

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: P252276

Luminaire Tested: **LD6B30D010 EU6B30509024 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252276
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 EU6B30509024 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1974.0 lumens
Efficiency: N/A
Efficacy: 70.5 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

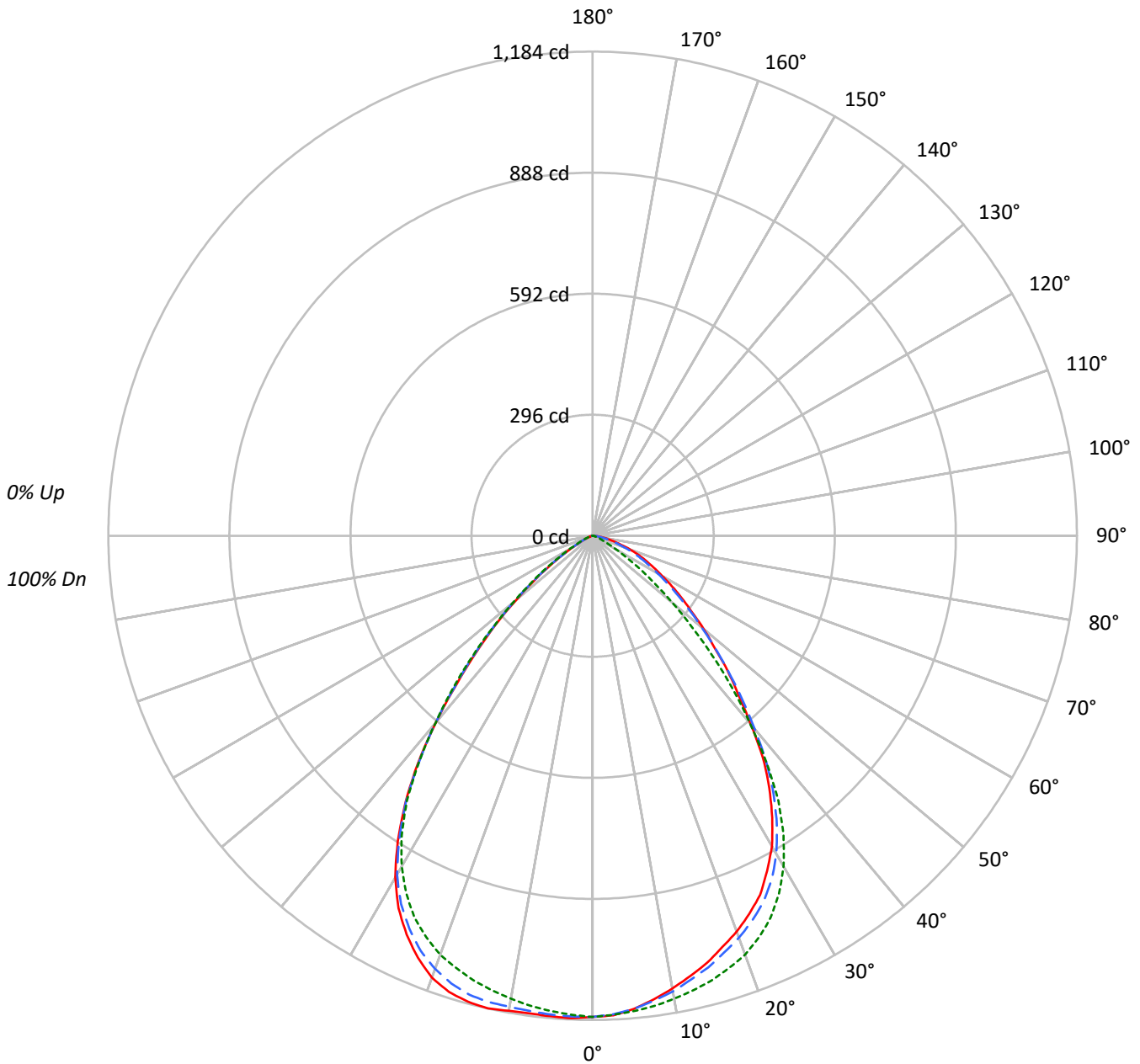
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	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°	76762	76762	76762
5°	76034	76407	77245
10°	74462	76158	78138
15°	73040	76019	79666
20°	71531	75669	79814
25°	69768	74166	77434
30°	66052	70331	72689
35°	59988	63038	63604
40°	51193	50955	50708
45°	43004	38151	36970
50°	35909	25821	24522
55°	30222	15844	14389
60°	25587	8338	7229
65°	22152	4384	3504
70°	18427	2709	1888
75°	13612	1790	1084
80°	10670	1052	526
85°	8533	1048	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	5.6
10°-20°	317.5	16.1
20°-30°	468.9	23.8
30°-40°	483.2	24.5
40°-50°	333.7	16.9
50°-60°	164.5	8.3
60°-70°	66.6	3.4
70°-80°	23.8	1.2
80°-90°	4.9	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°	897.3	45.5
0°-40°	1380.4	69.9
0°-60°	1878.7	95.2
0°-90°	1974.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1974.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1177	1177	1177	1177	1177	
5°	1161	1161	1167	1175	1180	110
15°	1081	1093	1126	1162	1180	304
25°	969	988	1030	1060	1076	443
35°	753	772	792	796	799	467
45°	466	469	414	408	401	360
55°	266	256	139	131	126	240
65°	144	129	28	23	23	143
75°	54	46	7	4	4	61
85°	11	8	1	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°	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1173.8	1169.5	1172.4	1166.7	1173.8	1166.7	1168.1	1169.5	1168.1	1169.5	1170.9
5°	1161.0	1156.7	1161.0	1153.9	1161.0	1156.7	1156.7	1158.2	1158.2	1159.6	1161.0
7.5°	1143.9	1139.7	1143.9	1136.8	1145.4	1141.1	1141.1	1143.9	1142.5	1143.9	1146.8
10°	1124.0	1118.4	1122.6	1118.4	1126.9	1121.2	1124.0	1124.0	1124.0	1128.3	1131.2
12.5°	1102.7	1097.0	1102.7	1095.6	1104.2	1099.9	1101.3	1105.6	1107.0	1109.8	1111.3
15°	1081.4	1074.3	1077.2	1072.9	1081.4	1077.2	1078.6	1084.3	1084.3	1088.5	1092.8
17.5°	1054.4	1048.7	1054.4	1048.7	1055.8	1053.0	1055.8	1060.1	1060.1	1064.4	1068.6
20°	1030.3	1024.6	1028.8	1024.6	1033.1	1028.8	1030.3	1035.9	1037.4	1041.6	1045.9
22.5°	1000.4	996.2	999.0	994.7	1003.3	1000.4	1001.8	1007.5	1008.9	1011.8	1018.9
25°	969.2	960.6	964.9	962.0	970.6	966.3	969.2	974.8	977.7	981.9	987.6
27.5°	923.7	919.4	922.3	922.3	929.4	925.1	926.5	932.2	936.5	940.7	947.8
30°	876.8	869.7	872.5	873.9	879.6	876.8	879.6	885.3	886.7	892.4	898.1
32.5°	817.1	814.3	819.9	817.1	819.9	819.9	821.4	825.6	828.5	831.3	838.4
35°	753.2	747.5	753.2	750.3	757.4	753.2	757.4	761.7	761.7	767.4	771.6
37.5°	683.5	676.4	679.3	679.3	682.1	680.7	680.7	687.8	689.2	693.5	697.7
40°	601.1	598.3	603.9	602.5	603.9	603.9	605.4	609.6	612.5	613.9	615.3
42.5°	527.2	528.6	530.0	530.0	530.0	530.0	530.0	535.7	534.3	538.6	540.0
45°	466.1	460.4	463.3	461.8	466.1	461.8	466.1	470.4	467.5	471.8	468.9
47.5°	403.6	403.6	403.6	402.2	405.0	403.6	406.4	407.8	407.8	407.8	406.4
50°	353.8	349.6	351.0	351.0	352.4	351.0	353.8	355.3	355.3	352.4	346.7
52.5°	305.5	304.1	304.1	306.9	306.9	305.5	305.5	305.5	305.5	301.3	298.4
55°	265.7	262.9	264.3	264.3	264.3	264.3	265.7	264.3	264.3	260.1	255.8
57.5°	230.2	227.4	227.4	227.4	228.8	227.4	227.4	227.4	225.9	221.7	216.0
60°	196.1	194.7	196.1	196.1	197.5	196.1	196.1	196.1	193.3	189.0	183.3
62.5°	167.7	167.7	167.7	169.1	169.1	167.7	167.7	166.3	164.8	159.2	153.5
65°	143.5	142.1	143.5	143.5	144.9	144.9	143.5	142.1	140.7	135.0	129.3
67.5°	119.4	117.9	119.4	119.4	120.8	119.4	119.4	119.4	115.1	112.3	106.6
70°	96.6	95.2	95.2	95.2	96.6	93.8	95.2	95.2	92.4	88.1	82.4
72.5°	73.9	73.9	73.9	73.9	73.9	73.9	72.5	72.5	69.6	65.4	62.5
75°	54.0	54.0	55.4	55.4	54.0	54.0	54.0	52.6	51.2	48.3	45.5
77.5°	39.8	39.8	39.8	39.8	38.4	38.4	38.4	36.9	35.5	34.1	31.3
80°	28.4	28.4	28.4	27.0	28.4	27.0	27.0	27.0	24.2	22.7	21.3
82.5°	19.9	18.5	18.5	18.5	18.5	18.5	18.5	17.1	17.1	15.6	14.2
85°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	9.9	8.5	8.5
87.5°	5.7	7.1	7.1	7.1	7.1	7.1	7.1	5.7	5.7	5.7	4.3
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°	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1170.9	1170.9	1173.8	1169.5	1176.6	1172.4	1170.9	1178.0	1173.8	1172.4	1175.2
5°	1161.0	1162.4	1163.8	1161.0	1168.1	1163.8	1163.8	1170.9	1168.1	1166.7	1170.9
7.5°	1148.2	1149.6	1152.5	1151.0	1156.7	1153.9	1155.3	1162.4	1159.6	1159.6	1163.8
10°	1132.6	1135.4	1138.3	1138.3	1145.4	1142.5	1142.5	1151.0	1148.2	1149.6	1155.3
12.5°	1114.1	1118.4	1122.6	1124.0	1131.2	1126.9	1128.3	1138.3	1136.8	1138.3	1143.9
15°	1094.2	1099.9	1104.2	1104.2	1112.7	1108.4	1112.7	1122.6	1119.8	1125.5	1132.6
17.5°	1071.5	1077.2	1082.8	1084.3	1092.8	1089.9	1095.6	1105.6	1105.6	1108.4	1116.9
20°	1050.2	1057.3	1060.1	1064.4	1072.9	1071.5	1074.3	1085.7	1085.7	1089.9	1098.5
22.5°	1021.7	1028.8	1034.5	1038.8	1045.9	1045.9	1050.2	1060.1	1060.1	1062.9	1071.5
25°	990.5	999.0	1003.3	1007.5	1014.6	1013.2	1017.5	1026.0	1027.4	1030.3	1038.8
27.5°	950.7	957.8	963.5	966.3	976.3	970.6	974.8	984.8	983.4	986.2	993.3
30°	900.9	908.0	913.7	913.7	922.3	922.3	926.5	930.8	930.8	933.6	939.3
32.5°	842.7	851.2	851.2	855.5	861.2	855.5	861.2	866.8	864.0	868.3	872.5
35°	775.9	780.2	781.6	781.6	785.8	784.4	783.0	787.3	784.4	791.5	795.8
37.5°	694.9	700.6	697.7	700.6	699.2	694.9	694.9	702.0	696.3	697.7	702.0
40°	616.7	616.7	615.3	608.2	609.6	605.4	603.9	605.4	599.7	598.3	603.9
42.5°	535.7	534.3	530.0	520.1	521.5	514.4	508.7	508.7	505.9	504.5	505.9
45°	463.3	459.0	451.9	440.5	437.7	432.0	420.6	417.8	413.5	413.5	414.9
47.5°	396.5	390.8	379.4	366.6	359.5	352.4	341.1	336.8	329.7	326.8	329.7
50°	341.1	331.1	316.9	298.4	291.3	282.8	271.4	264.3	257.2	254.4	252.9
52.5°	289.9	275.7	261.5	238.7	233.1	224.5	208.9	201.8	194.7	189.0	189.0
55°	245.8	233.1	213.2	191.8	183.3	174.8	159.2	149.2	142.1	139.3	136.4
57.5°	206.1	191.8	173.4	150.6	142.1	133.6	117.9	108.0	100.9	96.6	93.8
60°	173.4	157.7	139.3	119.4	109.4	100.9	85.3	75.3	68.2	63.9	61.1
62.5°	142.1	129.3	110.8	92.4	83.8	75.3	62.5	52.6	45.5	42.6	38.4
65°	119.4	106.6	89.5	73.9	66.8	58.3	46.9	38.4	32.7	28.4	25.6
67.5°	96.6	86.7	72.5	58.3	51.2	45.5	35.5	28.4	22.7	19.9	18.5
70°	76.7	66.8	55.4	44.1	39.8	34.1	27.0	19.9	17.1	14.2	12.8
72.5°	56.8	49.7	41.2	32.7	28.4	25.6	18.5	15.6	11.4	9.9	8.5
75°	41.2	35.5	29.8	22.7	19.9	18.5	14.2	9.9	8.5	7.1	5.7
77.5°	28.4	25.6	19.9	15.6	14.2	12.8	9.9	7.1	5.7	4.3	4.3
80°	18.5	15.6	12.8	9.9	9.9	8.5	5.7	4.3	4.3	2.8	2.8
82.5°	11.4	9.9	8.5	7.1	5.7	5.7	4.3	2.8	2.8	1.4	1.4
85°	7.1	5.7	4.3	4.3	2.8	2.8	2.8	1.4	1.4	1.4	1.4
87.5°	2.8	2.8	2.8	1.4	1.4	1.4	1.4	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°	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1175.2	1175.2	1178.0	1173.8	1176.6	1176.6	1179.5	1173.8	1176.6	1178.0	1180.9
5°	1169.5	1170.9	1173.8	1172.4	1173.8	1173.8	1176.6	1169.5	1175.2	1175.2	1179.5
7.5°	1163.8	1163.8	1166.7	1165.3	1168.1	1169.5	1172.4	1166.7	1172.4	1172.4	1176.6
10°	1156.7	1156.7	1161.0	1159.6	1163.8	1165.3	1169.5	1163.8	1169.5	1170.9	1175.2
12.5°	1146.8	1148.2	1152.5	1152.5	1156.7	1159.6	1163.8	1161.0	1168.1	1169.5	1175.2
15°	1135.4	1138.3	1143.9	1142.5	1146.8	1151.0	1156.7	1152.5	1162.4	1165.3	1170.9
17.5°	1121.2	1124.0	1128.3	1128.3	1132.6	1135.4	1142.5	1139.7	1148.2	1149.6	1156.7
20°	1099.9	1104.2	1109.8	1108.4	1112.7	1115.5	1121.2	1118.4	1126.9	1129.7	1136.8
22.5°	1074.3	1077.2	1081.4	1081.4	1085.7	1088.5	1094.2	1089.9	1098.5	1099.9	1105.6
25°	1040.2	1043.0	1045.9	1047.3	1051.6	1053.0	1055.8	1053.0	1060.1	1061.5	1068.6
27.5°	996.2	997.6	1001.8	1001.8	1004.7	1006.1	1010.4	1004.7	1014.6	1014.6	1018.9
30°	943.6	942.2	947.8	945.0	947.8	947.8	952.1	949.3	956.4	953.5	957.8
32.5°	873.9	876.8	876.8	873.9	879.6	878.2	878.2	875.4	879.6	881.0	883.9
35°	792.9	797.2	797.2	798.6	800.0	795.8	797.2	788.7	795.8	797.2	798.6
37.5°	704.8	700.6	703.4	699.2	706.3	697.7	697.7	692.0	697.7	697.7	699.2
40°	603.9	602.5	605.4	602.5	601.1	599.7	596.8	592.6	598.3	595.4	599.7
42.5°	508.7	507.3	507.3	504.5	503.1	503.1	500.2	497.4	495.9	495.9	503.1
45°	410.7	413.5	410.7	409.3	412.1	409.3	410.7	405.0	407.8	405.0	407.8
47.5°	328.3	329.7	326.8	324.0	328.3	324.0	324.0	319.7	325.4	325.4	322.6
50°	254.4	252.9	250.1	252.9	251.5	251.5	251.5	247.3	250.1	245.8	248.7
52.5°	187.6	186.2	186.2	184.7	186.2	184.7	184.7	183.3	183.3	181.9	183.3
55°	136.4	135.0	132.2	132.2	132.2	133.6	132.2	130.7	130.7	129.3	130.7
57.5°	92.4	89.5	89.5	89.5	89.5	88.1	88.1	86.7	88.1	86.7	88.1
60°	59.7	59.7	56.8	56.8	56.8	56.8	56.8	55.4	56.8	56.8	56.8
62.5°	36.9	36.9	35.5	34.1	35.5	34.1	34.1	34.1	35.5	34.1	35.5
65°	24.2	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
67.5°	17.1	15.6	15.6	15.6	15.6	15.6	15.6	14.2	15.6	15.6	15.6
70°	11.4	11.4	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
72.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
75°	5.7	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	4.3	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
80°	2.8	2.8	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°	1.4	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	1.4	1.4	1.4	1.4	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: P252276

CATALOG NUMBER: LD6B30D010 EU6B30509024 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6	1176.6
2.5°	1176.6	1178.0	1175.2	1176.6	1173.8	1176.6	1178.0	1180.9
5°	1173.8	1175.2	1172.4	1175.2	1172.4	1175.2	1176.6	1179.5
7.5°	1170.9	1173.8	1170.9	1173.8	1170.9	1173.8	1175.2	1178.0
10°	1170.9	1175.2	1172.4	1176.6	1172.4	1175.2	1178.0	1179.5
12.5°	1170.9	1175.2	1173.8	1176.6	1175.2	1178.0	1180.9	1183.7
15°	1168.1	1172.4	1169.5	1173.8	1172.4	1173.8	1179.5	1179.5
17.5°	1152.5	1156.7	1156.7	1159.6	1159.6	1163.8	1166.7	1169.5
20°	1132.6	1136.8	1135.4	1139.7	1139.7	1143.9	1146.8	1149.6
22.5°	1102.7	1108.4	1107.0	1111.3	1109.8	1112.7	1118.4	1116.9
25°	1064.4	1071.5	1070.0	1072.9	1071.5	1071.5	1074.3	1075.7
27.5°	1017.5	1021.7	1020.3	1023.2	1020.3	1023.2	1026.0	1027.4
30°	956.4	959.2	957.8	959.2	957.8	960.6	962.0	964.9
32.5°	882.5	886.7	882.5	885.3	883.9	883.9	889.6	886.7
35°	794.4	795.8	797.2	797.2	794.4	795.8	798.6	798.6
37.5°	696.3	703.4	694.9	699.2	697.7	697.7	697.7	702.0
40°	594.0	595.4	592.6	592.6	592.6	591.2	596.8	595.4
42.5°	497.4	498.8	497.4	493.1	494.5	494.5	498.8	493.1
45°	403.6	406.4	405.0	405.0	402.2	402.2	403.6	400.7
47.5°	319.7	322.6	318.3	319.7	316.9	319.7	318.3	321.2
50°	243.0	245.8	244.4	245.8	245.8	243.0	247.3	241.6
52.5°	181.9	183.3	181.9	180.5	179.1	179.1	181.9	180.5
55°	129.3	127.9	127.9	127.9	129.3	129.3	127.9	126.5
57.5°	86.7	86.7	85.3	85.3	86.7	83.8	85.3	83.8
60°	55.4	55.4	55.4	55.4	54.0	55.4	55.4	55.4
62.5°	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1
65°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
67.5°	14.2	15.6	15.6	15.6	14.2	14.2	14.2	14.2
70°	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9
72.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
75°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
77.5°	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
82.5°	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	0.0
87.5°	1.4	1.4	1.4	1.4	1.4	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)