

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: P252381

Luminaire Tested: **LD6B30D010 EU6B30509027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252381
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 EU6B30509027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2195.0 lumens
Efficiency: N/A
Efficacy: 78.4 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

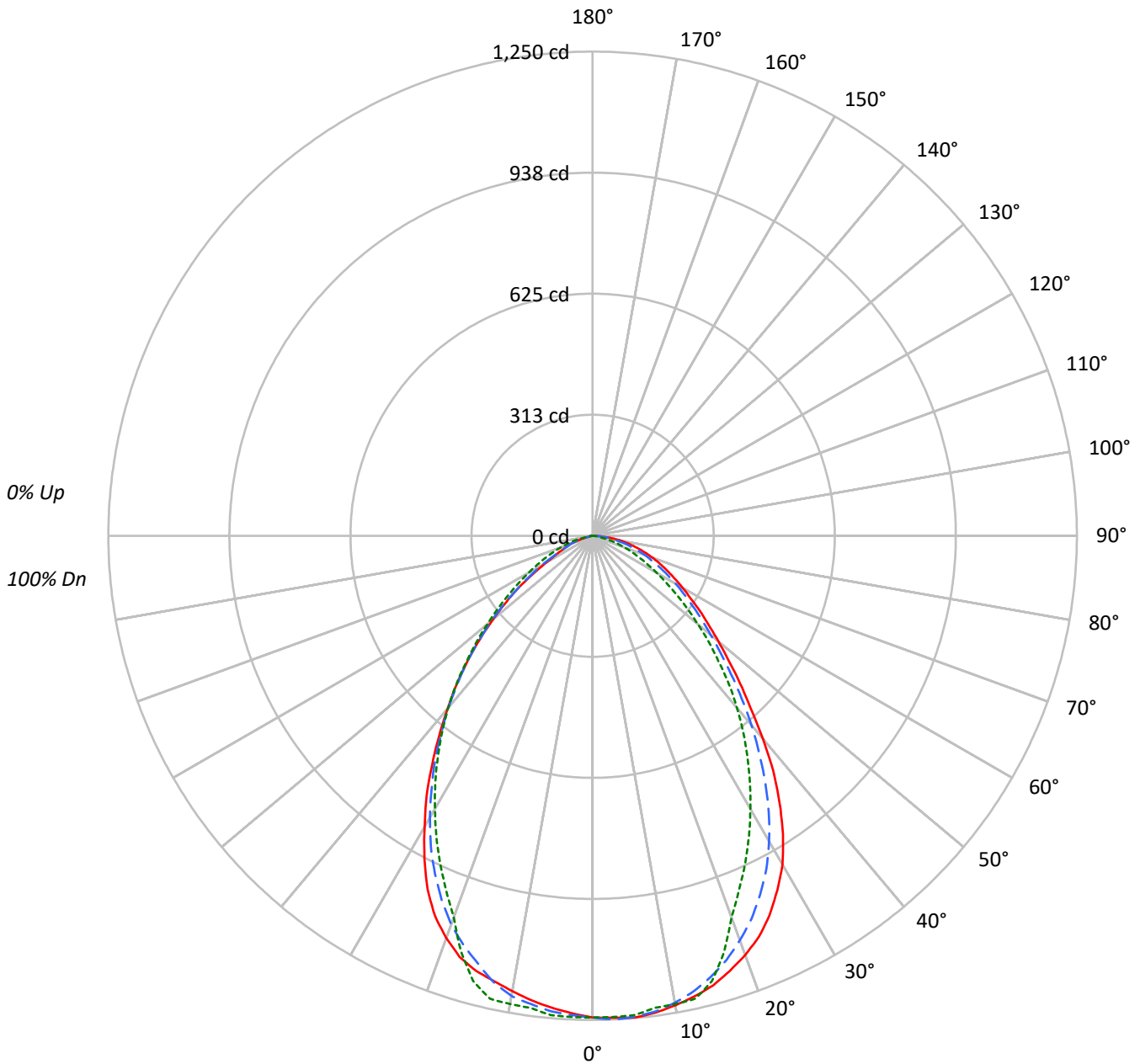
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	81140	81140	81140
5°	81771	81345	80074
10°	81537	81325	79073
15°	81165	80402	78545
20°	79953	72781	76704
25°	77787	67090	72554
30°	73857	61329	65344
35°	67021	55448	57503
40°	58185	49388	49524
45°	49629	42469	42026
50°	42953	35899	33930
55°	38400	29949	26275
60°	34982	24870	17706
65°	32665	20439	13214
70°	31111	16633	11083
75°	29316	11797	3655
80°	27915	6086	1202
85°	22981	3593	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	5.4
10°-20°	328.5	15.0
20°-30°	453.4	20.7
30°-40°	461.4	21.0
40°-50°	370.8	16.9
50°-60°	246.6	11.2
60°-70°	140.5	6.4
70°-80°	63.1	2.9
80°-90°	13.3	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°	899.3	41.0
0°-40°	1360.7	62.0
0°-60°	1978.1	90.1
0°-90°	2195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2195.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1244	1244	1244	1244	1244	
5°	1249	1247	1242	1232	1223	119
15°	1202	1179	1190	1144	1163	338
25°	1081	1022	932	963	1008	495
35°	842	777	696	709	722	523
45°	538	506	460	456	456	417
55°	338	315	263	234	231	303
65°	212	189	132	86	86	211
75°	116	97	47	19	14	124
85°	31	21	5	2	0	36
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°	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7
2.5°	1245.3	1251.8	1250.2	1248.6	1250.2	1248.6	1245.3	1245.3	1242.1	1242.1	1250.2
5°	1248.6	1251.8	1250.2	1248.6	1248.6	1250.2	1243.7	1243.7	1240.5	1238.9	1246.9
7.5°	1242.1	1246.9	1243.7	1243.7	1242.1	1243.7	1237.2	1237.2	1232.4	1230.8	1238.9
10°	1230.8	1237.2	1234.0	1234.0	1234.0	1230.8	1227.6	1225.9	1221.1	1219.5	1224.3
12.5°	1217.9	1222.7	1221.1	1217.9	1217.9	1217.9	1211.4	1209.8	1203.3	1200.1	1204.9
15°	1201.7	1204.9	1203.3	1201.7	1198.5	1198.5	1192.0	1188.8	1182.3	1175.9	1179.1
17.5°	1177.5	1182.3	1179.1	1177.5	1172.6	1172.6	1166.2	1162.9	1153.3	1146.8	1148.4
20°	1151.6	1153.3	1151.6	1148.4	1143.6	1141.9	1135.5	1129.0	1121.0	1112.9	1111.3
22.5°	1121.0	1122.6	1117.7	1114.5	1109.6	1108.0	1100.0	1095.1	1082.2	1072.5	1070.9
25°	1080.6	1082.2	1082.2	1074.1	1070.9	1067.6	1059.6	1051.5	1040.2	1027.3	1022.4
27.5°	1032.1	1037.0	1033.7	1025.7	1019.2	1017.6	1009.5	1003.0	988.5	977.2	970.7
30°	980.4	978.8	977.2	972.4	962.7	961.0	953.0	944.9	933.6	919.0	911.0
32.5°	914.2	914.2	912.6	907.7	898.1	894.8	888.4	878.7	865.7	854.4	846.4
35°	841.5	843.1	841.5	831.8	825.4	822.1	818.9	807.6	796.3	783.4	776.9
37.5°	765.6	760.8	762.4	754.3	746.2	749.5	739.8	734.9	722.0	712.3	705.8
40°	683.2	686.5	680.0	676.8	671.9	667.1	667.1	659.0	652.5	641.2	638.0
42.5°	602.5	607.3	605.7	602.5	596.0	597.6	589.5	586.3	578.2	573.4	568.6
45°	537.9	537.9	537.9	534.6	533.0	529.8	524.9	520.1	515.2	508.8	505.6
47.5°	474.9	474.9	476.5	473.3	470.0	468.4	465.2	465.2	457.1	450.6	447.4
50°	423.2	423.2	423.2	420.0	416.7	416.7	413.5	410.3	405.4	400.6	397.3
52.5°	376.3	376.3	376.3	373.1	371.5	369.9	368.3	366.7	360.2	357.0	353.7
55°	337.6	336.0	336.0	334.3	331.1	331.1	329.5	326.3	321.4	316.6	315.0
57.5°	298.8	300.4	298.8	298.8	295.6	295.6	292.4	290.7	285.9	282.7	279.4
60°	268.1	268.1	268.1	266.5	263.3	264.9	261.7	260.0	255.2	250.4	247.1
62.5°	237.4	239.0	239.0	237.4	234.2	234.2	232.6	231.0	226.1	221.3	216.4
65°	211.6	211.6	211.6	210.0	208.4	208.4	206.7	205.1	200.3	193.8	189.0
67.5°	187.4	185.7	185.7	185.7	184.1	182.5	180.9	179.3	174.4	169.6	163.1
70°	163.1	163.1	163.1	161.5	158.3	159.9	158.3	156.7	151.8	147.0	142.1
72.5°	140.5	140.5	138.9	137.3	137.3	135.7	135.7	134.1	129.2	122.8	117.9
75°	116.3	116.3	116.3	116.3	113.1	114.7	111.4	109.8	106.6	101.8	96.9
77.5°	95.3	95.3	95.3	93.7	92.1	92.1	90.5	88.8	84.0	80.8	74.3
80°	74.3	74.3	74.3	74.3	72.7	71.1	69.5	67.8	64.6	59.8	54.9
82.5°	54.9	54.9	53.3	53.3	53.3	51.7	50.1	48.5	45.2	42.0	38.8
85°	30.7	32.3	32.3	29.1	30.7	29.1	29.1	25.8	25.8	22.6	21.0
87.5°	11.3	9.7	9.7	9.7	9.7	9.7	9.7	8.1	8.1	8.1	6.5
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°	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7
2.5°	1243.7	1242.1	1248.6	1248.6	1238.9	1243.7	1245.3	1242.1	1242.1	1243.7	1238.9
5°	1240.5	1237.2	1243.7	1245.3	1235.6	1240.5	1242.1	1238.9	1240.5	1242.1	1235.6
7.5°	1229.2	1229.2	1234.0	1235.6	1225.9	1230.8	1230.8	1227.6	1229.2	1229.2	1224.3
10°	1217.9	1213.0	1217.9	1217.9	1209.8	1211.4	1214.6	1213.0	1219.5	1227.6	1227.6
12.5°	1196.9	1192.0	1200.1	1200.1	1195.2	1201.7	1209.8	1214.6	1221.1	1224.3	1214.6
15°	1171.0	1172.6	1187.2	1198.5	1193.6	1203.3	1211.4	1208.2	1200.1	1190.4	1175.9
17.5°	1137.1	1132.3	1145.2	1151.6	1145.2	1148.4	1154.9	1148.4	1135.5	1127.4	1108.0
20°	1098.3	1085.4	1085.4	1082.2	1070.9	1070.9	1069.3	1058.0	1053.1	1048.3	1040.2
22.5°	1054.7	1040.2	1035.3	1025.7	1016.0	1014.3	1009.5	998.2	991.7	988.5	978.8
25°	1004.7	991.7	983.7	974.0	959.4	956.2	951.4	940.0	936.8	932.0	923.9
27.5°	953.0	936.8	925.5	915.8	902.9	901.3	891.6	883.5	877.1	873.8	867.4
30°	893.2	875.4	867.4	854.4	844.8	841.5	833.4	822.1	817.3	814.1	809.2
32.5°	827.0	812.4	804.4	793.1	780.1	781.8	772.1	762.4	759.1	755.9	751.1
35°	762.4	747.8	738.1	728.5	720.4	717.1	710.7	702.6	697.8	696.2	692.9
37.5°	691.3	680.0	671.9	662.2	655.8	652.5	649.3	641.2	638.0	638.0	631.5
40°	621.9	612.2	605.7	600.9	592.8	591.2	587.9	583.1	581.5	579.9	575.0
42.5°	558.9	545.9	541.1	537.9	533.0	529.8	528.2	524.9	523.3	521.7	516.9
45°	499.1	487.8	482.9	479.7	474.9	473.3	471.6	466.8	463.6	460.3	458.7
47.5°	441.0	432.9	431.3	423.2	420.0	416.7	413.5	410.3	408.6	407.0	400.6
50°	390.9	386.0	378.0	373.1	369.9	368.3	361.8	357.0	355.3	353.7	348.9
52.5°	345.7	339.2	334.3	326.3	324.7	321.4	318.2	311.7	308.5	306.9	302.0
55°	305.3	300.4	294.0	287.5	282.7	281.0	276.2	269.7	266.5	263.3	260.0
57.5°	271.4	263.3	256.8	250.4	247.1	242.3	237.4	234.2	229.4	224.5	219.7
60°	239.0	232.6	224.5	218.1	214.8	211.6	205.1	200.3	195.4	190.6	185.7
62.5°	208.4	201.9	193.8	187.4	184.1	180.9	174.4	169.6	164.8	159.9	153.4
65°	180.9	174.4	168.0	161.5	158.3	155.1	148.6	142.1	137.3	132.4	126.0
67.5°	158.3	150.2	143.8	137.3	134.1	130.8	124.4	119.5	113.1	108.2	101.8
70°	134.1	127.6	122.8	116.3	113.1	109.8	103.4	96.9	92.1	87.2	80.8
72.5°	113.1	105.0	100.1	93.7	90.5	88.8	82.4	77.5	72.7	66.2	61.4
75°	90.5	84.0	77.5	72.7	69.5	67.8	61.4	56.5	51.7	46.8	42.0
77.5°	69.5	64.6	58.1	53.3	50.1	48.5	42.0	37.1	32.3	29.1	24.2
80°	51.7	45.2	42.0	37.1	35.5	32.3	29.1	24.2	21.0	16.2	12.9
82.5°	35.5	30.7	27.5	24.2	22.6	21.0	17.8	14.5	11.3	9.7	8.1
85°	19.4	16.2	14.5	12.9	11.3	11.3	9.7	8.1	6.5	4.8	3.2
87.5°	6.5	4.8	4.8	4.8	4.8	3.2	3.2	3.2	1.6	1.6	1.6
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°	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7
2.5°	1242.1	1242.1	1242.1	1240.5	1240.5	1240.5	1238.9	1245.3	1238.9	1237.2	1242.1
5°	1240.5	1237.2	1237.2	1237.2	1237.2	1235.6	1234.0	1237.2	1232.4	1230.8	1230.8
7.5°	1230.8	1229.2	1229.2	1227.6	1225.9	1224.3	1222.7	1224.3	1219.5	1217.9	1217.9
10°	1232.4	1229.2	1229.2	1224.3	1221.1	1216.2	1211.4	1213.0	1206.6	1201.7	1201.7
12.5°	1213.0	1204.9	1200.1	1195.2	1192.0	1190.4	1183.9	1187.2	1180.7	1179.1	1179.1
15°	1169.4	1159.7	1151.6	1148.4	1148.4	1145.2	1140.3	1146.8	1143.6	1145.2	1153.3
17.5°	1101.6	1096.7	1091.9	1090.3	1091.9	1095.1	1098.3	1108.0	1108.0	1112.9	1121.0
20°	1041.8	1038.6	1041.8	1041.8	1043.4	1049.9	1056.3	1064.4	1067.6	1072.5	1083.8
22.5°	983.7	983.7	986.9	991.7	990.1	1001.4	1003.0	1017.6	1017.6	1027.3	1037.0
25°	927.1	927.1	930.4	932.0	935.2	941.7	948.1	959.4	962.7	972.4	980.4
27.5°	872.2	870.6	870.6	872.2	875.4	883.5	886.7	899.7	904.5	911.0	919.0
30°	810.8	809.2	812.4	815.7	814.1	822.1	827.0	836.7	839.9	846.4	852.8
32.5°	752.7	752.7	752.7	755.9	755.9	762.4	762.4	773.7	773.7	778.5	785.0
35°	692.9	692.9	694.5	696.2	697.8	699.4	701.0	707.5	709.1	710.7	713.9
37.5°	636.4	634.8	636.4	636.4	633.2	639.6	639.6	646.1	641.2	646.1	647.7
40°	578.2	578.2	576.6	576.6	576.6	579.9	576.6	581.5	578.2	581.5	579.9
42.5°	518.5	518.5	515.2	518.5	516.9	516.9	516.9	520.1	515.2	518.5	520.1
45°	458.7	457.1	457.1	455.5	455.5	455.5	457.1	457.1	455.5	458.7	458.7
47.5°	400.6	399.0	399.0	399.0	399.0	400.6	395.7	399.0	395.7	395.7	395.7
50°	350.5	348.9	347.3	345.7	344.0	344.0	342.4	342.4	339.2	337.6	336.0
52.5°	302.0	300.4	297.2	297.2	295.6	294.0	289.1	289.1	284.3	282.7	282.7
55°	258.4	253.6	252.0	248.7	248.7	245.5	242.3	239.0	234.2	231.0	231.0
57.5°	218.1	213.2	210.0	208.4	206.7	203.5	197.1	195.4	189.0	187.4	185.7
60°	182.5	177.7	172.8	169.6	168.0	163.1	156.7	153.4	150.2	145.4	140.5
62.5°	148.6	143.8	137.3	135.7	132.4	127.6	122.8	117.9	114.7	109.8	106.6
65°	119.5	114.7	109.8	106.6	103.4	98.5	93.7	88.8	85.6	84.0	82.4
67.5°	96.9	90.5	85.6	84.0	80.8	77.5	72.7	71.1	67.8	67.8	67.8
70°	75.9	71.1	66.2	64.6	63.0	59.8	56.5	56.5	56.5	56.5	56.5
72.5°	56.5	53.3	48.5	46.8	45.2	43.6	40.4	42.0	40.4	40.4	40.4
75°	35.5	32.3	29.1	27.5	25.8	24.2	22.6	21.0	19.4	17.8	17.8
77.5°	19.4	16.2	14.5	12.9	12.9	11.3	9.7	9.7	8.1	8.1	8.1
80°	11.3	9.7	8.1	6.5	6.5	4.8	4.8	4.8	4.8	3.2	3.2
82.5°	6.5	4.8	3.2	3.2	3.2	3.2	1.6	1.6	1.6	1.6	1.6
85°	3.2	3.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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: P252381

CATALOG NUMBER: LD6B30D010 EU6B30509027 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7	1243.7
2.5°	1234.0	1238.9	1234.0	1238.9	1238.9	1238.9	1238.9	1234.0
5°	1225.9	1229.2	1224.3	1227.6	1229.2	1227.6	1227.6	1222.7
7.5°	1211.4	1214.6	1209.8	1214.6	1216.2	1214.6	1213.0	1209.8
10°	1196.9	1198.5	1193.6	1196.9	1200.1	1200.1	1198.5	1193.6
12.5°	1174.3	1179.1	1174.3	1177.5	1180.7	1182.3	1182.3	1177.5
15°	1148.4	1156.5	1153.3	1158.1	1162.9	1164.6	1164.6	1162.9
17.5°	1122.6	1130.6	1125.8	1133.9	1138.7	1141.9	1143.6	1140.3
20°	1085.4	1095.1	1091.9	1098.3	1104.8	1109.6	1109.6	1104.8
22.5°	1037.0	1049.9	1048.3	1053.1	1061.2	1062.8	1066.0	1062.8
25°	983.7	993.3	991.7	996.6	1006.3	1006.3	1007.9	1007.9
27.5°	922.3	932.0	930.4	933.6	940.0	941.7	943.3	940.0
30°	856.1	860.9	860.9	865.7	870.6	872.2	872.2	867.4
32.5°	783.4	789.8	793.1	791.4	796.3	799.5	797.9	797.9
35°	717.1	718.8	720.4	722.0	723.6	726.8	723.6	722.0
37.5°	646.1	650.9	647.7	650.9	654.2	652.5	650.9	650.9
40°	581.5	583.1	579.9	583.1	584.7	584.7	584.7	581.5
42.5°	516.9	520.1	516.9	520.1	520.1	520.1	520.1	518.5
45°	452.3	455.5	455.5	457.1	457.1	455.5	455.5	455.5
47.5°	392.5	395.7	392.5	395.7	397.3	394.1	394.1	394.1
50°	336.0	334.3	334.3	336.0	336.0	336.0	336.0	334.3
52.5°	277.8	279.4	279.4	279.4	281.0	279.4	281.0	281.0
55°	227.7	227.7	227.7	229.4	227.7	227.7	229.4	231.0
57.5°	182.5	180.9	179.3	179.3	180.9	179.3	179.3	179.3
60°	140.5	138.9	137.3	137.3	137.3	137.3	137.3	135.7
62.5°	105.0	105.0	105.0	106.6	106.6	106.6	106.6	108.2
65°	84.0	84.0	84.0	84.0	84.0	84.0	84.0	85.6
67.5°	67.8	67.8	67.8	69.5	69.5	69.5	69.5	69.5
70°	56.5	56.5	58.1	56.5	58.1	58.1	58.1	58.1
72.5°	38.8	38.8	38.8	38.8	38.8	37.1	38.8	37.1
75°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	14.5
77.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
80°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	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)