

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: P252485

Luminaire Tested: **LD6B30D010 EU6B30509027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252485
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30509027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2061.0 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

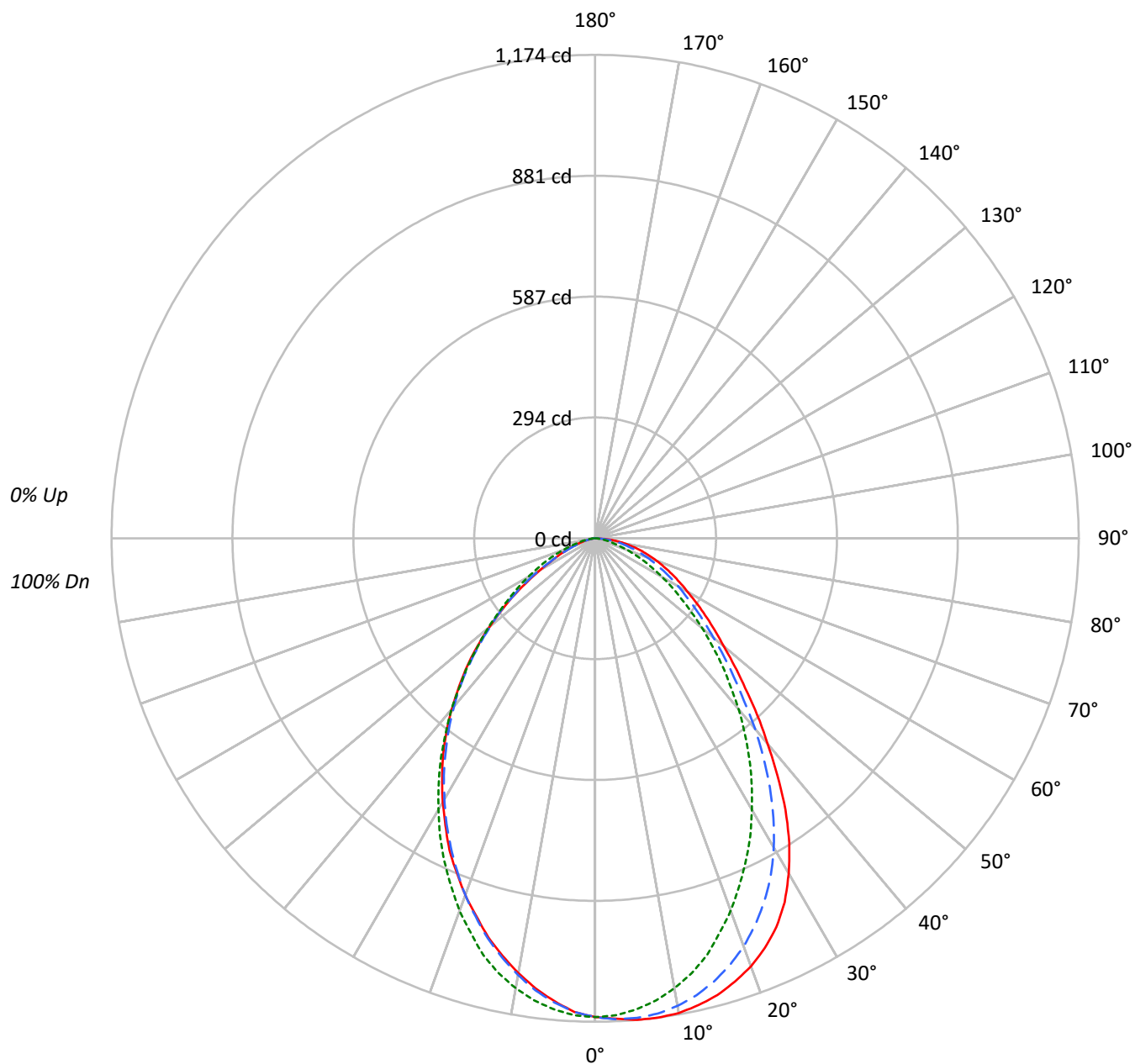
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	103	100	108	105	101	99		100	98	96		97	95	93		93	91	90
2	103	96	90	85	100	94	89	84		90	86	82		87	84	80		84	81	79
3	95	86	79	73	93	84	78	73		81	76	71		79	74	70		76	72	69
4	88	78	70	64	86	76	69	64		74	68	63		72	66	62		70	65	61
5	82	70	62	57	80	69	62	56		67	61	56		65	60	55		64	59	55
6	76	64	56	51	74	63	56	50		62	55	50		60	54	50		59	53	49
7	71	59	51	46	69	58	51	45		57	50	45		55	49	45		54	49	45
8	67	54	47	41	65	54	46	41		52	46	41		51	45	41		50	45	41
9	63	50	43	38	61	50	43	38		49	42	37		48	42	37		47	41	37
10	59	47	39	35	58	46	39	35		45	39	34		44	38	34		44	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	75855	75855	75855
5°	76885	75195	73925
10°	77562	73494	71037
15°	77552	70791	67731
20°	76801	66824	64019
25°	74980	62310	60216
30°	70806	57299	55717
35°	64177	51960	51315
40°	55426	46211	46075
45°	47525	40227	40522
50°	41299	34417	33930
55°	37103	29027	27185
60°	33716	24439	20016
65°	31662	20192	14712
70°	30196	15718	10777
75°	28912	11394	7335
80°	27314	7890	4847
85°	24178	4866	2395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	5.3
10°-20°	297.9	14.5
20°-30°	413.5	20.1
30°-40°	428.3	20.8
40°-50°	352.0	17.1
50°-60°	241.9	11.7
60°-70°	139.1	6.7
70°-80°	63.9	3.1
80°-90°	15.6	0.8
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°	820.2	39.8
0°-40°	1248.5	60.6
0°-60°	1842.4	89.4
0°-90°	2061.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2061.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1163	1163	1163	1163	1163	
5°	1174	1169	1148	1132	1129	112
15°	1148	1114	1048	1006	1003	323
25°	1042	972	866	828	836	477
35°	806	740	652	633	644	500
45°	515	476	436	431	439	401
55°	326	296	255	241	239	294
65°	205	179	131	92	95	204
75°	115	90	45	29	29	121
85°	32	23	6	3	3	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°	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7
2.5°	1167.6	1177.2	1170.8	1169.2	1172.4	1172.4	1172.4	1167.6	1170.8	1165.9	1169.2
5°	1174.0	1182.1	1175.6	1172.4	1175.6	1177.2	1172.4	1169.2	1174.0	1167.6	1169.2
7.5°	1174.0	1182.1	1175.6	1174.0	1175.6	1175.6	1174.0	1167.6	1170.8	1164.3	1164.3
10°	1170.8	1177.2	1170.8	1167.6	1169.2	1167.6	1167.6	1159.5	1161.1	1153.0	1153.0
12.5°	1161.1	1169.2	1161.1	1157.9	1157.9	1157.9	1153.0	1146.6	1148.2	1138.5	1136.9
15°	1148.2	1154.6	1146.6	1143.3	1143.3	1141.7	1138.5	1128.8	1128.8	1119.1	1114.3
17.5°	1128.8	1135.3	1128.8	1124.0	1122.3	1119.1	1115.9	1106.2	1103.0	1091.7	1086.8
20°	1106.2	1111.0	1104.6	1099.7	1096.5	1093.3	1086.8	1077.1	1073.9	1062.6	1054.5
22.5°	1077.1	1083.6	1073.9	1069.0	1065.8	1061.0	1054.5	1044.8	1040.0	1025.4	1015.8
25°	1041.6	1044.8	1036.7	1031.9	1025.4	1022.2	1017.4	1004.5	999.6	983.5	972.2
27.5°	996.4	999.6	989.9	986.7	978.6	975.4	968.9	957.6	951.2	935.0	923.7
30°	939.9	943.1	936.6	931.8	925.3	918.9	914.0	902.7	893.0	876.9	867.2
32.5°	876.9	881.7	875.3	868.8	857.5	859.1	851.0	839.7	831.7	817.1	805.8
35°	805.8	809.1	801.0	799.4	792.9	786.4	778.4	770.3	765.5	749.3	739.6
37.5°	726.7	734.8	726.7	720.2	717.0	712.2	707.3	696.0	692.8	683.1	670.2
40°	650.8	655.6	650.8	644.3	639.5	639.5	633.0	626.6	618.5	608.8	604.0
42.5°	583.0	579.7	578.1	574.9	568.4	566.8	565.2	557.1	552.3	542.6	534.5
45°	515.1	516.8	513.5	511.9	507.1	503.8	500.6	494.2	492.5	482.8	476.4
47.5°	458.6	457.0	453.8	453.8	450.5	447.3	444.1	439.2	437.6	429.6	423.1
50°	406.9	408.6	406.9	405.3	400.5	398.9	395.6	392.4	389.2	381.1	374.7
52.5°	365.0	363.3	361.7	361.7	356.9	355.3	352.0	348.8	345.6	337.5	332.7
55°	326.2	326.2	324.6	323.0	318.1	316.5	314.9	311.7	306.8	300.4	295.5
57.5°	290.7	290.7	289.1	287.4	284.2	284.2	281.0	277.8	274.5	268.1	261.6
60°	258.4	260.0	258.4	256.8	253.5	253.5	251.9	247.1	245.5	237.4	232.5
62.5°	230.9	230.9	230.9	229.3	227.7	224.5	224.5	219.6	216.4	211.5	205.1
65°	205.1	205.1	205.1	203.5	200.2	198.6	197.0	193.8	190.6	185.7	179.3
67.5°	180.9	180.9	180.9	179.3	176.0	174.4	172.8	171.2	166.3	161.5	155.0
70°	158.3	158.3	156.6	155.0	153.4	151.8	150.2	147.0	143.7	137.3	132.4
72.5°	135.6	135.6	135.6	132.4	130.8	130.8	127.6	126.0	122.7	116.3	111.4
75°	114.7	113.0	113.0	111.4	109.8	108.2	106.6	105.0	100.1	96.9	90.4
77.5°	93.7	93.7	92.0	90.4	90.4	88.8	87.2	84.0	82.4	77.5	72.7
80°	72.7	72.7	72.7	72.7	71.1	69.4	69.4	66.2	64.6	59.8	56.5
82.5°	54.9	53.3	53.3	53.3	51.7	50.1	50.1	48.4	46.8	43.6	40.4
85°	32.3	30.7	30.7	30.7	29.1	29.1	27.5	27.5	25.8	22.6	22.6
87.5°	9.7	9.7	11.3	11.3	9.7	9.7	9.7	9.7	9.7	8.1	8.1
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°	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7
2.5°	1165.9	1170.8	1164.3	1162.7	1169.2	1165.9	1164.3	1161.1	1162.7	1159.5	1154.6
5°	1164.3	1170.8	1162.7	1157.9	1165.9	1161.1	1157.9	1154.6	1154.6	1148.2	1144.9
7.5°	1159.5	1162.7	1154.6	1149.8	1154.6	1149.8	1146.6	1141.7	1140.1	1132.0	1127.2
10°	1146.6	1149.8	1140.1	1133.6	1138.5	1132.0	1127.2	1122.3	1119.1	1109.4	1103.0
12.5°	1128.8	1130.4	1119.1	1111.0	1114.3	1109.4	1101.3	1094.9	1091.7	1082.0	1073.9
15°	1104.6	1106.2	1093.3	1082.0	1085.2	1078.7	1069.0	1062.6	1057.7	1048.1	1036.7
17.5°	1075.5	1073.9	1059.4	1048.1	1049.7	1041.6	1031.9	1022.2	1015.8	1004.5	996.4
20°	1043.2	1038.4	1022.2	1009.3	1010.9	1001.2	989.9	980.2	972.2	962.5	951.2
22.5°	1002.8	996.4	981.8	965.7	967.3	959.2	943.1	935.0	926.9	914.0	904.3
25°	959.2	949.5	935.0	918.9	918.9	909.2	896.3	886.6	878.5	865.6	854.3
27.5°	907.6	902.7	883.3	870.4	868.8	859.1	847.8	836.5	826.8	815.5	804.2
30°	851.0	843.0	828.4	813.9	810.7	802.6	791.3	778.4	771.9	760.6	750.9
32.5°	791.3	783.2	767.1	752.5	750.9	744.5	734.8	721.8	715.4	707.3	700.9
35°	723.5	720.2	704.1	692.8	692.8	686.3	676.6	665.3	660.5	652.4	644.3
37.5°	658.9	654.0	639.5	629.8	629.8	621.7	612.0	607.2	602.3	595.9	591.0
40°	591.0	587.8	576.5	566.8	568.4	562.0	555.5	549.1	545.8	542.6	537.8
42.5°	528.1	524.8	516.8	508.7	508.7	503.8	497.4	492.5	489.3	484.5	482.8
45°	471.5	466.7	460.2	452.2	452.2	447.3	444.1	440.9	439.2	436.0	431.2
47.5°	416.6	413.4	406.9	398.9	398.9	398.9	392.4	387.6	387.6	384.3	382.7
50°	369.8	365.0	360.1	353.7	353.7	350.4	345.6	340.7	340.7	339.1	335.9
52.5°	326.2	323.0	316.5	310.1	310.1	306.8	302.0	300.4	298.8	293.9	292.3
55°	289.1	285.8	281.0	272.9	271.3	269.7	264.8	261.6	260.0	255.2	255.2
57.5°	255.2	251.9	243.8	239.0	237.4	234.2	229.3	226.1	224.5	221.2	218.0
60°	226.1	221.2	214.8	208.3	206.7	203.5	198.6	195.4	193.8	187.3	184.1
62.5°	198.6	193.8	187.3	180.9	179.3	176.0	169.6	166.3	163.1	156.6	153.4
65°	172.8	167.9	161.5	155.0	151.8	150.2	143.7	138.9	135.6	130.8	124.3
67.5°	148.6	143.7	137.3	129.2	129.2	124.3	119.5	114.7	109.8	105.0	100.1
70°	126.0	121.1	114.7	108.2	106.6	103.4	98.5	92.0	88.8	82.4	77.5
72.5°	105.0	100.1	93.7	87.2	85.6	82.4	77.5	71.1	66.2	61.4	56.5
75°	85.6	80.7	74.3	69.4	67.8	64.6	59.8	53.3	48.4	45.2	40.4
77.5°	67.8	63.0	58.1	53.3	51.7	48.4	43.6	40.4	35.5	32.3	27.5
80°	51.7	48.4	43.6	40.4	38.8	35.5	32.3	27.5	24.2	21.0	19.4
82.5°	37.1	33.9	30.7	25.8	25.8	22.6	21.0	17.8	14.5	12.9	11.3
85°	21.0	17.8	16.1	14.5	12.9	12.9	11.3	9.7	8.1	6.5	6.5
87.5°	6.5	6.5	4.8	4.8	4.8	4.8	3.2	3.2	3.2	3.2	3.2
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°	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7
2.5°	1154.6	1156.2	1153.0	1156.2	1153.0	1154.6	1151.4	1154.6	1151.4	1154.6	1148.2
5°	1143.3	1143.3	1138.5	1141.7	1138.5	1140.1	1133.6	1135.3	1132.0	1135.3	1128.8
7.5°	1124.0	1125.6	1117.5	1120.7	1115.9	1115.9	1111.0	1112.6	1107.8	1109.4	1104.6
10°	1101.3	1099.7	1091.7	1094.9	1088.4	1088.4	1083.6	1083.6	1077.1	1078.7	1072.3
12.5°	1069.0	1067.4	1057.7	1061.0	1054.5	1054.5	1049.7	1049.7	1043.2	1046.4	1040.0
15°	1031.9	1030.3	1020.6	1022.2	1015.8	1015.8	1009.3	1010.9	1006.1	1009.3	1002.8
17.5°	989.9	988.3	978.6	980.2	972.2	973.8	968.9	967.3	964.1	965.7	960.8
20°	946.3	943.1	933.4	935.0	931.8	926.9	923.7	925.3	922.1	925.3	920.5
22.5°	901.1	894.6	886.6	886.6	883.3	883.3	878.5	881.7	875.3	880.1	876.9
25°	849.4	844.6	838.1	841.3	834.9	834.9	830.0	831.7	828.4	831.7	828.4
27.5°	799.4	796.1	786.4	789.7	784.8	786.4	781.6	783.2	781.6	784.8	781.6
30°	746.1	744.5	738.0	738.0	736.4	734.8	733.2	733.2	731.5	736.4	733.2
32.5°	696.0	691.2	684.7	689.6	681.5	686.3	683.1	686.3	683.1	686.3	684.7
35°	644.3	642.7	634.6	636.3	634.6	634.6	633.0	633.0	633.0	637.9	637.9
37.5°	589.4	587.8	583.0	584.6	581.4	579.7	579.7	583.0	583.0	586.2	586.2
40°	536.1	537.8	532.9	532.9	531.3	531.3	531.3	534.5	532.9	536.1	534.5
42.5°	482.8	482.8	478.0	479.6	478.0	479.6	479.6	482.8	482.8	484.5	482.8
45°	432.8	432.8	431.2	432.8	429.6	431.2	429.6	432.8	431.2	432.8	432.8
47.5°	382.7	382.7	382.7	381.1	381.1	381.1	381.1	381.1	379.5	382.7	381.1
50°	335.9	337.5	335.9	335.9	334.3	335.9	334.3	334.3	331.0	332.7	332.7
52.5°	293.9	293.9	290.7	290.7	290.7	289.1	289.1	289.1	287.4	287.4	284.2
55°	253.5	253.5	250.3	250.3	248.7	247.1	245.5	245.5	240.6	240.6	235.8
57.5°	216.4	214.8	209.9	209.9	206.7	205.1	203.5	201.9	198.6	195.4	193.8
60°	182.5	179.3	176.0	174.4	171.2	167.9	164.7	161.5	158.3	156.6	155.0
62.5°	150.2	145.3	142.1	140.5	137.3	132.4	129.2	126.0	122.7	121.1	117.9
65°	121.1	116.3	111.4	109.8	106.6	103.4	98.5	95.3	92.0	90.4	90.4
67.5°	95.3	90.4	84.0	84.0	80.7	77.5	74.3	71.1	69.4	71.1	71.1
70°	71.1	67.8	63.0	61.4	58.1	54.9	53.3	53.3	53.3	54.9	53.3
72.5°	53.3	48.4	45.2	43.6	42.0	40.4	40.4	40.4	38.8	40.4	40.4
75°	37.1	33.9	30.7	30.7	29.1	29.1	29.1	29.1	29.1	29.1	29.1
77.5°	25.8	22.6	21.0	21.0	21.0	19.4	19.4	19.4	19.4	19.4	19.4
80°	16.1	16.1	14.5	14.5	12.9	12.9	12.9	12.9	12.9	12.9	12.9
82.5°	9.7	9.7	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
85°	4.8	4.8	4.8	4.8	4.8	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2
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: P252485

CATALOG NUMBER: LD6B30D010 EU6B30509027 6LBLWW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7	1162.7
2.5°	1148.2	1153.0	1146.6	1151.4	1149.8	1148.2	1144.9	1151.4
5°	1128.8	1130.4	1124.0	1130.4	1128.8	1125.6	1122.3	1128.8
7.5°	1101.3	1106.2	1098.1	1104.6	1103.0	1099.7	1096.5	1103.0
10°	1070.7	1075.5	1069.0	1073.9	1073.9	1070.7	1065.8	1072.3
12.5°	1036.7	1040.0	1033.5	1040.0	1038.4	1035.1	1033.5	1038.4
15°	999.6	1004.5	998.0	1002.8	1001.2	999.6	998.0	1002.8
17.5°	959.2	964.1	959.2	964.1	964.1	959.2	957.6	960.8
20°	918.9	922.1	917.2	922.1	920.5	920.5	917.2	922.1
22.5°	873.6	878.5	875.3	878.5	876.9	876.9	875.3	878.5
25°	828.4	833.3	828.4	833.3	831.7	831.7	828.4	836.5
27.5°	783.2	786.4	781.6	788.1	786.4	783.2	784.8	786.4
30°	734.8	738.0	734.8	739.6	739.6	739.6	736.4	739.6
32.5°	686.3	691.2	686.3	691.2	689.6	689.6	687.9	691.2
35°	637.9	639.5	636.3	641.1	641.1	642.7	639.5	644.3
37.5°	587.8	589.4	587.8	589.4	592.7	587.8	591.0	592.7
40°	536.1	539.4	537.8	539.4	539.4	541.0	539.4	541.0
42.5°	484.5	487.7	484.5	489.3	487.7	487.7	489.3	489.3
45°	431.2	436.0	432.8	436.0	437.6	436.0	436.0	439.2
47.5°	381.1	384.3	382.7	384.3	384.3	384.3	384.3	387.6
50°	331.0	332.7	332.7	334.3	334.3	335.9	332.7	334.3
52.5°	281.0	284.2	284.2	284.2	282.6	284.2	284.2	284.2
55°	235.8	237.4	234.2	237.4	237.4	235.8	235.8	239.0
57.5°	192.2	192.2	192.2	192.2	192.2	190.6	192.2	192.2
60°	151.8	153.4	151.8	151.8	151.8	151.8	150.2	153.4
62.5°	117.9	117.9	116.3	117.9	117.9	117.9	119.5	119.5
65°	92.0	93.7	92.0	93.7	93.7	93.7	93.7	95.3
67.5°	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
70°	54.9	54.9	54.9	56.5	54.9	54.9	54.9	56.5
72.5°	40.4	40.4	40.4	40.4	40.4	40.4	42.0	42.0
75°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
77.5°	19.4	19.4	19.4	21.0	19.4	21.0	19.4	19.4
80°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
82.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	3.2	3.2	3.2	3.2	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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)