

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: P136575

Luminaire Tested: **LD6A30D010TE ERW6A30940 6LW121LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136575
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23360)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A30D010TE ERW6A30940 6LW121LI
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOUBLE WALL WASH LUMINAIRE
SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER
Light Source: (1) HIGH LUMEN LED 4000K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2774.6 lumens
Efficiency: N/A
Efficacy: 61.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.14
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

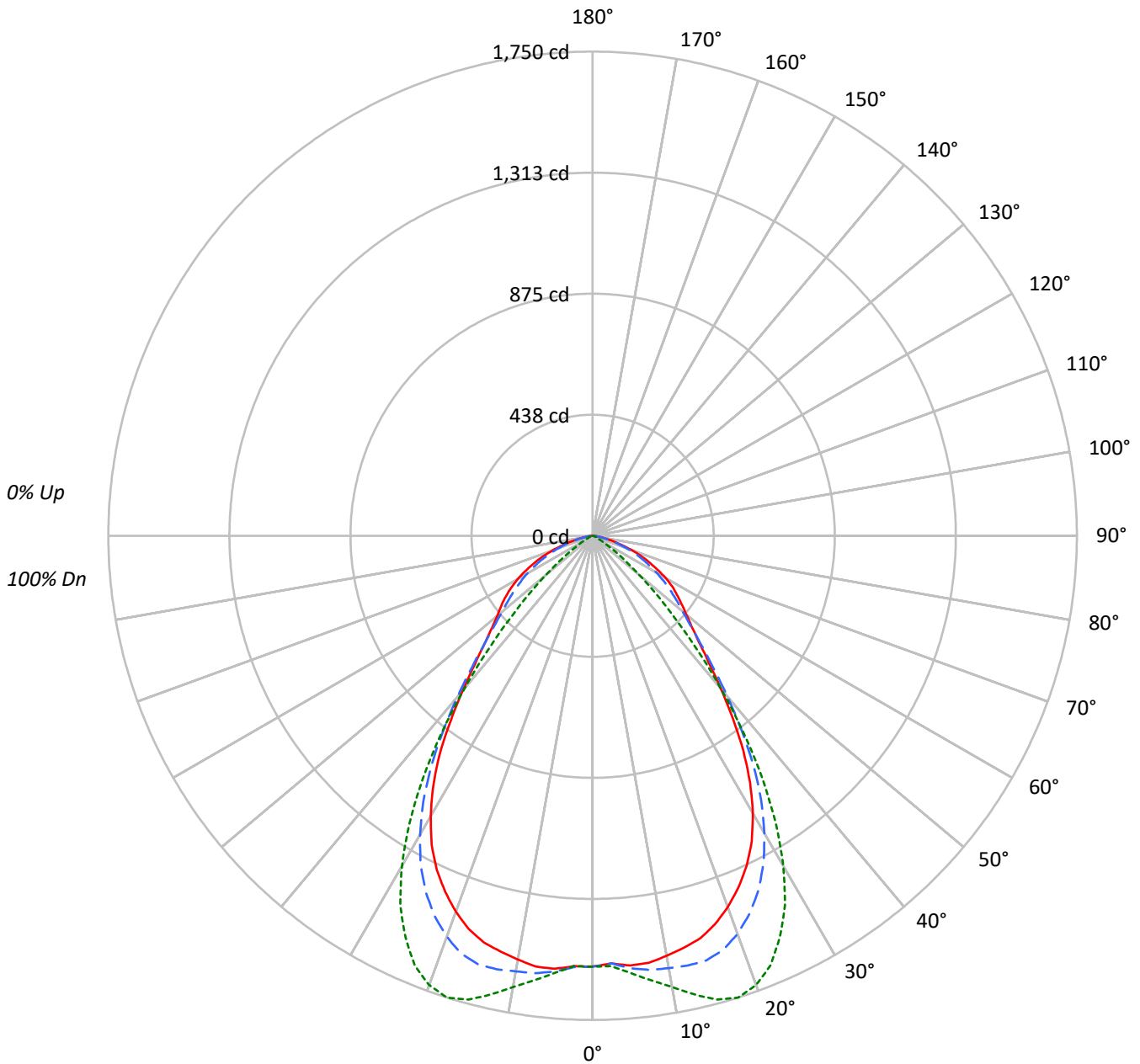
Input Watts (W): 45.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79																			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63																			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56																			
6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	62	57	53	51																			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39																			
10	61	49	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	101580	101580	101580
5°	102092	103919	102878
10°	102093	109725	103014
15°	101678	117233	102745
20°	99136	119957	100378
25°	94783	115226	95927
30°	87221	103832	88117
35°	75606	85100	76713
40°	61226	61226	62069
45°	50016	38843	50939
50°	44750	22177	45552
55°	42244	11295	43598
60°	39640	4919	40684
65°	34641	2763	35876
70°	28040	2289	29166
75°	19510	1487	20014
80°	11947	751	11947
85°	5914	1497	5914



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	5.5
10°-20°	453.9	16.4
20°-30°	660.3	23.8
30°-40°	627.5	22.6
40°-50°	406.5	14.7
50°-60°	255.0	9.2
60°-70°	152.5	5.5
70°-80°	59.5	2.1
80°-90°	8.1	0.3
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°	1265.5	45.6
0°-40°	1893.0	68.2
0°-60°	2554.5	92.1
0°-90°	2774.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2774.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1557	1557	1557	1557	1557	
5°	1559	1569	1587	1581	1571	148
15°	1505	1589	1736	1603	1521	423
25°	1317	1416	1601	1424	1333	602
35°	949	1013	1068	1017	963	588
45°	542	550	421	552	552	428
55°	371	342	99	346	383	333
65°	224	197	18	201	232	222
75°	77	68	6	70	79	86
85°	8	8	2	8	8	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0
2.5°	1547.1	1537.1	1565.0	1549.1	1551.0	1570.9	1555.0	1549.1	1568.9	1547.1	1557.0
5°	1558.9	1551.0	1578.9	1565.0	1566.9	1586.8	1572.9	1566.9	1588.8	1568.9	1578.9
7.5°	1557.0	1551.0	1576.8	1565.0	1566.9	1590.7	1576.8	1574.8	1600.7	1582.8	1596.7
10°	1541.1	1533.2	1561.0	1551.0	1555.0	1580.9	1568.9	1568.9	1598.7	1586.8	1606.6
12.5°	1525.3	1517.3	1545.1	1537.1	1541.1	1568.9	1561.0	1565.0	1598.7	1590.7	1616.6
15°	1505.4	1497.4	1527.2	1519.2	1523.2	1553.0	1549.1	1553.0	1590.7	1588.8	1618.6
17.5°	1471.6	1467.6	1493.5	1489.5	1493.5	1523.2	1521.2	1527.2	1568.9	1568.9	1606.6
20°	1427.9	1422.0	1449.8	1445.8	1447.7	1477.6	1477.6	1483.5	1527.2	1531.2	1568.9
22.5°	1376.3	1372.3	1400.1	1394.2	1398.2	1425.9	1425.9	1431.9	1473.6	1479.5	1519.2
25°	1316.7	1312.7	1338.5	1336.5	1338.5	1366.3	1364.4	1372.3	1412.0	1416.0	1453.8
27.5°	1245.2	1239.2	1265.1	1265.1	1267.1	1292.9	1292.9	1296.8	1332.6	1336.5	1372.3
30°	1157.8	1151.8	1175.7	1177.7	1177.7	1203.5	1203.5	1205.5	1239.2	1241.2	1273.0
32.5°	1058.5	1058.5	1076.4	1078.3	1078.3	1102.2	1104.2	1104.2	1133.9	1133.9	1159.8
35°	949.3	951.3	965.2	967.1	969.1	991.0	991.0	989.1	1014.8	1012.9	1034.7
37.5°	832.1	832.1	846.0	848.0	848.0	867.9	867.9	865.9	887.7	881.8	897.7
40°	718.9	718.9	730.9	734.8	732.9	748.8	748.8	746.7	762.6	754.7	762.6
42.5°	619.7	623.6	631.5	633.5	631.5	645.4	643.5	641.5	653.3	641.5	643.5
45°	542.1	546.2	552.1	554.1	552.1	562.0	560.0	556.1	562.0	550.1	544.1
47.5°	484.6	486.5	496.5	494.5	492.6	500.5	500.5	492.6	494.5	478.6	466.7
50°	440.9	442.9	450.8	450.8	446.8	454.8	450.8	442.9	440.9	423.0	405.1
52.5°	405.1	407.1	415.0	415.0	411.1	417.1	413.0	401.2	399.2	381.3	359.4
55°	371.4	373.3	381.3	381.3	377.3	381.3	375.3	365.4	361.5	341.6	317.7
57.5°	341.6	339.6	345.6	345.6	341.6	343.6	339.6	329.7	321.7	303.8	280.0
60°	303.8	301.8	305.9	305.9	301.8	303.8	299.9	288.0	284.0	266.1	242.3
62.5°	262.1	262.1	266.1	266.1	262.1	262.1	260.2	248.2	244.3	228.3	208.5
65°	224.4	224.4	228.3	228.3	224.4	226.4	222.4	214.5	210.5	196.6	178.8
67.5°	186.7	186.7	188.6	188.6	186.7	186.7	184.7	178.8	172.7	162.9	147.0
70°	147.0	147.0	148.9	148.9	147.0	147.0	147.0	141.0	139.0	129.1	117.1
72.5°	109.2	109.2	111.2	111.2	111.2	113.2	111.2	107.3	103.3	97.3	87.4
75°	77.4	77.4	77.4	79.4	77.4	77.4	79.4	75.5	73.5	67.6	61.5
77.5°	51.7	51.7	51.7	51.7	51.7	53.6	51.7	51.7	49.7	45.6	41.7
80°	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8	29.8	29.8	25.8
82.5°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	15.9	13.9
85°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	5.9
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0
2.5°	1555.0	1557.0	1557.0	1563.0	1568.9	1553.0	1561.0	1557.0	1553.0	1568.9	1558.9
5°	1580.9	1582.8	1582.8	1590.7	1598.7	1580.9	1588.8	1586.8	1582.8	1596.7	1586.8
7.5°	1600.7	1606.6	1610.6	1620.6	1630.5	1614.5	1624.5	1620.6	1618.6	1632.4	1618.6
10°	1614.5	1626.5	1632.4	1648.3	1662.3	1646.4	1660.3	1656.3	1654.4	1666.2	1650.3
12.5°	1630.5	1646.4	1662.3	1680.1	1700.0	1686.1	1703.9	1698.0	1698.0	1707.9	1688.0
15°	1640.4	1660.3	1682.1	1707.9	1731.8	1721.8	1741.7	1735.7	1735.7	1743.6	1721.8
17.5°	1630.5	1656.3	1682.1	1711.9	1739.7	1733.8	1755.6	1749.7	1747.7	1755.6	1729.8
20°	1596.7	1626.5	1656.3	1686.1	1717.9	1713.9	1737.7	1727.8	1729.8	1733.8	1707.9
22.5°	1543.1	1574.8	1604.7	1636.5	1666.2	1664.2	1686.1	1680.1	1678.2	1684.1	1656.3
25°	1479.5	1507.4	1535.1	1563.0	1592.7	1588.8	1610.6	1600.7	1602.7	1604.7	1580.9
27.5°	1394.2	1420.0	1441.8	1465.6	1493.5	1487.5	1509.4	1505.4	1499.4	1501.4	1481.5
30°	1288.9	1310.7	1326.6	1346.5	1368.3	1362.4	1382.2	1378.3	1374.2	1374.2	1362.4
32.5°	1169.7	1185.6	1195.6	1209.5	1225.3	1219.4	1235.3	1231.3	1227.3	1227.3	1219.4
35°	1036.7	1046.6	1046.6	1054.5	1066.5	1056.5	1070.4	1068.5	1062.5	1064.5	1062.5
37.5°	891.7	895.7	887.7	887.7	895.7	881.8	893.6	893.6	887.7	889.7	889.7
40°	750.7	748.8	732.9	724.9	724.9	711.0	720.9	718.9	715.0	717.0	720.9
42.5°	625.6	613.6	591.8	575.9	572.0	556.1	562.0	560.0	556.1	560.0	566.0
45°	520.3	498.5	468.7	446.8	436.9	421.0	423.0	421.0	419.1	423.0	432.9
47.5°	436.9	407.1	369.4	341.6	327.7	309.8	309.8	307.9	307.9	317.7	323.7
50°	371.4	335.6	292.0	260.2	240.3	224.4	220.4	218.5	220.4	228.3	240.3
52.5°	321.7	278.0	230.3	196.6	174.7	156.9	152.9	150.9	152.9	160.9	172.7
55°	278.0	232.4	182.7	145.0	121.2	105.3	99.3	99.3	99.3	109.2	121.2
57.5°	238.3	192.6	143.0	105.3	83.4	67.6	61.5	59.6	63.5	69.5	81.4
60°	204.5	160.9	113.2	79.4	57.6	43.7	37.7	37.7	37.7	45.6	57.6
62.5°	174.7	135.0	91.4	59.6	41.7	29.8	23.8	23.8	25.8	29.8	41.7
65°	148.9	115.2	77.4	51.7	33.8	23.8	19.9	17.9	19.9	23.8	33.8
67.5°	123.2	95.3	65.6	43.7	29.8	19.9	17.9	15.9	15.9	21.8	27.8
70°	97.3	75.5	53.6	35.8	23.8	15.9	13.9	12.0	13.9	17.9	23.8
72.5°	73.5	57.6	39.7	27.8	17.9	13.9	10.0	10.0	10.0	13.9	17.9
75°	51.7	41.7	29.8	19.9	12.0	7.9	7.9	5.9	7.9	10.0	12.0
77.5°	33.8	27.8	19.9	12.0	7.9	5.9	4.0	4.0	4.0	5.9	7.9
80°	21.8	17.9	12.0	7.9	5.9	4.0	2.0	2.0	2.0	4.0	4.0
82.5°	12.0	10.0	5.9	4.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0
85°	5.9	4.0	4.0	2.0	2.0	2.0	0.0	2.0	2.0	2.0	2.0
87.5°	2.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0	1557.0
2.5°	1561.0	1555.0	1563.0	1568.9	1566.9	1561.0	1570.9	1555.0	1561.0	1555.0	1545.1
5°	1588.8	1582.8	1588.8	1592.7	1590.7	1580.9	1588.8	1574.8	1578.9	1570.9	1561.0
7.5°	1618.6	1610.6	1612.6	1614.5	1608.6	1594.7	1600.7	1582.8	1584.8	1574.8	1563.0
10°	1646.4	1634.5	1632.4	1628.5	1616.6	1598.7	1600.7	1578.9	1576.8	1563.0	1549.1
12.5°	1682.1	1662.3	1654.4	1646.4	1628.5	1604.7	1600.7	1574.8	1570.9	1555.0	1539.1
15°	1707.9	1686.1	1672.2	1656.3	1632.4	1602.7	1594.7	1565.0	1557.0	1539.1	1523.2
17.5°	1713.9	1686.1	1666.2	1646.4	1618.6	1582.8	1570.9	1539.1	1529.2	1509.4	1493.5
20°	1688.0	1658.3	1636.5	1610.6	1582.8	1541.1	1529.2	1495.4	1483.5	1465.6	1449.8
22.5°	1638.5	1604.7	1582.8	1557.0	1529.2	1489.5	1475.6	1443.8	1431.9	1414.1	1398.2
25°	1566.9	1535.1	1513.3	1489.5	1463.6	1423.9	1412.0	1382.2	1372.3	1354.4	1338.5
27.5°	1467.6	1437.9	1425.9	1402.1	1378.3	1344.5	1332.6	1306.8	1296.8	1285.0	1267.1
30°	1348.5	1322.7	1316.7	1294.8	1277.0	1247.2	1237.3	1215.4	1205.5	1195.6	1179.7
32.5°	1211.5	1191.6	1191.6	1173.8	1161.8	1138.0	1130.0	1112.1	1104.2	1096.2	1082.4
35°	1056.5	1042.6	1050.6	1038.6	1032.7	1016.8	1010.9	997.0	991.0	985.0	971.2
37.5°	891.7	881.8	897.7	899.7	899.7	885.7	881.8	873.8	869.8	863.9	852.0
40°	728.8	726.8	750.7	754.7	766.6	758.6	760.6	754.7	750.7	746.7	738.8
42.5°	577.9	585.9	615.6	633.5	645.4	645.4	651.4	649.4	647.4	643.5	637.5
45°	448.8	464.7	500.5	522.3	546.2	552.1	562.0	562.0	564.1	562.0	556.1
47.5°	343.6	367.4	409.1	442.9	468.7	480.6	494.5	498.5	500.5	500.5	496.5
50°	260.2	290.0	337.6	375.3	411.1	427.0	442.9	448.8	456.8	454.8	450.8
52.5°	196.6	230.3	282.0	327.7	365.4	383.3	401.2	409.1	417.1	417.1	415.0
55°	145.0	180.7	236.4	284.0	323.7	345.6	363.5	371.4	381.3	383.3	381.3
57.5°	105.3	141.0	194.7	246.2	284.0	307.9	325.7	333.6	343.6	345.6	345.6
60°	77.4	113.2	164.8	212.5	248.2	272.1	286.0	295.9	303.8	307.9	307.9
62.5°	59.6	91.4	139.0	182.7	214.5	234.4	248.2	256.2	264.1	266.1	268.1
65°	49.7	77.4	117.1	154.9	182.7	200.6	212.5	220.4	226.4	228.3	228.3
67.5°	41.7	65.6	97.3	127.1	150.9	164.8	174.7	180.7	186.7	188.6	188.6
70°	33.8	51.7	77.4	101.3	119.1	131.1	139.0	145.0	148.9	148.9	148.9
72.5°	25.8	39.7	57.6	75.5	89.4	99.3	105.3	107.3	111.2	111.2	111.2
75°	17.9	27.8	41.7	53.6	61.5	69.5	73.5	75.5	77.4	79.4	77.4
77.5°	12.0	17.9	25.8	33.8	41.7	45.6	47.7	49.7	51.7	51.7	51.7
80°	7.9	12.0	15.9	21.8	25.8	27.8	29.8	29.8	31.8	31.8	31.8
82.5°	4.0	5.9	10.0	12.0	13.9	15.9	15.9	15.9	17.9	17.9	15.9
85°	2.0	2.0	4.0	5.9	5.9	7.9	7.9	7.9	7.9	7.9	7.9
87.5°	0.0	0.0	0.0	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: P136575

CATALOG NUMBER: LD6A30D010TE ERW6A30940 6LW121LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1557.0	1557.0	1557.0	1557.0
2.5°	1549.1	1553.0	1537.1	1557.0
5°	1563.0	1566.9	1551.0	1570.9
7.5°	1565.0	1566.9	1551.0	1570.9
10°	1551.0	1551.0	1535.1	1555.0
12.5°	1539.1	1537.1	1519.2	1539.1
15°	1521.2	1519.2	1501.4	1521.2
17.5°	1491.5	1489.5	1471.6	1489.5
20°	1445.8	1443.8	1427.9	1445.8
22.5°	1396.2	1392.1	1376.3	1392.1
25°	1338.5	1334.5	1318.6	1332.6
27.5°	1265.1	1261.1	1245.2	1259.1
30°	1177.7	1171.7	1159.8	1169.7
32.5°	1078.3	1074.4	1060.5	1072.4
35°	969.1	963.2	953.3	963.2
37.5°	850.0	846.0	836.1	842.1
40°	734.8	732.9	724.9	728.8
42.5°	635.5	631.5	625.6	629.5
45°	556.1	554.1	548.2	552.1
47.5°	496.5	494.5	488.5	492.6
50°	452.8	450.8	446.8	448.8
52.5°	417.1	415.0	411.1	417.1
55°	385.3	383.3	377.3	383.3
57.5°	349.5	347.6	341.6	349.5
60°	309.8	309.8	303.8	311.8
62.5°	270.1	270.1	266.1	272.1
65°	232.4	230.3	228.3	232.4
67.5°	190.6	188.6	188.6	192.6
70°	150.9	148.9	148.9	152.9
72.5°	113.2	111.2	111.2	113.2
75°	79.4	77.4	77.4	79.4
77.5°	51.7	51.7	51.7	51.7
80°	31.8	31.8	31.8	31.8
82.5°	17.9	17.9	15.9	17.9
85°	7.9	7.9	7.9	7.9
87.5°	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)