

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: P136328

Luminaire Tested: **LD6A30D010TE ERW6A30827 6LW111LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P136328  
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 ERW6A30827 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**

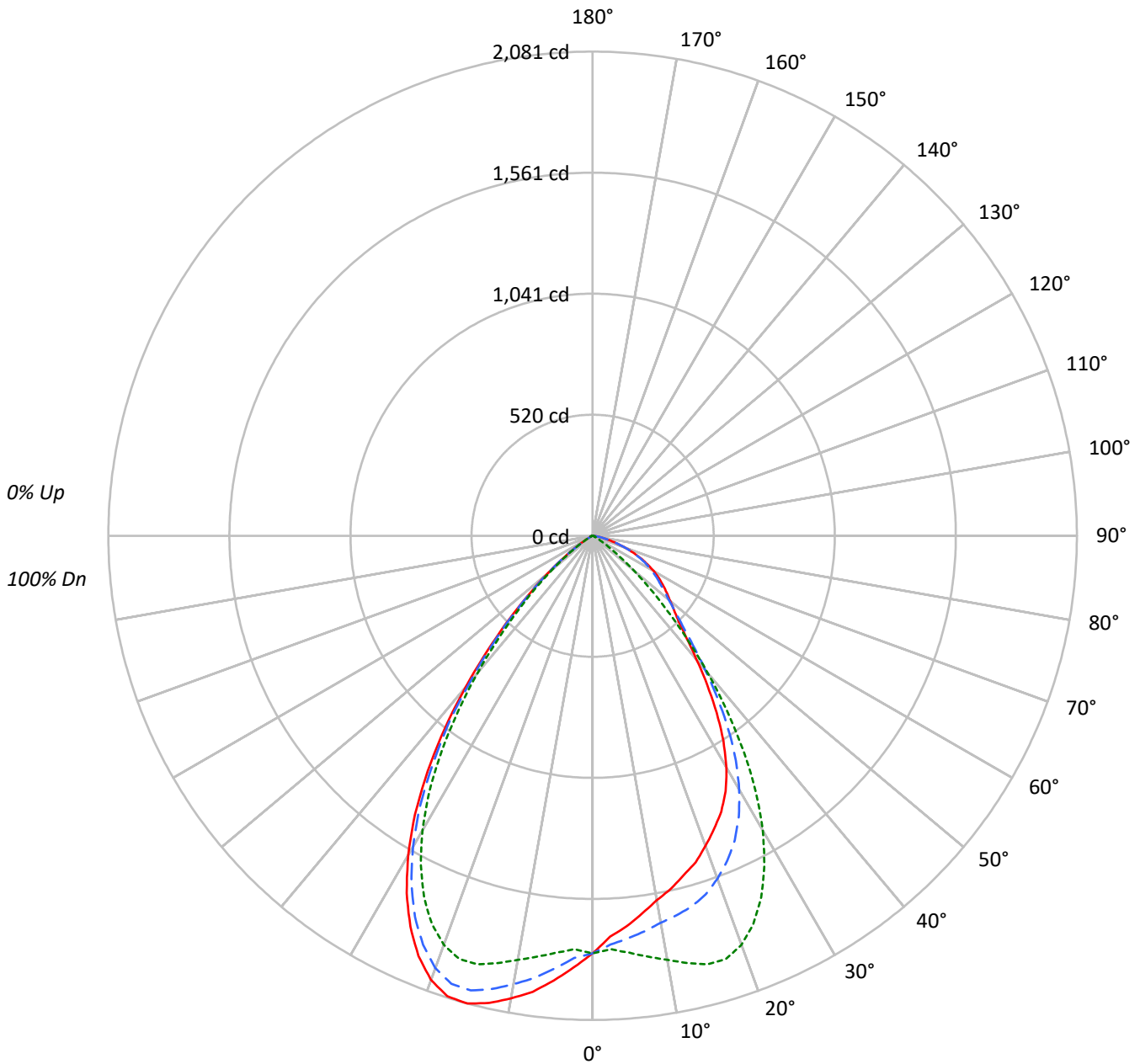
Lumens per Lamp: N/A  
Luminaire Lumens: 2815.0 lumens  
Efficiency: N/A  
Efficacy: 62.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.1  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 45.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	117081	117081	117081
5°	110311	117790	125662
10°	105353	122603	133746
15°	102002	128782	140555
20°	98448	129878	141001
25°	94149	123418	133367
30°	86611	110145	119351
35°	74013	90125	98424
40°	59190	65331	72323
45°	48236	41390	46381
50°	44110	22766	25821
55°	41915	9338	10931
60°	39458	3393	3393
65°	35243	1852	1544
70°	28269	1526	1145
75°	18678	1008	1008
80°	9768	751	751
85°	4491	0	0



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CATALOG NUMBER: LD6A30D010TE ERW6A30827 6LW111LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.2	6.2
10°-20°	519.1	18.4
20°-30°	746.8	26.5
30°-40°	686.0	24.4
40°-50°	393.9	14.0
50°-60°	174.0	6.2
60°-70°	85.5	3.0
70°-80°	32.8	1.2
80°-90°	3.7	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°	1439.1	51.1
0°-40°	2125.1	75.5
0°-60°	2693.0	95.7
0°-90°	2815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2815.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1795	1795	1795	1795	1795	
5°	1684	1736	1799	1867	1919	158
15°	1510	1648	1907	2023	2081	426
25°	1308	1444	1714	1807	1853	597
35°	929	1018	1132	1196	1236	576
45°	523	545	449	491	503	415
55°	368	350	82	90	96	330
65°	228	220	12	8	10	223
75°	74	78	4	4	4	83
85°	6	6	0	0	0	10
90°	0	0	0	0	0	



TEST NUMBER: P136328

CATALOG NUMBER: LD6A30D010TE ERW6A30827 6LW111LI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6
2.5°	1724.5	1734.5	1724.5	1738.5	1746.5	1750.5	1746.5	1736.5	1750.5	1758.5	1756.5
5°	1684.4	1692.4	1684.4	1698.4	1708.5	1718.5	1714.5	1708.5	1724.5	1736.5	1738.5
7.5°	1636.4	1646.4	1640.4	1654.4	1666.4	1678.4	1678.4	1676.4	1696.4	1714.5	1720.5
10°	1590.3	1598.3	1594.3	1608.3	1622.3	1636.4	1640.4	1642.4	1664.4	1688.4	1702.4
12.5°	1554.2	1558.2	1554.2	1570.3	1584.3	1600.3	1608.3	1612.3	1640.4	1670.4	1688.4
15°	1510.2	1520.2	1516.2	1532.2	1548.2	1566.2	1576.3	1584.3	1614.3	1648.4	1674.4
17.5°	1472.1	1476.1	1472.1	1490.1	1504.2	1524.2	1536.2	1546.2	1578.3	1616.3	1644.4
20°	1418.0	1426.0	1424.0	1440.1	1456.1	1474.1	1486.1	1496.1	1530.2	1568.3	1600.3
22.5°	1364.0	1372.0	1372.0	1388.0	1400.0	1420.0	1430.1	1440.1	1472.1	1512.2	1540.2
25°	1307.9	1313.9	1311.9	1325.9	1339.9	1360.0	1368.0	1378.0	1408.0	1444.1	1470.1
27.5°	1237.8	1241.8	1245.8	1257.8	1267.8	1285.8	1291.9	1301.9	1325.9	1360.0	1384.0
30°	1149.7	1153.7	1159.7	1169.7	1177.7	1195.7	1199.7	1207.7	1231.8	1259.8	1281.8
32.5°	1045.5	1047.5	1057.5	1065.5	1075.5	1087.6	1097.6	1099.6	1117.6	1145.6	1161.7
35°	929.3	931.3	941.4	947.4	957.4	969.4	977.4	979.4	995.4	1017.5	1027.5
37.5°	809.2	821.2	819.2	825.2	835.2	845.2	853.2	853.2	865.2	883.3	887.3
40°	695.0	701.0	707.0	711.0	719.0	727.0	733.1	733.1	741.1	753.1	753.1
42.5°	596.9	606.9	606.9	610.9	616.9	624.9	628.9	626.9	630.9	636.9	632.9
45°	522.8	526.8	528.8	534.8	536.8	544.8	546.8	542.8	544.8	544.8	532.8
47.5°	474.7	474.7	474.7	478.7	480.7	486.7	486.7	480.7	478.7	476.7	460.7
50°	434.6	434.6	436.6	440.6	442.6	444.6	444.6	436.6	434.6	426.6	404.6
52.5°	400.6	402.6	402.6	406.6	408.6	410.6	408.6	400.6	394.6	386.6	360.5
55°	368.5	370.5	372.5	376.5	376.5	376.5	374.5	366.5	360.5	350.5	324.5
57.5°	336.5	338.5	338.5	342.5	344.5	344.5	342.5	334.5	328.5	320.5	292.4
60°	302.4	302.4	304.4	308.4	308.4	310.4	308.4	302.4	296.4	286.4	262.4
62.5°	264.4	266.4	268.4	272.4	274.4	274.4	274.4	268.4	264.4	256.4	232.3
65°	228.3	228.3	230.3	234.3	234.3	240.3	236.3	232.3	228.3	220.3	200.3
67.5°	186.3	188.3	188.3	192.3	194.3	196.3	196.3	192.3	190.3	184.3	166.2
70°	148.2	148.2	150.2	152.2	154.2	156.2	156.2	154.2	152.2	146.2	132.2
72.5°	108.2	110.2	110.2	112.2	116.2	118.2	118.2	118.2	114.2	110.2	100.1
75°	74.1	76.1	76.1	78.1	80.1	82.1	82.1	82.1	80.1	78.1	70.1
77.5°	46.1	46.1	48.1	48.1	50.1	52.1	54.1	54.1	52.1	50.1	46.1
80°	26.0	26.0	28.0	28.0	28.0	30.0	32.0	32.0	32.0	30.0	26.0
82.5°	14.0	14.0	14.0	14.0	14.0	16.0	16.0	16.0	16.0	16.0	14.0
85°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6
2.5°	1756.5	1770.5	1780.6	1764.5	1778.6	1792.6	1808.6	1778.6	1806.6	1790.6	1796.6
5°	1746.5	1762.5	1776.6	1766.5	1784.6	1802.6	1824.6	1798.6	1830.6	1818.6	1828.6
7.5°	1732.5	1754.5	1774.5	1770.5	1794.6	1818.6	1846.7	1824.6	1858.7	1852.7	1864.7
10°	1720.5	1750.5	1776.6	1776.6	1808.6	1836.6	1866.7	1850.7	1890.7	1884.7	1900.7
12.5°	1712.5	1750.5	1784.6	1790.6	1828.6	1860.7	1896.7	1880.7	1924.8	1918.8	1936.8
15°	1704.4	1748.5	1788.6	1800.6	1842.6	1880.7	1918.8	1906.7	1952.8	1946.8	1964.8
17.5°	1678.4	1730.5	1774.5	1790.6	1836.6	1876.7	1916.8	1906.7	1952.8	1946.8	1964.8
20°	1634.3	1686.4	1734.5	1752.5	1798.6	1840.6	1878.7	1870.7	1916.8	1910.7	1926.8
22.5°	1578.3	1628.3	1674.4	1692.4	1736.5	1774.5	1812.6	1804.6	1848.7	1838.6	1856.7
25°	1500.2	1552.2	1596.3	1610.3	1650.4	1688.4	1722.5	1714.5	1756.5	1744.5	1762.5
27.5°	1420.0	1458.1	1494.1	1506.2	1542.2	1574.3	1606.3	1598.3	1638.4	1624.3	1642.4
30°	1311.9	1341.9	1374.0	1380.0	1414.0	1440.1	1468.1	1462.1	1496.1	1484.1	1500.2
32.5°	1185.7	1211.7	1233.8	1235.8	1263.8	1285.8	1309.9	1305.9	1335.9	1325.9	1337.9
35°	1047.5	1063.5	1077.5	1075.5	1097.6	1113.6	1135.6	1131.6	1159.7	1149.7	1161.7
37.5°	901.3	909.3	913.3	905.3	921.3	933.3	949.4	947.4	971.4	963.4	975.4
40°	759.1	759.1	753.1	739.1	749.1	755.1	767.1	767.1	785.1	777.1	787.1
42.5°	628.9	620.9	606.9	586.8	588.8	596.9	596.9	596.9	610.9	602.9	620.9
45°	522.8	504.7	482.7	456.7	448.6	452.7	448.6	448.6	458.7	452.7	466.7
47.5°	440.6	418.6	380.5	348.5	334.5	332.5	326.5	326.5	332.5	332.5	338.5
50°	378.5	346.5	300.4	262.4	242.3	236.3	228.3	224.3	230.3	228.3	232.3
52.5°	328.5	288.4	234.3	190.3	170.2	156.2	150.2	142.2	144.2	144.2	146.2
55°	286.4	240.3	182.3	136.2	114.2	98.1	90.1	82.1	82.1	80.1	82.1
57.5°	254.4	206.3	148.2	102.1	78.1	62.1	54.1	46.1	44.1	44.1	44.1
60°	226.3	180.3	122.2	80.1	56.1	40.1	32.0	26.0	24.0	22.0	22.0
62.5°	198.3	156.2	104.1	66.1	42.1	30.0	22.0	16.0	14.0	12.0	12.0
65°	170.2	134.2	90.1	56.1	36.1	24.0	16.0	12.0	10.0	8.0	8.0
67.5°	140.2	110.2	76.1	46.1	30.0	20.0	14.0	10.0	8.0	6.0	6.0
70°	112.2	88.1	60.1	38.1	24.0	16.0	10.0	8.0	6.0	6.0	6.0
72.5°	84.1	66.1	46.1	28.0	18.0	12.0	8.0	6.0	4.0	4.0	4.0
75°	60.1	48.1	32.0	20.0	12.0	8.0	6.0	4.0	4.0	4.0	4.0
77.5°	38.1	30.0	20.0	12.0	8.0	4.0	4.0	2.0	2.0	2.0	2.0
80°	22.0	18.0	12.0	8.0	4.0	2.0	2.0	2.0	2.0	2.0	2.0
82.5°	12.0	8.0	6.0	4.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0
85°	4.0	4.0	2.0	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	2.0	2.0	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°	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6
2.5°	1812.6	1808.6	1822.6	1828.6	1824.6	1816.6	1842.6	1848.7	1830.6	1838.6	1838.6
5°	1848.7	1848.7	1866.7	1874.7	1874.7	1866.7	1896.7	1906.7	1888.7	1896.7	1898.7
7.5°	1888.7	1888.7	1910.7	1920.8	1922.8	1916.8	1946.8	1954.8	1942.8	1950.8	1952.8
10°	1924.8	1924.8	1950.8	1960.8	1962.8	1956.8	1986.9	1996.9	1982.8	1990.9	1992.9
12.5°	1962.8	1964.8	1990.9	2000.9	2000.9	1994.9	2024.9	2034.9	2018.9	2028.9	2026.9
15°	1990.9	1992.9	2018.9	2028.9	2030.9	2022.9	2050.9	2063.0	2046.9	2052.9	2052.9
17.5°	1988.9	1990.9	2014.9	2024.9	2024.9	2018.9	2042.9	2057.0	2040.9	2046.9	2044.9
20°	1948.8	1950.8	1976.8	1984.9	1984.9	1976.8	1998.9	2012.9	1996.9	2000.9	1998.9
22.5°	1876.7	1878.7	1902.7	1910.7	1912.7	1902.7	1924.8	1940.8	1922.8	1924.8	1922.8
25°	1782.6	1782.6	1808.6	1808.6	1818.6	1806.6	1822.6	1844.6	1826.6	1826.6	1820.6
27.5°	1660.4	1660.4	1686.4	1686.4	1698.4	1686.4	1712.5	1722.5	1706.5	1704.4	1704.4
30°	1518.2	1518.2	1542.2	1542.2	1552.2	1542.2	1568.3	1578.3	1562.2	1560.2	1562.2
32.5°	1355.9	1355.9	1380.0	1378.0	1390.0	1382.0	1406.0	1414.0	1402.0	1396.0	1400.0
35°	1177.7	1187.7	1201.7	1199.7	1211.7	1195.7	1225.8	1231.8	1221.8	1223.8	1217.7
37.5°	989.4	999.4	1009.4	1009.4	1019.5	1015.5	1033.5	1039.5	1031.5	1033.5	1027.5
40°	801.2	811.2	819.2	819.2	829.2	817.2	841.2	847.2	839.2	831.2	835.2
42.5°	622.9	632.9	640.9	638.9	648.9	646.9	660.9	665.0	658.9	656.9	652.9
45°	468.7	470.7	484.7	490.7	490.7	490.7	500.7	502.7	496.7	496.7	494.7
47.5°	338.5	342.5	352.5	356.5	358.5	356.5	360.5	368.5	362.5	362.5	364.5
50°	234.3	236.3	244.4	248.4	248.4	248.4	250.4	256.4	252.4	252.4	248.4
52.5°	150.2	150.2	156.2	158.2	158.2	158.2	160.2	164.2	160.2	162.2	164.2
55°	84.1	84.1	88.1	90.1	90.1	90.1	92.1	94.1	92.1	94.1	94.1
57.5°	44.1	44.1	46.1	46.1	48.1	48.1	48.1	50.1	50.1	50.1	50.1
60°	22.0	22.0	22.0	24.0	24.0	24.0	24.0	26.0	26.0	26.0	26.0
62.5°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	14.0	14.0	14.0	14.0
65°	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
67.5°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	8.0	8.0	8.0
70°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
72.5°	4.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	6.0	4.0	4.0
75°	2.0	4.0	4.0	2.0	2.0	4.0	4.0	4.0	4.0	4.0	4.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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: P136328

CATALOG NUMBER: LD6A30D010TE ERW6A30827 6LW111LI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1794.6	1794.6	1794.6	1794.6
2.5°	1822.6	1824.6	1858.7	1856.7
5°	1882.7	1884.7	1918.8	1918.8
7.5°	1936.8	1938.8	1974.8	1976.8
10°	1976.8	1980.8	2014.9	2018.9
12.5°	2014.9	2014.9	2048.9	2057.0
15°	2038.9	2038.9	2071.0	2081.0
17.5°	2030.9	2030.9	2063.0	2075.0
20°	1986.9	1984.9	2014.9	2030.9
22.5°	1910.7	1912.7	1936.8	1954.8
25°	1814.6	1810.6	1836.6	1852.7
27.5°	1694.4	1696.4	1712.5	1730.5
30°	1550.2	1554.2	1566.2	1584.3
32.5°	1388.0	1394.0	1402.0	1420.0
35°	1209.7	1215.7	1219.8	1235.8
37.5°	1017.5	1025.5	1027.5	1043.5
40°	827.2	835.2	835.2	849.2
42.5°	648.9	654.9	652.9	665.0
45°	490.7	494.7	492.7	502.7
47.5°	358.5	362.5	358.5	366.5
50°	248.4	252.4	248.4	254.4
52.5°	160.2	162.2	158.2	164.2
55°	92.1	94.1	92.1	96.1
57.5°	52.1	50.1	48.1	52.1
60°	26.0	26.0	26.0	26.0
62.5°	14.0	14.0	14.0	14.0
65°	8.0	8.0	8.0	10.0
67.5°	8.0	8.0	8.0	8.0
70°	6.0	6.0	6.0	6.0
72.5°	4.0	4.0	4.0	4.0
75°	4.0	4.0	4.0	4.0
77.5°	2.0	2.0	2.0	2.0
80°	0.0	0.0	0.0	2.0
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)