

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: P212820

Luminaire Tested: **LD6B30D010 EU6B30509727 6LBSWLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P212820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30509727 6LBSWL1
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2016.5 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

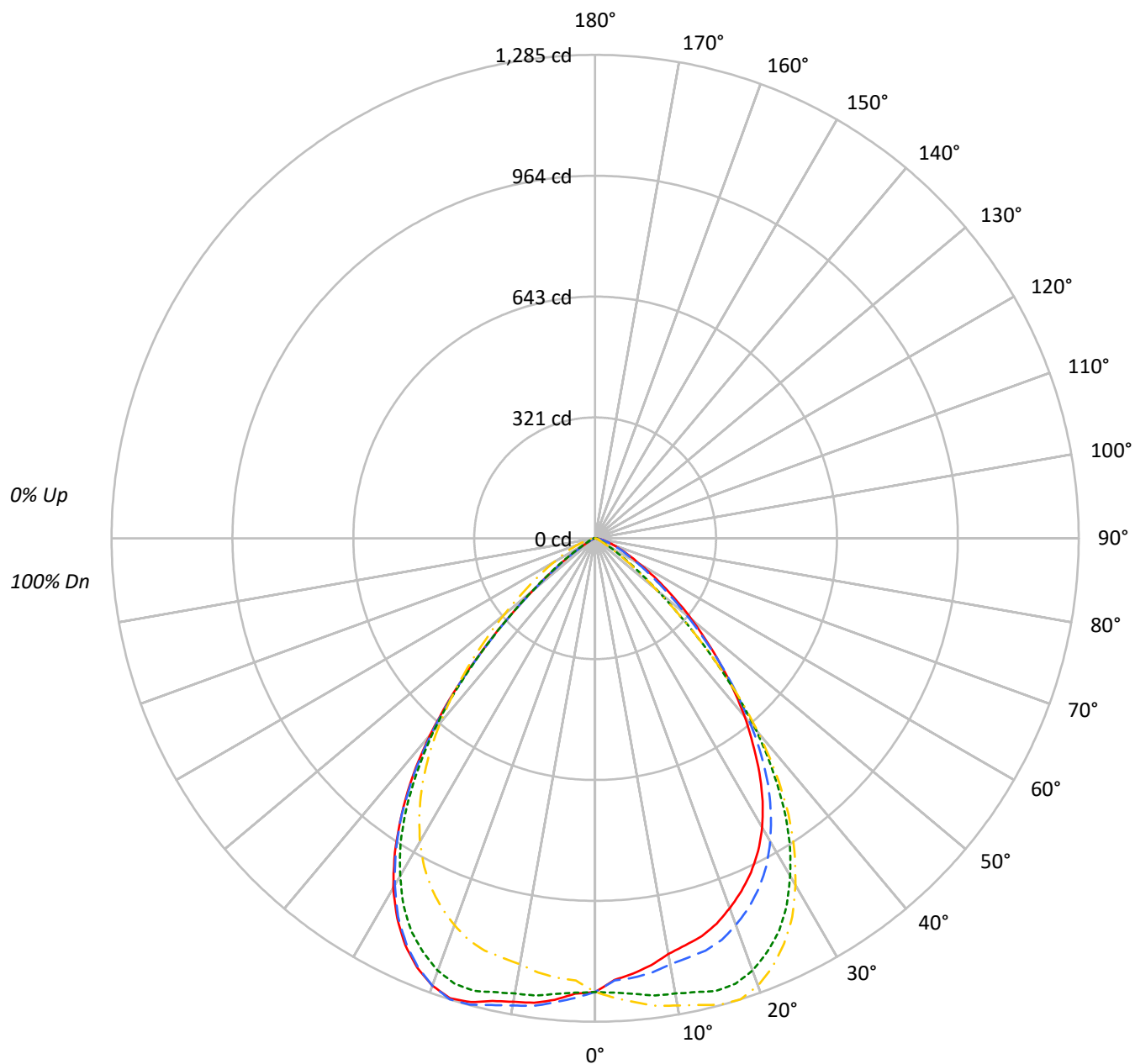
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	109	106	103	110	107	104	102	103	100	99		99	97	96		95
2	105	99	94	90	103	97	93	89	94	90	87		91	88	85		88
3	98	91	84	80	96	89	84	79	86	82	78		84	80	76		81
4	92	83	76	71	90	82	75	71	79	74	70		77	73	69		75
5	86	76	69	64	84	75	68	63	73	67	63		71	66	62		70
6	81	70	63	57	79	69	62	57	67	61	57		66	60	56		64
7	76	64	57	52	74	64	57	52	62	56	52		61	56	51		60
8	71	60	53	48	70	59	52	48	58	52	47		57	51	47		56
9	67	55	48	44	66	55	48	44	54	48	43		53	47	43		52
10	63	52	45	40	62	51	45	40	50	44	40		49	44	40		49

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	66119	66119	66119	66119
5°	63900	66910	67763	66910
10°	62452	68391	69638	68391
15°	62157	70681	72435	70681
20°	61022	71348	73804	71348
25°	59278	69815	72192	69815
30°	56173	65592	67903	65592
35°	50928	58444	60043	58444
40°	44211	47625	48834	47625
45°	36252	32872	33089	32872
50°	28502	18439	18080	18439
55°	21065	9128	8181	9128
60°	14933	4002	2927	4002
65°	11104	2555	1816	2555
70°	8094	2020	1346	2020
75°	5952	1483	890	1483
80°	3978	1326	442	1326
85°	2642	881	881	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	5.7
10°-20°	342.0	17.0
20°-30°	510.3	25.3
30°-40°	524.3	26.0
40°-50°	339.5	16.8
50°-60°	126.2	6.3
60°-70°	41.4	2.1
70°-80°	14.6	0.7
80°-90°	2.6	0.1
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°	967.8	48.0
0°-40°	1492.1	74.0
0°-60°	1957.8	97.1
0°-90°	2016.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2016.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1206	1206	1206	1206	1206	
5°	1161	1216	1231	1216	1161	110
15°	1095	1245	1276	1245	1095	308
25°	980	1154	1194	1154	980	449
35°	761	873	897	873	761	473
45°	468	424	427	424	468	362
55°	220	96	86	96	220	201
65°	86	20	14	20	86	87
75°	28	7	4	7	28	31
85°	4	1	1	1	4	6
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°	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1
2.5°	1175.2	1192.1	1180.8	1187.8	1176.6	1176.6	1199.1	1186.4	1196.3	1186.4	1176.6
5°	1161.2	1182.2	1168.2	1175.2	1165.4	1166.8	1187.8	1178.0	1187.8	1180.8	1172.4
7.5°	1144.3	1165.4	1152.7	1159.8	1149.9	1152.7	1175.2	1165.4	1176.6	1169.6	1164.0
10°	1121.9	1144.3	1133.1	1140.1	1131.7	1133.1	1155.6	1148.5	1158.4	1154.2	1149.9
12.5°	1107.8	1128.9	1116.2	1123.3	1117.6	1120.5	1141.5	1135.9	1148.5	1144.3	1141.5
15°	1095.2	1114.8	1103.6	1110.6	1106.4	1107.8	1130.3	1124.7	1138.7	1135.9	1134.5
17.5°	1074.1	1095.2	1082.5	1091.0	1086.8	1088.2	1110.6	1106.4	1120.5	1120.5	1119.0
20°	1046.0	1067.1	1057.3	1062.9	1060.1	1062.9	1082.5	1079.7	1093.8	1093.8	1093.8
22.5°	1015.1	1036.2	1025.0	1030.6	1027.8	1032.0	1050.2	1050.2	1061.5	1062.9	1064.3
25°	980.0	1001.1	989.9	996.9	994.1	996.9	1013.7	1015.1	1025.0	1025.0	1027.8
27.5°	937.9	959.0	947.8	953.4	952.0	953.4	971.6	974.4	980.0	981.5	984.3
30°	887.4	907.0	895.8	901.4	901.4	901.4	919.7	921.1	926.7	928.1	930.9
32.5°	828.4	845.3	836.8	842.4	841.0	843.9	856.5	862.1	869.1	867.7	869.1
35°	761.0	779.3	770.8	775.1	776.5	780.7	789.1	796.1	797.5	798.9	801.7
37.5°	688.0	706.3	697.8	702.0	703.4	711.9	714.7	721.7	724.5	724.5	724.5
40°	617.8	626.2	619.2	623.4	624.8	631.8	634.6	640.3	643.1	641.7	640.3
42.5°	542.0	549.0	542.0	546.2	546.2	551.8	553.2	560.2	560.2	557.4	553.2
45°	467.6	474.6	467.6	470.4	470.4	476.0	476.0	476.0	478.8	474.6	467.6
47.5°	397.4	404.4	397.4	400.2	398.8	403.0	401.6	403.0	398.8	395.9	387.5
50°	334.2	337.0	334.2	332.8	334.2	337.0	335.6	335.6	330.0	325.7	315.9
52.5°	272.4	276.6	272.4	272.4	272.4	275.2	275.2	273.8	268.2	262.6	252.7
55°	220.4	223.2	221.8	220.4	220.4	223.2	220.4	220.4	214.8	210.6	200.8
57.5°	175.5	176.9	175.5	175.5	175.5	176.9	176.9	174.1	169.9	165.7	158.7
60°	136.2	137.6	137.6	136.2	136.2	139.0	139.0	137.6	133.4	130.6	123.6
62.5°	108.1	108.1	108.1	108.1	108.1	109.5	109.5	109.5	106.7	103.9	98.3
65°	85.6	87.1	85.6	85.6	87.1	88.5	87.1	88.5	85.6	84.2	80.0
67.5°	66.0	67.4	66.0	67.4	67.4	68.8	67.4	68.8	66.0	64.6	61.8
70°	50.5	50.5	50.5	50.5	50.5	52.0	50.5	52.0	50.5	49.1	46.3
72.5°	37.9	37.9	39.3	39.3	37.9	39.3	37.9	37.9	37.9	36.5	35.1
75°	28.1	28.1	29.5	28.1	28.1	28.1	28.1	28.1	26.7	26.7	25.3
77.5°	19.7	19.7	19.7	19.7	19.7	19.7	19.7	19.7	18.3	18.3	16.8
80°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	11.2	11.2
82.5°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	7.0	7.0
85°	4.2	4.2	4.2	5.6	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	1.4	1.4	1.4	2.8	1.4	1.4	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1
2.5°	1187.8	1192.1	1192.1	1187.8	1197.7	1189.3	1206.1	1190.7	1194.9	1208.9	1207.5
5°	1183.6	1189.3	1190.7	1187.8	1200.5	1193.5	1210.3	1194.9	1201.9	1215.9	1215.9
7.5°	1178.0	1185.0	1187.8	1190.7	1201.9	1194.9	1214.5	1199.1	1208.9	1225.8	1224.4
10°	1165.4	1175.2	1180.8	1185.0	1196.3	1192.1	1213.1	1200.5	1208.9	1228.6	1227.2
12.5°	1158.4	1169.6	1178.0	1185.0	1197.7	1194.9	1215.9	1204.7	1215.9	1235.6	1235.6
15°	1152.7	1165.4	1175.2	1187.8	1200.5	1197.7	1220.1	1210.3	1221.5	1245.4	1244.0
17.5°	1138.7	1154.2	1164.0	1178.0	1190.7	1189.3	1213.1	1206.1	1218.7	1241.2	1242.6
20°	1114.8	1128.9	1140.1	1157.0	1171.0	1168.2	1193.5	1186.4	1199.1	1223.0	1224.4
22.5°	1083.9	1098.0	1109.2	1127.5	1140.1	1138.7	1164.0	1157.0	1169.6	1192.1	1193.5
25°	1047.4	1060.1	1071.3	1088.2	1102.2	1102.2	1124.7	1117.6	1131.7	1154.2	1154.2
27.5°	1002.5	1013.7	1023.6	1043.2	1054.5	1054.5	1075.5	1068.5	1082.5	1102.2	1100.8
30°	947.8	957.6	966.0	982.9	992.7	994.1	1012.3	1005.3	1019.4	1036.2	1036.2
32.5°	881.8	891.6	897.2	918.3	925.3	923.9	937.9	930.9	944.9	963.2	959.0
35°	811.6	815.8	820.0	841.0	843.9	838.2	852.3	845.3	855.1	873.3	870.5
37.5°	731.5	732.9	732.9	751.2	752.6	748.4	756.8	748.4	755.4	772.2	770.8
40°	643.1	641.7	640.3	654.3	652.9	644.5	650.1	643.1	652.9	665.5	658.5
42.5°	553.2	549.0	543.4	550.4	544.8	537.8	540.6	529.3	536.4	546.2	537.8
45°	464.7	456.3	445.1	446.5	439.5	431.1	426.8	415.6	414.2	424.0	417.0
47.5°	381.9	365.1	355.2	349.6	338.4	331.4	322.9	310.3	304.7	310.3	303.3
50°	307.5	290.6	278.0	265.4	254.1	245.7	231.7	223.2	214.8	216.2	210.6
52.5°	242.9	231.7	210.6	200.8	189.6	179.7	167.1	157.3	147.4	147.4	141.8
55°	192.4	176.9	162.9	148.8	137.6	129.2	116.5	106.7	96.9	95.5	89.9
57.5°	148.8	137.6	122.2	108.1	101.1	92.7	80.0	68.8	63.2	59.0	54.8
60°	115.1	103.9	91.3	80.0	71.6	66.0	53.4	44.9	39.3	36.5	32.3
62.5°	92.7	82.8	71.6	60.4	54.8	49.1	39.3	32.3	26.7	23.9	21.1
65°	74.4	66.0	57.6	49.1	44.9	39.3	32.3	26.7	22.5	19.7	16.8
67.5°	57.6	52.0	44.9	39.3	35.1	30.9	25.3	21.1	18.3	15.4	14.0
70°	43.5	39.3	35.1	29.5	26.7	23.9	19.7	15.4	14.0	12.6	11.2
72.5°	33.7	29.5	25.3	22.5	19.7	18.3	15.4	12.6	11.2	9.8	8.4
75°	22.5	21.1	18.3	15.4	14.0	12.6	11.2	9.8	8.4	7.0	7.0
77.5°	15.4	14.0	12.6	11.2	9.8	9.8	8.4	7.0	5.6	5.6	4.2
80°	9.8	8.4	8.4	7.0	7.0	7.0	5.6	4.2	4.2	4.2	2.8
82.5°	7.0	5.6	5.6	4.2	4.2	4.2	4.2	2.8	2.8	2.8	1.4
85°	4.2	2.8	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	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°	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1
2.5°	1196.3	1208.9	1208.9	1220.1	1221.5	1218.7	1206.1	1206.1	1223.0	1232.8	1215.9
5°	1207.5	1220.1	1220.1	1231.4	1237.0	1232.8	1220.1	1221.5	1238.4	1249.6	1232.8
7.5°	1217.3	1230.0	1232.8	1245.4	1249.6	1245.4	1232.8	1235.6	1253.8	1263.7	1246.8
10°	1221.5	1234.2	1235.6	1249.6	1255.2	1249.6	1239.8	1241.2	1260.9	1267.9	1252.4
12.5°	1231.4	1244.0	1244.0	1259.5	1265.1	1260.9	1248.2	1251.0	1270.7	1277.7	1262.3
15°	1241.2	1253.8	1253.8	1270.7	1277.7	1272.1	1262.3	1263.7	1283.3	1290.3	1277.7
17.5°	1241.2	1252.4	1252.4	1270.7	1277.7	1273.5	1262.3	1263.7	1284.7	1290.3	1277.7
20°	1223.0	1235.6	1232.8	1251.0	1258.1	1253.8	1244.0	1244.0	1265.1	1270.7	1258.1
22.5°	1193.5	1204.7	1201.9	1218.7	1227.2	1221.5	1213.1	1211.7	1232.8	1238.4	1225.8
25°	1152.7	1164.0	1161.2	1178.0	1186.4	1179.4	1169.6	1171.0	1187.8	1196.3	1185.0
27.5°	1105.0	1112.0	1107.8	1124.7	1133.1	1126.1	1116.2	1117.6	1134.5	1140.1	1131.7
30°	1040.4	1046.0	1041.8	1055.9	1061.5	1057.3	1048.8	1048.8	1064.3	1071.3	1062.9
32.5°	963.2	967.4	963.2	974.4	985.7	977.2	968.8	968.8	985.7	991.3	981.5
35°	873.3	877.5	874.7	886.0	894.4	883.2	876.1	873.3	895.8	893.0	887.4
37.5°	773.6	776.5	768.0	787.7	791.9	779.3	773.6	770.8	790.5	789.1	783.5
40°	661.3	664.1	658.5	672.6	674.0	664.1	659.9	655.7	675.4	674.0	669.7
42.5°	542.0	543.4	536.4	547.6	550.4	540.6	539.2	533.5	551.8	549.0	547.6
45°	418.4	418.4	412.8	421.2	424.0	415.6	412.8	411.4	424.0	424.0	421.2
47.5°	303.3	299.1	292.0	304.7	306.1	300.5	299.1	294.9	307.5	307.5	304.7
50°	207.8	206.4	205.0	207.8	209.2	202.2	206.4	202.2	209.2	209.2	209.2
52.5°	139.0	137.6	134.8	137.6	137.6	133.4	133.4	132.0	137.6	137.6	134.8
55°	87.1	85.6	84.2	85.6	85.6	81.4	84.2	81.4	84.2	84.2	82.8
57.5°	53.4	50.5	50.5	49.1	49.1	46.3	47.7	47.7	47.7	47.7	47.7
60°	30.9	29.5	28.1	28.1	28.1	26.7	26.7	26.7	26.7	26.7	26.7
62.5°	19.7	19.7	18.3	18.3	18.3	18.3	18.3	16.8	18.3	18.3	18.3
65°	16.8	15.4	15.4	15.4	15.4	14.0	14.0	14.0	14.0	14.0	14.0
67.5°	14.0	12.6	12.6	12.6	12.6	11.2	11.2	11.2	11.2	11.2	11.2
70°	11.2	9.8	9.8	9.8	9.8	9.8	8.4	9.8	9.8	8.4	8.4
72.5°	8.4	8.4	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
75°	5.6	5.6	5.6	5.6	5.6	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	4.2	4.2	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	1.4	1.4	1.4	1.4	1.4	0.0	1.4	0.0	1.4	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: P212820

CATALOG NUMBER: LD6B30D010 EU6B30509727 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1
2.5°	1235.6	1221.5	1214.5	1228.6	1234.2	1227.2	1221.5	1211.7	1221.5	1227.2	1234.2
5°	1252.4	1239.8	1234.2	1244.0	1252.4	1245.4	1241.2	1231.4	1241.2	1245.4	1252.4
7.5°	1267.9	1255.2	1248.2	1258.1	1267.9	1258.1	1253.8	1245.4	1253.8	1258.1	1267.9
10°	1273.5	1259.5	1253.8	1262.3	1272.1	1262.3	1256.6	1251.0	1256.6	1262.3	1272.1
12.5°	1283.3	1269.3	1262.3	1269.3	1279.1	1269.3	1263.7	1259.5	1263.7	1269.3	1279.1
15°	1297.4	1284.7	1276.3	1283.3	1296.0	1284.7	1277.7	1276.3	1277.7	1284.7	1296.0
17.5°	1297.4	1287.5	1279.1	1284.7	1297.4	1288.9	1279.1	1281.9	1279.1	1288.9	1297.4
20°	1279.1	1269.3	1262.3	1262.3	1280.5	1269.3	1260.9	1265.1	1260.9	1269.3	1280.5
22.5°	1246.8	1238.4	1231.4	1230.0	1248.2	1238.4	1227.2	1235.6	1227.2	1238.4	1248.2
25°	1204.7	1196.3	1190.7	1187.8	1206.1	1194.9	1185.0	1193.5	1185.0	1194.9	1206.1
27.5°	1149.9	1142.9	1137.3	1133.1	1149.9	1140.1	1130.3	1138.7	1130.3	1140.1	1149.9
30°	1079.7	1075.5	1069.9	1064.3	1081.1	1071.3	1061.5	1072.7	1061.5	1071.3	1081.1
32.5°	998.3	995.5	988.5	982.9	999.7	988.5	981.5	989.9	981.5	988.5	999.7
35°	904.2	900.0	895.8	886.0	904.2	894.4	894.4	897.2	894.4	894.4	904.2
37.5°	798.9	796.1	790.5	782.1	797.5	790.5	787.7	796.1	787.7	790.5	797.5
40°	681.0	679.6	675.4	665.5	682.4	675.4	671.1	682.4	671.1	675.4	682.4
42.5°	557.4	554.6	550.4	549.0	557.4	551.8	556.0	556.0	556.0	551.8	557.4
45°	429.6	426.8	424.0	418.4	428.2	425.4	424.0	426.8	424.0	425.4	428.2
47.5°	311.7	308.9	306.1	301.9	311.7	307.5	307.5	310.3	307.5	307.5	311.7
50°	209.2	210.6	209.2	206.4	209.2	207.8	209.2	212.0	209.2	207.8	209.2
52.5°	139.0	139.0	136.2	134.8	137.6	136.2	140.4	137.6	140.4	136.2	137.6
55°	84.2	85.6	84.2	82.8	84.2	82.8	87.1	85.6	87.1	82.8	84.2
57.5°	47.7	47.7	49.1	47.7	50.5	49.1	49.1	49.1	49.1	49.1	50.5
60°	26.7	26.7	26.7	26.7	26.7	26.7	28.1	26.7	28.1	26.7	26.7
62.5°	18.3	18.3	18.3	16.8	18.3	16.8	18.3	18.3	18.3	16.8	18.3
65°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
67.5°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
70°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
72.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
75°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	1.4	1.4	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	1.4	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: P212820

CATALOG NUMBER: LD6B30D010 EU6B30509727 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1
2.5°	1228.6	1214.5	1221.5	1235.6	1215.9	1232.8	1223.0	1206.1	1206.1	1218.7	1221.5
5°	1244.0	1234.2	1239.8	1252.4	1232.8	1249.6	1238.4	1221.5	1220.1	1232.8	1237.0
7.5°	1258.1	1248.2	1255.2	1267.9	1246.8	1263.7	1253.8	1235.6	1232.8	1245.4	1249.6
10°	1262.3	1253.8	1259.5	1273.5	1252.4	1267.9	1260.9	1241.2	1239.8	1249.6	1255.2
12.5°	1269.3	1262.3	1269.3	1283.3	1262.3	1277.7	1270.7	1251.0	1248.2	1260.9	1265.1
15°	1283.3	1276.3	1284.7	1297.4	1277.7	1290.3	1283.3	1263.7	1262.3	1272.1	1277.7
17.5°	1284.7	1279.1	1287.5	1297.4	1277.7	1290.3	1284.7	1263.7	1262.3	1273.5	1277.7
20°	1262.3	1262.3	1269.3	1279.1	1258.1	1270.7	1265.1	1244.0	1244.0	1253.8	1258.1
22.5°	1230.0	1231.4	1238.4	1246.8	1225.8	1238.4	1232.8	1211.7	1213.1	1221.5	1227.2
25°	1187.8	1190.7	1196.3	1204.7	1185.0	1196.3	1187.8	1171.0	1169.6	1179.4	1186.4
27.5°	1133.1	1137.3	1142.9	1149.9	1131.7	1140.1	1134.5	1117.6	1116.2	1126.1	1133.1
30°	1064.3	1069.9	1075.5	1079.7	1062.9	1071.3	1064.3	1048.8	1048.8	1057.3	1061.5
32.5°	982.9	988.5	995.5	998.3	981.5	991.3	985.7	968.8	968.8	977.2	985.7
35°	886.0	895.8	900.0	904.2	887.4	893.0	895.8	873.3	876.1	883.2	894.4
37.5°	782.1	790.5	796.1	798.9	783.5	789.1	790.5	770.8	773.6	779.3	791.9
40°	665.5	675.4	679.6	681.0	669.7	674.0	675.4	655.7	659.9	664.1	674.0
42.5°	549.0	550.4	554.6	557.4	547.6	549.0	551.8	533.5	539.2	540.6	550.4
45°	418.4	424.0	426.8	429.6	421.2	424.0	424.0	411.4	412.8	415.6	424.0
47.5°	301.9	306.1	308.9	311.7	304.7	307.5	307.5	294.9	299.1	300.5	306.1
50°	206.4	209.2	210.6	209.2	209.2	209.2	209.2	202.2	206.4	202.2	209.2
52.5°	134.8	136.2	139.0	139.0	134.8	137.6	137.6	132.0	133.4	133.4	137.6
55°	82.8	84.2	85.6	84.2	82.8	84.2	84.2	81.4	84.2	81.4	85.6
57.5°	47.7	49.1	47.7	47.7	47.7	47.7	47.7	47.7	47.7	46.3	49.1
60°	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	26.7	28.1
62.5°	16.8	18.3	18.3	18.3	18.3	18.3	18.3	16.8	18.3	18.3	18.3
65°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	15.4
67.5°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	12.6
70°	8.4	8.4	8.4	8.4	8.4	8.4	9.8	9.8	8.4	9.8	9.8
72.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
75°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.6
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8
82.5°	1.4	1.4	1.4	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	1.4	0.0	1.4	0.0	1.4
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: P212820

CATALOG NUMBER: LD6B30D010 EU6B30509727 6LBSWL11

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1
2.5°	1220.1	1208.9	1208.9	1196.3	1207.5	1208.9	1194.9	1190.7	1206.1	1189.3	1197.7
5°	1231.4	1220.1	1220.1	1207.5	1215.9	1215.9	1201.9	1194.9	1210.3	1193.5	1200.5
7.5°	1245.4	1232.8	1230.0	1217.3	1224.4	1225.8	1208.9	1199.1	1214.5	1194.9	1201.9
10°	1249.6	1235.6	1234.2	1221.5	1227.2	1228.6	1208.9	1200.5	1213.1	1192.1	1196.3
12.5°	1259.5	1244.0	1244.0	1231.4	1235.6	1235.6	1215.9	1204.7	1215.9	1194.9	1197.7
15°	1270.7	1253.8	1253.8	1241.2	1244.0	1245.4	1221.5	1210.3	1220.1	1197.7	1200.5
17.5°	1270.7	1252.4	1252.4	1241.2	1242.6	1241.2	1218.7	1206.1	1213.1	1189.3	1190.7
20°	1251.0	1232.8	1235.6	1223.0	1224.4	1223.0	1199.1	1186.4	1193.5	1168.2	1171.0
22.5°	1218.7	1201.9	1204.7	1193.5	1193.5	1192.1	1169.6	1157.0	1164.0	1138.7	1140.1
25°	1178.0	1161.2	1164.0	1152.7	1154.2	1154.2	1131.7	1117.6	1124.7	1102.2	1102.2
27.5°	1124.7	1107.8	1112.0	1105.0	1100.8	1102.2	1082.5	1068.5	1075.5	1054.5	1054.5
30°	1055.9	1041.8	1046.0	1040.4	1036.2	1036.2	1019.4	1005.3	1012.3	994.1	992.7
32.5°	974.4	963.2	967.4	963.2	959.0	963.2	944.9	930.9	937.9	923.9	925.3
35°	886.0	874.7	877.5	873.3	870.5	873.3	855.1	845.3	852.3	838.2	843.9
37.5°	787.7	768.0	776.5	773.6	770.8	772.2	755.4	748.4	756.8	748.4	752.6
40°	672.6	658.5	664.1	661.3	658.5	665.5	652.9	643.1	650.1	644.5	652.9
42.5°	547.6	536.4	543.4	542.0	537.8	546.2	536.4	529.3	540.6	537.8	544.8
45°	421.2	412.8	418.4	418.4	417.0	424.0	414.2	415.6	426.8	431.1	439.5
47.5°	304.7	292.0	299.1	303.3	303.3	310.3	304.7	310.3	322.9	331.4	338.4
50°	207.8	205.0	206.4	207.8	210.6	216.2	214.8	223.2	231.7	245.7	254.1
52.5°	137.6	134.8	137.6	139.0	141.8	147.4	147.4	157.3	167.1	179.7	189.6
55°	85.6	84.2	85.6	87.1	89.9	95.5	96.9	106.7	116.5	129.2	137.6
57.5°	49.1	50.5	50.5	53.4	54.8	59.0	63.2	68.8	80.0	92.7	101.1
60°	28.1	28.1	29.5	30.9	32.3	36.5	39.3	44.9	53.4	66.0	71.6
62.5°	18.3	18.3	19.7	19.7	21.1	23.9	26.7	32.3	39.3	49.1	54.8
65°	15.4	15.4	15.4	16.8	16.8	19.7	22.5	26.7	32.3	39.3	44.9
67.5°	12.6	12.6	12.6	14.0	14.0	15.4	18.3	21.1	25.3	30.9	35.1
70°	9.8	9.8	9.8	11.2	11.2	12.6	14.0	15.4	19.7	23.9	26.7
72.5°	7.0	7.0	8.4	8.4	8.4	9.8	11.2	12.6	15.4	18.3	19.7
75°	5.6	5.6	5.6	5.6	7.0	7.0	8.4	9.8	11.2	12.6	14.0
77.5°	2.8	2.8	4.2	4.2	4.2	5.6	5.6	7.0	8.4	9.8	9.8
80°	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2	5.6	7.0	7.0
82.5°	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	4.2	4.2	4.2
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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: P212820

CATALOG NUMBER: LD6B30D010 EU6B30509727 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1	1206.1
2.5°	1187.8	1192.1	1192.1	1187.8	1176.6	1186.4	1196.3	1186.4	1199.1	1176.6	1176.6
5°	1187.8	1190.7	1189.3	1183.6	1172.4	1180.8	1187.8	1178.0	1187.8	1166.8	1165.4
7.5°	1190.7	1187.8	1185.0	1178.0	1164.0	1169.6	1176.6	1165.4	1175.2	1152.7	1149.9
10°	1185.0	1180.8	1175.2	1165.4	1149.9	1154.2	1158.4	1148.5	1155.6	1133.1	1131.7
12.5°	1185.0	1178.0	1169.6	1158.4	1141.5	1144.3	1148.5	1135.9	1141.5	1120.5	1117.6
15°	1187.8	1175.2	1165.4	1152.7	1134.5	1135.9	1138.7	1124.7	1130.3	1107.8	1106.4
17.5°	1178.0	1164.0	1154.2	1138.7	1119.0	1120.5	1120.5	1106.4	1110.6	1088.2	1086.8
20°	1157.0	1140.1	1128.9	1114.8	1093.8	1093.8	1093.8	1079.7	1082.5	1062.9	1060.1
22.5°	1127.5	1109.2	1098.0	1083.9	1064.3	1062.9	1061.5	1050.2	1050.2	1032.0	1027.8
25°	1088.2	1071.3	1060.1	1047.4	1027.8	1025.0	1025.0	1015.1	1013.7	996.9	994.1
27.5°	1043.2	1023.6	1013.7	1002.5	984.3	981.5	980.0	974.4	971.6	953.4	952.0
30°	982.9	966.0	957.6	947.8	930.9	928.1	926.7	921.1	919.7	901.4	901.4
32.5°	918.3	897.2	891.6	881.8	869.1	867.7	869.1	862.1	856.5	843.9	841.0
35°	841.0	820.0	815.8	811.6	801.7	798.9	797.5	796.1	789.1	780.7	776.5
37.5°	751.2	732.9	732.9	731.5	724.5	724.5	724.5	721.7	714.7	711.9	703.4
40°	654.3	640.3	641.7	643.1	640.3	641.7	643.1	640.3	634.6	631.8	624.8
42.5°	550.4	543.4	549.0	553.2	553.2	557.4	560.2	560.2	553.2	551.8	546.2
45°	446.5	445.1	456.3	464.7	467.6	474.6	478.8	476.0	476.0	476.0	470.4
47.5°	349.6	355.2	365.1	381.9	387.5	395.9	398.8	403.0	401.6	403.0	398.8
50°	265.4	278.0	290.6	307.5	315.9	325.7	330.0	335.6	335.6	337.0	334.2
52.5°	200.8	210.6	231.7	242.9	252.7	262.6	268.2	273.8	275.2	275.2	272.4
55°	148.8	162.9	176.9	192.4	200.8	210.6	214.8	220.4	220.4	223.2	220.4
57.5°	108.1	122.2	137.6	148.8	158.7	165.7	169.9	174.1	176.9	176.9	175.5
60°	80.0	91.3	103.9	115.1	123.6	130.6	133.4	137.6	139.0	139.0	136.2
62.5°	60.4	71.6	82.8	92.7	98.3	103.9	106.7	109.5	109.5	109.5	108.1
65°	49.1	57.6	66.0	74.4	80.0	84.2	85.6	88.5	87.1	88.5	87.1
67.5°	39.3	44.9	52.0	57.6	61.8	64.6	66.0	68.8	67.4	68.8	67.4
70°	29.5	35.1	39.3	43.5	46.3	49.1	50.5	52.0	50.5	52.0	50.5
72.5°	22.5	25.3	29.5	33.7	35.1	36.5	37.9	37.9	37.9	39.3	37.9
75°	15.4	18.3	21.1	22.5	25.3	26.7	26.7	28.1	28.1	28.1	28.1
77.5°	11.2	12.6	14.0	15.4	16.8	18.3	18.3	19.7	19.7	19.7	19.7
80°	7.0	8.4	8.4	9.8	11.2	11.2	12.6	12.6	12.6	12.6	12.6
82.5°	4.2	5.6	5.6	7.0	7.0	7.0	8.4	8.4	8.4	8.4	8.4
85°	2.8	2.8	2.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	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: P212820

CATALOG NUMBER: LD6B30D010 EU6B30509727 6LBSWLI1

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1206.1	1206.1	1206.1	1206.1
2.5°	1187.8	1180.8	1192.1	1175.2
5°	1175.2	1168.2	1182.2	1161.2
7.5°	1159.8	1152.7	1165.4	1144.3
10°	1140.1	1133.1	1144.3	1121.9
12.5°	1123.3	1116.2	1128.9	1107.8
15°	1110.6	1103.6	1114.8	1095.2
17.5°	1091.0	1082.5	1095.2	1074.1
20°	1062.9	1057.3	1067.1	1046.0
22.5°	1030.6	1025.0	1036.2	1015.1
25°	996.9	989.9	1001.1	980.0
27.5°	953.4	947.8	959.0	937.9
30°	901.4	895.8	907.0	887.4
32.5°	842.4	836.8	845.3	828.4
35°	775.1	770.8	779.3	761.0
37.5°	702.0	697.8	706.3	688.0
40°	623.4	619.2	626.2	617.8
42.5°	546.2	542.0	549.0	542.0
45°	470.4	467.6	474.6	467.6
47.5°	400.2	397.4	404.4	397.4
50°	332.8	334.2	337.0	334.2
52.5°	272.4	272.4	276.6	272.4
55°	220.4	221.8	223.2	220.4
57.5°	175.5	175.5	176.9	175.5
60°	136.2	137.6	137.6	136.2
62.5°	108.1	108.1	108.1	108.1
65°	85.6	85.6	87.1	85.6
67.5°	67.4	66.0	67.4	66.0
70°	50.5	50.5	50.5	50.5
72.5°	39.3	39.3	37.9	37.9
75°	28.1	29.5	28.1	28.1
77.5°	19.7	19.7	19.7	19.7
80°	12.6	12.6	12.6	12.6
82.5°	8.4	8.4	8.4	8.4
85°	5.6	4.2	4.2	4.2
87.5°	2.8	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°





















(END OF REPORT)