

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: P136573

Luminaire Tested: **LD6A30D010TE ERW6A30930 6LW121LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P136573  
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 ERW6A30930 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 3000K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2650.4 lumens  
Efficiency: N/A  
Efficacy: 58.4 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

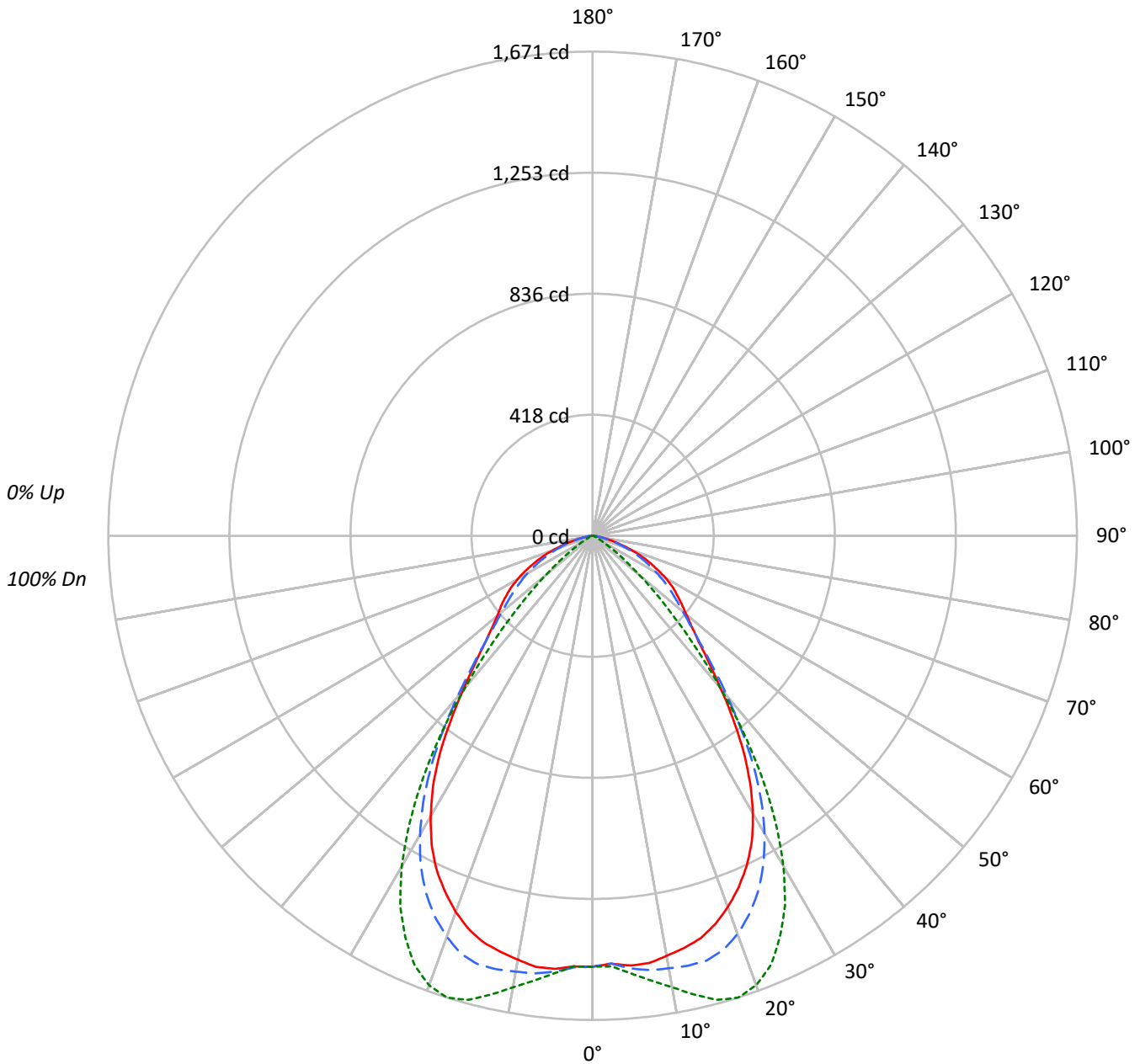
Input Watts (W): 45.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	97032	97032	97032
5°	97527	99269	98274
10°	97522	104809	98410
15°	97125	111992	98145
20°	94699	114583	95886
25°	90536	110072	91637
30°	83319	99176	84178
35°	72221	81285	73281
40°	58492	58492	59301
45°	47784	37109	48651
50°	42750	21182	43512
55°	40356	10794	41642
60°	37866	4710	38857
65°	33097	2640	34271
70°	26781	2175	27869
75°	18653	1437	19132
80°	11384	714	11384
85°	5689	1422	5689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.6	5.5
10°-20°	433.5	16.4
20°-30°	630.7	23.8
30°-40°	599.4	22.6
40°-50°	388.3	14.7
50°-60°	243.6	9.2
60°-70°	145.7	5.5
70°-80°	56.8	2.1
80°-90°	7.8	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°	1208.9	45.6
0°-40°	1808.3	68.2
0°-60°	2440.2	92.1
0°-90°	2650.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2650.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1487	1487	1487	1487	1487	
5°	1489	1499	1516	1510	1501	142
15°	1438	1518	1658	1531	1453	404
25°	1258	1353	1529	1360	1273	575
35°	907	968	1021	971	920	562
45°	518	526	402	527	527	409
55°	355	326	95	330	366	318
65°	214	188	17	192	222	212
75°	74	64	6	66	76	82
85°	8	8	2	8	8	11
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°	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3
2.5°	1477.9	1468.4	1494.9	1479.7	1481.6	1500.6	1485.5	1479.7	1498.7	1477.9	1487.3
5°	1489.2	1481.6	1508.2	1494.9	1496.8	1515.8	1502.5	1496.8	1517.7	1498.7	1508.2
7.5°	1487.3	1481.6	1506.3	1494.9	1496.8	1519.6	1506.3	1504.4	1529.1	1512.0	1525.3
10°	1472.1	1464.5	1491.1	1481.6	1485.5	1510.1	1498.7	1498.7	1527.2	1515.8	1534.8
12.5°	1457.0	1449.4	1476.0	1468.4	1472.1	1498.7	1491.1	1494.9	1527.2	1519.6	1544.2
15°	1438.0	1430.4	1458.9	1451.3	1455.0	1483.5	1479.7	1483.5	1519.6	1517.7	1546.2
17.5°	1405.7	1401.9	1426.7	1422.8	1426.7	1455.0	1453.1	1458.9	1498.7	1498.7	1534.8
20°	1364.0	1358.4	1384.8	1381.1	1383.0	1411.4	1411.4	1417.2	1458.9	1462.6	1498.7
22.5°	1314.7	1310.9	1337.5	1331.8	1335.5	1362.1	1362.1	1367.8	1407.7	1413.3	1451.3
25°	1257.7	1254.0	1278.7	1276.7	1278.7	1305.2	1303.3	1310.9	1348.9	1352.6	1388.7
27.5°	1189.5	1183.8	1208.4	1208.4	1210.4	1235.0	1235.0	1238.8	1273.0	1276.7	1310.9
30°	1106.0	1100.3	1123.1	1125.0	1125.0	1149.6	1149.6	1151.6	1183.8	1185.7	1216.0
32.5°	1011.1	1011.1	1028.2	1030.1	1030.1	1052.9	1054.8	1054.8	1083.3	1083.3	1107.9
35°	906.8	908.7	921.9	923.9	925.8	946.7	946.7	944.8	969.4	967.5	988.4
37.5°	794.9	794.9	808.2	810.1	810.1	829.0	829.0	827.2	848.0	842.3	857.5
40°	686.8	686.8	698.2	701.9	700.0	715.2	715.2	713.3	728.5	720.9	728.5
42.5°	591.9	595.7	603.3	605.1	603.3	616.5	614.6	612.8	624.1	612.8	614.6
45°	517.9	521.7	527.3	529.3	527.3	536.8	535.0	531.2	536.8	525.5	519.8
47.5°	462.9	464.8	474.3	472.4	470.5	478.0	478.0	470.5	472.4	457.2	445.8
50°	421.2	423.1	430.7	430.7	426.8	434.4	430.7	423.1	421.2	404.1	387.0
52.5°	387.0	388.9	396.5	396.5	392.7	398.4	394.6	383.2	381.4	364.3	343.4
55°	354.8	356.6	364.3	364.3	360.5	364.3	358.5	349.0	345.3	326.3	303.6
57.5°	326.3	324.4	330.0	330.0	326.3	328.2	324.4	314.9	307.3	290.2	267.5
60°	290.2	288.3	292.2	292.2	288.3	290.2	286.5	275.1	271.3	254.2	231.4
62.5°	250.4	250.4	254.2	254.2	250.4	250.4	248.5	237.1	233.4	218.2	199.2
65°	214.4	214.4	218.2	218.2	214.4	216.3	212.5	204.9	201.1	187.8	170.7
67.5°	178.3	178.3	180.2	180.2	178.3	178.3	176.4	170.7	165.1	155.6	140.4
70°	140.4	140.4	142.2	142.2	140.4	140.4	140.4	134.7	132.8	123.3	111.9
72.5°	104.4	104.4	106.3	106.3	106.3	108.1	106.3	102.4	98.6	92.9	83.4
75°	74.0	74.0	74.0	75.9	74.0	74.0	75.9	72.1	70.2	64.5	58.8
77.5°	49.3	49.3	49.3	49.3	49.3	51.2	49.3	49.3	47.4	43.6	39.8
80°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	28.5	28.5	24.7
82.5°	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	17.1	15.2	13.2
85°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	5.7
87.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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°	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3
2.5°	1485.5	1487.3	1487.3	1493.0	1498.7	1483.5	1491.1	1487.3	1483.5	1498.7	1489.2
5°	1510.1	1512.0	1512.0	1519.6	1527.2	1510.1	1517.7	1515.8	1512.0	1525.3	1515.8
7.5°	1529.1	1534.8	1538.6	1548.0	1557.5	1542.3	1551.8	1548.0	1546.2	1559.4	1546.2
10°	1542.3	1553.7	1559.4	1574.6	1587.9	1572.7	1586.0	1582.1	1580.3	1591.6	1576.5
12.5°	1557.5	1572.7	1587.9	1605.0	1624.0	1610.6	1627.7	1622.0	1622.0	1631.5	1612.5
15°	1567.0	1586.0	1606.9	1631.5	1654.3	1644.8	1663.8	1658.1	1658.1	1665.7	1644.8
17.5°	1557.5	1582.1	1606.9	1635.3	1661.8	1656.2	1677.0	1671.3	1669.4	1677.0	1652.3
20°	1525.3	1553.7	1582.1	1610.6	1641.0	1637.2	1659.9	1650.4	1652.3	1656.2	1631.5
22.5°	1474.0	1504.4	1532.8	1563.2	1591.6	1589.8	1610.6	1605.0	1603.0	1608.7	1582.1
25°	1413.3	1439.9	1466.5	1493.0	1521.5	1517.7	1538.6	1529.1	1530.9	1532.8	1510.1
27.5°	1331.8	1356.4	1377.3	1400.1	1426.7	1420.9	1441.8	1438.0	1432.3	1434.2	1415.2
30°	1231.2	1252.1	1267.2	1286.2	1307.1	1301.4	1320.4	1316.5	1312.8	1312.8	1301.4
32.5°	1117.4	1132.6	1142.1	1155.3	1170.5	1164.8	1180.0	1176.2	1172.4	1172.4	1164.8
35°	990.2	999.7	999.7	1007.3	1018.7	1009.2	1022.6	1020.6	1015.0	1016.8	1015.0
37.5°	851.8	855.6	848.0	848.0	855.6	842.3	853.7	853.7	848.0	849.9	849.9
40°	717.1	715.2	700.0	692.4	692.4	679.2	688.7	686.8	682.9	684.8	688.7
42.5°	597.6	586.2	565.3	550.2	546.3	531.2	536.8	535.0	531.2	535.0	540.7
45°	497.0	476.1	447.7	426.8	417.3	402.2	404.1	402.2	400.3	404.1	413.6
47.5°	417.3	388.9	352.9	326.3	313.0	295.9	295.9	294.1	294.1	303.6	309.2
50°	354.8	320.6	278.8	248.5	229.5	214.4	210.5	208.7	210.5	218.2	229.5
52.5°	307.3	265.6	220.0	187.8	167.0	149.9	146.1	144.2	146.1	153.7	165.1
55°	265.6	222.0	174.6	138.5	115.8	100.5	94.9	94.9	94.9	104.4	115.8
57.5°	227.6	184.1	136.6	100.5	79.7	64.5	58.8	56.9	60.7	66.4	77.8
60°	195.4	153.7	108.1	75.9	55.1	41.7	36.1	36.1	36.1	43.6	55.1
62.5°	167.0	129.0	87.3	56.9	39.8	28.5	22.7	22.7	24.7	28.5	39.8
65°	142.2	110.0	74.0	49.3	32.2	22.7	19.0	17.1	19.0	22.7	32.2
67.5°	117.6	91.0	62.6	41.7	28.5	19.0	17.1	15.2	15.2	20.9	26.6
70°	92.9	72.1	51.2	34.1	22.7	15.2	13.2	11.4	13.2	17.1	22.7
72.5°	70.2	55.1	38.0	26.6	17.1	13.2	9.5	9.5	9.5	13.2	17.1
75°	49.3	39.8	28.5	19.0	11.4	7.6	7.6	5.7	7.6	9.5	11.4
77.5°	32.2	26.6	19.0	11.4	7.6	5.7	3.8	3.8	3.8	5.7	7.6
80°	20.9	17.1	11.4	7.6	5.7	3.8	1.9	1.9	1.9	3.8	3.8
82.5°	11.4	9.5	5.7	3.8	3.8	1.9	1.9	1.9	1.9	1.9	1.9
85°	5.7	3.8	3.8	1.9	1.9	1.9	0.0	1.9	1.9	1.9	1.9
87.5°	1.9	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°	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3	1487.3
2.5°	1491.1	1485.5	1493.0	1498.7	1496.8	1491.1	1500.6	1485.5	1491.1	1485.5	1476.0
5°	1517.7	1512.0	1517.7	1521.5	1519.6	1510.1	1517.7	1504.4	1508.2	1500.6	1491.1
7.5°	1546.2	1538.6	1540.4	1542.3	1536.7	1523.3	1529.1	1512.0	1513.8	1504.4	1493.0
10°	1572.7	1561.3	1559.4	1555.7	1544.2	1527.2	1529.1	1508.2	1506.3	1493.0	1479.7
12.5°	1606.9	1587.9	1580.3	1572.7	1555.7	1532.8	1529.1	1504.4	1500.6	1485.5	1470.2
15°	1631.5	1610.6	1597.4	1582.1	1559.4	1530.9	1523.3	1494.9	1487.3	1470.2	1455.0
17.5°	1637.2	1610.6	1591.6	1572.7	1546.2	1512.0	1500.6	1470.2	1460.8	1441.8	1426.7
20°	1612.5	1584.1	1563.2	1538.6	1512.0	1472.1	1460.8	1428.5	1417.2	1400.1	1384.8
22.5°	1565.1	1532.8	1512.0	1487.3	1460.8	1422.8	1409.6	1379.2	1367.8	1350.7	1335.5
25°	1496.8	1466.5	1445.6	1422.8	1398.2	1360.2	1348.9	1320.4	1310.9	1293.8	1278.7
27.5°	1401.9	1373.5	1362.1	1339.4	1316.5	1284.3	1273.0	1248.3	1238.8	1227.4	1210.4
30°	1288.2	1263.5	1257.7	1236.9	1219.9	1191.4	1181.9	1161.1	1151.6	1142.1	1126.9
32.5°	1157.2	1138.2	1138.2	1121.2	1109.8	1087.0	1079.4	1062.4	1054.8	1047.2	1033.9
35°	1009.2	996.0	1003.6	992.2	986.5	971.3	965.6	952.4	946.7	940.9	927.7
37.5°	851.8	842.3	857.5	859.4	859.4	846.1	842.3	834.8	830.9	825.3	813.8
40°	696.3	694.3	717.1	720.9	732.3	724.6	726.6	720.9	717.1	713.3	705.7
42.5°	552.1	559.7	588.1	605.1	616.5	616.5	622.2	620.4	618.5	614.6	609.0
45°	428.7	443.9	478.0	499.0	521.7	527.3	536.8	536.8	538.8	536.8	531.2
47.5°	328.2	351.0	390.8	423.1	447.7	459.1	472.4	476.1	478.0	478.0	474.3
50°	248.5	277.0	322.5	358.5	392.7	407.8	423.1	428.7	436.3	434.4	430.7
52.5°	187.8	220.0	269.4	313.0	349.0	366.1	383.2	390.8	398.4	398.4	396.5
55°	138.5	172.6	225.8	271.3	309.2	330.0	347.2	354.8	364.3	366.1	364.3
57.5°	100.5	134.7	185.9	235.3	271.3	294.1	311.2	318.7	328.2	330.0	330.0
60°	74.0	108.1	157.5	203.0	237.1	259.9	273.2	282.7	290.2	294.1	294.1
62.5°	56.9	87.3	132.8	174.6	204.9	223.9	237.1	244.7	252.4	254.2	256.1
65°	47.4	74.0	111.9	148.0	174.6	191.6	203.0	210.5	216.3	218.2	218.2
67.5°	39.8	62.6	92.9	121.4	144.2	157.5	167.0	172.6	178.3	180.2	180.2
70°	32.2	49.3	74.0	96.8	113.9	125.2	132.8	138.5	142.2	142.2	142.2
72.5°	24.7	38.0	55.1	72.1	85.4	94.9	100.5	102.4	106.3	106.3	106.3
75°	17.1	26.6	39.8	51.2	58.8	66.4	70.2	72.1	74.0	75.9	74.0
77.5°	11.4	17.1	24.7	32.2	39.8	43.6	45.6	47.4	49.3	49.3	49.3
80°	7.6	11.4	15.2	20.9	24.7	26.6	28.5	28.5	30.3	30.3	30.3
82.5°	3.8	5.7	9.5	11.4	13.2	15.2	15.2	15.2	17.1	17.1	15.2
85°	1.9	1.9	3.8	5.7	5.7	7.6	7.6	7.6	7.6	7.6	7.6
87.5°	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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: P136573

CATALOG NUMBER: LD6A30D010TE ERW6A30930 6LW121LI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1487.3	1487.3	1487.3	1487.3
2.5°	1479.7	1483.5	1468.4	1487.3
5°	1493.0	1496.8	1481.6	1500.6
7.5°	1494.9	1496.8	1481.6	1500.6
10°	1481.6	1481.6	1466.5	1485.5
12.5°	1470.2	1468.4	1451.3	1470.2
15°	1453.1	1451.3	1434.2	1453.1
17.5°	1424.7	1422.8	1405.7	1422.8
20°	1381.1	1379.2	1364.0	1381.1
22.5°	1333.6	1329.9	1314.7	1329.9
25°	1278.7	1274.8	1259.7	1273.0
27.5°	1208.4	1204.6	1189.5	1202.8
30°	1125.0	1119.2	1107.9	1117.4
32.5°	1030.1	1026.3	1013.1	1024.4
35°	925.8	920.1	910.6	920.1
37.5°	811.9	808.2	798.7	804.4
40°	701.9	700.0	692.4	696.3
42.5°	607.1	603.3	597.6	601.4
45°	531.2	529.3	523.6	527.3
47.5°	474.3	472.4	466.7	470.5
50°	432.6	430.7	426.8	428.7
52.5°	398.4	396.5	392.7	398.4
55°	368.0	366.1	360.5	366.1
57.5°	333.9	332.0	326.3	333.9
60°	295.9	295.9	290.2	297.8
62.5°	258.0	258.0	254.2	259.9
65°	222.0	220.0	218.2	222.0
67.5°	182.1	180.2	180.2	184.1
70°	144.2	142.2	142.2	146.1
72.5°	108.1	106.3	106.3	108.1
75°	75.9	74.0	74.0	75.9
77.5°	49.3	49.3	49.3	49.3
80°	30.3	30.3	30.3	30.3
82.5°	17.1	17.1	15.2	17.1
85°	7.6	7.6	7.6	7.6
87.5°	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0



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















(END OF REPORT)