

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: P252283

Luminaire Tested: **LD6B30D010 EU6B30509730 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252283
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30509730 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2039.0 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

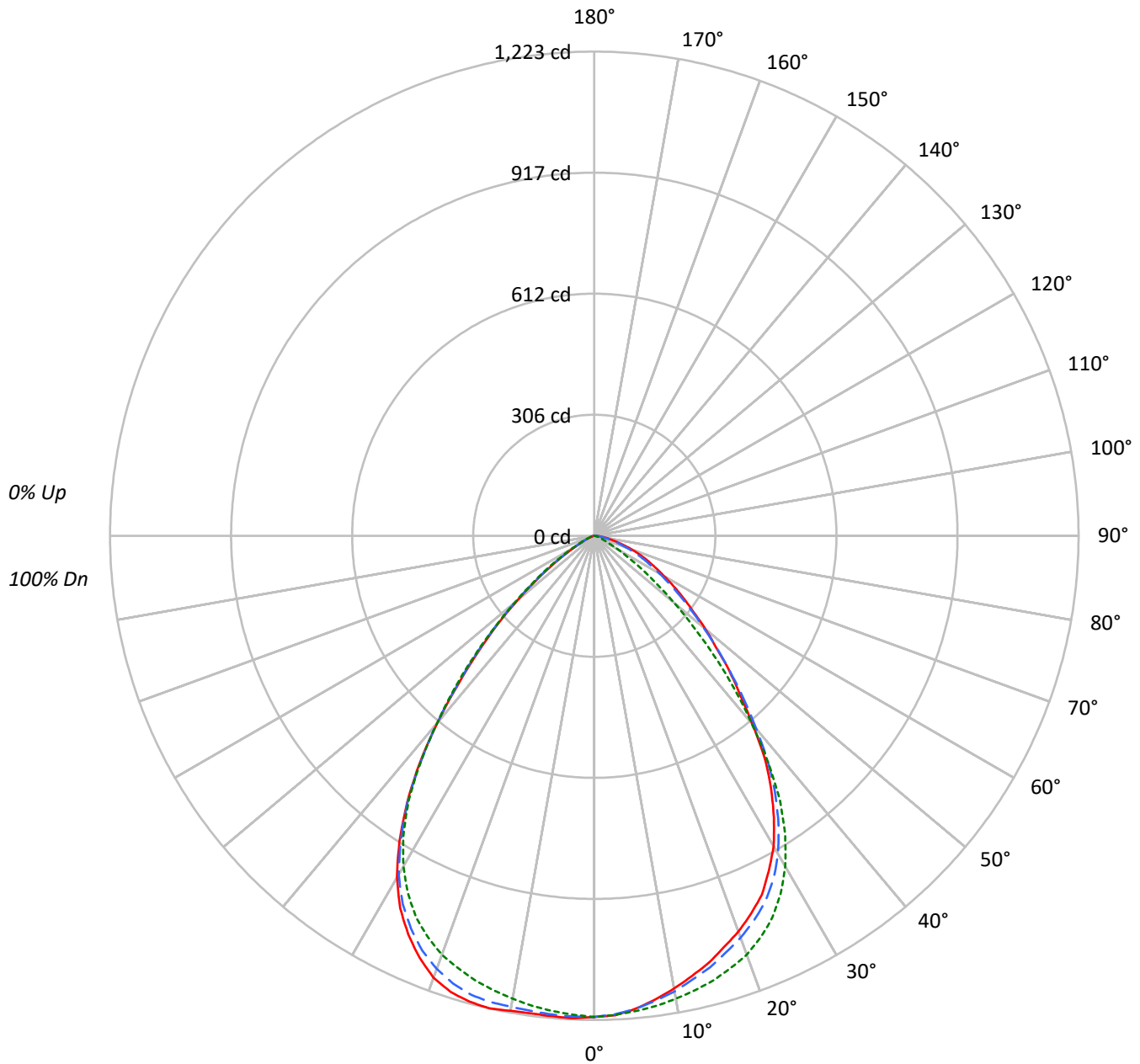
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20							
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						
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90						
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80						
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72						
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64						
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58						
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52						
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47						
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43						
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40						
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37						

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	79293	79293	79293
5°	78535	78922	79786
10°	76919	78668	80709
15°	75444	78518	82287
20°	73885	78162	82445
25°	72064	76607	79990
30°	68229	72652	75085
35°	61963	65117	65698
40°	52879	52632	52377
45°	44425	39406	38188
50°	37097	26663	25323
55°	31223	16356	14855
60°	26436	8625	7464
65°	22893	4539	3628
70°	19037	2804	1965
75°	14066	1840	1109
80°	11046	1090	564
85°	8758	1123	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.5	5.6
10°-20°	328.0	16.1
20°-30°	484.3	23.8
30°-40°	499.1	24.5
40°-50°	344.7	16.9
50°-60°	169.9	8.3
60°-70°	68.8	3.4
70°-80°	24.5	1.2
80°-90°	5.1	0.2
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°	926.8	45.5
0°-40°	1425.9	69.9
0°-60°	1940.5	95.2
0°-90°	2039.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2039.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1215	1215	1215	1215	1215	
5°	1199	1199	1205	1214	1218	113
15°	1117	1129	1162	1201	1218	314
25°	1001	1020	1064	1095	1111	458
35°	778	797	818	822	825	482
45°	482	484	427	421	414	372
55°	274	264	144	135	131	248
65°	148	134	29	24	24	147
75°	56	47	7	4	4	63
85°	12	9	2	0	0	14
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°	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4
2.5°	1212.4	1208.0	1211.0	1205.1	1212.4	1205.1	1206.6	1208.0	1206.6	1208.0	1209.5
5°	1199.2	1194.8	1199.2	1191.9	1199.2	1194.8	1194.8	1196.3	1196.3	1197.8	1199.2
7.5°	1181.6	1177.2	1181.6	1174.3	1183.1	1178.7	1178.7	1181.6	1180.1	1181.6	1184.5
10°	1161.1	1155.2	1159.6	1155.2	1164.0	1158.1	1161.1	1161.1	1161.1	1165.5	1168.4
12.5°	1139.0	1133.2	1139.0	1131.7	1140.5	1136.1	1137.6	1142.0	1143.4	1146.4	1147.8
15°	1117.0	1109.7	1112.6	1108.2	1117.0	1112.6	1114.1	1120.0	1120.0	1124.4	1128.8
17.5°	1089.1	1083.3	1089.1	1083.3	1090.6	1087.7	1090.6	1095.0	1095.0	1099.4	1103.8
20°	1064.2	1058.3	1062.7	1058.3	1067.1	1062.7	1064.2	1070.1	1071.5	1075.9	1080.3
22.5°	1033.4	1029.0	1031.9	1027.5	1036.3	1033.4	1034.8	1040.7	1042.2	1045.1	1052.4
25°	1001.1	992.3	996.7	993.7	1002.5	998.1	1001.1	1006.9	1009.9	1014.3	1020.1
27.5°	954.1	949.7	952.6	952.6	960.0	955.6	957.0	962.9	967.3	971.7	979.0
30°	905.7	898.3	901.3	902.7	908.6	905.7	908.6	914.5	915.9	921.8	927.7
32.5°	844.0	841.1	846.9	844.0	846.9	846.9	848.4	852.8	855.7	858.7	866.0
35°	778.0	772.1	778.0	775.0	782.4	778.0	782.4	786.8	786.8	792.6	797.0
37.5°	706.0	698.7	701.6	701.6	704.6	703.1	703.1	710.4	711.9	716.3	720.7
40°	620.9	618.0	623.8	622.4	623.8	623.8	625.3	629.7	632.6	634.1	635.6
42.5°	544.6	546.0	547.5	547.5	547.5	547.5	547.5	553.4	551.9	556.3	557.8
45°	481.5	475.6	478.5	477.0	481.5	477.0	481.5	485.9	482.9	487.3	484.4
47.5°	416.9	416.9	416.9	415.4	418.3	416.9	419.8	421.3	421.3	421.3	419.8
50°	365.5	361.1	362.6	362.6	364.0	362.6	365.5	367.0	367.0	364.0	358.2
52.5°	315.6	314.1	314.1	317.1	317.1	315.6	315.6	315.6	315.6	311.2	308.2
55°	274.5	271.5	273.0	273.0	273.0	273.0	274.5	273.0	273.0	268.6	264.2
57.5°	237.8	234.9	234.9	234.9	236.3	234.9	234.9	234.9	233.4	229.0	223.1
60°	202.6	201.1	202.6	202.6	204.0	202.6	202.6	202.6	199.6	195.2	189.4
62.5°	173.2	173.2	173.2	174.7	174.7	173.2	173.2	171.7	170.3	164.4	158.5
65°	148.3	146.8	148.3	148.3	149.7	149.7	148.3	146.8	145.3	139.4	133.6
67.5°	123.3	121.8	123.3	123.3	124.8	123.3	123.3	123.3	118.9	116.0	110.1
70°	99.8	98.3	98.3	98.3	99.8	96.9	98.3	98.3	95.4	91.0	85.1
72.5°	76.3	76.3	76.3	76.3	76.3	76.3	74.9	74.9	71.9	67.5	64.6
75°	55.8	55.8	57.2	57.2	55.8	55.8	55.8	54.3	52.8	49.9	47.0
77.5°	41.1	41.1	41.1	41.1	39.6	39.6	39.6	38.2	36.7	35.2	32.3
80°	29.4	29.4	29.4	27.9	29.4	27.9	27.9	27.9	25.0	23.5	22.0
82.5°	20.5	19.1	19.1	19.1	19.1	19.1	19.1	17.6	17.6	16.1	14.7
85°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	10.3	8.8	8.8
87.5°	5.9	7.3	7.3	7.3	7.3	7.3	7.3	5.9	5.9	5.9	4.4
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°	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4
2.5°	1209.5	1209.5	1212.4	1208.0	1215.4	1211.0	1209.5	1216.8	1212.4	1211.0	1213.9
5°	1199.2	1200.7	1202.2	1199.2	1206.6	1202.2	1202.2	1209.5	1206.6	1205.1	1209.5
7.5°	1186.0	1187.5	1190.4	1188.9	1194.8	1191.9	1193.4	1200.7	1197.8	1197.8	1202.2
10°	1169.9	1172.8	1175.7	1175.7	1183.1	1180.1	1180.1	1188.9	1186.0	1187.5	1193.4
12.5°	1150.8	1155.2	1159.6	1161.1	1168.4	1164.0	1165.5	1175.7	1174.3	1175.7	1181.6
15°	1130.2	1136.1	1140.5	1140.5	1149.3	1144.9	1149.3	1159.6	1156.7	1162.5	1169.9
17.5°	1106.7	1112.6	1118.5	1120.0	1128.8	1125.8	1131.7	1142.0	1142.0	1144.9	1153.7
20°	1084.7	1092.1	1095.0	1099.4	1108.2	1106.7	1109.7	1121.4	1121.4	1125.8	1134.6
22.5°	1055.4	1062.7	1068.6	1073.0	1080.3	1080.3	1084.7	1095.0	1095.0	1097.9	1106.7
25°	1023.1	1031.9	1036.3	1040.7	1048.0	1046.6	1051.0	1059.8	1061.2	1064.2	1073.0
27.5°	982.0	989.3	995.2	998.1	1008.4	1002.5	1006.9	1017.2	1015.7	1018.7	1026.0
30°	930.6	937.9	943.8	943.8	952.6	952.6	957.0	961.4	961.4	964.4	970.2
32.5°	870.4	879.2	879.2	883.6	889.5	883.6	889.5	895.4	892.4	896.8	901.3
35°	801.4	805.8	807.3	807.3	811.7	810.2	808.8	813.2	810.2	817.6	822.0
37.5°	717.8	723.6	720.7	723.6	722.2	717.8	717.8	725.1	719.2	720.7	725.1
40°	637.0	637.0	635.6	628.2	629.7	625.3	623.8	625.3	619.4	618.0	623.8
42.5°	553.4	551.9	547.5	537.2	538.7	531.4	525.5	525.5	522.6	521.1	522.6
45°	478.5	474.1	466.8	455.0	452.1	446.2	434.5	431.5	427.1	427.1	428.6
47.5°	409.5	403.7	391.9	378.7	371.4	364.0	352.3	347.9	340.5	337.6	340.5
50°	352.3	342.0	327.3	308.2	300.9	292.1	280.4	273.0	265.7	262.7	261.3
52.5°	299.4	284.8	270.1	246.6	240.7	231.9	215.8	208.4	201.1	195.2	195.2
55°	253.9	240.7	220.2	198.2	189.4	180.5	164.4	154.1	146.8	143.8	140.9
57.5°	212.8	198.2	179.1	155.6	146.8	138.0	121.8	111.6	104.2	99.8	96.9
60°	179.1	162.9	143.8	123.3	113.0	104.2	88.1	77.8	70.5	66.1	63.1
62.5°	146.8	133.6	114.5	95.4	86.6	77.8	64.6	54.3	47.0	44.0	39.6
65°	123.3	110.1	92.5	76.3	69.0	60.2	48.4	39.6	33.8	29.4	26.4
67.5°	99.8	89.5	74.9	60.2	52.8	47.0	36.7	29.4	23.5	20.5	19.1
70°	79.3	69.0	57.2	45.5	41.1	35.2	27.9	20.5	17.6	14.7	13.2
72.5°	58.7	51.4	42.6	33.8	29.4	26.4	19.1	16.1	11.7	10.3	8.8
75°	42.6	36.7	30.8	23.5	20.5	19.1	14.7	10.3	8.8	7.3	5.9
77.5°	29.4	26.4	20.5	16.1	14.7	13.2	10.3	7.3	5.9	4.4	4.4
80°	19.1	16.1	13.2	10.3	10.3	8.8	5.9	4.4	4.4	2.9	2.9
82.5°	11.7	10.3	8.8	7.3	5.9	5.9	4.4	2.9	2.9	1.5	1.5
85°	7.3	5.9	4.4	4.4	2.9	2.9	2.9	1.5	1.5	1.5	1.5
87.5°	2.9	2.9	2.9	1.5	1.5	1.5	1.5	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4
2.5°	1213.9	1213.9	1216.8	1212.4	1215.4	1215.4	1218.3	1212.4	1215.4	1216.8	1219.8
5°	1208.0	1209.5	1212.4	1211.0	1212.4	1212.4	1215.4	1208.0	1213.9	1213.9	1218.3
7.5°	1202.2	1202.2	1205.1	1203.6	1206.6	1208.0	1211.0	1205.1	1211.0	1211.0	1215.4
10°	1194.8	1194.8	1199.2	1197.8	1202.2	1203.6	1208.0	1202.2	1208.0	1209.5	1213.9
12.5°	1184.5	1186.0	1190.4	1190.4	1194.8	1197.8	1202.2	1199.2	1206.6	1208.0	1213.9
15°	1172.8	1175.7	1181.6	1180.1	1184.5	1188.9	1194.8	1190.4	1200.7	1203.6	1209.5
17.5°	1158.1	1161.1	1165.5	1165.5	1169.9	1172.8	1180.1	1177.2	1186.0	1187.5	1194.8
20°	1136.1	1140.5	1146.4	1144.9	1149.3	1152.3	1158.1	1155.2	1164.0	1166.9	1174.3
22.5°	1109.7	1112.6	1117.0	1117.0	1121.4	1124.4	1130.2	1125.8	1134.6	1136.1	1142.0
25°	1074.5	1077.4	1080.3	1081.8	1086.2	1087.7	1090.6	1087.7	1095.0	1096.5	1103.8
27.5°	1029.0	1030.4	1034.8	1034.8	1037.8	1039.2	1043.6	1037.8	1048.0	1048.0	1052.4
30°	974.6	973.2	979.0	976.1	979.0	979.0	983.5	980.5	987.9	984.9	989.3
32.5°	902.7	905.7	905.7	902.7	908.6	907.1	907.1	904.2	908.6	910.1	913.0
35°	819.1	823.5	823.5	824.9	826.4	822.0	823.5	814.6	822.0	823.5	824.9
37.5°	728.0	723.6	726.6	722.2	729.5	720.7	720.7	714.8	720.7	720.7	722.2
40°	623.8	622.4	625.3	622.4	620.9	619.4	616.5	612.1	618.0	615.0	619.4
42.5°	525.5	524.0	524.0	521.1	519.6	519.6	516.7	513.7	512.3	512.3	519.6
45°	424.2	427.1	424.2	422.7	425.7	422.7	424.2	418.3	421.3	418.3	421.3
47.5°	339.1	340.5	337.6	334.7	339.1	334.7	334.7	330.3	336.1	336.1	333.2
50°	262.7	261.3	258.3	261.3	259.8	259.8	259.8	255.4	258.3	253.9	256.9
52.5°	193.8	192.3	192.3	190.8	192.3	190.8	190.8	189.4	189.4	187.9	189.4
55°	140.9	139.4	136.5	136.5	136.5	138.0	136.5	135.0	135.0	133.6	135.0
57.5°	95.4	92.5	92.5	92.5	92.5	91.0	91.0	89.5	91.0	89.5	91.0
60°	61.6	61.6	58.7	58.7	58.7	58.7	58.7	57.2	58.7	58.7	58.7
62.5°	38.2	38.2	36.7	35.2	36.7	35.2	35.2	35.2	36.7	35.2	36.7
65°	25.0	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
67.5°	17.6	16.1	16.1	16.1	16.1	16.1	16.1	14.7	16.1	16.1	16.1
70°	11.7	11.7	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
72.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
75°	5.9	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
77.5°	4.4	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
80°	2.9	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	1.5	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	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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: P252283

CATALOG NUMBER: LD6B30D010 EU6B30509730 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4	1215.4
2.5°	1215.4	1216.8	1213.9	1215.4	1212.4	1215.4	1216.8	1219.8
5°	1212.4	1213.9	1211.0	1213.9	1211.0	1213.9	1215.4	1218.3
7.5°	1209.5	1212.4	1209.5	1212.4	1209.5	1212.4	1213.9	1216.8
10°	1209.5	1213.9	1211.0	1215.4	1211.0	1213.9	1216.8	1218.3
12.5°	1209.5	1213.9	1212.4	1215.4	1213.9	1216.8	1219.8	1222.7
15°	1206.6	1211.0	1208.0	1212.4	1211.0	1212.4	1218.3	1218.3
17.5°	1190.4	1194.8	1194.8	1197.8	1197.8	1202.2	1205.1	1208.0
20°	1169.9	1174.3	1172.8	1177.2	1177.2	1181.6	1184.5	1187.5
22.5°	1139.0	1144.9	1143.4	1147.8	1146.4	1149.3	1155.2	1153.7
25°	1099.4	1106.7	1105.3	1108.2	1106.7	1106.7	1109.7	1111.2
27.5°	1051.0	1055.4	1053.9	1056.8	1053.9	1056.8	1059.8	1061.2
30°	987.9	990.8	989.3	990.8	989.3	992.3	993.7	996.7
32.5°	911.5	915.9	911.5	914.5	913.0	913.0	918.9	915.9
35°	820.5	822.0	823.5	823.5	820.5	822.0	824.9	824.9
37.5°	719.2	726.6	717.8	722.2	720.7	720.7	720.7	725.1
40°	613.6	615.0	612.1	612.1	612.1	610.6	616.5	615.0
42.5°	513.7	515.2	513.7	509.3	510.8	510.8	515.2	509.3
45°	416.9	419.8	418.3	418.3	415.4	415.4	416.9	413.9
47.5°	330.3	333.2	328.8	330.3	327.3	330.3	328.8	331.7
50°	251.0	253.9	252.5	253.9	253.9	251.0	255.4	249.5
52.5°	187.9	189.4	187.9	186.4	184.9	184.9	187.9	186.4
55°	133.6	132.1	132.1	132.1	133.6	133.6	132.1	130.6
57.5°	89.5	89.5	88.1	88.1	89.5	86.6	88.1	86.6
60°	57.2	57.2	57.2	57.2	55.8	57.2	57.2	57.2
62.5°	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
65°	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
67.5°	14.7	16.1	16.1	16.1	14.7	14.7	14.7	14.7
70°	10.3	10.3	10.3	10.3	10.3	10.3	10.3	10.3
72.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
75°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	1.5	1.5	1.5	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)