

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: P252143

Luminaire Tested: **LD6B15D010 EU6B10208035 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252143
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 EU6B10208035 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1913.0 lumens
Efficiency: N/A
Efficacy: 132.9 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

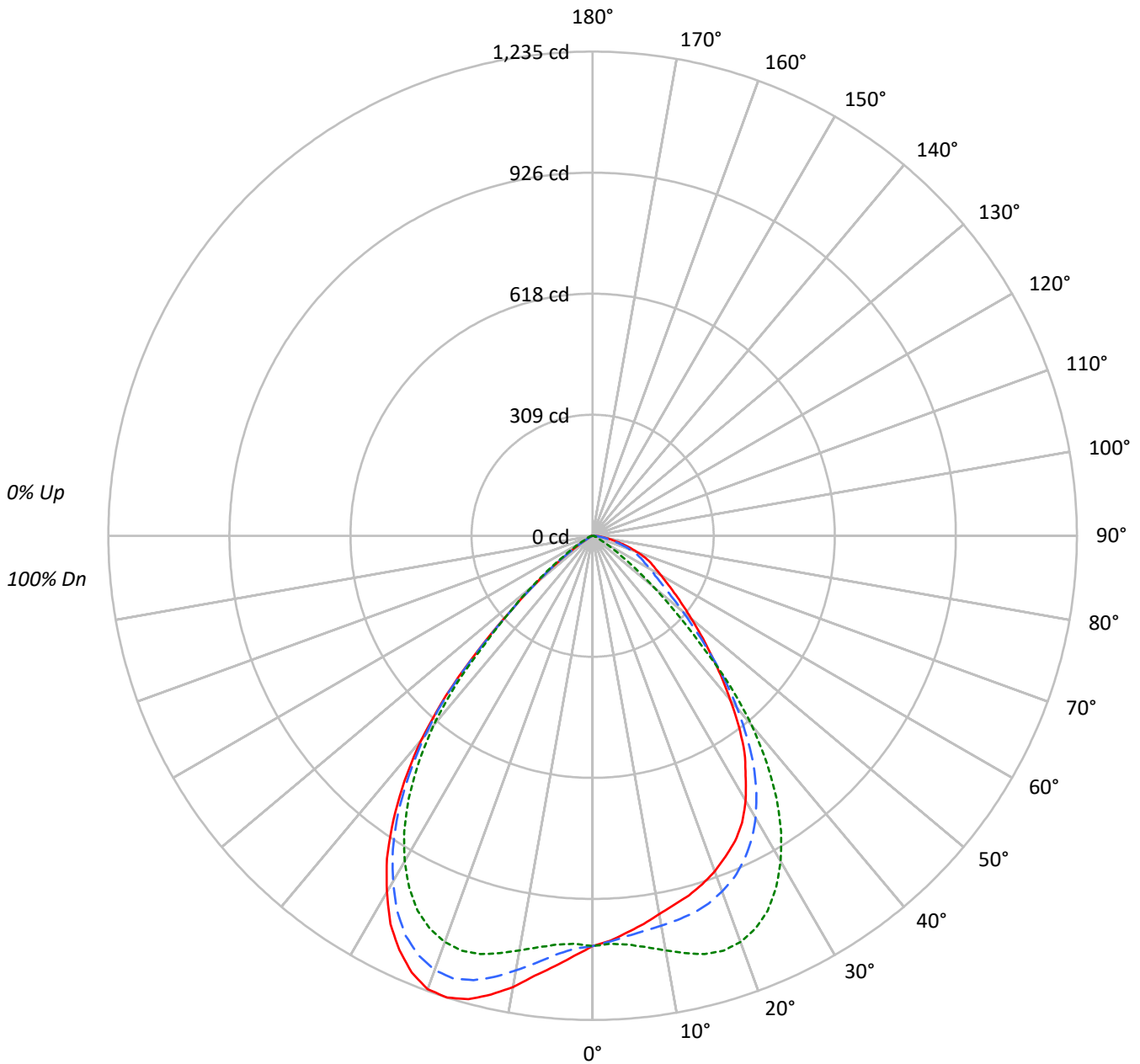
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	68281	68281	68281
5°	66505	68542	72144
10°	64889	71123	77416
15°	64131	74607	82651
20°	63214	76551	85445
25°	61871	75987	83906
30°	58790	72207	78995
35°	53792	65101	70525
40°	46526	53765	57862
45°	39231	35263	37847
50°	33311	20411	19193
55°	28902	9782	7393
60°	26109	4567	1827
65°	25333	2624	617
70°	22718	2098	572
75°	18653	1512	252
80°	13901	751	0
85°	11977	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	5.3
10°-20°	308.1	16.1
20°-30°	470.7	24.6
30°-40°	492.3	25.7
40°-50°	319.4	16.7
50°-60°	126.8	6.6
60°-70°	60.2	3.1
70°-80°	28.6	1.5
80°-90°	5.8	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°	879.9	46.0
0°-40°	1372.2	71.7
0°-60°	1818.4	95.1
0°-90°	1913.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1913.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1047	1047	1047	1047	1047	
5°	1016	1025	1047	1073	1102	96
15°	950	996	1105	1174	1224	268
25°	860	914	1056	1127	1166	394
35°	675	716	817	866	886	418
45°	425	421	382	405	410	331
55°	254	216	86	67	65	230
65°	164	136	17	4	4	160
75°	74	60	6	2	1	80
85°	16	10	0	0	0	19
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°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	1033.6	1035.6	1024.6	1021.5	1029.6	1032.6	1033.6	1030.6	1031.6	1035.6	1035.6
5°	1015.5	1017.5	1007.5	1004.5	1012.5	1014.5	1017.5	1016.5	1019.5	1025.6	1024.6
7.5°	998.5	1001.5	990.5	986.5	996.5	1001.5	1003.5	1003.5	1007.5	1015.5	1016.5
10°	979.5	983.5	973.5	971.5	982.5	987.5	988.5	990.5	996.5	1007.5	1009.5
12.5°	963.5	967.5	960.5	957.5	969.5	974.5	976.5	980.5	987.5	1001.5	1003.5
15°	949.5	952.5	944.5	942.5	954.5	960.5	961.5	967.5	976.5	992.5	995.5
17.5°	931.5	933.5	927.5	925.5	937.5	943.5	944.5	951.5	962.5	978.5	983.5
20°	910.5	912.5	906.5	904.5	916.5	923.5	924.5	930.5	943.5	960.5	965.5
22.5°	885.5	889.5	882.5	880.5	892.5	898.5	901.5	906.5	919.5	936.5	943.5
25°	859.5	859.5	854.5	853.5	864.5	871.5	870.5	877.5	890.5	907.5	913.5
27.5°	825.4	824.4	819.4	818.4	830.4	836.4	834.4	841.5	853.5	870.5	876.5
30°	780.4	782.4	775.4	773.4	783.4	793.4	792.4	799.4	811.4	827.4	831.4
32.5°	726.4	728.4	727.4	724.4	733.4	738.4	741.4	746.4	756.4	773.4	777.4
35°	675.4	672.4	668.4	668.4	677.4	685.4	682.4	688.4	698.4	715.4	716.4
37.5°	612.3	611.3	609.3	607.3	617.3	619.3	620.3	624.3	633.3	647.3	645.3
40°	546.3	547.3	546.3	542.3	548.3	556.3	555.3	557.3	565.3	575.3	572.3
42.5°	484.3	484.3	484.3	480.3	487.3	491.3	493.3	492.3	494.3	503.3	499.3
45°	425.2	426.2	425.2	424.2	425.2	427.2	425.2	424.2	424.2	427.2	421.2
47.5°	374.2	374.2	371.2	368.2	371.2	372.2	369.2	366.2	365.2	364.2	354.2
50°	328.2	327.2	326.2	321.2	324.2	325.2	321.2	319.2	315.2	310.2	298.2
52.5°	288.2	287.2	286.2	281.2	283.2	284.2	280.2	276.1	271.1	267.1	252.1
55°	254.1	253.1	253.1	250.1	248.1	250.1	246.1	243.1	236.1	231.1	216.1
57.5°	225.1	225.1	223.1	220.1	221.1	221.1	217.1	213.1	207.1	201.1	189.1
60°	200.1	200.1	200.1	197.1	197.1	197.1	195.1	191.1	186.1	180.1	168.1
62.5°	180.1	180.1	179.1	176.1	177.1	177.1	175.1	171.1	166.1	162.1	150.1
65°	164.1	164.1	164.1	161.1	161.1	162.1	160.1	156.1	152.1	147.1	136.1
67.5°	144.1	143.1	143.1	141.1	142.1	143.1	141.1	138.1	133.1	130.1	120.1
70°	119.1	120.1	121.1	118.1	119.1	119.1	118.1	115.1	112.1	109.1	100.1
72.5°	97.1	97.1	96.1	95.1	95.1	96.1	94.1	91.0	89.0	87.0	80.0
75°	74.0	73.0	74.0	72.0	72.0	72.0	70.0	69.0	68.0	65.0	60.0
77.5°	54.0	53.0	53.0	51.0	52.0	52.0	51.0	49.0	47.0	46.0	42.0
80°	37.0	37.0	37.0	36.0	36.0	35.0	35.0	34.0	32.0	31.0	29.0
82.5°	25.0	25.0	25.0	24.0	24.0	24.0	23.0	22.0	21.0	20.0	18.0
85°	16.0	16.0	16.0	15.0	15.0	15.0	14.0	14.0	13.0	12.0	10.0
87.5°	9.0	9.0	9.0	8.0	8.0	8.0	8.0	8.0	7.0	6.0	5.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	1042.6	1028.6	1037.6	1037.6	1034.6	1042.6	1047.6	1051.6	1050.6	1041.6	1040.6
5°	1034.6	1022.5	1032.6	1033.6	1030.6	1041.6	1048.6	1053.6	1054.6	1046.6	1047.6
7.5°	1028.6	1018.5	1031.6	1035.6	1034.6	1044.6	1052.6	1060.6	1064.6	1058.6	1059.6
10°	1025.6	1017.5	1031.6	1037.6	1038.6	1049.6	1061.6	1072.6	1077.6	1073.6	1076.6
12.5°	1021.5	1016.5	1032.6	1041.6	1045.6	1056.6	1071.6	1084.6	1092.6	1090.6	1096.6
15°	1017.5	1013.5	1032.6	1045.6	1050.6	1060.6	1077.6	1096.6	1105.6	1104.6	1112.6
17.5°	1007.5	1006.5	1026.6	1040.6	1047.6	1059.6	1075.6	1098.6	1107.6	1109.6	1119.6
20°	991.5	991.5	1013.5	1028.6	1036.6	1047.6	1067.6	1089.6	1100.6	1102.6	1113.6
22.5°	969.5	971.5	992.5	1007.5	1019.5	1027.6	1048.6	1071.6	1081.6	1084.6	1096.6
25°	940.5	942.5	962.5	977.5	990.5	999.5	1019.5	1040.6	1052.6	1055.6	1064.6
27.5°	902.5	906.5	925.5	940.5	951.5	957.5	978.5	1000.5	1009.5	1012.5	1021.5
30°	858.5	859.5	878.5	891.5	902.5	907.5	925.5	948.5	955.5	958.5	971.5
32.5°	804.4	803.4	821.4	833.4	842.5	848.5	867.5	882.5	889.5	894.5	901.5
35°	739.4	738.4	751.4	765.4	772.4	774.4	793.4	809.4	813.4	817.4	826.4
37.5°	666.4	666.4	677.4	684.4	692.4	695.4	704.4	722.4	729.4	728.4	735.4
40°	589.3	585.3	593.3	600.3	602.3	603.3	612.3	626.3	631.3	631.3	636.3
42.5°	508.3	502.3	503.3	507.3	509.3	502.3	508.3	517.3	514.3	518.3	519.3
45°	422.2	413.2	409.2	400.2	402.2	395.2	391.2	393.2	392.2	382.2	384.2
47.5°	352.2	336.2	329.2	316.2	313.2	305.2	300.2	291.2	283.2	283.2	278.1
50°	293.2	277.1	263.1	248.1	243.1	236.1	225.1	213.1	207.1	201.1	196.1
52.5°	246.1	229.1	212.1	196.1	189.1	180.1	165.1	153.1	142.1	136.1	130.1
55°	208.1	189.1	171.1	154.1	145.1	136.1	121.1	107.1	94.1	86.0	81.0
57.5°	179.1	161.1	142.1	124.1	116.1	106.1	90.0	75.0	63.0	54.0	49.0
60°	158.1	140.1	123.1	104.1	96.1	86.0	69.0	55.0	43.0	35.0	29.0
62.5°	140.1	124.1	106.1	89.0	81.0	71.0	55.0	41.0	30.0	22.0	17.0
65°	127.1	111.1	96.1	79.0	72.0	62.0	47.0	34.0	24.0	17.0	12.0
67.5°	112.1	98.1	83.0	69.0	62.0	54.0	40.0	29.0	20.0	14.0	10.0
70°	94.1	83.0	70.0	57.0	52.0	45.0	33.0	24.0	16.0	11.0	8.0
72.5°	75.0	66.0	56.0	46.0	42.0	35.0	27.0	19.0	12.0	8.0	6.0
75°	57.0	50.0	42.0	35.0	31.0	27.0	20.0	14.0	9.0	6.0	4.0
77.5°	39.0	36.0	30.0	24.0	22.0	19.0	13.0	9.0	6.0	4.0	2.0
80°	27.0	24.0	20.0	16.0	14.0	12.0	8.0	6.0	3.0	2.0	1.0
82.5°	17.0	14.0	12.0	10.0	9.0	7.0	5.0	3.0	2.0	1.0	1.0
85°	9.0	8.0	7.0	5.0	5.0	4.0	3.0	2.0	1.0	0.0	0.0
87.5°	5.0	4.0	3.0	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°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	1052.6	1052.6	1051.6	1063.6	1049.6	1063.6	1056.6	1063.6	1053.6	1052.6	1053.6
5°	1060.6	1063.6	1064.6	1075.6	1062.6	1079.6	1073.6	1079.6	1072.6	1074.6	1077.6
7.5°	1076.6	1081.6	1080.6	1094.6	1081.6	1100.6	1096.6	1105.6	1098.6	1100.6	1104.6
10°	1094.6	1100.6	1101.6	1115.6	1103.6	1126.6	1121.6	1131.6	1125.6	1128.6	1133.6
12.5°	1115.6	1122.6	1123.6	1139.6	1126.6	1150.6	1147.6	1157.6	1152.6	1155.6	1161.6
15°	1131.6	1141.6	1143.6	1159.6	1145.6	1170.6	1168.6	1181.6	1173.6	1178.6	1183.6
17.5°	1139.6	1148.6	1152.6	1167.6	1155.6	1180.6	1178.6	1189.6	1183.6	1188.6	1194.6
20°	1134.6	1145.6	1148.6	1163.6	1151.6	1176.6	1173.6	1184.6	1178.6	1182.6	1188.6
22.5°	1116.6	1127.6	1131.6	1145.6	1134.6	1157.6	1156.6	1166.6	1158.6	1163.6	1168.6
25°	1084.6	1096.6	1098.6	1111.6	1099.6	1123.6	1121.6	1132.6	1126.6	1129.6	1136.6
27.5°	1038.6	1052.6	1055.6	1066.6	1057.6	1077.6	1077.6	1086.6	1079.6	1079.6	1086.6
30°	983.5	997.5	999.5	1008.5	1000.5	1018.5	1019.5	1028.6	1017.5	1023.5	1024.6
32.5°	916.5	925.5	931.5	939.5	927.5	950.5	947.5	954.5	948.5	948.5	953.5
35°	835.4	846.5	849.5	859.5	849.5	867.5	867.5	871.5	865.5	865.5	873.5
37.5°	747.4	755.4	756.4	766.4	758.4	773.4	772.4	775.4	769.4	773.4	773.4
40°	644.3	650.3	652.4	657.4	656.4	667.4	666.4	668.4	665.4	666.4	668.4
42.5°	524.3	532.3	536.3	540.3	534.3	549.3	546.3	549.3	548.3	549.3	552.3
45°	386.2	392.2	395.2	396.2	394.2	403.2	410.2	404.2	405.2	403.2	407.2
47.5°	279.1	280.2	278.1	284.2	279.1	283.2	285.2	286.2	280.2	279.1	283.2
50°	191.1	196.1	189.1	192.1	191.1	195.1	193.1	194.1	188.1	191.1	189.1
52.5°	127.1	126.1	124.1	125.1	123.1	123.1	123.1	125.1	121.1	119.1	117.1
55°	77.0	75.0	71.0	70.0	70.0	71.0	69.0	67.0	67.0	66.0	66.0
57.5°	45.0	42.0	40.0	39.0	37.0	36.0	35.0	35.0	33.0	33.0	33.0
60°	25.0	22.0	20.0	18.0	18.0	17.0	16.0	15.0	15.0	15.0	14.0
62.5°	13.0	11.0	9.0	8.0	8.0	7.0	6.0	6.0	6.0	6.0	5.0
65°	9.0	7.0	6.0	5.0	5.0	4.0	4.0	4.0	4.0	4.0	4.0
67.5°	7.0	6.0	5.0	4.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0
70°	6.0	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
72.5°	4.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
75°	3.0	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: P252143

CATALOG NUMBER: LD6B15D010 EU6B10208035 6LBSW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6	1046.6
2.5°	1062.6	1061.6	1062.6	1064.6	1060.6	1072.6	1066.6	1072.6
5°	1085.6	1086.6	1087.6	1090.6	1085.6	1100.6	1092.6	1101.6
7.5°	1115.6	1116.6	1117.6	1120.6	1117.6	1132.6	1123.6	1131.6
10°	1146.6	1148.6	1148.6	1153.6	1150.6	1164.6	1158.6	1168.6
12.5°	1175.6	1177.6	1179.6	1182.6	1180.6	1195.6	1190.6	1198.6
15°	1198.6	1202.6	1203.6	1207.6	1205.6	1221.7	1215.7	1223.7
17.5°	1209.6	1213.7	1213.7	1218.7	1216.7	1233.7	1225.7	1234.7
20°	1203.6	1206.6	1207.6	1212.7	1210.7	1227.7	1219.7	1230.7
22.5°	1184.6	1185.6	1186.6	1191.6	1190.6	1205.6	1198.6	1205.6
25°	1149.6	1152.6	1151.6	1155.6	1155.6	1167.6	1159.6	1165.6
27.5°	1099.6	1102.6	1102.6	1107.6	1103.6	1115.6	1107.6	1116.6
30°	1038.6	1041.6	1039.6	1043.6	1039.6	1051.6	1045.6	1048.6
32.5°	965.5	965.5	966.5	967.5	965.5	976.5	970.5	976.5
35°	878.5	880.5	881.5	882.5	880.5	888.5	881.5	885.5
37.5°	780.4	785.4	784.4	785.4	782.4	792.4	786.4	788.4
40°	675.4	675.4	674.4	676.4	673.4	681.4	677.4	679.4
42.5°	553.3	556.3	552.3	557.3	549.3	560.3	556.3	553.3
45°	415.2	411.2	410.2	411.2	408.2	409.2	412.2	410.2
47.5°	283.2	283.2	281.2	278.1	282.2	283.2	279.1	279.1
50°	190.1	190.1	188.1	187.1	189.1	188.1	186.1	189.1
52.5°	121.1	117.1	117.1	119.1	117.1	115.1	118.1	116.1
55°	66.0	64.0	64.0	66.0	64.0	64.0	63.0	65.0
57.5°	32.0	33.0	32.0	32.0	32.0	32.0	31.0	32.0
60°	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
62.5°	6.0	6.0	5.0	5.0	5.0	5.0	5.0	5.0
65°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
67.5°	3.0	3.0	3.0	3.0	3.0	4.0	3.0	3.0
70°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
72.5°	3.0	3.0	4.0	4.0	4.0	4.0	4.0	4.0
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



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)