

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P858259

Luminaire Tested: **LX4C45D010 EX4C459850 4LBLWWH**

Issue Date: 2/14/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P858259  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/14/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX4C45D010 EX4C459850 4LBLWWH  
Description:  
Light Source: -  
Ballast/Driver: -

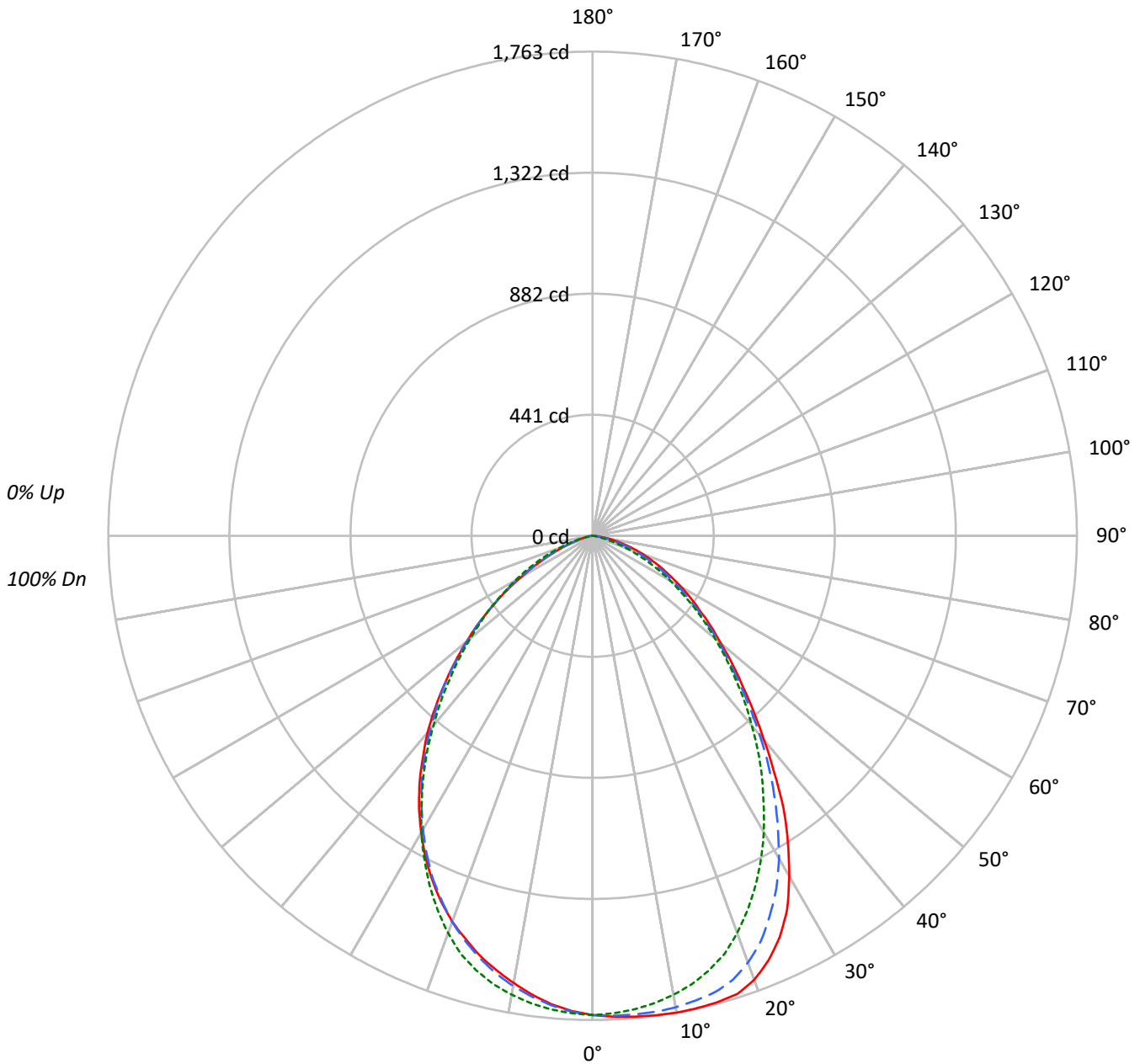
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3288.7 lumens  
Efficiency: N/A  
Efficacy: 66.3 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 49.6  
Input Voltage (V):  
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	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68																			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60																			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39																			
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35																			
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32																			

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

	0°	90°	180°
0°	214379	214379	214379
5°	216777	213472	211153
10°	219957	211674	206309
15°	223570	208295	201376
20°	224987	201219	195414
25°	218540	190331	187417
30°	203085	176912	176997
35°	181786	161270	164689
40°	155659	144561	149837
45°	133989	127456	132234
50°	116472	110968	114293
55°	102511	95464	94607
60°	91182	79634	73368
65°	80000	63808	53052
70°	68715	45080	35920
75°	55726	26107	21028
80°	39902	11391	10471
85°	15083	4793	4793



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.5	5.0
10°-20°	465.5	14.2
20°-30°	664.8	20.2
30°-40°	695.4	21.1
40°-50°	582.7	17.7
50°-60°	407.8	12.4
60°-70°	222.1	6.8
70°-80°	77.1	2.3
80°-90°	8.9	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°	1294.8	39.4
0°-40°	1990.2	60.5
0°-60°	2980.8	90.6
0°-90°	3288.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3288.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1745	1745	1745	1745	1745	
5°	1758	1750	1731	1716	1712	168
15°	1758	1721	1638	1591	1583	496
25°	1612	1526	1404	1377	1383	736
35°	1212	1152	1075	1083	1098	752
45°	771	754	734	758	761	600
55°	479	462	446	446	442	432
65°	275	251	220	185	182	274
75°	117	95	55	44	44	127
85°	11	6	3	3	3	19
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°	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0
2.5°	1753.2	1751.1	1751.8	1751.8	1751.8	1751.1	1751.8	1751.1	1751.1	1750.5	1749.2
5°	1757.8	1756.5	1756.5	1756.5	1755.8	1755.1	1755.1	1754.5	1753.2	1752.5	1749.8
7.5°	1761.2	1759.9	1759.9	1759.1	1758.5	1757.8	1757.2	1755.1	1753.2	1751.8	1748.4
10°	1763.2	1761.2	1761.2	1759.9	1758.5	1757.8	1756.5	1753.8	1751.1	1747.8	1743.1
12.5°	1761.9	1759.9	1759.1	1757.8	1755.1	1753.8	1752.5	1749.2	1744.4	1739.7	1733.6
15°	1757.8	1756.5	1755.1	1753.2	1749.8	1747.8	1746.4	1741.0	1735.1	1728.3	1720.9
17.5°	1749.8	1747.8	1745.0	1742.4	1737.7	1735.7	1732.3	1725.6	1716.9	1707.5	1696.1
20°	1720.9	1719.5	1716.9	1712.2	1704.8	1702.2	1697.4	1688.7	1677.3	1665.9	1653.8
22.5°	1673.3	1671.2	1667.2	1663.2	1656.5	1651.8	1647.8	1635.7	1623.0	1610.8	1599.4
25°	1612.2	1610.2	1604.8	1599.4	1592.7	1584.7	1580.6	1571.2	1558.5	1543.1	1526.3
27.5°	1533.7	1526.9	1525.0	1518.9	1508.8	1506.2	1500.1	1488.0	1475.9	1462.5	1448.5
30°	1431.6	1431.6	1427.6	1424.9	1415.6	1412.9	1406.1	1393.3	1386.7	1367.8	1357.1
32.5°	1323.6	1322.3	1318.9	1316.8	1311.5	1306.8	1300.1	1293.4	1278.6	1269.2	1254.4
35°	1212.1	1204.1	1205.5	1201.4	1198.1	1192.7	1192.0	1184.7	1171.2	1165.9	1152.4
37.5°	1085.3	1082.0	1086.7	1080.6	1077.2	1077.9	1072.6	1067.9	1062.5	1053.1	1050.4
40°	970.6	973.2	972.5	967.2	969.9	966.5	961.1	956.5	953.7	947.7	945.7
42.5°	867.8	863.8	862.5	862.5	863.1	863.1	860.4	857.1	857.1	851.1	845.0
45°	771.2	771.2	769.8	773.9	767.9	767.9	765.8	765.1	762.4	761.1	753.7
47.5°	688.0	687.3	686.6	685.9	685.3	685.3	681.3	677.9	677.2	673.2	669.2
50°	609.4	613.4	612.1	608.8	607.5	608.1	605.4	603.4	602.7	596.0	596.7
52.5°	543.7	543.0	544.3	542.4	539.0	539.6	536.9	534.2	531.6	528.3	525.5
55°	478.6	481.9	480.6	478.6	477.9	476.5	474.5	471.2	470.5	463.1	462.5
57.5°	424.2	423.5	422.2	418.9	418.1	416.2	416.2	413.4	409.4	405.4	402.0
60°	371.1	371.1	369.2	368.5	365.8	365.2	364.5	361.8	357.1	353.8	348.3
62.5°	320.1	321.5	320.1	318.2	316.1	313.4	312.1	310.1	306.0	302.7	298.0
65°	275.2	274.5	273.9	271.2	270.5	267.8	267.2	263.1	259.1	256.4	251.0
67.5°	232.2	230.2	230.2	228.9	227.6	225.5	224.2	220.2	215.4	212.8	207.4
70°	191.3	189.9	189.9	189.9	186.6	184.6	183.9	181.9	175.1	172.5	167.1
72.5°	153.7	153.0	152.4	150.3	148.3	148.3	145.6	141.6	138.3	134.9	130.9
75°	117.4	118.8	117.4	114.8	114.1	112.7	110.8	107.4	104.1	100.0	95.3
77.5°	85.9	84.5	83.2	83.2	81.9	79.2	78.6	75.9	71.8	69.1	64.5
80°	56.4	55.7	54.4	53.1	52.3	51.7	51.0	48.3	44.3	42.3	38.3
82.5°	30.9	30.2	30.2	29.5	27.6	27.6	26.8	24.2	22.1	20.8	18.8
85°	10.7	10.7	10.7	10.1	10.1	10.1	9.4	8.7	8.0	7.4	6.1
87.5°	1.3	0.7	1.3	0.7	1.3	0.7	0.7	0.7	0.7	0.7	0.7
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°	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0
2.5°	1747.8	1746.4	1745.8	1745.0	1744.4	1743.7	1743.1	1741.8	1741.0	1740.4	1739.1
5°	1747.8	1745.0	1743.7	1741.8	1740.4	1739.1	1737.0	1735.1	1733.0	1731.0	1729.0
7.5°	1745.0	1741.0	1738.4	1734.3	1733.0	1731.0	1726.9	1724.3	1720.9	1716.9	1712.2
10°	1738.4	1733.6	1728.3	1722.9	1720.9	1717.6	1712.2	1707.5	1702.2	1696.8	1692.1
12.5°	1727.7	1720.3	1713.6	1706.2	1702.2	1698.8	1691.4	1684.7	1678.0	1671.9	1663.9
15°	1711.5	1702.8	1694.0	1684.0	1679.3	1675.3	1664.5	1656.5	1645.7	1637.7	1629.7
17.5°	1685.4	1671.9	1661.2	1648.5	1641.7	1637.1	1627.6	1614.9	1604.8	1596.0	1586.7
20°	1640.4	1627.6	1612.9	1598.8	1591.4	1585.3	1572.0	1558.5	1548.4	1539.1	1529.0
22.5°	1581.3	1565.2	1554.5	1537.0	1530.9	1523.6	1507.5	1495.4	1484.0	1474.6	1465.2
25°	1509.5	1495.4	1480.6	1464.5	1457.1	1448.5	1435.0	1422.2	1414.8	1404.1	1392.7
27.5°	1427.0	1415.6	1397.4	1383.4	1376.0	1369.2	1356.4	1345.1	1334.3	1326.9	1316.2
30°	1339.7	1326.3	1310.1	1295.4	1291.3	1283.3	1271.9	1263.2	1251.7	1247.1	1242.4
32.5°	1243.7	1228.3	1216.2	1206.8	1198.8	1192.0	1186.0	1171.9	1169.9	1157.8	1156.5
35°	1139.0	1132.3	1120.9	1112.8	1106.1	1101.4	1091.3	1084.6	1077.2	1075.3	1070.5
37.5°	1040.3	1032.3	1021.6	1014.2	1009.5	1008.8	1001.4	997.4	992.0	989.3	983.9
40°	937.0	933.7	924.2	922.9	915.5	914.8	910.8	906.1	901.4	901.4	902.1
42.5°	841.6	837.6	833.6	828.9	824.9	824.9	822.9	821.6	820.2	818.2	821.6
45°	752.4	747.0	744.3	739.6	741.7	737.6	736.3	736.3	734.3	733.6	738.3
47.5°	669.2	663.1	660.4	659.1	659.1	659.8	653.7	655.8	655.1	656.4	658.5
50°	593.4	587.9	583.9	583.9	584.6	582.0	579.3	581.2	579.3	580.6	585.3
52.5°	522.8	517.5	515.5	515.5	511.4	510.8	512.1	509.5	510.1	510.8	513.5
55°	457.7	454.4	451.0	447.7	448.4	447.0	444.4	443.6	445.0	445.7	449.0
57.5°	399.3	394.7	390.0	388.6	387.3	387.3	383.9	383.3	384.6	381.2	381.2
60°	343.7	341.0	334.9	332.9	332.9	329.6	326.9	328.3	324.9	324.1	324.9
62.5°	292.0	290.0	285.9	281.9	280.5	279.2	275.8	274.5	273.1	270.5	266.5
65°	247.0	242.3	237.6	234.9	232.9	229.5	227.6	224.8	220.8	219.5	215.4
67.5°	202.1	197.3	192.6	190.7	188.6	186.6	183.3	179.9	175.1	169.8	165.2
70°	162.4	156.4	153.7	148.3	147.0	144.3	139.6	136.3	131.5	125.5	120.8
72.5°	124.1	120.1	116.1	111.4	108.1	106.0	102.0	96.7	91.3	87.9	83.2
75°	89.3	87.2	81.9	76.5	75.2	72.5	67.8	64.5	60.4	55.0	51.0
77.5°	60.4	56.4	53.1	48.3	47.0	44.3	41.6	38.3	35.6	32.2	29.5
80°	35.6	32.2	30.2	26.8	25.5	24.2	22.1	19.4	17.5	16.1	15.4
82.5°	17.5	14.8	14.1	12.0	11.4	10.7	9.4	8.7	7.4	7.4	7.4
85°	6.1	4.7	4.7	4.0	3.4	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	0.7
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°	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0
2.5°	1738.4	1737.7	1737.0	1736.4	1736.4	1735.7	1735.7	1735.1	1735.1	1734.3	1734.3
5°	1726.3	1724.3	1722.9	1721.6	1721.6	1719.5	1718.2	1716.9	1716.2	1716.2	1714.9
7.5°	1709.6	1706.8	1704.1	1702.2	1701.4	1698.1	1695.4	1695.4	1692.7	1691.4	1690.0
10°	1687.4	1682.6	1678.6	1676.7	1674.0	1671.9	1668.5	1666.6	1664.5	1661.2	1660.5
12.5°	1657.1	1653.8	1647.8	1645.1	1643.7	1639.7	1634.4	1631.6	1631.0	1628.3	1626.3
15°	1623.0	1615.6	1610.2	1606.8	1606.8	1600.1	1597.5	1593.4	1590.7	1588.7	1588.0
17.5°	1578.7	1571.2	1565.9	1561.2	1559.8	1554.5	1550.5	1549.1	1545.7	1547.1	1543.7
20°	1521.6	1515.5	1511.5	1505.4	1505.4	1502.1	1500.8	1497.4	1496.1	1494.7	1496.1
22.5°	1460.5	1453.1	1446.4	1445.8	1445.8	1441.1	1440.3	1439.7	1437.0	1439.0	1438.4
25°	1388.7	1383.4	1379.3	1378.6	1378.6	1376.0	1373.3	1374.6	1376.6	1376.0	1377.9
27.5°	1314.2	1308.8	1307.5	1306.8	1305.4	1304.8	1306.1	1306.1	1308.2	1310.9	1313.5
30°	1233.6	1232.3	1230.2	1229.6	1228.3	1231.6	1233.0	1235.0	1234.3	1238.4	1241.0
32.5°	1153.1	1150.4	1149.7	1151.1	1153.1	1152.4	1156.5	1157.8	1159.2	1163.8	1165.9
35°	1071.9	1071.2	1069.9	1069.9	1070.5	1075.9	1075.9	1080.6	1083.3	1084.6	1090.0
37.5°	984.7	987.3	988.7	990.6	991.3	993.4	994.7	999.4	1002.1	1004.7	1007.5
40°	904.8	903.4	909.5	905.5	906.8	912.8	915.5	914.8	918.9	922.9	925.5
42.5°	819.5	821.6	822.9	824.2	827.5	828.2	831.6	836.3	837.6	842.3	843.7
45°	736.9	737.6	740.3	743.0	745.1	750.4	751.7	753.7	757.8	757.8	759.8
47.5°	659.1	661.8	661.8	665.8	669.2	668.5	673.2	674.5	673.9	677.2	678.5
50°	584.6	588.6	587.9	590.6	592.0	592.7	596.7	598.0	595.3	598.7	599.3
52.5°	513.5	515.5	518.2	518.8	517.5	520.9	519.5	522.2	521.5	524.2	521.5
55°	448.4	447.7	447.7	449.0	447.7	449.0	450.3	447.7	445.7	448.4	447.7
57.5°	383.3	383.3	381.9	383.9	381.9	379.9	379.3	377.2	375.2	375.2	374.5
60°	322.2	320.8	318.2	317.5	317.5	314.1	312.7	310.1	310.1	307.4	304.7
62.5°	265.1	261.7	259.8	259.8	258.4	255.0	249.0	245.0	243.6	239.6	239.0
65°	211.4	208.0	206.1	202.1	198.7	197.3	191.3	186.6	184.6	180.6	181.2
67.5°	162.4	157.0	151.1	148.3	146.3	141.6	139.6	136.3	134.2	134.2	134.2
70°	116.8	112.1	106.0	104.1	102.7	98.6	96.7	96.0	98.0	97.3	98.0
72.5°	78.6	73.8	71.2	69.8	68.5	66.4	67.8	68.5	67.1	67.8	68.5
75°	47.6	46.3	44.3	43.6	43.6	44.3	43.6	43.6	44.3	44.3	44.9
77.5°	27.6	26.2	26.2	25.5	26.8	26.2	26.2	26.2	26.8	26.8	26.8
80°	14.8	14.8	14.8	14.8	15.4	14.8	15.4	15.4	15.4	15.4	15.4
82.5°	7.4	7.4	7.4	8.0	8.0	8.0	8.0	8.0	8.0	8.0	7.4
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	0.7	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7
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: P858259

CATALOG NUMBER: LX4C45D010 EX4C459850 4LBLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0	1745.0
2.5°	1733.0	1733.0	1733.0	1731.7	1732.3	1732.3	1731.7	1731.7
5°	1714.2	1713.6	1712.2	1712.2	1710.9	1712.2	1711.5	1712.2
7.5°	1688.7	1688.7	1686.7	1686.7	1686.0	1685.4	1684.7	1685.4
10°	1658.5	1658.5	1657.1	1656.5	1657.1	1654.4	1654.4	1653.8
12.5°	1624.9	1623.6	1622.3	1623.0	1622.3	1620.2	1619.6	1620.2
15°	1586.1	1584.0	1584.7	1582.7	1582.7	1582.0	1583.3	1583.3
17.5°	1543.1	1541.7	1540.4	1541.0	1539.7	1540.4	1539.7	1539.1
20°	1495.4	1494.7	1494.7	1492.1	1492.7	1492.1	1492.7	1494.7
22.5°	1440.3	1439.7	1440.3	1438.4	1439.7	1439.7	1441.7	1441.7
25°	1380.0	1379.3	1380.6	1381.3	1381.9	1384.0	1381.9	1382.6
27.5°	1312.8	1314.9	1316.8	1317.5	1320.2	1318.2	1316.8	1318.9
30°	1245.0	1245.0	1244.4	1247.1	1249.1	1251.1	1247.7	1247.7
32.5°	1167.2	1170.6	1170.6	1171.2	1173.3	1173.3	1173.3	1175.9
35°	1092.7	1094.7	1095.4	1092.7	1094.1	1093.4	1098.1	1098.1
37.5°	1009.5	1009.5	1010.2	1014.8	1014.8	1012.8	1014.2	1014.2
40°	930.3	931.0	928.2	929.6	932.9	931.6	932.9	934.3
42.5°	843.7	848.4	845.7	847.1	846.4	847.1	847.7	847.7
45°	761.1	762.4	762.4	763.2	764.5	765.8	761.8	761.1
47.5°	680.6	681.3	683.3	680.0	684.0	680.0	684.0	679.2
50°	599.3	602.0	600.1	601.4	599.3	599.3	598.7	598.0
52.5°	522.2	521.5	521.5	520.9	520.9	522.2	520.9	522.8
55°	445.0	445.7	444.4	443.6	443.0	445.0	443.0	441.7
57.5°	371.9	373.2	370.5	371.9	367.1	369.2	369.8	370.5
60°	304.1	302.0	302.0	299.4	299.4	301.3	298.6	298.6
62.5°	235.6	236.9	234.9	237.6	237.6	240.3	239.0	240.3
65°	180.6	181.2	181.9	181.9	181.9	185.9	184.6	182.5
67.5°	136.3	136.9	137.6	136.9	138.9	137.6	137.6	138.3
70°	98.6	99.3	100.0	100.0	99.3	100.0	100.0	100.0
72.5°	68.5	69.1	68.5	69.1	69.8	69.1	69.1	69.8
75°	44.9	44.9	44.3	44.3	44.3	44.3	44.9	44.3
77.5°	26.2	26.8	26.2	26.8	26.8	26.8	26.8	26.8
80°	15.4	15.4	15.4	14.8	15.4	15.4	15.4	14.8
82.5°	8.0	8.0	7.4	7.4	8.0	8.0	8.0	8.0
85°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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















(END OF REPORT)