

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: P244179

Luminaire Tested: **LD8B30D010 ER8B30840 8LBDW0LI**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P244179  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD8B30D010 ER8B30840 8LBDW0LI  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3229.0 lumens  
Efficiency: N/A  
Efficacy: 119.2 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2  
Luminous Opening: Circular (Dia: 0.67' x H: 0')  
CIE Type: Direct

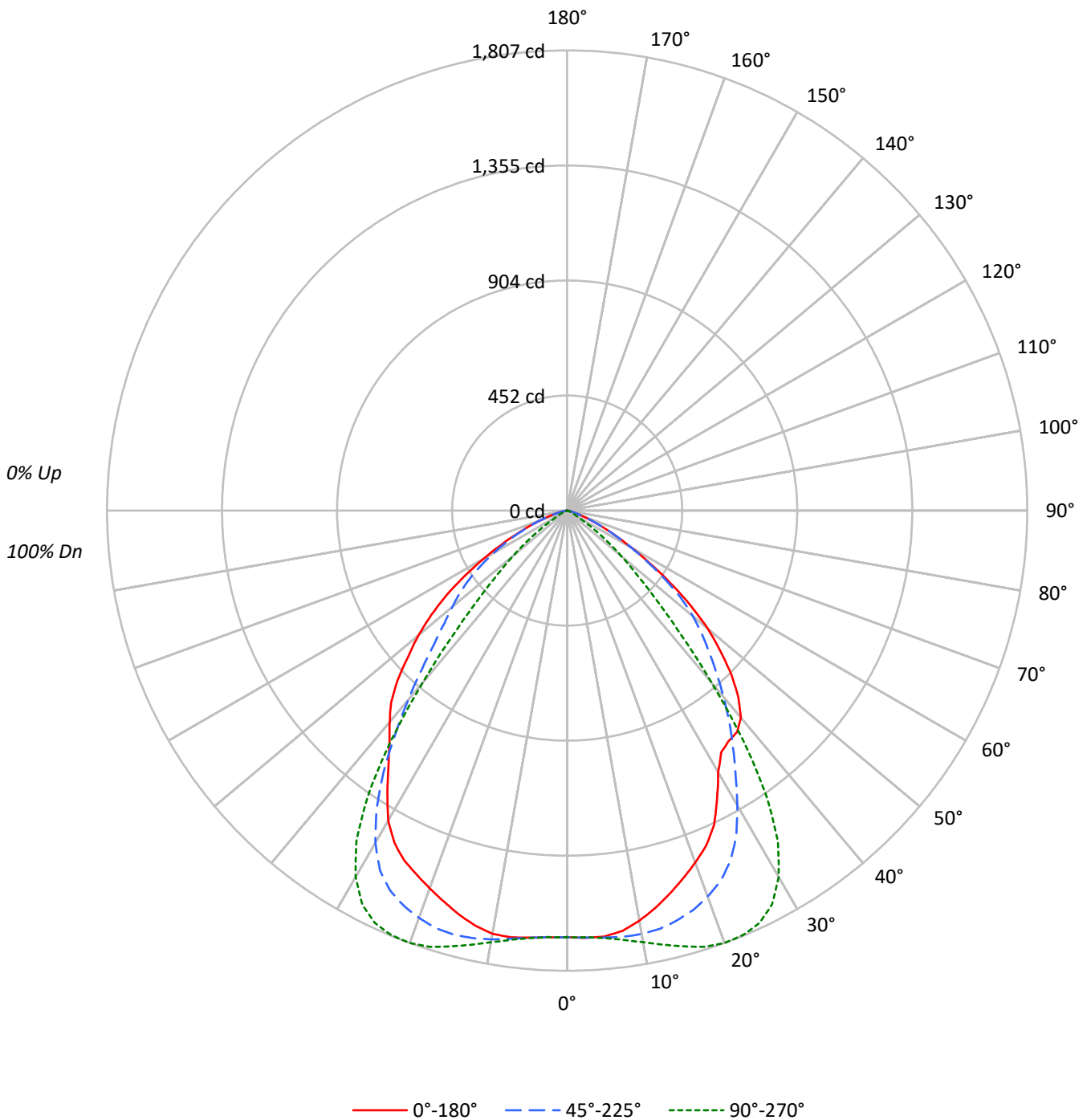
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90					90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79					79			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70					70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62					62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56					56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45					45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41					41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38					38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34					34			

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

	0°	90°	180°
0°	51654	51654	51654
5°	51963	52155	52099
10°	51198	53897	52842
15°	49703	56570	52426
20°	48258	59287	51789
25°	46405	60804	51550
30°	42233	59139	50020
35°	41604	51241	46020
40°	42734	35540	43627
45°	39780	21482	41023
50°	34507	13264	36555
55°	26483	6930	31020
60°	18039	2794	23417
65°	11222	1430	16154
70°	6095	884	9863
75°	3181	417	5826
80°	1421	479	3161
85°	955	318	2830



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.1	5.0
10°-20°	477.2	14.8
20°-30°	728.0	22.5
30°-40°	759.7	23.5
40°-50°	570.6	17.7
50°-60°	351.1	10.9
60°-70°	142.9	4.4
70°-80°	33.7	1.0
80°-90°	4.6	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°	1366.3	42.3
0°-40°	2126.1	65.8
0°-60°	3047.8	94.4
0°-90°	3229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3229.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1675	1675	1675	1675	1675	
5°	1679	1683	1685	1683	1683	159
15°	1557	1666	1772	1723	1642	439
25°	1364	1517	1787	1646	1515	620
35°	1105	1136	1361	1258	1222	698
45°	912	790	493	735	941	696
55°	493	468	129	468	577	443
65°	154	156	20	209	221	160
75°	27	27	4	47	49	32
85°	3	3	1	6	8	4
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°	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1
2.5°	1679.6	1676.9	1679.6	1679.6	1680.4	1678.7	1679.6	1680.4	1678.7	1678.7	1678.7
5°	1678.7	1676.9	1678.7	1677.8	1679.6	1679.6	1681.3	1681.3	1683.1	1683.1	1685.8
7.5°	1664.4	1660.9	1664.4	1667.1	1668.9	1672.4	1676.9	1680.4	1684.0	1687.6	1692.0
10°	1635.1	1635.1	1637.8	1643.1	1648.4	1654.6	1662.6	1671.5	1680.4	1688.4	1696.4
12.5°	1598.6	1596.0	1601.3	1608.4	1616.4	1626.2	1638.7	1652.0	1666.2	1682.2	1694.7
15°	1556.9	1554.2	1560.4	1567.5	1577.3	1591.5	1606.6	1624.4	1644.9	1666.2	1686.7
17.5°	1514.2	1513.3	1519.5	1529.3	1537.3	1552.4	1572.0	1593.3	1616.4	1644.9	1671.5
20°	1470.6	1469.7	1475.9	1483.9	1494.6	1508.8	1528.4	1553.3	1580.8	1612.9	1644.0
22.5°	1425.3	1426.1	1431.5	1440.4	1449.3	1464.4	1484.8	1509.7	1539.9	1574.6	1609.3
25°	1363.9	1359.5	1366.6	1375.5	1390.6	1403.0	1422.6	1449.3	1480.4	1516.8	1557.7
27.5°	1275.0	1274.1	1280.3	1288.3	1301.7	1316.8	1338.1	1365.7	1398.6	1438.6	1478.6
30°	1186.1	1187.9	1190.5	1198.5	1207.4	1222.5	1243.9	1267.0	1298.1	1336.3	1379.0
32.5°	1125.6	1125.6	1129.2	1134.5	1140.7	1148.7	1163.9	1180.7	1204.8	1231.4	1262.5
35°	1105.2	1101.6	1105.2	1106.1	1107.0	1108.7	1111.4	1116.7	1124.7	1136.3	1147.9
37.5°	1096.3	1093.6	1093.6	1090.1	1085.6	1080.3	1073.2	1065.2	1056.3	1044.7	1035.8
40°	1061.6	1059.8	1058.0	1054.5	1044.7	1034.0	1022.5	1003.8	983.4	954.9	926.5
42.5°	994.9	993.1	992.3	985.1	976.2	963.8	950.5	930.9	905.1	868.7	827.8
45°	912.2	908.7	906.0	899.8	893.6	882.9	870.5	852.7	826.9	789.5	740.6
47.5°	816.2	814.4	813.5	810.9	804.7	798.4	790.4	776.2	753.1	717.5	666.8
50°	719.3	715.7	717.5	716.6	714.0	709.5	704.2	694.4	676.6	644.6	598.4
52.5°	608.1	608.1	607.3	609.9	610.8	609.9	610.8	600.2	585.0	561.0	521.9
55°	492.6	492.6	495.2	498.8	502.4	503.2	502.4	497.9	487.2	467.7	433.0
57.5°	384.1	382.3	387.7	393.0	396.6	400.1	397.4	393.9	387.7	371.6	345.0
60°	292.5	292.5	296.1	299.6	303.2	306.7	305.9	305.0	299.6	289.0	267.6
62.5°	215.2	216.1	216.1	218.7	222.3	225.8	228.5	225.8	223.2	216.1	201.8
65°	153.8	152.9	153.8	156.5	159.2	162.7	164.5	163.6	160.9	155.6	144.9
67.5°	103.1	102.2	105.8	106.7	108.5	112.0	111.1	112.0	111.1	106.7	97.8
70°	67.6	65.8	67.6	66.7	69.4	70.2	72.0	72.9	72.0	69.4	66.7
72.5°	41.8	40.9	41.8	42.7	43.6	44.4	46.2	46.2	45.3	43.6	40.0
75°	26.7	24.0	24.9	23.1	24.9	24.9	26.7	27.6	26.7	26.7	24.9
77.5°	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.9	17.8	16.0	15.1
80°	8.0	8.0	8.9	8.9	8.9	9.8	8.9	8.9	8.9	9.8	7.1
82.5°	6.2	5.3	5.3	5.3	6.2	5.3	5.3	5.3	5.3	5.3	5.3
85°	2.7	3.5	2.7	1.8	2.7	2.7	3.5	2.7	2.7	2.7	3.5
87.5°	0.9	0.9	0.0	0.0	0.0	0.9	0.0	0.9	0.9	1.8	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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1
2.5°	1679.6	1677.8	1677.8	1676.9	1678.7	1676.9	1677.8	1676.9	1676.9	1676.9	1676.9
5°	1685.8	1686.7	1684.9	1684.0	1686.7	1686.7	1686.7	1684.9	1684.9	1684.9	1684.9
7.5°	1694.7	1696.4	1697.3	1698.2	1700.0	1700.9	1700.9	1700.0	1699.1	1701.8	1698.2
10°	1704.4	1707.1	1712.4	1715.1	1719.6	1719.6	1721.3	1721.3	1719.6	1721.3	1720.5
12.5°	1700.9	1716.9	1725.8	1732.0	1738.2	1743.6	1745.3	1746.2	1745.3	1748.9	1745.3
15°	1707.1	1720.5	1734.7	1745.3	1756.9	1763.1	1764.9	1772.0	1773.8	1774.7	1769.4
17.5°	1697.3	1721.3	1736.4	1752.5	1769.4	1780.9	1791.6	1796.0	1796.9	1798.7	1791.6
20°	1675.1	1701.8	1724.9	1748.0	1767.6	1785.3	1794.2	1806.7	1803.1	1810.3	1800.5
22.5°	1644.9	1675.1	1704.4	1734.7	1755.1	1776.5	1795.1	1804.0	1808.5	1808.5	1797.8
25°	1596.9	1632.4	1664.4	1695.5	1726.7	1752.5	1773.8	1787.1	1789.8	1788.9	1776.5
27.5°	1522.2	1560.4	1597.8	1633.3	1671.5	1701.8	1726.7	1742.7	1747.1	1747.1	1733.8
30°	1419.0	1459.9	1496.4	1539.1	1578.2	1612.0	1646.7	1660.9	1668.9	1668.9	1653.8
32.5°	1296.3	1331.0	1364.8	1406.6	1449.3	1487.5	1520.4	1539.9	1549.7	1548.8	1535.5
35°	1163.0	1179.9	1205.7	1236.8	1275.0	1310.6	1342.6	1361.2	1378.1	1377.2	1364.8
37.5°	1029.6	1025.2	1027.8	1039.4	1063.4	1088.3	1113.2	1131.0	1145.2	1151.4	1148.7
40°	898.9	875.8	853.5	845.6	847.3	856.2	869.6	882.9	898.9	906.9	910.5
42.5°	781.5	742.4	703.3	674.0	657.1	651.7	657.9	662.4	672.2	683.7	695.3
45°	687.3	634.8	583.3	537.9	509.5	492.6	489.0	492.6	497.9	509.5	524.6
47.5°	609.9	548.6	490.8	440.1	398.3	376.1	369.9	368.1	373.4	384.1	404.5
50°	541.5	480.1	416.1	357.4	313.9	289.0	280.1	276.5	282.7	290.7	309.4
52.5°	466.8	406.3	340.5	283.6	238.3	212.5	202.7	197.4	200.9	211.6	230.3
55°	385.9	329.9	270.3	211.6	168.0	144.0	132.5	128.9	132.5	144.0	162.7
57.5°	305.0	257.8	208.0	152.9	113.8	89.8	78.2	74.7	84.5	88.9	108.5
60°	238.3	200.1	157.4	112.0	78.2	59.6	48.0	45.3	49.8	57.8	73.8
62.5°	178.7	154.7	120.9	80.0	57.8	38.2	32.0	29.3	32.0	38.2	50.7
65°	129.8	111.1	84.5	58.7	39.1	28.5	21.3	19.6	22.2	26.7	37.4
67.5°	88.9	74.7	58.7	40.9	26.7	17.8	15.1	15.1	16.0	19.6	27.6
70°	57.8	48.9	37.4	26.7	17.8	13.3	11.6	9.8	11.6	14.2	18.7
72.5°	36.5	31.1	24.0	18.7	13.3	9.8	8.0	7.1	8.9	10.7	14.2
75°	22.2	16.9	12.4	9.8	7.1	7.1	7.1	3.5	4.4	7.1	8.9
77.5°	13.3	11.6	9.8	8.0	6.2	3.5	3.5	3.5	4.4	5.3	8.0
80°	7.1	6.2	4.4	4.4	3.5	2.7	3.5	2.7	1.8	4.4	5.3
82.5°	4.4	3.5	3.5	3.5	4.4	1.8	2.7	1.8	2.7	3.5	2.7
85°	2.7	2.7	2.7	1.8	4.4	1.8	1.8	0.9	0.9	1.8	1.8
87.5°	0.0	0.9	0.9	0.0	0.9	0.0	0.9	0.9	0.9	0.9	0.9
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1	1675.1
2.5°	1677.8	1676.9	1677.8	1676.9	1676.9	1676.9	1677.8	1677.8	1676.9	1676.9	1678.7
5°	1684.9	1684.9	1684.9	1684.0	1683.1	1683.1	1684.9	1684.9	1682.2	1684.9	1684.9
7.5°	1700.0	1697.3	1700.0	1696.4	1694.7	1695.5	1696.4	1694.7	1692.9	1693.8	1693.8
10°	1719.6	1716.9	1716.9	1714.2	1711.6	1709.8	1708.0	1703.5	1699.1	1698.2	1694.7
12.5°	1742.7	1738.2	1735.6	1730.2	1725.8	1719.6	1714.2	1707.1	1698.2	1692.0	1685.8
15°	1765.8	1758.7	1752.5	1743.6	1733.8	1723.1	1711.6	1700.0	1685.8	1673.3	1662.6
17.5°	1784.5	1774.7	1763.1	1748.9	1734.7	1718.7	1701.8	1684.9	1664.4	1648.4	1636.0
20°	1790.7	1776.5	1761.4	1742.7	1724.0	1701.8	1680.4	1658.2	1635.1	1618.2	1604.0
22.5°	1782.7	1765.8	1747.1	1727.6	1702.7	1678.7	1653.8	1628.0	1607.5	1584.4	1571.1
25°	1760.5	1740.0	1719.6	1696.4	1672.4	1645.8	1619.1	1592.4	1567.5	1555.1	1538.2
27.5°	1715.1	1692.9	1670.7	1646.7	1619.1	1592.4	1564.9	1539.1	1517.7	1500.8	1491.1
30°	1635.1	1609.3	1583.5	1557.7	1533.7	1506.2	1480.4	1459.0	1437.7	1424.4	1414.6
32.5°	1512.4	1489.3	1463.5	1438.6	1416.4	1393.3	1371.9	1353.2	1338.1	1329.2	1322.1
35°	1347.0	1323.9	1304.3	1286.6	1267.9	1258.1	1244.8	1234.1	1227.9	1224.3	1223.4
37.5°	1139.0	1125.6	1119.4	1115.8	1112.3	1109.6	1111.4	1115.8	1119.4	1125.6	1132.7
40°	916.7	928.2	931.8	944.2	955.8	970.9	987.8	1007.4	1023.4	1043.8	1058.0
42.5°	714.0	735.3	760.2	786.9	815.3	842.9	876.7	907.8	936.2	962.0	984.3
45°	548.6	581.5	618.8	657.1	695.3	735.3	776.2	814.4	848.2	875.8	898.9
47.5°	427.7	464.1	512.1	559.3	605.5	652.6	698.0	738.0	766.4	793.1	813.5
50°	338.8	380.5	433.0	487.2	537.9	587.7	635.7	673.1	701.5	722.9	738.0
52.5°	262.3	312.1	365.4	422.3	476.6	530.8	575.3	609.9	633.1	651.7	663.3
55°	195.6	244.5	301.4	360.1	415.2	467.7	509.5	539.7	560.2	570.8	577.0
57.5°	141.4	185.8	242.7	301.4	351.2	401.0	434.8	462.3	473.9	480.1	482.8
60°	103.1	144.0	194.7	245.4	292.5	332.5	361.9	380.5	389.4	393.0	392.1
62.5°	75.6	111.1	154.7	197.4	235.6	268.5	291.6	304.1	308.5	310.3	307.6
65°	57.8	85.3	122.7	155.6	184.9	208.9	225.8	233.8	236.5	235.6	233.8
67.5°	42.7	64.0	91.6	116.5	137.8	156.5	165.4	172.5	174.3	171.6	168.9
70°	30.2	47.1	66.7	83.6	99.6	110.3	120.0	120.9	120.9	120.0	118.3
72.5°	21.3	32.9	45.3	56.9	66.7	74.7	78.2	80.9	80.0	79.1	77.4
75°	14.2	20.4	32.9	35.6	44.4	47.1	50.7	50.7	51.6	48.9	48.9
77.5°	8.9	14.2	19.6	23.1	26.7	30.2	32.0	32.0	32.9	32.0	32.0
80°	5.3	8.9	10.7	16.0	16.0	18.7	19.6	20.4	18.7	21.3	18.7
82.5°	3.5	5.3	8.0	8.0	9.8	11.6	11.6	12.4	12.4	11.6	11.6
85°	2.7	3.5	4.4	5.3	5.3	6.2	5.3	5.3	6.2	7.1	6.2
87.5°	0.9	1.8	0.9	1.8	1.8	3.5	2.7	2.7	2.7	3.5	3.5
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: P244179

CATALOG NUMBER: LD8B30D010 ER8B30840 8LBDWOLI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1675.1	1675.1	1675.1	1675.1
2.5°	1676.9	1677.8	1676.9	1676.9
5°	1684.9	1684.0	1684.9	1683.1
7.5°	1691.1	1691.1	1690.2	1690.2
10°	1691.1	1687.6	1687.6	1687.6
12.5°	1677.8	1673.3	1670.7	1668.9
15°	1654.6	1646.7	1643.1	1642.2
17.5°	1624.4	1617.3	1612.9	1610.2
20°	1589.7	1582.6	1577.3	1578.2
22.5°	1559.5	1551.5	1548.0	1546.2
25°	1529.3	1519.5	1516.8	1515.1
27.5°	1480.4	1475.1	1472.4	1469.7
30°	1405.7	1403.0	1398.6	1404.8
32.5°	1319.5	1315.0	1311.5	1314.1
35°	1224.3	1221.6	1224.3	1222.5
37.5°	1137.2	1139.8	1143.4	1145.2
40°	1068.7	1078.5	1082.1	1083.8
42.5°	1000.3	1011.8	1018.9	1023.4
45°	915.8	927.3	935.3	940.7
47.5°	828.7	838.4	846.4	845.6
50°	749.5	754.9	758.4	762.0
52.5°	669.5	669.5	670.4	670.4
55°	578.8	577.0	576.1	577.0
57.5°	479.2	477.5	476.6	473.9
60°	388.5	383.2	379.7	379.7
62.5°	304.1	297.9	295.2	294.3
65°	228.5	227.6	222.3	221.4
67.5°	165.4	161.8	158.3	159.2
70°	116.5	111.1	111.1	109.4
72.5°	75.6	72.9	72.0	72.0
75°	47.1	47.1	45.3	48.9
77.5°	31.1	31.1	30.2	31.1
80°	18.7	18.7	18.7	17.8
82.5°	11.6	12.4	11.6	11.6
85°	6.2	7.1	5.3	8.0
87.5°	3.5	4.4	3.5	4.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)