

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: P252379

Luminaire Tested: **LD6B30D010 EU6B30508050 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252379
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 EU6B30508050 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2766.0 lumens
Efficiency: N/A
Efficacy: 98.8 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

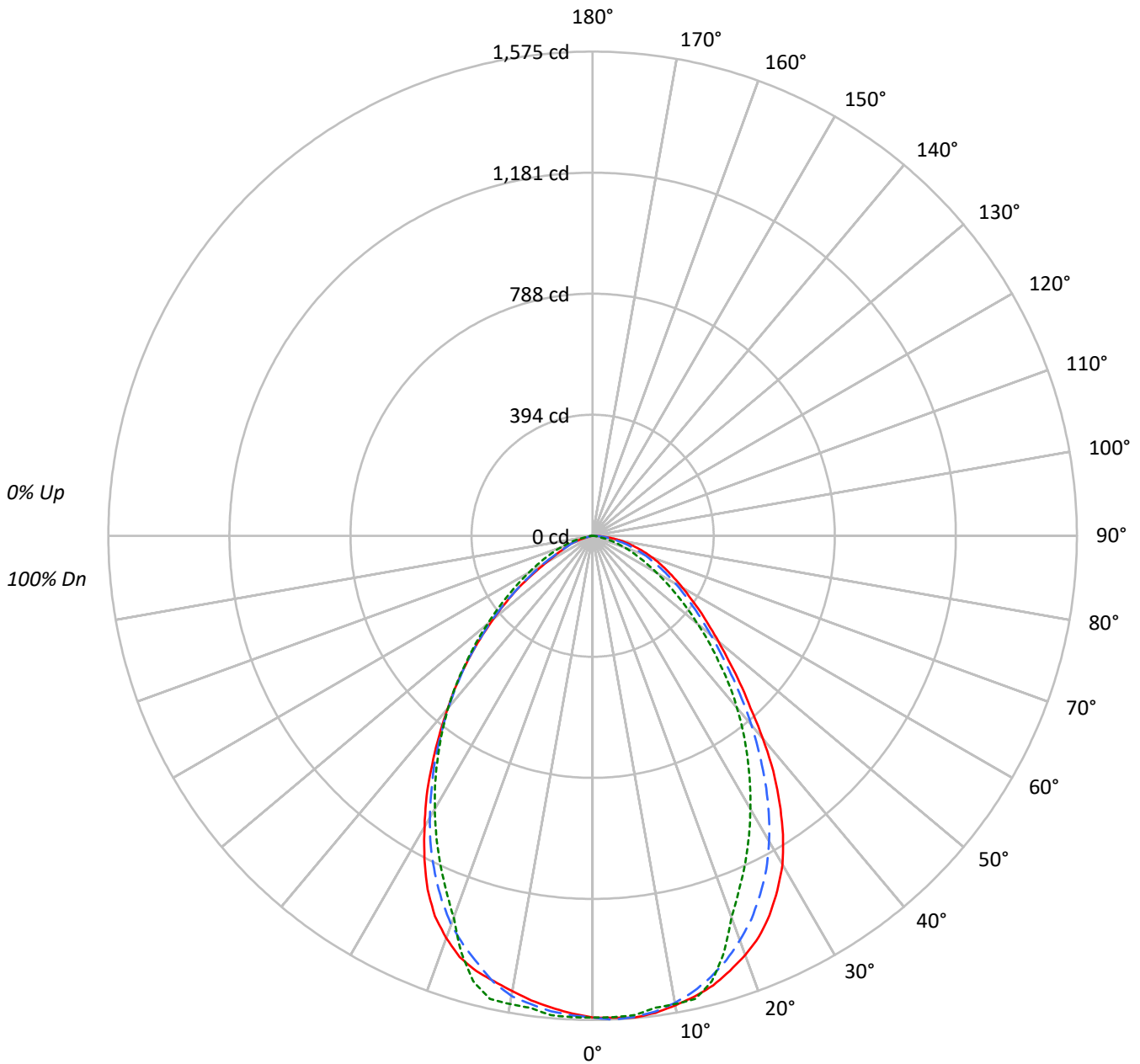
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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				100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68				68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54				54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48				48
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44				44
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	102245	102245	102245
5°	103035	102505	100907
10°	102749	102478	99642
15°	102279	101320	98983
20°	100753	91714	96657
25°	98022	84539	91428
30°	93074	77277	82339
35°	84455	69864	72460
40°	73328	62230	62401
45°	62537	53522	52960
50°	54128	45237	42760
55°	48387	37740	33111
60°	44090	31342	22312
65°	41156	25765	16657
70°	39218	20964	13982
75°	36928	14872	4613
80°	35166	7664	1540
85°	28969	4566	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	5.4
10°-20°	413.9	15.0
20°-30°	571.4	20.7
30°-40°	581.4	21.0
40°-50°	467.3	16.9
50°-60°	310.7	11.2
60°-70°	177.0	6.4
70°-80°	79.5	2.9
80°-90°	16.7	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°	1133.3	41.0
0°-40°	1714.7	62.0
0°-60°	2492.7	90.1
0°-90°	2766.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2766.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1567	1567	1567	1567	1567	
5°	1573	1571	1565	1553	1541	149
15°	1514	1486	1500	1441	1466	426
25°	1362	1288	1174	1213	1270	624
35°	1060	979	877	894	910	659
45°	678	637	580	574	574	526
55°	425	397	332	295	291	382
65°	267	238	167	108	108	266
75°	146	122	59	24	18	156
85°	39	26	6	2	0	46
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°	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2
2.5°	1569.3	1577.4	1575.4	1573.3	1575.4	1573.3	1569.3	1569.3	1565.2	1565.2	1575.4
5°	1573.3	1577.4	1575.4	1573.3	1573.3	1575.4	1567.2	1567.2	1563.2	1561.1	1571.3
7.5°	1565.2	1571.3	1567.2	1567.2	1565.2	1567.2	1559.1	1559.1	1553.0	1551.0	1561.1
10°	1551.0	1559.1	1555.0	1555.0	1555.0	1551.0	1546.9	1544.8	1538.7	1536.7	1542.8
12.5°	1534.7	1540.8	1538.7	1534.7	1534.7	1534.7	1526.5	1524.5	1516.4	1512.3	1518.4
15°	1514.3	1518.4	1516.4	1514.3	1510.2	1510.2	1502.1	1498.0	1489.9	1481.8	1485.8
17.5°	1483.8	1489.9	1485.8	1483.8	1477.7	1477.7	1469.5	1465.5	1453.3	1445.1	1447.2
20°	1451.2	1453.3	1451.2	1447.2	1441.0	1439.0	1430.9	1422.7	1412.6	1402.4	1400.3
22.5°	1412.6	1414.6	1408.5	1404.4	1398.3	1396.3	1386.1	1380.0	1363.7	1351.5	1349.5
25°	1361.7	1363.7	1363.7	1353.5	1349.5	1345.4	1335.2	1325.0	1310.8	1294.5	1288.4
27.5°	1300.6	1306.7	1302.6	1292.5	1284.3	1282.3	1272.1	1264.0	1245.6	1231.4	1223.3
30°	1235.5	1233.4	1231.4	1225.3	1213.1	1211.0	1200.9	1190.7	1176.4	1158.1	1148.0
32.5°	1152.0	1152.0	1150.0	1143.9	1131.7	1127.6	1119.5	1107.2	1091.0	1076.7	1066.5
35°	1060.4	1062.5	1060.4	1048.2	1040.1	1036.0	1031.9	1017.7	1003.4	987.2	979.0
37.5°	964.8	958.7	960.7	950.5	940.3	944.4	932.2	926.1	909.8	897.6	889.5
40°	861.0	865.0	856.9	852.8	846.7	840.6	840.6	830.4	822.3	808.0	804.0
42.5°	759.2	765.3	763.3	759.2	751.1	753.1	742.9	738.8	728.7	722.6	716.5
45°	677.8	677.8	677.8	673.7	671.7	667.6	661.5	655.4	649.3	641.1	637.1
47.5°	598.4	598.4	600.4	596.4	592.3	590.3	586.2	586.2	576.0	567.9	563.8
50°	533.3	533.3	533.3	529.2	525.1	525.1	521.1	517.0	510.9	504.8	500.7
52.5°	474.2	474.2	474.2	470.2	468.1	466.1	464.1	462.0	453.9	449.8	445.7
55°	425.4	423.4	423.4	421.3	417.3	417.3	415.2	411.1	405.0	398.9	396.9
57.5°	376.5	378.6	376.5	376.5	372.5	372.5	368.4	366.4	360.3	356.2	352.1
60°	337.9	337.9	337.9	335.8	331.8	333.8	329.7	327.7	321.6	315.5	311.4
62.5°	299.2	301.2	301.2	299.2	295.1	295.1	293.1	291.1	285.0	278.8	272.7
65°	266.6	266.6	266.6	264.6	262.6	262.6	260.5	258.5	252.4	244.2	238.1
67.5°	236.1	234.1	234.1	234.1	232.0	230.0	228.0	225.9	219.8	213.7	205.6
70°	205.6	205.6	205.6	203.5	199.5	201.5	199.5	197.4	191.3	185.2	179.1
72.5°	177.1	177.1	175.0	173.0	173.0	171.0	171.0	168.9	162.8	154.7	148.6
75°	146.5	146.5	146.5	146.5	142.5	144.5	140.4	138.4	134.3	128.2	122.1
77.5°	120.1	120.1	120.1	118.1	116.0	116.0	114.0	111.9	105.8	101.8	93.6
80°	93.6	93.6	93.6	93.6	91.6	89.6	87.5	85.5	81.4	75.3	69.2
82.5°	69.2	69.2	67.2	67.2	67.2	65.1	63.1	61.1	57.0	52.9	48.8
85°	38.7	40.7	40.7	36.6	38.7	36.6	36.6	32.6	32.6	28.5	26.5
87.5°	14.2	12.2	12.2	12.2	12.2	12.2	12.2	10.2	10.2	10.2	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°	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2
2.5°	1567.2	1565.2	1573.3	1573.3	1561.1	1567.2	1569.3	1565.2	1565.2	1567.2	1561.1
5°	1563.2	1559.1	1567.2	1569.3	1557.1	1563.2	1565.2	1561.1	1563.2	1565.2	1557.1
7.5°	1548.9	1548.9	1555.0	1557.1	1544.8	1551.0	1551.0	1546.9	1548.9	1548.9	1542.8
10°	1534.7	1528.6	1534.7	1534.7	1524.5	1526.5	1530.6	1528.6	1536.7	1546.9	1546.9
12.5°	1508.2	1502.1	1512.3	1512.3	1506.2	1514.3	1524.5	1530.6	1538.7	1542.8	1530.6
15°	1475.6	1477.7	1496.0	1510.2	1504.1	1516.4	1526.5	1522.5	1512.3	1500.1	1481.8
17.5°	1432.9	1426.8	1443.1	1451.2	1443.1	1447.2	1455.3	1447.2	1430.9	1420.7	1396.3
20°	1384.1	1367.8	1367.8	1363.7	1349.5	1349.5	1347.4	1333.2	1327.1	1321.0	1310.8
22.5°	1329.1	1310.8	1304.7	1292.5	1280.3	1278.2	1272.1	1257.9	1249.7	1245.6	1233.4
25°	1266.0	1249.7	1239.5	1227.3	1209.0	1204.9	1198.8	1184.6	1180.5	1174.4	1164.2
27.5°	1200.9	1180.5	1166.3	1154.1	1137.8	1135.7	1123.5	1113.4	1105.2	1101.1	1093.0
30°	1125.6	1103.2	1093.0	1076.7	1064.5	1060.4	1050.3	1036.0	1029.9	1025.8	1019.7
32.5°	1042.1	1023.8	1013.6	999.4	983.1	985.1	972.9	960.7	956.6	952.6	946.4
35°	960.7	942.4	930.2	918.0	907.8	903.7	895.6	885.4	879.3	877.2	873.2
37.5°	871.1	856.9	846.7	834.5	826.4	822.3	818.2	808.0	804.0	804.0	795.8
40°	783.6	771.4	763.3	757.2	747.0	744.9	740.9	734.8	732.7	730.7	724.6
42.5°	704.2	688.0	681.9	677.8	671.7	667.6	665.6	661.5	659.5	657.4	651.3
45°	628.9	614.7	608.6	604.5	598.4	596.4	594.3	588.2	584.2	580.1	578.0
47.5°	555.7	545.5	543.4	533.3	529.2	525.1	521.1	517.0	514.9	512.9	504.8
50°	492.6	486.5	476.3	470.2	466.1	464.1	455.9	449.8	447.8	445.7	439.6
52.5°	435.6	427.4	421.3	411.1	409.1	405.0	401.0	392.8	388.8	386.7	380.6
55°	384.7	378.6	370.4	362.3	356.2	354.2	348.0	339.9	335.8	331.8	327.7
57.5°	341.9	331.8	323.6	315.5	311.4	305.3	299.2	295.1	289.0	282.9	276.8
60°	301.2	293.1	282.9	274.8	270.7	266.6	258.5	252.4	246.3	240.2	234.1
62.5°	262.6	254.4	244.2	236.1	232.0	228.0	219.8	213.7	207.6	201.5	193.4
65°	228.0	219.8	211.7	203.5	199.5	195.4	187.3	179.1	173.0	166.9	158.8
67.5°	199.5	189.3	181.1	173.0	168.9	164.9	156.7	150.6	142.5	136.4	128.2
70°	168.9	160.8	154.7	146.5	142.5	138.4	130.3	122.1	116.0	109.9	101.8
72.5°	142.5	132.3	126.2	118.1	114.0	111.9	103.8	97.7	91.6	83.5	77.3
75°	114.0	105.8	97.7	91.6	87.5	85.5	77.3	71.2	65.1	59.0	52.9
77.5°	87.5	81.4	73.3	67.2	63.1	61.1	52.9	46.8	40.7	36.6	30.5
80°	65.1	57.0	52.9	46.8	44.8	40.7	36.6	30.5	26.5	20.4	16.3
82.5°	44.8	38.7	34.6	30.5	28.5	26.5	22.4	18.3	14.2	12.2	10.2
85°	24.4	20.4	18.3	16.3	14.2	14.2	12.2	10.2	8.1	6.1	4.1
87.5°	8.1	6.1	6.1	6.1	6.1	4.1	4.1	4.1	2.0	2.0	2.0
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°	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2
2.5°	1565.2	1565.2	1565.2	1563.2	1563.2	1563.2	1561.1	1569.3	1561.1	1559.1	1565.2
5°	1563.2	1559.1	1559.1	1559.1	1559.1	1557.1	1555.0	1559.1	1553.0	1551.0	1551.0
7.5°	1551.0	1548.9	1548.9	1546.9	1544.8	1542.8	1540.8	1542.8	1536.7	1534.7	1534.7
10°	1553.0	1548.9	1548.9	1542.8	1538.7	1532.6	1526.5	1528.6	1520.4	1514.3	1514.3
12.5°	1528.6	1518.4	1512.3	1506.2	1502.1	1500.1	1491.9	1496.0	1487.9	1485.8	1485.8
15°	1473.6	1461.4	1451.2	1447.2	1447.2	1443.1	1437.0	1445.1	1441.0	1443.1	1453.3
17.5°	1388.1	1382.0	1375.9	1373.9	1375.9	1380.0	1384.1	1396.3	1396.3	1402.4	1412.6
20°	1312.8	1308.7	1312.8	1312.8	1314.9	1323.0	1331.1	1341.3	1345.4	1351.5	1365.7
22.5°	1239.5	1239.5	1243.6	1249.7	1247.7	1261.9	1264.0	1282.3	1282.3	1294.5	1306.7
25°	1168.3	1168.3	1172.4	1174.4	1178.5	1186.6	1194.8	1209.0	1213.1	1225.3	1235.5
27.5°	1099.1	1097.1	1097.1	1099.1	1103.2	1113.4	1117.4	1133.7	1139.8	1148.0	1158.1
30°	1021.8	1019.7	1023.8	1027.9	1025.8	1036.0	1042.1	1054.3	1058.4	1066.5	1074.7
32.5°	948.5	948.5	948.5	952.6	952.6	960.7	960.7	974.9	974.9	981.1	989.2
35°	873.2	873.2	875.2	877.2	879.3	881.3	883.4	891.5	893.5	895.6	899.6
37.5°	801.9	799.9	801.9	801.9	797.9	806.0	806.0	814.1	808.0	814.1	816.2
40°	728.7	728.7	726.6	726.6	726.6	730.7	726.6	732.7	728.7	732.7	730.7
42.5°	653.4	653.4	649.3	653.4	651.3	651.3	651.3	655.4	649.3	653.4	655.4
45°	578.0	576.0	576.0	574.0	574.0	574.0	576.0	576.0	574.0	578.0	578.0
47.5°	504.8	502.7	502.7	502.7	502.7	504.8	498.7	502.7	498.7	498.7	498.7
50°	441.7	439.6	437.6	435.6	433.5	433.5	431.5	431.5	427.4	425.4	423.4
52.5°	380.6	378.6	374.5	374.5	372.5	370.4	364.3	364.3	358.2	356.2	356.2
55°	325.7	319.6	317.5	313.4	313.4	309.4	305.3	301.2	295.1	291.1	291.1
57.5°	274.8	268.7	264.6	262.6	260.5	256.5	248.3	246.3	238.1	236.1	234.1
60°	230.0	223.9	217.8	213.7	211.7	205.6	197.4	193.4	189.3	183.2	177.1
62.5°	187.3	181.1	173.0	171.0	166.9	160.8	154.7	148.6	144.5	138.4	134.3
65°	150.6	144.5	138.4	134.3	130.3	124.2	118.1	111.9	107.9	105.8	103.8
67.5°	122.1	114.0	107.9	105.8	101.8	97.7	91.6	89.6	85.5	85.5	85.5
70°	95.7	89.6	83.5	81.4	79.4	75.3	71.2	71.2	71.2	71.2	71.2
72.5°	71.2	67.2	61.1	59.0	57.0	55.0	50.9	52.9	50.9	50.9	50.9
75°	44.8	40.7	36.6	34.6	32.6	30.5	28.5	26.5	24.4	22.4	22.4
77.5°	24.4	20.4	18.3	16.3	16.3	14.2	12.2	12.2	10.2	10.2	10.2
80°	14.2	12.2	10.2	8.1	8.1	6.1	6.1	6.1	6.1	4.1	4.1
82.5°	8.1	6.1	4.1	4.1	4.1	4.1	2.0	2.0	2.0	2.0	2.0
85°	4.1	4.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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: P252379

CATALOG NUMBER: LD6B30D010 EU6B30508050 6LBLWW1LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2	1567.2
2.5°	1555.0	1561.1	1555.0	1561.1	1561.1	1561.1	1561.1	1555.0
5°	1544.8	1548.9	1542.8	1546.9	1548.9	1546.9	1546.9	1540.8
7.5°	1526.5	1530.6	1524.5	1530.6	1532.6	1530.6	1528.6	1524.5
10°	1508.2	1510.2	1504.1	1508.2	1512.3	1512.3	1510.2	1504.1
12.5°	1479.7	1485.8	1479.7	1483.8	1487.9	1489.9	1489.9	1483.8
15°	1447.2	1457.3	1453.3	1459.4	1465.5	1467.5	1467.5	1465.5
17.5°	1414.6	1424.8	1418.7	1428.8	1434.9	1439.0	1441.0	1437.0
20°	1367.8	1380.0	1375.9	1384.1	1392.2	1398.3	1398.3	1392.2
22.5°	1306.7	1323.0	1321.0	1327.1	1337.2	1339.3	1343.3	1339.3
25°	1239.5	1251.8	1249.7	1255.8	1268.0	1268.0	1270.1	1270.1
27.5°	1162.2	1174.4	1172.4	1176.4	1184.6	1186.6	1188.7	1184.6
30°	1078.7	1084.9	1084.9	1091.0	1097.1	1099.1	1099.1	1093.0
32.5°	987.2	995.3	999.4	997.3	1003.4	1007.5	1005.5	1005.5
35°	903.7	905.7	907.8	909.8	911.8	915.9	911.8	909.8
37.5°	814.1	820.3	816.2	820.3	824.3	822.3	820.3	820.3
40°	732.7	734.8	730.7	734.8	736.8	736.8	736.8	732.7
42.5°	651.3	655.4	651.3	655.4	655.4	655.4	655.4	653.4
45°	569.9	574.0	574.0	576.0	576.0	574.0	574.0	574.0
47.5°	494.6	498.7	494.6	498.7	500.7	496.6	496.6	496.6
50°	423.4	421.3	421.3	423.4	423.4	423.4	423.4	421.3
52.5°	350.1	352.1	352.1	352.1	354.2	352.1	354.2	354.2
55°	287.0	287.0	287.0	289.0	287.0	287.0	289.0	291.1
57.5°	230.0	228.0	225.9	225.9	228.0	225.9	225.9	225.9
60°	177.1	175.0	173.0	173.0	173.0	173.0	173.0	171.0
62.5°	132.3	132.3	132.3	134.3	134.3	134.3	134.3	136.4
65°	105.8	105.8	105.8	105.8	105.8	105.8	105.8	107.9
67.5°	85.5	85.5	85.5	87.5	87.5	87.5	87.5	87.5
70°	71.2	71.2	73.3	71.2	73.3	73.3	73.3	73.3
72.5°	48.8	48.8	48.8	48.8	48.8	46.8	48.8	46.8
75°	20.4	20.4	20.4	20.4	20.4	20.4	20.4	18.3
77.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
80°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
82.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	2.0	2.0	2.0	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)