

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: P252384

Luminaire Tested: **LD6B30D010 EU6B30509040 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252384
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 EU6B30509040 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2319.0 lumens
Efficiency: N/A
Efficacy: 82.8 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

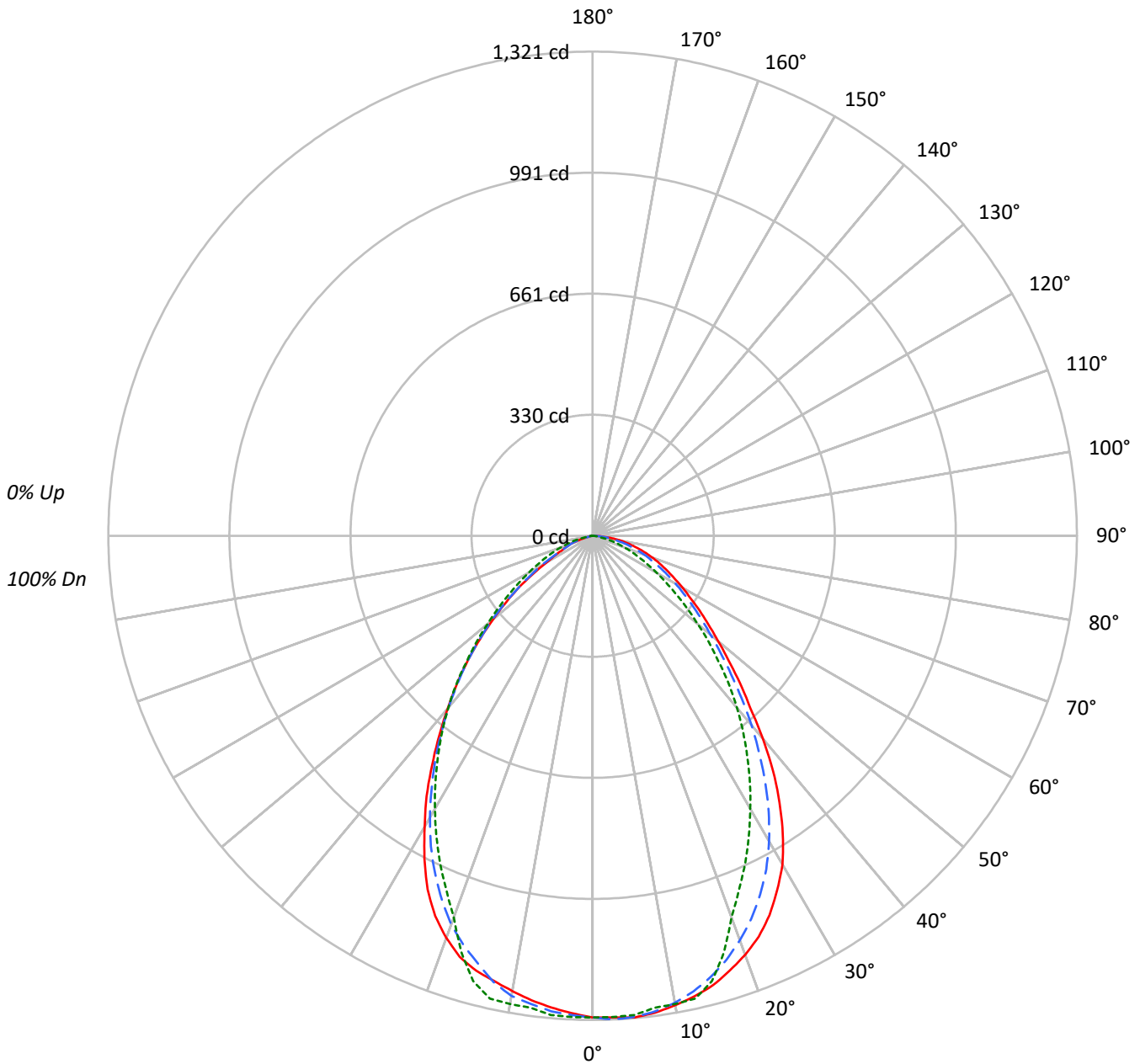
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54				54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48				48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44				44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	85726	85726	85726
5°	86388	85942	84600
10°	86141	85916	83544
15°	85751	84948	82982
20°	84473	76891	81036
25°	82178	70876	76650
30°	78030	64787	69036
35°	70812	58578	60753
40°	61473	52172	52317
45°	52425	44868	44398
50°	45379	37929	35849
55°	40561	31643	27753
60°	36965	26279	18698
65°	34502	21597	13955
70°	32885	17568	11712
75°	30979	12477	3882
80°	29493	6425	1277
85°	24253	3818	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.1	5.4
10°-20°	347.0	15.0
20°-30°	479.0	20.7
30°-40°	487.5	21.0
40°-50°	391.8	16.9
50°-60°	260.5	11.2
60°-70°	148.4	6.4
70°-80°	66.7	2.9
80°-90°	14.0	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°	950.1	41.0
0°-40°	1437.6	62.0
0°-60°	2089.8	90.1
0°-90°	2319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2319.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1314	1314	1314	1314	1314	
5°	1319	1317	1312	1302	1292	125
15°	1270	1246	1258	1208	1229	357
25°	1142	1080	985	1017	1065	523
35°	889	821	736	749	763	553
45°	568	534	486	481	481	441
55°	357	333	278	247	244	320
65°	224	200	140	90	90	223
75°	123	102	50	20	15	131
85°	32	22	5	2	0	38
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°	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0
2.5°	1315.7	1322.5	1320.8	1319.1	1320.8	1319.1	1315.7	1315.7	1312.3	1312.3	1320.8
5°	1319.1	1322.5	1320.8	1319.1	1319.1	1320.8	1314.0	1314.0	1310.6	1308.8	1317.4
7.5°	1312.3	1317.4	1314.0	1314.0	1312.3	1314.0	1307.1	1307.1	1302.0	1300.3	1308.8
10°	1300.3	1307.1	1303.7	1303.7	1303.7	1300.3	1296.9	1295.2	1290.1	1288.4	1293.5
12.5°	1286.7	1291.8	1290.1	1286.7	1286.7	1286.7	1279.8	1278.1	1271.3	1267.9	1273.0
15°	1269.6	1273.0	1271.3	1269.6	1266.2	1266.2	1259.4	1255.9	1249.1	1242.3	1245.7
17.5°	1244.0	1249.1	1245.7	1244.0	1238.9	1238.9	1232.1	1228.6	1218.4	1211.6	1213.3
20°	1216.7	1218.4	1216.7	1213.3	1208.2	1206.5	1199.6	1192.8	1184.3	1175.7	1174.0
22.5°	1184.3	1186.0	1180.9	1177.4	1172.3	1170.6	1162.1	1157.0	1143.3	1133.1	1131.4
25°	1141.6	1143.3	1143.3	1134.8	1131.4	1128.0	1119.4	1110.9	1099.0	1085.3	1080.2
27.5°	1090.4	1095.5	1092.1	1083.6	1076.8	1075.1	1066.5	1059.7	1044.3	1032.4	1025.6
30°	1035.8	1034.1	1032.4	1027.3	1017.0	1015.3	1006.8	998.3	986.3	971.0	962.4
32.5°	965.8	965.8	964.1	959.0	948.8	945.4	938.5	928.3	914.7	902.7	894.2
35°	889.1	890.8	889.1	878.8	872.0	868.6	865.2	853.2	841.3	827.6	820.8
37.5°	808.9	803.7	805.4	796.9	788.4	791.8	781.6	776.4	762.8	752.5	745.7
40°	721.8	725.2	718.4	715.0	709.9	704.8	704.8	696.2	689.4	677.5	674.0
42.5°	636.5	641.6	639.9	636.5	629.7	631.4	622.9	619.4	610.9	605.8	600.7
45°	568.2	568.2	568.2	564.8	563.1	559.7	554.6	549.5	544.4	537.5	534.1
47.5°	501.7	501.7	503.4	500.0	496.6	494.9	491.5	491.5	482.9	476.1	472.7
50°	447.1	447.1	447.1	443.7	440.3	440.3	436.9	433.4	428.3	423.2	419.8
52.5°	397.6	397.6	397.6	394.2	392.5	390.8	389.1	387.4	380.5	377.1	373.7
55°	356.6	354.9	354.9	353.2	349.8	349.8	348.1	344.7	339.6	334.5	332.8
57.5°	315.7	317.4	315.7	315.7	312.3	312.3	308.9	307.2	302.0	298.6	295.2
60°	283.3	283.3	283.3	281.6	278.2	279.9	276.4	274.7	269.6	264.5	261.1
62.5°	250.8	252.6	252.6	250.8	247.4	247.4	245.7	244.0	238.9	233.8	228.7
65°	223.5	223.5	223.5	221.8	220.1	220.1	218.4	216.7	211.6	204.8	199.7
67.5°	197.9	196.2	196.2	196.2	194.5	192.8	191.1	189.4	184.3	179.2	172.4
70°	172.4	172.4	172.4	170.6	167.2	168.9	167.2	165.5	160.4	155.3	150.2
72.5°	148.5	148.5	146.8	145.0	145.0	143.3	143.3	141.6	136.5	129.7	124.6
75°	122.9	122.9	122.9	122.9	119.5	121.2	117.7	116.0	112.6	107.5	102.4
77.5°	100.7	100.7	100.7	99.0	97.3	97.3	95.6	93.9	88.7	85.3	78.5
80°	78.5	78.5	78.5	78.5	76.8	75.1	73.4	71.7	68.3	63.1	58.0
82.5°	58.0	58.0	56.3	56.3	56.3	54.6	52.9	51.2	47.8	44.4	41.0
85°	32.4	34.1	34.1	30.7	32.4	30.7	30.7	27.3	27.3	23.9	22.2
87.5°	11.9	10.2	10.2	10.2	10.2	10.2	10.2	8.5	8.5	8.5	6.8
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°	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0
2.5°	1314.0	1312.3	1319.1	1319.1	1308.8	1314.0	1315.7	1312.3	1312.3	1314.0	1308.8
5°	1310.6	1307.1	1314.0	1315.7	1305.4	1310.6	1312.3	1308.8	1310.6	1312.3	1305.4
7.5°	1298.6	1298.6	1303.7	1305.4	1295.2	1300.3	1300.3	1296.9	1298.6	1298.6	1293.5
10°	1286.7	1281.5	1286.7	1286.7	1278.1	1279.8	1283.2	1281.5	1288.4	1296.9	1296.9
12.5°	1264.5	1259.4	1267.9	1267.9	1262.8	1269.6	1278.1	1283.2	1290.1	1293.5	1283.2
15°	1237.2	1238.9	1254.2	1266.2	1261.1	1271.3	1279.8	1276.4	1267.9	1257.7	1242.3
17.5°	1201.3	1196.2	1209.9	1216.7	1209.9	1213.3	1220.1	1213.3	1199.6	1191.1	1170.6
20°	1160.4	1146.7	1146.7	1143.3	1131.4	1131.4	1129.7	1117.7	1112.6	1107.5	1099.0
22.5°	1114.3	1099.0	1093.8	1083.6	1073.4	1071.6	1066.5	1054.6	1047.8	1044.3	1034.1
25°	1061.4	1047.8	1039.2	1029.0	1013.6	1010.2	1005.1	993.2	989.7	984.6	976.1
27.5°	1006.8	989.7	977.8	967.6	953.9	952.2	942.0	933.4	926.6	923.2	916.4
30°	943.7	924.9	916.4	902.7	892.5	889.1	880.5	868.6	863.5	860.0	854.9
32.5°	873.7	858.3	849.8	837.9	824.2	825.9	815.7	805.4	802.0	798.6	793.5
35°	805.4	790.1	779.8	769.6	761.1	757.7	750.8	742.3	737.2	735.5	732.1
37.5°	730.4	718.4	709.9	699.6	692.8	689.4	686.0	677.5	674.0	674.0	667.2
40°	657.0	646.7	639.9	634.8	626.3	624.6	621.1	616.0	614.3	612.6	607.5
42.5°	590.4	576.8	571.7	568.2	563.1	559.7	558.0	554.6	552.9	551.2	546.1
45°	527.3	515.3	510.2	506.8	501.7	500.0	498.3	493.2	489.8	486.3	484.6
47.5°	465.9	457.3	455.6	447.1	443.7	440.3	436.9	433.4	431.7	430.0	423.2
50°	413.0	407.8	399.3	394.2	390.8	389.1	382.2	377.1	375.4	373.7	368.6
52.5°	365.2	358.4	353.2	344.7	343.0	339.6	336.2	329.3	325.9	324.2	319.1
55°	322.5	317.4	310.6	303.7	298.6	296.9	291.8	285.0	281.6	278.2	274.7
57.5°	286.7	278.2	271.3	264.5	261.1	256.0	250.8	247.4	242.3	237.2	232.1
60°	252.6	245.7	237.2	230.4	227.0	223.5	216.7	211.6	206.5	201.4	196.2
62.5°	220.1	213.3	204.8	197.9	194.5	191.1	184.3	179.2	174.1	168.9	162.1
65°	191.1	184.3	177.5	170.6	167.2	163.8	157.0	150.2	145.0	139.9	133.1
67.5°	167.2	158.7	151.9	145.0	141.6	138.2	131.4	126.3	119.5	114.3	107.5
70°	141.6	134.8	129.7	122.9	119.5	116.0	109.2	102.4	97.3	92.1	85.3
72.5°	119.5	110.9	105.8	99.0	95.6	93.9	87.0	81.9	76.8	70.0	64.8
75°	95.6	88.7	81.9	76.8	73.4	71.7	64.8	59.7	54.6	49.5	44.4
77.5°	73.4	68.3	61.4	56.3	52.9	51.2	44.4	39.2	34.1	30.7	25.6
80°	54.6	47.8	44.4	39.2	37.5	34.1	30.7	25.6	22.2	17.1	13.7
82.5°	37.5	32.4	29.0	25.6	23.9	22.2	18.8	15.4	11.9	10.2	8.5
85°	20.5	17.1	15.4	13.7	11.9	11.9	10.2	8.5	6.8	5.1	3.4
87.5°	6.8	5.1	5.1	5.1	5.1	3.4	3.4	3.4	1.7	1.7	1.7
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°	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0
2.5°	1312.3	1312.3	1312.3	1310.6	1310.6	1310.6	1308.8	1315.7	1308.8	1307.1	1312.3
5°	1310.6	1307.1	1307.1	1307.1	1307.1	1305.4	1303.7	1307.1	1302.0	1300.3	1300.3
7.5°	1300.3	1298.6	1298.6	1296.9	1295.2	1293.5	1291.8	1293.5	1288.4	1286.7	1286.7
10°	1302.0	1298.6	1298.6	1293.5	1290.1	1285.0	1279.8	1281.5	1274.7	1269.6	1269.6
12.5°	1281.5	1273.0	1267.9	1262.8	1259.4	1257.7	1250.8	1254.2	1247.4	1245.7	1245.7
15°	1235.5	1225.2	1216.7	1213.3	1213.3	1209.9	1204.8	1211.6	1208.2	1209.9	1218.4
17.5°	1163.8	1158.7	1153.6	1151.9	1153.6	1157.0	1160.4	1170.6	1170.6	1175.7	1184.3
20°	1100.7	1097.2	1100.7	1100.7	1102.4	1109.2	1116.0	1124.5	1128.0	1133.1	1145.0
22.5°	1039.2	1039.2	1042.6	1047.8	1046.1	1058.0	1059.7	1075.1	1075.1	1085.3	1095.5
25°	979.5	979.5	982.9	984.6	988.0	994.9	1001.7	1013.6	1017.0	1027.3	1035.8
27.5°	921.5	919.8	919.8	921.5	924.9	933.4	936.8	950.5	955.6	962.4	971.0
30°	856.6	854.9	858.3	861.8	860.0	868.6	873.7	883.9	887.4	894.2	901.0
32.5°	795.2	795.2	795.2	798.6	798.6	805.4	805.4	817.4	817.4	822.5	829.3
35°	732.1	732.1	733.8	735.5	737.2	738.9	740.6	747.4	749.1	750.8	754.2
37.5°	672.3	670.6	672.3	672.3	668.9	675.8	675.8	682.6	677.5	682.6	684.3
40°	610.9	610.9	609.2	609.2	609.2	612.6	609.2	614.3	610.9	614.3	612.6
42.5°	547.8	547.8	544.4	547.8	546.1	546.1	546.1	549.5	544.4	547.8	549.5
45°	484.6	482.9	482.9	481.2	481.2	481.2	482.9	482.9	481.2	484.6	484.6
47.5°	423.2	421.5	421.5	421.5	421.5	423.2	418.1	421.5	418.1	418.1	418.1
50°	370.3	368.6	366.9	365.2	363.5	363.5	361.8	361.8	358.4	356.6	354.9
52.5°	319.1	317.4	314.0	314.0	312.3	310.6	305.5	305.5	300.3	298.6	298.6
55°	273.0	267.9	266.2	262.8	262.8	259.4	256.0	252.6	247.4	244.0	244.0
57.5°	230.4	225.3	221.8	220.1	218.4	215.0	208.2	206.5	199.7	197.9	196.2
60°	192.8	187.7	182.6	179.2	177.5	172.4	165.5	162.1	158.7	153.6	148.5
62.5°	157.0	151.9	145.0	143.3	139.9	134.8	129.7	124.6	121.2	116.0	112.6
65°	126.3	121.2	116.0	112.6	109.2	104.1	99.0	93.9	90.4	88.7	87.0
67.5°	102.4	95.6	90.4	88.7	85.3	81.9	76.8	75.1	71.7	71.7	71.7
70°	80.2	75.1	70.0	68.3	66.6	63.1	59.7	59.7	59.7	59.7	59.7
72.5°	59.7	56.3	51.2	49.5	47.8	46.1	42.7	44.4	42.7	42.7	42.7
75°	37.5	34.1	30.7	29.0	27.3	25.6	23.9	22.2	20.5	18.8	18.8
77.5°	20.5	17.1	15.4	13.7	13.7	11.9	10.2	10.2	8.5	8.5	8.5
80°	11.9	10.2	8.5	6.8	6.8	5.1	5.1	5.1	5.1	3.4	3.4
82.5°	6.8	5.1	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7
85°	3.4	3.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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: P252384

CATALOG NUMBER: LD6B30D010 EU6B30509040 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0	1314.0
2.5°	1303.7	1308.8	1303.7	1308.8	1308.8	1308.8	1308.8	1303.7
5°	1295.2	1298.6	1293.5	1296.9	1298.6	1296.9	1296.9	1291.8
7.5°	1279.8	1283.2	1278.1	1283.2	1285.0	1283.2	1281.5	1278.1
10°	1264.5	1266.2	1261.1	1264.5	1267.9	1267.9	1266.2	1261.1
12.5°	1240.6	1245.7	1240.6	1244.0	1247.4	1249.1	1249.1	1244.0
15°	1213.3	1221.8	1218.4	1223.5	1228.6	1230.3	1230.3	1228.6
17.5°	1186.0	1194.5	1189.4	1197.9	1203.0	1206.5	1208.2	1204.8
20°	1146.7	1157.0	1153.6	1160.4	1167.2	1172.3	1172.3	1167.2
22.5°	1095.5	1109.2	1107.5	1112.6	1121.1	1122.8	1126.3	1122.8
25°	1039.2	1049.5	1047.8	1052.9	1063.1	1063.1	1064.8	1064.8
27.5°	974.4	984.6	982.9	986.3	993.2	994.9	996.6	993.2
30°	904.4	909.5	909.5	914.7	919.8	921.5	921.5	916.4
32.5°	827.6	834.5	837.9	836.2	841.3	844.7	843.0	843.0
35°	757.7	759.4	761.1	762.8	764.5	767.9	764.5	762.8
37.5°	682.6	687.7	684.3	687.7	691.1	689.4	687.7	687.7
40°	614.3	616.0	612.6	616.0	617.7	617.7	617.7	614.3
42.5°	546.1	549.5	546.1	549.5	549.5	549.5	549.5	547.8
45°	477.8	481.2	481.2	482.9	482.9	481.2	481.2	481.2
47.5°	414.7	418.1	414.7	418.1	419.8	416.4	416.4	416.4
50°	354.9	353.2	353.2	354.9	354.9	354.9	354.9	353.2
52.5°	293.5	295.2	295.2	295.2	296.9	295.2	296.9	296.9
55°	240.6	240.6	240.6	242.3	240.6	240.6	242.3	244.0
57.5°	192.8	191.1	189.4	189.4	191.1	189.4	189.4	189.4
60°	148.5	146.8	145.0	145.0	145.0	145.0	145.0	143.3
62.5°	110.9	110.9	110.9	112.6	112.6	112.6	112.6	114.3
65°	88.7	88.7	88.7	88.7	88.7	88.7	88.7	90.4
67.5°	71.7	71.7	71.7	73.4	73.4	73.4	73.4	73.4
70°	59.7	59.7	61.4	59.7	61.4	61.4	61.4	61.4
72.5°	41.0	41.0	41.0	41.0	41.0	39.2	41.0	39.2
75°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	15.4
77.5°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
80°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	1.7	1.7	1.7	1.7	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)