

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: P252385

Luminaire Tested: **LD6B30D010 EU6B30509050 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252385
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 EU6B30509050 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2329.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

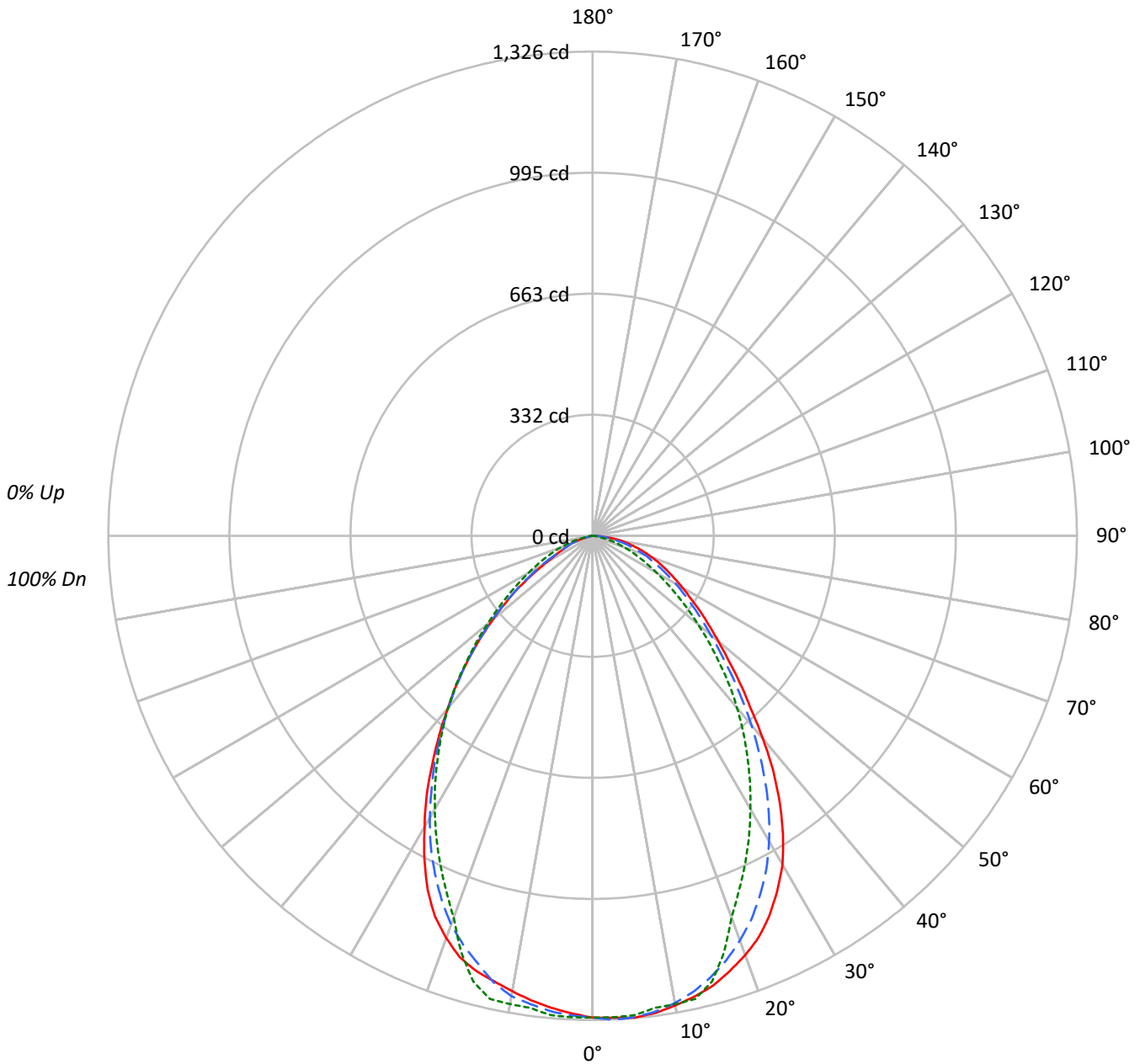
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	86092	86092	86092
5°	86761	86309	84967
10°	86512	86287	83902
15°	86123	85312	83340
20°	84834	77224	81383
25°	82531	71186	76981
30°	78369	65073	69329
35°	71114	58833	61015
40°	61737	52402	52547
45°	52655	45062	44591
50°	45572	38092	36011
55°	40743	31780	27879
60°	37122	26383	18789
65°	34657	21689	14017
70°	33019	17644	11769
75°	31105	12528	3882
80°	29606	6425	1277
85°	24403	3818	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.6	5.4
10°-20°	348.5	15.0
20°-30°	481.1	20.7
30°-40°	489.6	21.0
40°-50°	393.4	16.9
50°-60°	261.6	11.2
60°-70°	149.1	6.4
70°-80°	67.0	2.9
80°-90°	14.1	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°	954.2	41.0
0°-40°	1443.8	62.0
0°-60°	2098.9	90.1
0°-90°	2329.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2329.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1320	1320	1320	1320	1320	
5°	1325	1323	1318	1308	1297	126
15°	1275	1251	1263	1213	1234	359
25°	1146	1085	989	1021	1069	525
35°	893	824	739	752	766	555
45°	571	536	488	483	483	443
55°	358	334	279	248	245	322
65°	224	200	140	91	91	224
75°	123	103	50	21	15	132
85°	33	22	5	2	0	39
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°	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6
2.5°	1321.3	1328.2	1326.5	1324.8	1326.5	1324.8	1321.3	1321.3	1317.9	1317.9	1326.5
5°	1324.8	1328.2	1326.5	1324.8	1324.8	1326.5	1319.6	1319.6	1316.2	1314.5	1323.1
7.5°	1317.9	1323.1	1319.6	1319.6	1317.9	1319.6	1312.8	1312.8	1307.6	1305.9	1314.5
10°	1305.9	1312.8	1309.3	1309.3	1309.3	1305.9	1302.5	1300.8	1295.6	1293.9	1299.1
12.5°	1292.2	1297.4	1295.6	1292.2	1292.2	1292.2	1285.4	1283.6	1276.8	1273.4	1278.5
15°	1275.1	1278.5	1276.8	1275.1	1271.6	1271.6	1264.8	1261.4	1254.5	1247.7	1251.1
17.5°	1249.4	1254.5	1251.1	1249.4	1244.2	1244.2	1237.4	1233.9	1223.7	1216.8	1218.5
20°	1221.9	1223.7	1221.9	1218.5	1213.4	1211.7	1204.8	1198.0	1189.4	1180.8	1179.1
22.5°	1189.4	1191.1	1186.0	1182.5	1177.4	1175.7	1167.1	1162.0	1148.3	1138.0	1136.3
25°	1146.5	1148.3	1148.3	1139.7	1136.3	1132.8	1124.3	1115.7	1103.7	1090.0	1084.8
27.5°	1095.1	1100.3	1096.8	1088.3	1081.4	1079.7	1071.1	1064.3	1048.8	1036.9	1030.0
30°	1040.3	1038.6	1036.9	1031.7	1021.4	1019.7	1011.1	1002.6	990.6	975.2	966.6
32.5°	970.0	970.0	968.3	963.2	952.9	949.4	942.6	932.3	918.6	906.6	898.0
35°	892.9	894.6	892.9	882.6	875.8	872.3	868.9	856.9	844.9	831.2	824.3
37.5°	812.3	807.2	808.9	800.3	791.8	795.2	784.9	779.8	766.1	755.8	748.9
40°	724.9	728.4	721.5	718.1	712.9	707.8	707.8	699.2	692.4	680.4	677.0
42.5°	639.2	644.4	642.7	639.2	632.4	634.1	625.5	622.1	613.5	608.4	603.3
45°	570.7	570.7	570.7	567.3	565.6	562.1	557.0	551.8	546.7	539.8	536.4
47.5°	503.9	503.9	505.6	502.1	498.7	497.0	493.6	493.6	485.0	478.2	474.7
50°	449.0	449.0	449.0	445.6	442.2	442.2	438.7	435.3	430.2	425.0	421.6
52.5°	399.3	399.3	399.3	395.9	394.2	392.5	390.7	389.0	382.2	378.8	375.3
55°	358.2	356.5	356.5	354.8	351.3	351.3	349.6	346.2	341.0	335.9	334.2
57.5°	317.1	318.8	317.1	317.1	313.6	313.6	310.2	308.5	303.3	299.9	296.5
60°	284.5	284.5	284.5	282.8	279.4	281.1	277.6	275.9	270.8	265.6	262.2
62.5°	251.9	253.6	253.6	251.9	248.5	248.5	246.8	245.1	239.9	234.8	229.7
65°	224.5	224.5	224.5	222.8	221.1	221.1	219.4	217.7	212.5	205.7	200.5
67.5°	198.8	197.1	197.1	197.1	195.4	193.7	191.9	190.2	185.1	179.9	173.1
70°	173.1	173.1	173.1	171.4	168.0	169.7	168.0	166.2	161.1	156.0	150.8
72.5°	149.1	149.1	147.4	145.7	145.7	144.0	144.0	142.2	137.1	130.2	125.1
75°	123.4	123.4	123.4	123.4	120.0	121.7	118.3	116.5	113.1	108.0	102.8
77.5°	101.1	101.1	101.1	99.4	97.7	97.7	96.0	94.3	89.1	85.7	78.8
80°	78.8	78.8	78.8	78.8	77.1	75.4	73.7	72.0	68.6	63.4	58.3
82.5°	58.3	58.3	56.6	56.6	56.6	54.8	53.1	51.4	48.0	44.6	41.1
85°	32.6	34.3	34.3	30.8	32.6	30.8	30.8	27.4	27.4	24.0	22.3
87.5°	12.0	10.3	10.3	10.3	10.3	10.3	10.3	8.6	8.6	8.6	6.9
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°	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6
2.5°	1319.6	1317.9	1324.8	1324.8	1314.5	1319.6	1321.3	1317.9	1317.9	1319.6	1314.5
5°	1316.2	1312.8	1319.6	1321.3	1311.1	1316.2	1317.9	1314.5	1316.2	1317.9	1311.1
7.5°	1304.2	1304.2	1309.3	1311.1	1300.8	1305.9	1305.9	1302.5	1304.2	1304.2	1299.1
10°	1292.2	1287.1	1292.2	1292.2	1283.6	1285.4	1288.8	1287.1	1293.9	1302.5	1302.5
12.5°	1269.9	1264.8	1273.4	1273.4	1268.2	1275.1	1283.6	1288.8	1295.6	1299.1	1288.8
15°	1242.5	1244.2	1259.6	1271.6	1266.5	1276.8	1285.4	1281.9	1273.4	1263.1	1247.7
17.5°	1206.5	1201.4	1215.1	1221.9	1215.1	1218.5	1225.4	1218.5	1204.8	1196.2	1175.7
20°	1165.4	1151.7	1151.7	1148.3	1136.3	1136.3	1134.5	1122.5	1117.4	1112.3	1103.7
22.5°	1119.1	1103.7	1098.5	1088.3	1078.0	1076.3	1071.1	1059.1	1052.3	1048.8	1038.6
25°	1066.0	1052.3	1043.7	1033.4	1018.0	1014.6	1009.4	997.4	994.0	988.9	980.3
27.5°	1011.1	994.0	982.0	971.7	958.0	956.3	946.0	937.5	930.6	927.2	920.3
30°	947.7	928.9	920.3	906.6	896.3	892.9	884.3	872.3	867.2	863.8	858.6
32.5°	877.5	862.0	853.5	841.5	827.8	829.5	819.2	808.9	805.5	802.1	796.9
35°	808.9	793.5	783.2	772.9	764.4	760.9	754.1	745.5	740.4	738.7	735.2
37.5°	733.5	721.5	712.9	702.7	695.8	692.4	689.0	680.4	677.0	677.0	670.1
40°	659.8	649.5	642.7	637.5	629.0	627.3	623.8	618.7	617.0	615.3	610.1
42.5°	593.0	579.3	574.1	570.7	565.6	562.1	560.4	557.0	555.3	553.6	548.4
45°	529.6	517.6	512.4	509.0	503.9	502.1	500.4	495.3	491.9	488.4	486.7
47.5°	467.9	459.3	457.6	449.0	445.6	442.2	438.7	435.3	433.6	431.9	425.0
50°	414.7	409.6	401.0	395.9	392.5	390.7	383.9	378.8	377.0	375.3	370.2
52.5°	366.8	359.9	354.8	346.2	344.5	341.0	337.6	330.8	327.3	325.6	320.5
55°	323.9	318.8	311.9	305.1	299.9	298.2	293.1	286.2	282.8	279.4	275.9
57.5°	287.9	279.4	272.5	265.6	262.2	257.1	251.9	248.5	243.4	238.2	233.1
60°	253.6	246.8	238.2	231.4	227.9	224.5	217.7	212.5	207.4	202.2	197.1
62.5°	221.1	214.2	205.7	198.8	195.4	191.9	185.1	179.9	174.8	169.7	162.8
65°	191.9	185.1	178.2	171.4	168.0	164.5	157.7	150.8	145.7	140.5	133.7
67.5°	168.0	159.4	152.5	145.7	142.2	138.8	132.0	126.8	120.0	114.8	108.0
70°	142.2	135.4	130.2	123.4	120.0	116.5	109.7	102.8	97.7	92.5	85.7
72.5°	120.0	111.4	106.3	99.4	96.0	94.3	87.4	82.3	77.1	70.3	65.1
75°	96.0	89.1	82.3	77.1	73.7	72.0	65.1	60.0	54.8	49.7	44.6
77.5°	73.7	68.6	61.7	56.6	53.1	51.4	44.6	39.4	34.3	30.8	25.7
80°	54.8	48.0	44.6	39.4	37.7	34.3	30.8	25.7	22.3	17.1	13.7
82.5°	37.7	32.6	29.1	25.7	24.0	22.3	18.9	15.4	12.0	10.3	8.6
85°	20.6	17.1	15.4	13.7	12.0	12.0	10.3	8.6	6.9	5.1	3.4
87.5°	6.9	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°	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6
2.5°	1317.9	1317.9	1317.9	1316.2	1316.2	1316.2	1314.5	1321.3	1314.5	1312.8	1317.9
5°	1316.2	1312.8	1312.8	1312.8	1312.8	1311.1	1309.3	1312.8	1307.6	1305.9	1305.9
7.5°	1305.9	1304.2	1304.2	1302.5	1300.8	1299.1	1297.4	1299.1	1293.9	1292.2	1292.2
10°	1307.6	1304.2	1304.2	1299.1	1295.6	1290.5	1285.4	1287.1	1280.2	1275.1	1275.1
12.5°	1287.1	1278.5	1273.4	1268.2	1264.8	1263.1	1256.2	1259.6	1252.8	1251.1	1251.1
15°	1240.8	1230.5	1221.9	1218.5	1218.5	1215.1	1209.9	1216.8	1213.4	1215.1	1223.7
17.5°	1168.8	1163.7	1158.5	1156.8	1158.5	1162.0	1165.4	1175.7	1175.7	1180.8	1189.4
20°	1105.4	1102.0	1105.4	1105.4	1107.1	1114.0	1120.8	1129.4	1132.8	1138.0	1150.0
22.5°	1043.7	1043.7	1047.1	1052.3	1050.6	1062.6	1064.3	1079.7	1079.7	1090.0	1100.3
25°	983.7	983.7	987.2	988.9	992.3	999.1	1006.0	1018.0	1021.4	1031.7	1040.3
27.5°	925.5	923.7	923.7	925.5	928.9	937.5	940.9	954.6	959.7	966.6	975.2
30°	860.3	858.6	862.0	865.5	863.8	872.3	877.5	887.8	891.2	898.0	904.9
32.5°	798.6	798.6	798.6	802.1	802.1	808.9	808.9	820.9	820.9	826.1	832.9
35°	735.2	735.2	736.9	738.7	740.4	742.1	743.8	750.6	752.4	754.1	757.5
37.5°	675.2	673.5	675.2	675.2	671.8	678.7	678.7	685.5	680.4	685.5	687.2
40°	613.5	613.5	611.8	611.8	611.8	615.3	611.8	617.0	613.5	617.0	615.3
42.5°	550.1	550.1	546.7	550.1	548.4	548.4	548.4	551.8	546.7	550.1	551.8
45°	486.7	485.0	485.0	483.3	483.3	483.3	485.0	485.0	483.3	486.7	486.7
47.5°	425.0	423.3	423.3	423.3	423.3	425.0	419.9	423.3	419.9	419.9	419.9
50°	371.9	370.2	368.5	366.8	365.0	365.0	363.3	363.3	359.9	358.2	356.5
52.5°	320.5	318.8	315.3	315.3	313.6	311.9	306.8	306.8	301.6	299.9	299.9
55°	274.2	269.1	267.4	263.9	263.9	260.5	257.1	253.6	248.5	245.1	245.1
57.5°	231.4	226.2	222.8	221.1	219.4	215.9	209.1	207.4	200.5	198.8	197.1
60°	193.7	188.5	183.4	179.9	178.2	173.1	166.2	162.8	159.4	154.2	149.1
62.5°	157.7	152.5	145.7	144.0	140.5	135.4	130.2	125.1	121.7	116.5	113.1
65°	126.8	121.7	116.5	113.1	109.7	104.5	99.4	94.3	90.8	89.1	87.4
67.5°	102.8	96.0	90.8	89.1	85.7	82.3	77.1	75.4	72.0	72.0	72.0
70°	80.5	75.4	70.3	68.6	66.8	63.4	60.0	60.0	60.0	60.0	60.0
72.5°	60.0	56.6	51.4	49.7	48.0	46.3	42.8	44.6	42.8	42.8	42.8
75°	37.7	34.3	30.8	29.1	27.4	25.7	24.0	22.3	20.6	18.9	18.9
77.5°	20.6	17.1	15.4	13.7	13.7	12.0	10.3	10.3	8.6	8.6	8.6
80°	12.0	10.3	8.6	6.9	6.9	5.1	5.1	5.1	5.1	3.4	3.4
82.5°	6.9	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: P252385

CATALOG NUMBER: LD6B30D010 EU6B30509050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6	1319.6
2.5°	1309.3	1314.5	1309.3	1314.5	1314.5	1314.5	1314.5	1309.3
5°	1300.8	1304.2	1299.1	1302.5	1304.2	1302.5	1302.5	1297.4
7.5°	1285.4	1288.8	1283.6	1288.8	1290.5	1288.8	1287.1	1283.6
10°	1269.9	1271.6	1266.5	1269.9	1273.4	1273.4	1271.6	1266.5
12.5°	1245.9	1251.1	1245.9	1249.4	1252.8	1254.5	1254.5	1249.4
15°	1218.5	1227.1	1223.7	1228.8	1233.9	1235.7	1235.7	1233.9
17.5°	1191.1	1199.7	1194.5	1203.1	1208.2	1211.7	1213.4	1209.9
20°	1151.7	1162.0	1158.5	1165.4	1172.2	1177.4	1177.4	1172.2
22.5°	1100.3	1114.0	1112.3	1117.4	1126.0	1127.7	1131.1	1127.7
25°	1043.7	1054.0	1052.3	1057.4	1067.7	1067.7	1069.4	1069.4
27.5°	978.6	988.9	987.2	990.6	997.4	999.1	1000.9	997.4
30°	908.3	913.5	913.5	918.6	923.7	925.5	925.5	920.3
32.5°	831.2	838.1	841.5	839.8	844.9	848.3	846.6	846.6
35°	760.9	762.6	764.4	766.1	767.8	771.2	767.8	766.1
37.5°	685.5	690.7	687.2	690.7	694.1	692.4	690.7	690.7
40°	617.0	618.7	615.3	618.7	620.4	620.4	620.4	617.0
42.5°	548.4	551.8	548.4	551.8	551.8	551.8	551.8	550.1
45°	479.9	483.3	483.3	485.0	485.0	483.3	483.3	483.3
47.5°	416.5	419.9	416.5	419.9	421.6	418.2	418.2	418.2
50°	356.5	354.8	354.8	356.5	356.5	356.5	356.5	354.8
52.5°	294.8	296.5	296.5	296.5	298.2	296.5	298.2	298.2
55°	241.6	241.6	241.6	243.4	241.6	241.6	243.4	245.1
57.5°	193.7	191.9	190.2	190.2	191.9	190.2	190.2	190.2
60°	149.1	147.4	145.7	145.7	145.7	145.7	145.7	144.0
62.5°	111.4	111.4	111.4	113.1	113.1	113.1	113.1	114.8
65°	89.1	89.1	89.1	89.1	89.1	89.1	89.1	90.8
67.5°	72.0	72.0	72.0	73.7	73.7	73.7	73.7	73.7
70°	60.0	60.0	61.7	60.0	61.7	61.7	61.7	61.7
72.5°	41.1	41.1	41.1	41.1	41.1	39.4	41.1	39.4
75°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	15.4
77.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
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)