

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: P136332

Luminaire Tested: **LD6A30D010TE ERW6A30927 6LW111LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P136332  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23359-R2)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6A30D010TE ERW6A30927 6LW111LI  
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED SINGLE WALL WASH LUMINAIRE  
SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER  
Light Source: (1) HIGH LUMEN LED 2700K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

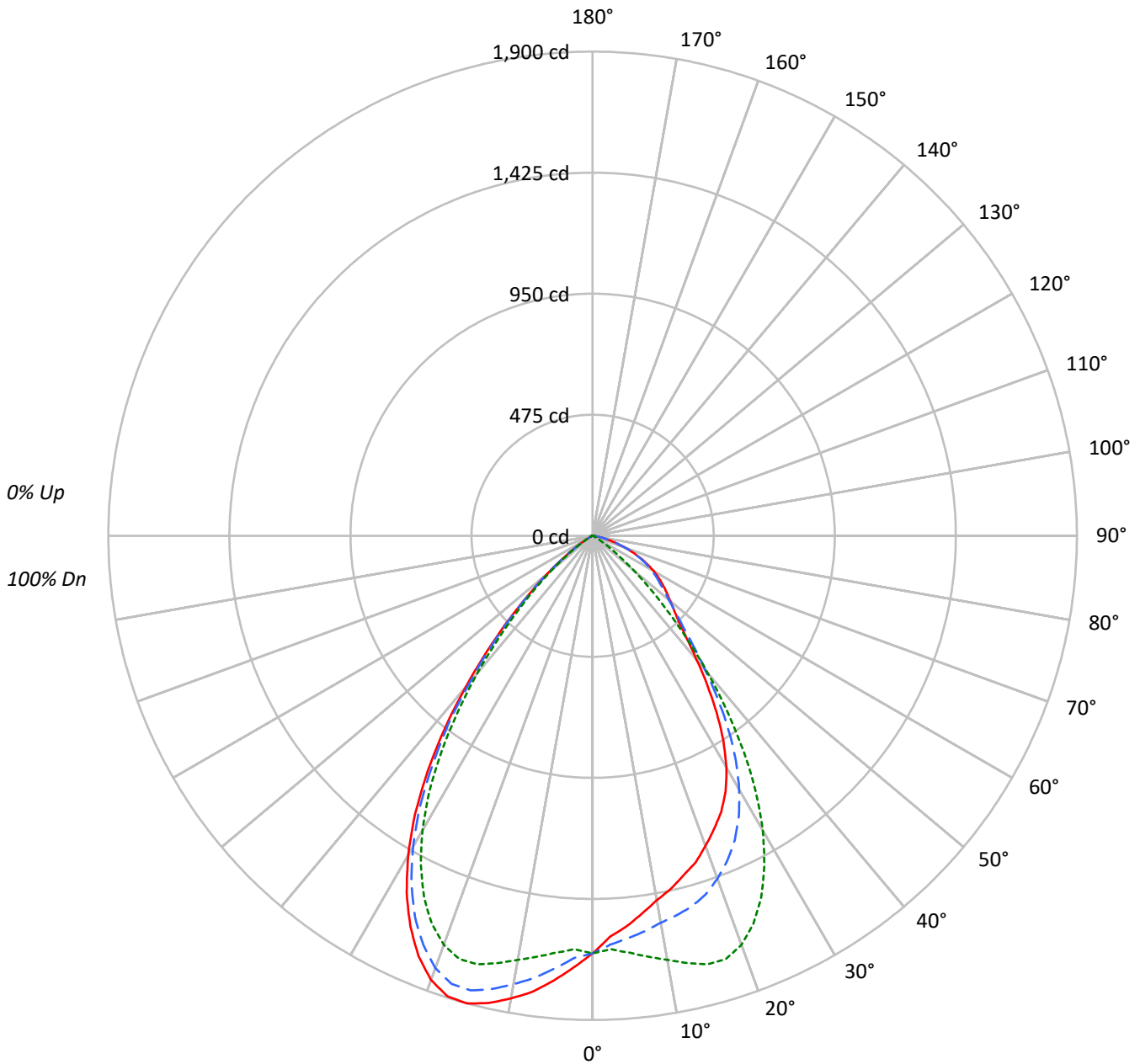
Lumens per Lamp: N/A  
Luminaire Lumens: 2570.1 lumens  
Efficiency: N/A  
Efficacy: 56.6 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.1  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 45.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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					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								
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91								
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82								
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74								
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	71	68	66								
5	86	76	69	64	84	75	69	64	73	68	63	72	67	63	70	66	62	60								
6	81	70	63	58	79	70	63	58	68	62	57	66	61	57	65	60	57	55								
7	76	65	58	53	75	64	58	53	63	57	53	62	56	52	60	56	52	50								
8	72	60	53	49	70	60	53	48	59	53	48	58	52	48	56	51	48	46								
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43								
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	106897	106897	106897
5°	100717	107541	114732
10°	96184	111938	122113
15°	93127	117577	128330
20°	89881	118575	128733
25°	85957	112678	121763
30°	79077	100563	108970
35°	67578	82288	89862
40°	54038	59650	66029
45°	44038	37791	42349
50°	40274	20786	23578
55°	38263	8531	9975
60°	36026	3092	3092
65°	32171	1698	1405
70°	25809	1392	1049
75°	17065	933	933
80°	8904	676	676
85°	4117	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.1	6.2
10°-20°	473.9	18.4
20°-30°	681.8	26.5
30°-40°	626.3	24.4
40°-50°	359.6	14.0
50°-60°	158.9	6.2
60°-70°	78.0	3.0
70°-80°	30.0	1.2
80°-90°	3.4	0.1
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°	1313.9	51.1
0°-40°	1940.2	75.5
0°-60°	2458.7	95.7
0°-90°	2570.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2570.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1638	1638	1638	1638	1638	
5°	1538	1585	1642	1704	1752	144
15°	1379	1505	1741	1847	1900	389
25°	1194	1318	1565	1649	1692	545
35°	848	929	1033	1092	1128	526
45°	477	497	410	448	459	379
55°	336	320	75	82	88	301
65°	208	201	11	7	9	204
75°	68	71	4	4	4	76
85°	6	6	0	0	0	9
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°	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5
2.5°	1574.5	1583.6	1574.5	1587.3	1594.6	1598.2	1594.6	1585.4	1598.2	1605.5	1603.7
5°	1537.9	1545.2	1537.9	1550.6	1559.9	1569.0	1565.3	1559.9	1574.5	1585.4	1587.3
7.5°	1494.0	1503.2	1497.7	1510.5	1521.4	1532.4	1532.4	1530.6	1548.8	1565.3	1570.8
10°	1451.9	1459.2	1455.6	1468.4	1481.2	1494.0	1497.7	1499.5	1519.6	1541.5	1554.3
12.5°	1419.0	1422.6	1419.0	1433.7	1446.5	1461.1	1468.4	1472.0	1497.7	1525.1	1541.5
15°	1378.8	1387.9	1384.3	1398.9	1413.5	1429.9	1439.2	1446.5	1473.9	1505.0	1528.7
17.5°	1344.0	1347.7	1344.0	1360.5	1373.3	1391.6	1402.6	1411.7	1441.0	1475.7	1501.3
20°	1294.6	1301.9	1300.1	1314.8	1329.4	1345.9	1356.8	1365.9	1397.1	1431.9	1461.1
22.5°	1245.3	1252.6	1252.6	1267.2	1278.2	1296.5	1305.7	1314.8	1344.0	1380.6	1406.2
25°	1194.1	1199.6	1197.8	1210.5	1223.3	1241.7	1249.0	1258.1	1285.5	1318.5	1342.2
27.5°	1130.1	1133.8	1137.4	1148.4	1157.5	1173.9	1179.5	1188.6	1210.5	1241.7	1263.6
30°	1049.7	1053.3	1058.8	1067.9	1075.2	1091.7	1095.3	1102.6	1124.6	1150.2	1170.3
32.5°	954.5	956.4	965.5	972.8	981.9	993.0	1002.1	1003.9	1020.4	1045.9	1060.6
35°	848.5	850.3	859.5	865.0	874.1	885.1	892.4	894.2	908.8	929.0	938.1
37.5°	738.8	749.8	747.9	753.4	762.5	771.7	779.0	779.0	789.9	806.5	810.1
40°	634.5	640.0	645.5	649.1	656.4	663.8	669.3	669.3	676.6	687.6	687.6
42.5°	545.0	554.1	554.1	557.8	563.2	570.5	574.2	572.4	576.0	581.5	577.8
45°	477.3	481.0	482.8	488.3	490.1	497.4	499.2	495.6	497.4	497.4	486.4
47.5°	433.4	433.4	433.4	437.1	438.9	444.4	444.4	438.9	437.1	435.2	420.6
50°	396.8	396.8	398.6	402.3	404.1	405.9	405.9	398.6	396.8	389.5	369.4
52.5°	365.7	367.6	367.6	371.2	373.1	374.9	373.1	365.7	360.3	353.0	329.1
55°	336.4	338.3	340.1	343.7	343.7	343.7	341.9	334.6	329.1	320.0	296.3
57.5°	307.2	309.1	309.1	312.7	314.5	314.5	312.7	305.4	299.9	292.6	267.0
60°	276.1	276.1	277.9	281.6	281.6	283.4	281.6	276.1	270.6	261.5	239.6
62.5°	241.4	243.2	245.0	248.7	250.5	250.5	250.5	245.0	241.4	234.1	212.1
65°	208.4	208.4	210.3	213.9	213.9	219.4	215.7	212.1	208.4	201.1	182.9
67.5°	170.1	171.9	171.9	175.6	177.4	179.2	179.2	175.6	173.7	168.3	151.7
70°	135.3	135.3	137.1	139.0	140.8	142.6	142.6	140.8	139.0	133.5	120.7
72.5°	98.8	100.6	100.6	102.4	106.1	107.9	107.9	107.9	104.3	100.6	91.4
75°	67.7	69.5	69.5	71.3	73.1	75.0	75.0	75.0	73.1	71.3	64.0
77.5°	42.1	42.1	43.9	43.9	45.7	47.6	49.4	49.4	47.6	45.7	42.1
80°	23.7	23.7	25.6	25.6	25.6	27.4	29.2	29.2	29.2	27.4	23.7
82.5°	12.8	12.8	12.8	12.8	12.8	14.6	14.6	14.6	14.6	14.6	12.8
85°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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°	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5
2.5°	1603.7	1616.5	1625.7	1611.0	1623.9	1636.6	1651.3	1623.9	1649.4	1634.8	1640.3
5°	1594.6	1609.2	1622.0	1612.8	1629.3	1645.8	1665.9	1642.1	1671.3	1660.4	1669.5
7.5°	1581.8	1601.9	1620.1	1616.5	1638.5	1660.4	1686.0	1665.9	1697.0	1691.5	1702.5
10°	1570.8	1598.2	1622.0	1622.0	1651.3	1676.8	1704.3	1689.7	1726.2	1720.7	1735.3
12.5°	1563.5	1598.2	1629.3	1634.8	1669.5	1698.8	1731.7	1717.1	1757.3	1751.9	1768.3
15°	1556.1	1596.4	1633.0	1643.9	1682.3	1717.1	1751.9	1740.8	1782.9	1777.4	1793.9
17.5°	1532.4	1579.9	1620.1	1634.8	1676.8	1713.4	1750.0	1740.8	1782.9	1777.4	1793.9
20°	1492.1	1539.7	1583.6	1600.0	1642.1	1680.5	1715.3	1707.9	1750.0	1744.5	1759.2
22.5°	1441.0	1486.6	1528.7	1545.2	1585.4	1620.1	1654.9	1647.6	1687.9	1678.6	1695.2
25°	1369.7	1417.2	1457.4	1470.2	1506.8	1541.5	1572.6	1565.3	1603.7	1592.7	1609.2
27.5°	1296.5	1331.2	1364.1	1375.2	1408.0	1437.3	1466.6	1459.2	1495.9	1483.0	1499.5
30°	1197.8	1225.2	1254.5	1259.9	1291.0	1314.8	1340.4	1334.9	1365.9	1355.0	1369.7
32.5°	1082.5	1106.3	1126.5	1128.3	1153.8	1173.9	1195.9	1192.3	1219.7	1210.5	1221.5
35°	956.4	971.0	983.8	981.9	1002.1	1016.7	1036.8	1033.2	1058.8	1049.7	1060.6
37.5°	822.9	830.2	833.8	826.5	841.1	852.1	866.8	865.0	886.9	879.6	890.5
40°	693.1	693.1	687.6	674.8	683.9	689.4	700.4	700.4	716.8	709.5	718.6
42.5°	574.2	566.9	554.1	535.7	537.6	545.0	545.0	545.0	557.8	550.4	566.9
45°	477.3	460.8	440.7	417.0	409.6	413.3	409.6	409.6	418.8	413.3	426.1
47.5°	402.3	382.2	347.4	318.2	305.4	303.6	298.1	298.1	303.6	303.6	309.1
50°	345.6	316.4	274.3	239.6	221.2	215.7	208.4	204.8	210.3	208.4	212.1
52.5°	299.9	263.3	213.9	173.7	155.4	142.6	137.1	129.8	131.7	131.7	133.5
55°	261.5	219.4	166.4	124.4	104.3	89.6	82.3	75.0	75.0	73.1	75.0
57.5°	232.3	188.4	135.3	93.2	71.3	56.7	49.4	42.1	40.3	40.3	40.3
60°	206.6	164.6	111.6	73.1	51.2	36.6	29.2	23.7	21.9	20.1	20.1
62.5°	181.0	142.6	95.0	60.3	38.4	27.4	20.1	14.6	12.8	11.0	11.0
65°	155.4	122.5	82.3	51.2	33.0	21.9	14.6	11.0	9.1	7.3	7.3
67.5°	128.0	100.6	69.5	42.1	27.4	18.3	12.8	9.1	7.3	5.5	5.5
70°	102.4	80.4	54.9	34.8	21.9	14.6	9.1	7.3	5.5	5.5	5.5
72.5°	76.8	60.3	42.1	25.6	16.4	11.0	7.3	5.5	3.7	3.7	3.7
75°	54.9	43.9	29.2	18.3	11.0	7.3	5.5	3.7	3.7	3.7	3.7
77.5°	34.8	27.4	18.3	11.0	7.3	3.7	3.7	1.8	1.8	1.8	1.8
80°	20.1	16.4	11.0	7.3	3.7	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	11.0	7.3	5.5	3.7	1.8	1.8	1.8	0.0	0.0	0.0	0.0
85°	3.7	3.7	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	1.8	1.8	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°	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5	1638.5
2.5°	1654.9	1651.3	1664.0	1669.5	1665.9	1658.6	1682.3	1687.9	1671.3	1678.6	1678.6
5°	1687.9	1687.9	1704.3	1711.6	1711.6	1704.3	1731.7	1740.8	1724.4	1731.7	1733.5
7.5°	1724.4	1724.4	1744.5	1753.7	1755.5	1750.0	1777.4	1784.7	1773.8	1781.1	1782.9
10°	1757.3	1757.3	1781.1	1790.2	1792.0	1786.6	1814.0	1823.2	1810.3	1817.7	1819.5
12.5°	1792.0	1793.9	1817.7	1826.8	1826.8	1821.3	1848.7	1857.9	1843.3	1852.4	1850.6
15°	1817.7	1819.5	1843.3	1852.4	1854.2	1846.9	1872.5	1883.5	1868.8	1874.3	1874.3
17.5°	1815.9	1817.7	1839.6	1848.7	1848.7	1843.3	1865.2	1878.0	1863.3	1868.8	1867.0
20°	1779.3	1781.1	1804.8	1812.2	1812.2	1804.8	1825.0	1837.8	1823.2	1826.8	1825.0
22.5°	1713.4	1715.3	1737.2	1744.5	1746.3	1737.2	1757.3	1772.0	1755.5	1757.3	1755.5
25°	1627.5	1627.5	1651.3	1651.3	1660.4	1649.4	1664.0	1684.1	1667.7	1667.7	1662.2
27.5°	1515.9	1515.9	1539.7	1539.7	1550.6	1539.7	1563.5	1572.6	1558.0	1556.1	1556.1
30°	1386.1	1386.1	1408.0	1408.0	1417.2	1408.0	1431.9	1441.0	1426.3	1424.5	1426.3
32.5°	1237.9	1237.9	1259.9	1258.1	1269.1	1261.8	1283.7	1291.0	1280.0	1274.5	1278.2
35°	1075.2	1084.4	1097.2	1095.3	1106.3	1091.7	1119.2	1124.6	1115.5	1117.3	1111.8
37.5°	903.3	912.5	921.6	921.6	930.8	927.2	943.6	949.1	941.8	943.6	938.1
40°	731.5	740.6	747.9	747.9	757.1	746.1	768.0	773.5	766.2	758.9	762.5
42.5°	568.7	577.8	585.1	583.3	592.4	590.6	603.4	607.1	601.6	599.7	596.1
45°	427.9	429.7	442.5	448.0	448.0	448.0	457.1	459.0	453.5	453.5	451.7
47.5°	309.1	312.7	321.8	325.5	327.3	325.5	329.1	336.4	331.0	331.0	332.8
50°	213.9	215.7	223.1	226.8	226.8	226.8	228.6	234.1	230.4	230.4	226.8
52.5°	137.1	137.1	142.6	144.4	144.4	144.4	146.3	149.9	146.3	148.1	149.9
55°	76.8	76.8	80.4	82.3	82.3	82.3	84.1	85.9	84.1	85.9	85.9
57.5°	40.3	40.3	42.1	42.1	43.9	43.9	43.9	45.7	45.7	45.7	45.7
60°	20.1	20.1	20.1	21.9	21.9	21.9	21.9	23.7	23.7	23.7	23.7
62.5°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	12.8	12.8	12.8	12.8
65°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
67.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.3	7.3	7.3
70°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
72.5°	3.7	3.7	3.7	3.7	3.7	3.7	5.5	5.5	5.5	3.7	3.7
75°	1.8	3.7	3.7	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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





TEST NUMBER: P136332

CATALOG NUMBER: LD6A30D010TE ERW6A30927 6LW111LI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1638.5	1638.5	1638.5	1638.5
2.5°	1664.0	1665.9	1697.0	1695.2
5°	1718.9	1720.7	1751.9	1751.9
7.5°	1768.3	1770.1	1803.0	1804.8
10°	1804.8	1808.5	1839.6	1843.3
12.5°	1839.6	1839.6	1870.6	1878.0
15°	1861.5	1861.5	1890.8	1900.0
17.5°	1854.2	1854.2	1883.5	1894.5
20°	1814.0	1812.2	1839.6	1854.2
22.5°	1744.5	1746.3	1768.3	1784.7
25°	1656.7	1653.1	1676.8	1691.5
27.5°	1547.0	1548.8	1563.5	1579.9
30°	1415.3	1419.0	1429.9	1446.5
32.5°	1267.2	1272.7	1280.0	1296.5
35°	1104.5	1109.9	1113.7	1128.3
37.5°	929.0	936.3	938.1	952.7
40°	755.2	762.5	762.5	775.3
42.5°	592.4	597.9	596.1	607.1
45°	448.0	451.7	449.8	459.0
47.5°	327.3	331.0	327.3	334.6
50°	226.8	230.4	226.8	232.3
52.5°	146.3	148.1	144.4	149.9
55°	84.1	85.9	84.1	87.7
57.5°	47.6	45.7	43.9	47.6
60°	23.7	23.7	23.7	23.7
62.5°	12.8	12.8	12.8	12.8
65°	7.3	7.3	7.3	9.1
67.5°	7.3	7.3	7.3	7.3
70°	5.5	5.5	5.5	5.5
72.5°	3.7	3.7	3.7	3.7
75°	3.7	3.7	3.7	3.7
77.5°	1.8	1.8	1.8	1.8
80°	0.0	0.0	0.0	1.8
82.5°	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0



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















(END OF REPORT)