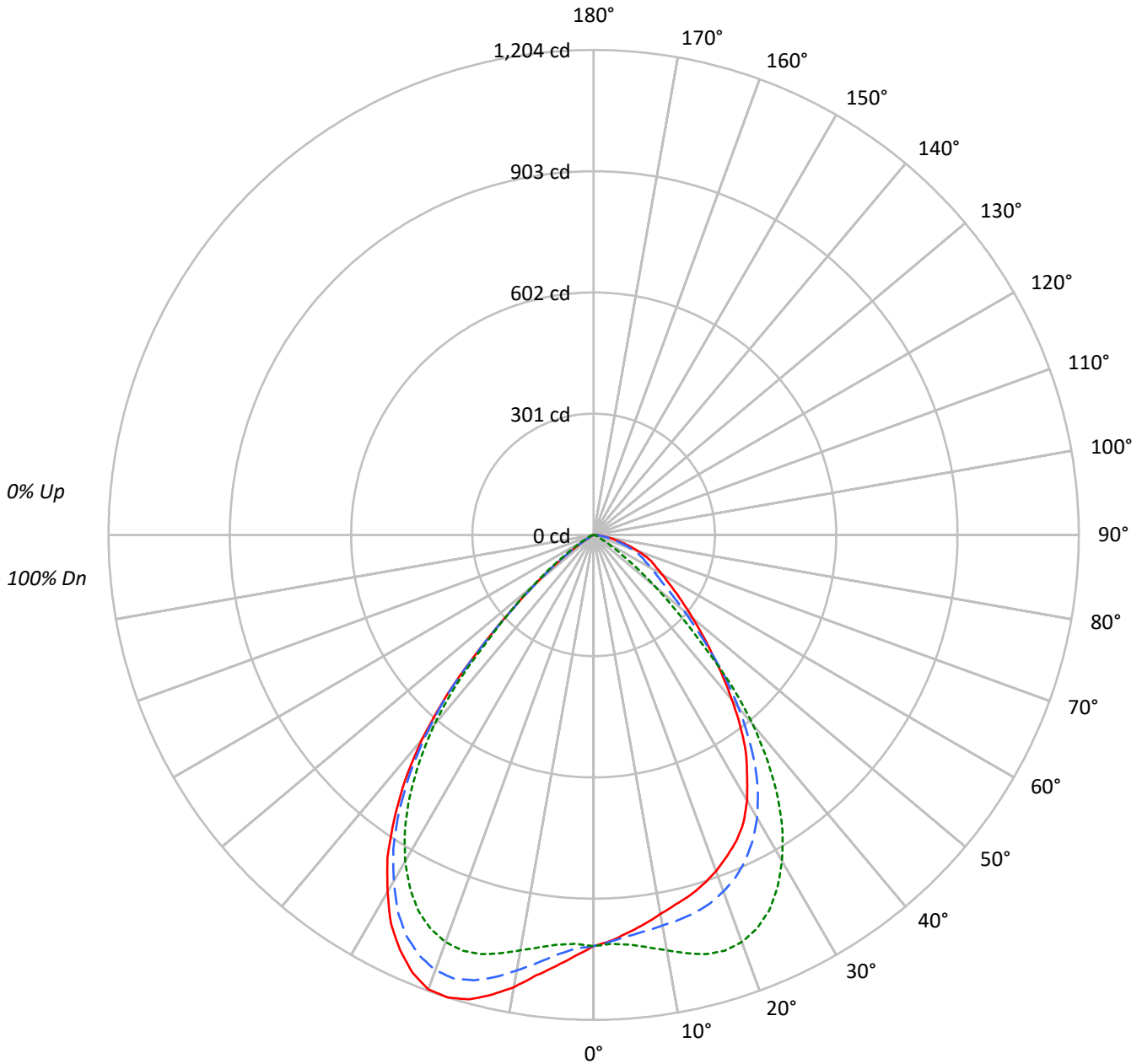
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	66598	66598	66598
5°	64874	66852	70369
10°	63299	69374	75515
15°	62557	72777	80618
20°	61659	74669	83341
25°	60345	74116	81847
30°	57344	70437	77051
35°	52470	63508	68789
40°	45385	52445	56439
45°	38271	34396	36915
50°	32489	19914	18726
55°	28197	9543	7211
60°	25470	4462	1788
65°	24715	2563	602
70°	22146	2041	553
75°	18199	1487	252
80°	13563	751	0
85°	11677	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.6	5.3
10°-20°	300.5	16.1
20°-30°	459.2	24.6
30°-40°	480.2	25.7
40°-50°	311.5	16.7
50°-60°	123.7	6.6
60°-70°	58.7	3.1
70°-80°	27.9	1.5
80°-90°	5.7	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°	858.3	46.0
0°-40°	1338.5	71.7
0°-60°	1773.7	95.1
0°-90°	1866.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1866.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1021	1021	1021	1021	1021	
5°	991	999	1021	1046	1074	94
15°	926	971	1078	1145	1194	261
25°	838	891	1030	1099	1137	384
35°	659	699	797	844	864	407
45°	415	411	373	395	400	323
55°	248	211	84	65	63	225
65°	160	133	17	4	4	156
75°	72	59	6	2	1	78
85°	16	10	0	0	0	18
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°	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8
2.5°	1008.2	1010.1	999.4	996.5	1004.3	1007.2	1008.2	1005.2	1006.2	1010.1	1010.1
5°	990.6	992.5	982.8	979.9	987.7	989.6	992.5	991.6	994.5	1000.4	999.4
7.5°	974.0	976.9	966.2	962.3	972.1	976.9	978.9	978.9	982.8	990.6	991.6
10°	955.5	959.4	949.6	947.7	958.4	963.3	964.2	966.2	972.1	982.8	984.7
12.5°	939.8	943.7	936.9	934.0	945.7	950.6	952.5	956.4	963.3	976.9	978.9
15°	926.2	929.1	921.3	919.3	931.1	936.9	937.9	943.7	952.5	968.1	971.1
17.5°	908.6	910.6	904.7	902.8	914.5	920.3	921.3	928.1	938.9	954.5	959.4
20°	888.1	890.1	884.2	882.3	894.0	900.8	901.8	907.6	920.3	936.9	941.8
22.5°	863.7	867.6	860.8	858.8	870.6	876.4	879.3	884.2	896.9	913.5	920.3
25°	838.3	838.3	833.5	832.5	843.2	850.1	849.1	855.9	868.6	885.2	891.0
27.5°	805.2	804.2	799.3	798.3	810.0	815.9	813.9	820.8	832.5	849.1	854.9
30°	761.2	763.2	756.4	754.4	764.2	773.9	773.0	779.8	791.5	807.1	811.0
32.5°	708.5	710.5	709.5	706.6	715.4	720.3	723.2	728.1	737.8	754.4	758.3
35°	658.8	655.8	651.9	651.9	660.7	668.5	665.6	671.5	681.2	697.8	698.8
37.5°	597.3	596.3	594.4	592.4	602.2	604.1	605.1	609.0	617.8	631.4	629.5
40°	532.9	533.8	532.9	529.0	534.8	542.6	541.7	543.6	551.4	561.2	558.2
42.5°	472.4	472.4	472.4	468.5	475.3	479.2	481.1	480.2	482.1	490.9	487.0
45°	414.8	415.8	414.8	413.8	414.8	416.7	414.8	413.8	413.8	416.7	410.9
47.5°	365.0	365.0	362.1	359.2	362.1	363.1	360.1	357.2	356.2	355.2	345.5
50°	320.1	319.1	318.2	313.3	316.2	317.2	313.3	311.3	307.4	302.5	290.8
52.5°	281.1	280.1	279.1	274.2	276.2	277.2	273.3	269.4	264.5	260.6	245.9
55°	247.9	246.9	246.9	244.0	242.0	244.0	240.1	237.2	230.3	225.4	210.8
57.5°	219.6	219.6	217.6	214.7	215.7	215.7	211.8	207.9	202.0	196.2	184.5
60°	195.2	195.2	195.2	192.3	192.3	192.3	190.3	186.4	181.5	175.7	164.0
62.5°	175.7	175.7	174.7	171.8	172.7	172.7	170.8	166.9	162.0	158.1	146.4
65°	160.1	160.1	160.1	157.1	157.1	158.1	156.2	152.2	148.3	143.5	132.7
67.5°	140.5	139.6	139.6	137.6	138.6	139.6	137.6	134.7	129.8	126.9	117.1
70°	116.1	117.1	118.1	115.2	116.1	116.1	115.2	112.2	109.3	106.4	97.6
72.5°	94.7	94.7	93.7	92.7	92.7	93.7	91.7	88.8	86.9	84.9	78.1
75°	72.2	71.2	72.2	70.3	70.3	70.3	68.3	67.3	66.4	63.4	58.6
77.5°	52.7	51.7	51.7	49.8	50.7	50.7	49.8	47.8	45.9	44.9	41.0
80°	36.1	36.1	36.1	35.1	35.1	34.2	34.2	33.2	31.2	30.3	28.3
82.5°	24.4	24.4	24.4	23.4	23.4	23.4	22.4	21.5	20.5	19.5	17.6
85°	15.6	15.6	15.6	14.6	14.6	14.6	13.7	13.7	12.7	11.7	9.8
87.5°	8.8	8.8	8.8	7.8	7.8	7.8	7.8	7.8	6.8	5.9	4.9
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°	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8
2.5°	1016.9	1003.3	1012.1	1012.1	1009.1	1016.9	1021.8	1025.7	1024.8	1016.0	1015.0
5°	1009.1	997.4	1007.2	1008.2	1005.2	1016.0	1022.8	1027.7	1028.7	1020.8	1021.8
7.5°	1003.3	993.5	1006.2	1010.1	1009.1	1018.9	1026.7	1034.5	1038.4	1032.6	1033.5
10°	1000.4	992.5	1006.2	1012.1	1013.0	1023.8	1035.5	1046.2	1051.1	1047.2	1050.1
12.5°	996.5	991.6	1007.2	1016.0	1019.9	1030.6	1045.2	1057.9	1065.7	1063.8	1069.6
15°	992.5	988.6	1007.2	1019.9	1024.8	1034.5	1051.1	1069.6	1078.4	1077.5	1085.3
17.5°	982.8	981.8	1001.3	1015.0	1021.8	1033.5	1049.2	1071.6	1080.4	1082.3	1092.1
20°	967.2	967.2	988.6	1003.3	1011.1	1021.8	1041.3	1062.8	1073.6	1075.5	1086.2
22.5°	945.7	947.7	968.1	982.8	994.5	1002.3	1022.8	1045.2	1055.0	1057.9	1069.6
25°	917.4	919.3	938.9	953.5	966.2	975.0	994.5	1015.0	1026.7	1029.6	1038.4
27.5°	880.3	884.2	902.8	917.4	928.1	934.0	954.5	976.0	984.7	987.7	996.5
30°	837.4	838.3	856.9	869.6	880.3	885.2	902.8	925.2	932.0	935.0	947.7
32.5°	784.7	783.7	801.3	813.0	821.8	827.6	846.2	860.8	867.6	872.5	879.3
35°	721.2	720.3	732.9	746.6	753.4	755.4	773.9	789.5	793.5	797.4	806.1
37.5°	650.0	650.0	660.7	667.6	675.4	678.3	687.1	704.6	711.5	710.5	717.3
40°	574.8	570.9	578.7	585.6	587.5	588.5	597.3	610.9	615.8	615.8	620.7
42.5°	495.8	489.9	490.9	494.8	496.8	489.9	495.8	504.6	501.6	505.5	506.5
45°	411.9	403.1	399.2	390.4	392.3	385.5	381.6	383.6	382.6	372.8	374.8
47.5°	343.5	327.9	321.1	308.4	305.5	297.7	292.8	284.0	276.2	276.2	271.3
50°	286.0	270.3	256.7	242.0	237.2	230.3	219.6	207.9	202.0	196.2	191.3
52.5°	240.1	223.5	206.9	191.3	184.5	175.7	161.0	149.3	138.6	132.7	126.9
55°	203.0	184.5	166.9	150.3	141.5	132.7	118.1	104.4	91.7	83.9	79.1
57.5°	174.7	157.1	138.6	121.0	113.2	103.5	87.8	73.2	61.5	52.7	47.8
60°	154.2	136.6	120.0	101.5	93.7	83.9	67.3	53.7	42.0	34.2	28.3
62.5°	136.6	121.0	103.5	86.9	79.1	69.3	53.7	40.0	29.3	21.5	16.6
65°	123.9	108.3	93.7	77.1	70.3	60.5	45.9	33.2	23.4	16.6	11.7
67.5°	109.3	95.6	81.0	67.3	60.5	52.7	39.0	28.3	19.5	13.7	9.8
70°	91.7	81.0	68.3	55.6	50.7	43.9	32.2	23.4	15.6	10.7	7.8
72.5°	73.2	64.4	54.7	44.9	41.0	34.2	26.4	18.5	11.7	7.8	5.9
75°	55.6	48.8	41.0	34.2	30.3	26.4	19.5	13.7	8.8	5.9	3.9
77.5°	38.1	35.1	29.3	23.4	21.5	18.5	12.7	8.8	5.9	3.9	2.0
80°	26.4	23.4	19.5	15.6	13.7	11.7	7.8	5.9	2.9	2.0	1.0
82.5°	16.6	13.7	11.7	9.8	8.8	6.8	4.9	2.9	2.0	1.0	1.0
85°	8.8	7.8	6.8	4.9	4.9	3.9	2.9	2.0	1.0	0.0	0.0
87.5°	4.9	3.9	2.9	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°	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8
2.5°	1026.7	1026.7	1025.7	1037.4	1023.8	1037.4	1030.6	1037.4	1027.7	1026.7	1027.7
5°	1034.5	1037.4	1038.4	1049.2	1036.5	1053.1	1047.2	1053.1	1046.2	1048.2	1051.1
7.5°	1050.1	1055.0	1054.0	1067.7	1055.0	1073.6	1069.6	1078.4	1071.6	1073.6	1077.5
10°	1067.7	1073.6	1074.5	1088.2	1076.5	1098.9	1094.0	1103.8	1097.9	1100.9	1105.8
12.5°	1088.2	1095.0	1096.0	1111.6	1098.9	1122.3	1119.4	1129.2	1124.3	1127.2	1133.1
15°	1103.8	1113.6	1115.5	1131.1	1117.5	1141.9	1139.9	1152.6	1144.8	1149.7	1154.6
17.5°	1111.6	1120.4	1124.3	1138.9	1127.2	1151.6	1149.7	1160.4	1154.6	1159.4	1165.3
20°	1106.7	1117.5	1120.4	1135.0	1123.3	1147.7	1144.8	1155.5	1149.7	1153.6	1159.4
22.5°	1089.2	1099.9	1103.8	1117.5	1106.7	1129.2	1128.2	1138.0	1130.2	1135.0	1139.9
25°	1057.9	1069.6	1071.6	1084.3	1072.6	1096.0	1094.0	1104.8	1098.9	1101.9	1108.7
27.5°	1013.0	1026.7	1029.6	1040.4	1031.6	1051.1	1051.1	1059.9	1053.1	1053.1	1059.9
30°	959.4	973.0	975.0	983.8	976.0	993.5	994.5	1003.3	992.5	998.4	999.4
32.5°	894.0	902.8	908.6	916.4	904.7	927.2	924.2	931.1	925.2	925.2	930.1
35°	814.9	825.7	828.6	838.3	828.6	846.2	846.2	850.1	844.2	844.2	852.0
37.5°	729.0	736.8	737.8	747.6	739.8	754.4	753.4	756.4	750.5	754.4	754.4
40°	628.5	634.4	636.3	641.2	640.2	651.0	650.0	651.9	649.0	650.0	651.9
42.5°	511.4	519.2	523.1	527.0	521.2	535.8	532.9	535.8	534.8	535.8	538.7
45°	376.7	382.6	385.5	386.5	384.5	393.3	400.1	394.3	395.3	393.3	397.2
47.5°	272.3	273.3	271.3	277.2	272.3	276.2	278.1	279.1	273.3	272.3	276.2
50°	186.4	191.3	184.5	187.4	186.4	190.3	188.4	189.3	183.5	186.4	184.5
52.5°	123.9	123.0	121.0	122.0	120.0	120.0	120.0	122.0	118.1	116.1	114.2
55°	75.1	73.2	69.3	68.3	68.3	69.3	67.3	65.4	65.4	64.4	64.4
57.5°	43.9	41.0	39.0	38.1	36.1	35.1	34.2	34.2	32.2	32.2	32.2
60°	24.4	21.5	19.5	17.6	17.6	16.6	15.6	14.6	14.6	14.6	13.7
62.5°	12.7	10.7	8.8	7.8	7.8	6.8	5.9	5.9	5.9	5.9	4.9
65°	8.8	6.8	5.9	4.9	4.9	3.9	3.9	3.9	3.9	3.9	3.9
67.5°	6.8	5.9	4.9	3.9	3.9	3.9	2.9	2.9	2.9	2.9	2.9
70°	5.9	3.9	3.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
72.5°	3.9	3.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
75°	2.9	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: P252142

CATALOG NUMBER: LD6B15D010 EU6B10208030 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8	1020.8
2.5°	1036.5	1035.5	1036.5	1038.4	1034.5	1046.2	1040.4	1046.2
5°	1058.9	1059.9	1060.9	1063.8	1058.9	1073.6	1065.7	1074.5
7.5°	1088.2	1089.2	1090.1	1093.1	1090.1	1104.8	1096.0	1103.8
10°	1118.4	1120.4	1120.4	1125.3	1122.3	1136.0	1130.2	1139.9
12.5°	1146.7	1148.7	1150.7	1153.6	1151.6	1166.3	1161.4	1169.2
15°	1169.2	1173.1	1174.1	1178.0	1176.0	1191.6	1185.8	1193.6
17.5°	1179.9	1183.8	1183.8	1188.7	1186.8	1203.4	1195.5	1204.3
20°	1174.1	1177.0	1178.0	1182.9	1180.9	1197.5	1189.7	1200.4
22.5°	1155.5	1156.5	1157.5	1162.4	1161.4	1176.0	1169.2	1176.0
25°	1121.4	1124.3	1123.3	1127.2	1127.2	1138.9	1131.1	1137.0
27.5°	1072.6	1075.5	1075.5	1080.4	1076.5	1088.2	1080.4	1089.2
30°	1013.0	1016.0	1014.0	1017.9	1014.0	1025.7	1019.9	1022.8
32.5°	941.8	941.8	942.8	943.7	941.8	952.5	946.7	952.5
35°	856.9	858.8	859.8	860.8	858.8	866.6	859.8	863.7
37.5°	761.2	766.1	765.1	766.1	763.2	773.0	767.1	769.1
40°	658.8	658.8	657.8	659.7	656.8	664.6	660.7	662.7
42.5°	539.7	542.6	538.7	543.6	535.8	546.5	542.6	539.7
45°	405.0	401.1	400.1	401.1	398.2	399.2	402.1	400.1
47.5°	276.2	276.2	274.2	271.3	275.2	276.2	272.3	272.3
50°	185.4	185.4	183.5	182.5	184.5	183.5	181.5	184.5
52.5°	118.1	114.2	114.2	116.1	114.2	112.2	115.2	113.2
55°	64.4	62.5	62.5	64.4	62.5	62.5	61.5	63.4
57.5°	31.2	32.2	31.2	31.2	31.2	31.2	30.3	31.2
60°	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7
62.5°	5.9	5.9	4.9	4.9	4.9	4.9	4.9	4.9
65°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
67.5°	2.9	2.9	2.9	2.9	2.9	3.9	2.9	2.9
70°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
72.5°	2.9	2.9	3.9	3.9	3.9	3.9	3.9	3.9
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)