

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: P252691

Luminaire Tested: **LD6B30D010 EU6B30508050 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B30D010 EU6B30508050 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2856.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

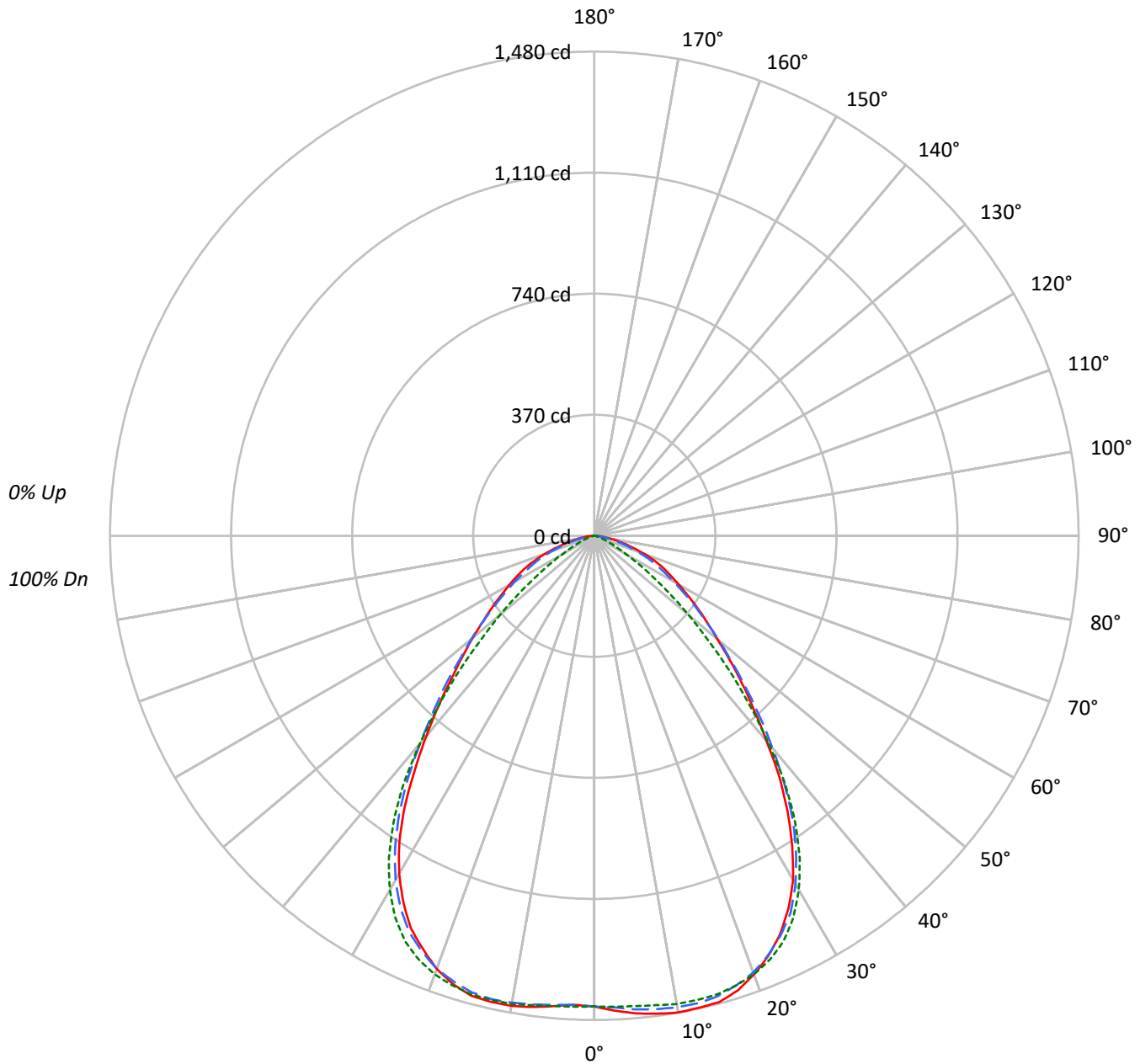
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	104	101		109	105	102	99		101	98	96		97	95	93		94	92	91
2	103	96	91	86		101	95	89	85		91	87	83		88	84	81		85	82	80
3	95	87	80	75		93	85	79	74		82	77	73		80	75	71		77	74	70
4	89	78	71	65		87	77	70	65		75	69	64		73	67	63		71	66	62
5	82	71	64	58		80	70	63	58		68	62	57		66	61	56		65	60	56
6	77	65	57	52		75	64	57	51		63	56	51		61	55	51		59	54	50
7	72	60	52	47		70	59	52	46		58	51	46		56	50	46		55	50	45
8	67	55	47	42		66	54	47	42		53	47	42		52	46	42		51	45	41
9	63	51	43	38		62	50	43	38		49	43	38		48	42	38		47	42	38
10	59	47	40	35		58	47	40	35		46	39	35		45	39	35		44	39	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	93875	93875	93875
5°	95969	94502	94502
10°	98019	96270	96674
15°	99658	98010	98287
20°	99052	99052	97782
25°	96698	98454	95373
30°	91530	94137	89843
35°	82017	85259	80401
40°	69682	70543	67945
45°	58966	53892	56899
50°	49784	38010	49165
55°	43757	24534	43291
60°	38766	14601	39040
65°	35814	8799	35814
70°	31054	5055	30272
75°	24627	3075	23090
80°	18334	2292	17583
85°	16768	1497	15270



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	4.9
10°-20°	410.0	14.4
20°-30°	616.6	21.6
30°-40°	648.3	22.7
40°-50°	484.3	17.0
50°-60°	301.5	10.6
60°-70°	171.5	6.0
70°-80°	70.6	2.5
80°-90°	14.6	0.5
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°	1165.2	40.8
0°-40°	1813.5	63.5
0°-60°	2599.3	91.0
0°-90°	2856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2856.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1439	1439	1439	1439	1439	
5°	1465	1453	1443	1439	1443	140
15°	1476	1457	1451	1445	1455	415
25°	1343	1347	1368	1337	1325	615
35°	1030	1056	1070	1040	1010	639
45°	639	653	584	641	617	495
55°	385	376	216	370	381	346
65°	232	208	57	208	232	228
75°	98	77	12	75	92	106
85°	22	14	2	12	20	25
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°	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9
2.5°	1453.2	1451.1	1453.2	1449.1	1447.1	1447.1	1449.1	1445.0	1443.0	1445.0	1443.0
5°	1465.4	1461.3	1463.3	1461.3	1457.2	1457.2	1459.3	1453.2	1453.2	1455.2	1453.2
7.5°	1473.5	1473.5	1473.5	1469.4	1467.4	1465.4	1469.4	1463.3	1461.3	1461.3	1459.3
10°	1479.6	1477.6	1479.6	1475.5	1471.5	1469.4	1473.5	1469.4	1465.4	1469.4	1463.3
12.5°	1477.6	1477.6	1477.6	1475.5	1471.5	1469.4	1473.5	1467.4	1465.4	1467.4	1463.3
15°	1475.5	1469.4	1471.5	1469.4	1463.3	1463.3	1465.4	1459.3	1455.2	1461.3	1457.2
17.5°	1457.2	1453.2	1455.2	1451.1	1447.1	1445.0	1447.1	1445.0	1440.9	1445.0	1440.9
20°	1426.7	1426.7	1428.7	1424.7	1420.6	1418.6	1422.6	1418.6	1414.5	1420.6	1420.6
22.5°	1390.1	1390.1	1390.1	1388.0	1386.0	1386.0	1386.0	1384.0	1381.9	1386.0	1388.0
25°	1343.3	1341.2	1343.3	1345.3	1343.3	1341.2	1343.3	1343.3	1339.2	1347.3	1347.3
27.5°	1284.2	1284.2	1288.3	1286.3	1286.3	1284.2	1288.3	1288.3	1286.3	1292.4	1298.5
30°	1215.0	1211.0	1215.0	1215.0	1217.1	1217.1	1219.1	1219.1	1219.1	1225.2	1229.3
32.5°	1125.5	1127.5	1133.6	1131.6	1129.6	1135.7	1135.7	1139.7	1141.8	1145.8	1147.9
35°	1029.8	1031.9	1031.9	1033.9	1038.0	1033.9	1044.1	1042.0	1044.1	1052.2	1056.3
37.5°	928.1	922.0	932.1	928.1	930.1	930.1	934.2	936.2	942.3	952.5	952.5
40°	818.2	820.2	824.3	826.3	828.3	828.3	828.3	834.4	836.5	848.7	846.7
42.5°	722.5	722.5	726.6	728.6	728.6	728.6	728.6	734.7	738.8	742.9	746.9
45°	639.1	633.0	637.0	637.0	641.1	639.1	643.1	647.2	649.2	655.3	653.3
47.5°	559.7	557.7	559.7	561.7	559.7	561.7	563.8	565.8	567.8	567.8	567.8
50°	490.5	490.5	492.5	494.6	494.6	494.6	494.6	496.6	496.6	500.7	496.6
52.5°	433.5	435.5	435.5	433.5	435.5	435.5	437.6	437.6	435.5	435.5	429.4
55°	384.7	382.6	384.7	382.6	384.7	384.7	382.6	382.6	380.6	378.6	376.5
57.5°	337.8	337.8	337.8	337.8	335.8	337.8	335.8	333.8	333.8	329.7	323.6
60°	297.1	297.1	297.1	297.1	297.1	295.1	297.1	295.1	291.0	287.0	278.8
62.5°	262.5	260.5	262.5	260.5	260.5	258.5	258.5	256.4	252.4	248.3	240.2
65°	232.0	234.1	232.0	232.0	230.0	227.9	227.9	225.9	219.8	215.7	207.6
67.5°	199.5	197.4	197.4	197.4	195.4	195.4	195.4	191.3	187.2	181.1	173.0
70°	162.8	162.8	162.8	160.8	160.8	158.7	158.7	156.7	152.6	148.6	138.4
72.5°	128.2	128.2	128.2	124.1	126.2	124.1	124.1	120.1	118.0	111.9	105.8
75°	97.7	97.7	95.7	95.7	93.6	91.6	91.6	89.6	87.5	83.4	77.3
77.5°	71.2	71.2	71.2	69.2	67.2	65.1	65.1	63.1	61.1	59.0	55.0
80°	48.8	48.8	48.8	48.8	46.8	44.8	44.8	42.7	42.7	40.7	36.6
82.5°	32.6	32.6	32.6	32.6	30.5	30.5	30.5	28.5	26.5	26.5	22.4
85°	22.4	22.4	20.4	20.4	20.4	20.4	18.3	18.3	16.3	14.2	14.2
87.5°	12.2	12.2	12.2	12.2	10.2	10.2	10.2	10.2	8.1	8.1	6.1
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°	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9
2.5°	1449.1	1449.1	1447.1	1440.9	1443.0	1440.9	1443.0	1440.9	1434.8	1440.9	1434.8
5°	1457.2	1459.3	1455.2	1447.1	1449.1	1447.1	1447.1	1445.0	1438.9	1443.0	1438.9
7.5°	1465.4	1463.3	1461.3	1453.2	1455.2	1453.2	1453.2	1449.1	1443.0	1447.1	1440.9
10°	1469.4	1469.4	1465.4	1457.2	1457.2	1455.2	1457.2	1455.2	1447.1	1453.2	1449.1
12.5°	1469.4	1467.4	1467.4	1457.2	1459.3	1457.2	1459.3	1455.2	1449.1	1453.2	1451.1
15°	1463.3	1463.3	1461.3	1451.1	1453.2	1453.2	1455.2	1451.1	1445.0	1451.1	1447.1
17.5°	1451.1	1451.1	1449.1	1440.9	1445.0	1445.0	1447.1	1443.0	1436.9	1440.9	1440.9
20°	1426.7	1428.7	1428.7	1422.6	1426.7	1426.7	1428.7	1426.7	1424.7	1426.7	1422.6
22.5°	1398.2	1402.3	1402.3	1396.2	1400.2	1400.2	1406.4	1404.3	1400.2	1402.3	1400.2
25°	1355.5	1359.5	1363.6	1359.5	1363.6	1363.6	1369.7	1367.7	1363.6	1367.7	1361.6
27.5°	1306.6	1308.7	1312.7	1308.7	1314.8	1312.7	1318.8	1316.8	1310.7	1316.8	1314.8
30°	1237.4	1245.6	1251.7	1245.6	1251.7	1251.7	1255.7	1253.7	1251.7	1249.6	1249.6
32.5°	1160.1	1168.2	1168.2	1166.2	1170.3	1170.3	1172.3	1168.2	1166.2	1168.2	1170.3
35°	1064.4	1068.5	1072.6	1070.5	1072.6	1074.6	1072.6	1074.6	1068.5	1070.5	1070.5
37.5°	960.6	964.7	964.7	958.6	962.7	962.7	958.6	958.6	954.5	958.6	950.5
40°	850.7	846.7	848.7	844.6	840.6	840.6	838.5	830.4	826.3	828.3	830.4
42.5°	742.9	742.9	736.8	726.6	716.4	716.4	710.3	706.2	698.1	702.2	700.1
45°	651.3	641.1	633.0	616.7	610.6	606.5	596.3	586.1	582.1	584.1	582.1
47.5°	563.8	555.6	535.3	512.9	506.8	500.7	488.5	476.2	472.2	468.1	468.1
50°	490.5	476.2	453.9	429.4	419.3	409.1	392.8	380.6	372.4	374.5	374.5
52.5°	423.3	407.0	380.6	350.1	337.8	325.6	311.4	297.1	291.0	289.0	289.0
55°	364.3	346.0	319.5	284.9	274.8	260.5	242.2	225.9	217.8	215.7	219.8
57.5°	311.4	295.1	264.6	230.0	217.8	203.5	185.2	171.0	160.8	158.7	160.8
60°	268.7	246.3	219.8	187.2	171.0	158.7	138.4	126.2	116.0	111.9	114.0
62.5°	225.9	205.6	179.1	146.5	134.3	122.1	103.8	89.6	81.4	79.4	81.4
65°	193.3	173.0	148.6	120.1	107.9	95.7	79.4	65.1	59.0	57.0	59.0
67.5°	160.8	142.5	122.1	95.7	85.5	75.3	59.0	48.8	40.7	38.7	40.7
70°	130.3	114.0	93.6	75.3	65.1	57.0	44.8	34.6	28.5	26.5	28.5
72.5°	97.7	85.5	71.2	55.0	48.8	42.7	32.6	24.4	20.4	18.3	20.4
75°	71.2	61.1	50.9	38.7	34.6	30.5	22.4	16.3	14.2	12.2	14.2
77.5°	48.8	42.7	34.6	26.5	22.4	20.4	14.2	12.2	10.2	8.1	8.1
80°	32.6	28.5	22.4	18.3	16.3	14.2	10.2	8.1	6.1	6.1	6.1
82.5°	20.4	16.3	14.2	10.2	8.1	8.1	6.1	4.1	4.1	4.1	4.1
85°	12.2	10.2	8.1	6.1	4.1	4.1	2.0	2.0	2.0	2.0	2.0
87.5°	6.1	4.1	4.1	2.0	2.0	2.0	2.0	2.0	0.0	0.0	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°	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9
2.5°	1438.9	1434.8	1434.8	1436.9	1438.9	1440.9	1436.9	1434.8	1434.8	1440.9	1436.9
5°	1438.9	1436.9	1436.9	1436.9	1440.9	1443.0	1438.9	1436.9	1438.9	1445.0	1443.0
7.5°	1445.0	1440.9	1443.0	1443.0	1445.0	1449.1	1445.0	1443.0	1445.0	1451.1	1447.1
10°	1449.1	1445.0	1447.1	1445.0	1451.1	1453.2	1449.1	1447.1	1449.1	1457.2	1455.2
12.5°	1451.1	1449.1	1449.1	1447.1	1453.2	1455.2	1451.1	1449.1	1451.1	1457.2	1455.2
15°	1447.1	1445.0	1445.0	1445.0	1449.1	1453.2	1447.1	1445.0	1445.0	1451.1	1449.1
17.5°	1438.9	1434.8	1434.8	1434.8	1436.9	1438.9	1432.8	1430.8	1428.7	1434.8	1432.8
20°	1424.7	1420.6	1416.5	1416.5	1418.6	1418.6	1414.5	1408.4	1408.4	1410.4	1406.4
22.5°	1398.2	1396.2	1392.1	1390.1	1394.1	1392.1	1384.0	1377.9	1375.8	1377.9	1373.8
25°	1361.6	1357.5	1355.5	1353.4	1355.5	1353.4	1345.3	1337.2	1337.2	1337.2	1331.0
27.5°	1310.7	1306.6	1304.6	1304.6	1306.6	1302.6	1294.4	1286.3	1282.2	1282.2	1276.1
30°	1245.6	1245.6	1243.5	1241.5	1239.5	1239.5	1227.2	1219.1	1215.0	1217.1	1213.0
32.5°	1166.2	1164.2	1162.1	1156.0	1158.1	1156.0	1145.8	1139.7	1133.6	1129.6	1127.5
35°	1064.4	1064.4	1062.4	1062.4	1062.4	1060.4	1050.2	1044.1	1040.0	1038.0	1031.9
37.5°	952.5	950.5	948.4	948.4	948.4	948.4	942.3	936.2	936.2	934.2	930.1
40°	826.3	828.3	830.4	828.3	834.4	840.6	832.4	828.3	826.3	832.4	824.3
42.5°	704.2	702.2	712.3	714.4	714.4	724.5	726.6	728.6	726.6	730.7	730.7
45°	586.1	584.1	594.3	598.4	608.5	620.7	626.9	637.0	641.1	645.2	641.1
47.5°	474.2	482.4	490.5	500.7	508.8	529.2	541.4	551.5	555.6	561.7	561.7
50°	380.6	388.7	403.0	411.1	421.3	445.7	466.1	480.3	488.5	494.6	492.5
52.5°	293.1	307.3	325.6	333.8	348.0	376.5	398.9	415.2	425.4	431.5	433.5
55°	225.9	238.1	256.4	268.7	282.9	313.4	341.9	360.2	370.4	378.6	382.6
57.5°	166.9	181.1	201.5	211.7	227.9	262.5	287.0	309.4	321.6	331.7	333.8
60°	122.1	136.4	154.7	166.9	183.2	217.8	246.3	266.6	280.9	289.0	293.1
62.5°	87.5	101.8	120.1	132.3	146.5	177.1	205.6	225.9	240.2	250.3	256.4
65°	63.1	77.3	95.7	105.8	118.0	146.5	173.0	193.3	207.6	219.8	223.9
67.5°	46.8	57.0	73.3	83.4	95.7	118.0	140.4	158.7	173.0	183.2	187.2
70°	34.6	42.7	57.0	63.1	71.2	91.6	109.9	126.2	138.4	146.5	150.6
72.5°	24.4	30.5	40.7	46.8	52.9	69.2	83.4	95.7	103.8	111.9	116.0
75°	16.3	20.4	28.5	32.6	36.6	48.8	59.0	69.2	75.3	81.4	83.4
77.5°	10.2	14.2	20.4	22.4	26.5	32.6	40.7	46.8	50.9	55.0	59.0
80°	6.1	8.1	12.2	14.2	16.3	22.4	26.5	30.5	34.6	38.7	40.7
82.5°	4.1	6.1	8.1	8.1	10.2	12.2	16.3	20.4	22.4	24.4	26.5
85°	2.0	2.0	4.1	4.1	6.1	6.1	8.1	10.2	12.2	14.2	16.3
87.5°	2.0	2.0	2.0	2.0	4.1	4.1	6.1	6.1	6.1	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



TEST NUMBER: P252691

CATALOG NUMBER: LD6B30D010 EU6B30508050 6LBDW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9	1438.9
2.5°	1432.8	1438.9	1432.8	1436.9	1434.8	1434.8	1432.8	1434.8
5°	1438.9	1447.1	1438.9	1445.0	1440.9	1440.9	1440.9	1443.0
7.5°	1445.0	1453.2	1447.1	1453.2	1451.1	1449.1	1449.1	1453.2
10°	1451.1	1457.2	1453.2	1459.3	1457.2	1455.2	1455.2	1459.3
12.5°	1451.1	1459.3	1455.2	1461.3	1459.3	1457.2	1457.2	1459.3
15°	1445.0	1455.2	1449.1	1455.2	1453.2	1451.1	1451.1	1455.2
17.5°	1426.7	1434.8	1430.8	1434.8	1434.8	1432.8	1434.8	1436.9
20°	1402.3	1408.4	1404.3	1408.4	1408.4	1404.3	1406.4	1408.4
22.5°	1367.7	1373.8	1369.7	1373.8	1371.8	1369.7	1369.7	1367.7
25°	1324.9	1333.1	1327.0	1331.0	1327.0	1322.9	1322.9	1324.9
27.5°	1272.0	1278.1	1270.0	1274.1	1270.0	1265.9	1265.9	1263.9
30°	1202.8	1204.9	1198.8	1202.8	1198.8	1196.7	1192.6	1192.6
32.5°	1119.4	1121.4	1115.3	1115.3	1111.2	1111.2	1103.1	1109.2
35°	1021.7	1023.7	1021.7	1019.7	1013.5	1011.5	1009.5	1009.5
37.5°	919.9	919.9	913.8	911.8	907.7	903.6	905.7	899.6
40°	816.1	814.1	808.0	810.0	808.0	801.9	799.8	797.8
42.5°	718.4	718.4	712.3	714.4	710.3	708.3	702.2	704.2
45°	633.0	633.0	626.9	626.9	624.8	618.7	620.7	616.7
47.5°	555.6	555.6	553.6	553.6	547.5	545.4	545.4	545.4
50°	488.5	488.5	488.5	488.5	486.4	484.4	482.4	484.4
52.5°	431.5	435.5	433.5	433.5	431.5	429.4	427.4	427.4
55°	380.6	382.6	382.6	384.7	382.6	380.6	382.6	380.6
57.5°	335.8	339.9	339.9	339.9	339.9	339.9	337.8	335.8
60°	297.1	299.2	299.2	301.2	301.2	301.2	299.2	299.2
62.5°	258.5	262.5	264.6	264.6	266.6	264.6	264.6	264.6
65°	227.9	232.0	234.1	232.0	234.1	234.1	232.0	232.0
67.5°	191.3	195.4	195.4	195.4	195.4	197.4	195.4	195.4
70°	154.7	158.7	156.7	158.7	158.7	158.7	158.7	158.7
72.5°	118.0	120.1	122.1	122.1	124.1	122.1	122.1	122.1
75°	85.5	89.6	89.6	89.6	89.6	91.6	91.6	91.6
77.5°	61.1	63.1	63.1	65.1	65.1	65.1	65.1	67.2
80°	42.7	42.7	44.8	44.8	46.8	46.8	46.8	46.8
82.5°	28.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
85°	16.3	18.3	18.3	18.3	18.3	20.4	20.4	20.4
87.5°	10.2	10.2	10.2	10.2	10.2	10.2	8.1	8.1
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)