

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: P245511

Luminaire Tested: **LD8B30D010 ER8B30950 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245511  
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 ER8B30950 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
90 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2914.0 lumens  
Efficiency: N/A  
Efficacy: 107.5 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

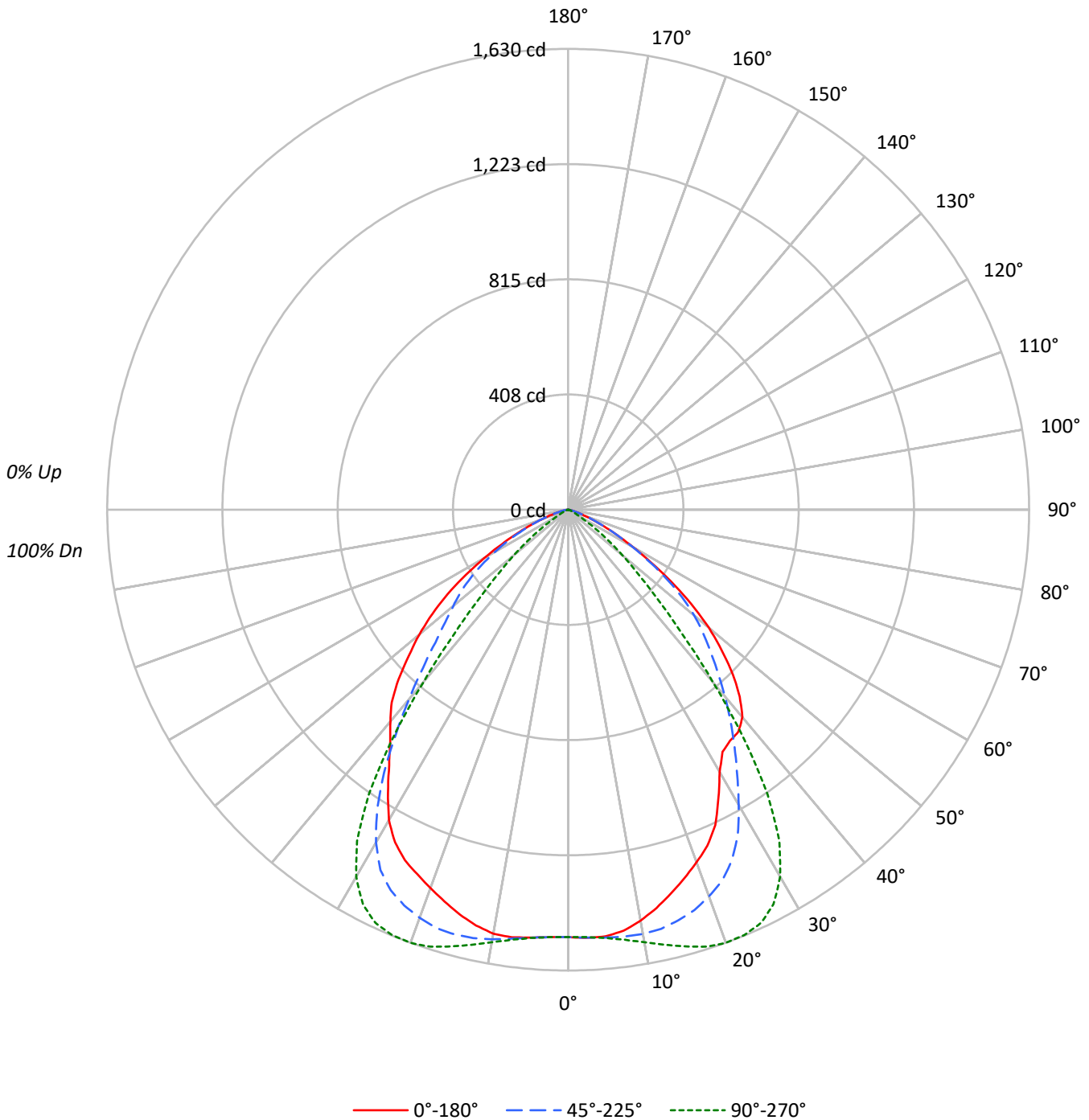
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	75	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°	46615	46615	46615
5°	46892	47066	47016
10°	46204	48640	47685
15°	44853	51050	47312
20°	43549	53502	46736
25°	41880	54874	46521
30°	38113	53371	45142
35°	37546	46246	41533
40°	38563	32074	39372
45°	35899	19384	37020
50°	31139	11969	32986
55°	23897	6252	27994
60°	16282	2522	21129
65°	10128	1291	14578
70°	5500	793	8899
75°	2871	381	5254
80°	1279	426	2841
85°	849	283	2547



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.4	5.0
10°-20°	430.7	14.8
20°-30°	657.0	22.5
30°-40°	685.6	23.5
40°-50°	515.0	17.7
50°-60°	316.8	10.9
60°-70°	128.9	4.4
70°-80°	30.4	1.0
80°-90°	4.2	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°	1233.1	42.3
0°-40°	1918.7	65.8
0°-60°	2750.5	94.4
0°-90°	2914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2914.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1512	1512	1512	1512	1512	
5°	1515	1519	1520	1519	1519	143
15°	1405	1504	1599	1555	1482	396
25°	1231	1369	1613	1485	1367	560
35°	997	1025	1228	1135	1103	630
45°	823	712	444	664	849	628
55°	444	422	116	422	521	400
65°	139	140	18	189	200	145
75°	24	24	3	42	44	29
85°	2	2	1	6	7	3
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°	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7
2.5°	1515.7	1513.3	1515.7	1515.7	1516.5	1514.9	1515.7	1516.5	1514.9	1514.9	1514.9
5°	1514.9	1513.3	1514.9	1514.1	1515.7	1515.7	1517.3	1517.3	1518.9	1518.9	1521.3
7.5°	1502.1	1498.9	1502.1	1504.5	1506.1	1509.3	1513.3	1516.5	1519.7	1522.9	1526.9
10°	1475.6	1475.6	1478.0	1482.8	1487.6	1493.2	1500.5	1508.5	1516.5	1523.7	1530.9
12.5°	1442.7	1440.3	1445.1	1451.5	1458.7	1467.6	1478.8	1490.8	1503.7	1518.1	1529.3
15°	1405.0	1402.6	1408.2	1414.6	1423.4	1436.3	1449.9	1466.0	1484.4	1503.7	1522.1
17.5°	1366.5	1365.7	1371.3	1380.1	1387.3	1401.0	1418.6	1437.9	1458.7	1484.4	1508.5
20°	1327.1	1326.3	1332.0	1339.2	1348.8	1361.6	1379.3	1401.8	1426.6	1455.5	1483.6
22.5°	1286.2	1287.0	1291.8	1299.9	1307.9	1321.5	1340.0	1362.4	1389.7	1421.0	1452.3
25°	1230.9	1226.8	1233.3	1241.3	1254.9	1266.2	1283.8	1307.9	1336.0	1368.9	1405.8
27.5°	1150.6	1149.8	1155.4	1162.6	1174.7	1188.3	1207.6	1232.5	1262.1	1298.3	1334.4
30°	1070.4	1072.0	1074.4	1081.6	1089.6	1103.3	1122.5	1143.4	1171.5	1206.0	1244.5
32.5°	1015.8	1015.8	1019.0	1023.8	1029.5	1036.7	1050.3	1065.6	1087.2	1111.3	1139.4
35°	997.4	994.2	997.4	998.2	999.0	1000.6	1003.0	1007.8	1015.0	1025.4	1035.9
37.5°	989.3	986.9	986.9	983.7	979.7	974.9	968.5	961.3	953.2	942.8	934.8
40°	958.0	956.4	954.8	951.6	942.8	933.2	922.7	905.9	887.4	861.8	836.1
42.5°	897.9	896.3	895.5	889.0	881.0	869.8	857.7	840.1	816.8	783.9	747.0
45°	823.2	820.0	817.6	812.0	806.4	796.8	785.5	769.5	746.2	712.5	668.4
47.5°	736.6	735.0	734.2	731.8	726.2	720.5	713.3	700.5	679.6	647.5	601.8
50°	649.1	645.9	647.5	646.7	644.3	640.3	635.5	626.7	610.6	581.7	540.0
52.5°	548.8	548.8	548.0	550.4	551.2	550.4	551.2	541.6	528.0	506.3	471.0
55°	444.5	444.5	446.9	450.1	453.3	454.1	453.3	449.3	439.7	422.1	390.8
57.5°	346.6	345.0	349.8	354.7	357.9	361.1	358.7	355.5	349.8	335.4	311.3
60°	264.0	264.0	267.2	270.4	273.6	276.8	276.0	275.2	270.4	260.8	241.5
62.5°	194.2	195.0	195.0	197.4	200.6	203.8	206.2	203.8	201.4	195.0	182.1
65°	138.8	138.0	138.8	141.2	143.6	146.8	148.4	147.6	145.2	140.4	130.8
67.5°	93.1	92.3	95.5	96.3	97.9	101.1	100.3	101.1	100.3	96.3	88.3
70°	61.0	59.4	61.0	60.2	62.6	63.4	65.0	65.8	65.0	62.6	60.2
72.5°	37.7	36.9	37.7	38.5	39.3	40.1	41.7	41.7	40.9	39.3	36.1
75°	24.1	21.7	22.5	20.9	22.5	22.5	24.1	24.9	24.1	24.1	22.5
77.5°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	15.3	16.0	14.4	13.6
80°	7.2	7.2	8.0	8.0	8.0	8.8	8.0	8.0	8.0	8.8	6.4
82.5°	5.6	4.8	4.8	4.8	5.6	4.8	4.8	4.8	4.8	4.8	4.8
85°	2.4	3.2	2.4	1.6	2.4	2.4	3.2	2.4	2.4	2.4	3.2
87.5°	0.8	0.8	0.0	0.0	0.0	0.8	0.0	0.8	0.8	1.6	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°	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7
2.5°	1515.7	1514.1	1514.1	1513.3	1514.9	1513.3	1514.1	1513.3	1513.3	1514.9	1513.3
5°	1521.3	1522.1	1520.5	1519.7	1522.1	1522.1	1522.1	1520.5	1520.5	1521.3	1520.5
7.5°	1529.3	1530.9	1531.7	1532.6	1534.2	1535.0	1535.0	1534.2	1533.4	1535.8	1532.6
10°	1538.2	1540.6	1545.4	1547.8	1551.8	1551.8	1553.4	1553.4	1551.8	1553.4	1552.6
12.5°	1535.0	1549.4	1557.4	1563.0	1568.7	1573.5	1575.1	1575.9	1575.1	1578.3	1575.1
15°	1540.6	1552.6	1565.5	1575.1	1585.5	1591.1	1592.7	1599.1	1600.8	1601.6	1596.7
17.5°	1531.7	1553.4	1567.0	1581.5	1596.7	1607.2	1616.8	1620.8	1621.6	1623.2	1616.8
20°	1511.7	1535.8	1556.6	1577.5	1595.1	1611.2	1619.2	1630.4	1627.2	1633.7	1624.8
22.5°	1484.4	1511.7	1538.2	1565.5	1583.9	1603.2	1620.0	1628.0	1632.0	1632.0	1622.4
25°	1441.1	1473.2	1502.1	1530.1	1558.2	1581.5	1600.8	1612.8	1615.2	1614.4	1603.2
27.5°	1373.7	1408.2	1441.9	1474.0	1508.5	1535.8	1558.2	1572.7	1576.7	1576.7	1564.6
30°	1280.6	1317.5	1350.4	1388.9	1424.2	1454.7	1486.0	1498.9	1506.1	1506.1	1492.4
32.5°	1169.9	1201.2	1231.7	1269.4	1307.9	1342.4	1372.1	1389.7	1398.6	1397.8	1385.7
35°	1049.5	1064.8	1088.0	1116.1	1150.6	1182.7	1211.6	1228.5	1243.7	1242.9	1231.7
37.5°	929.2	925.1	927.6	938.0	959.6	982.1	1004.6	1020.6	1033.5	1039.1	1036.7
40°	811.2	790.3	770.3	763.1	764.7	772.7	784.7	796.8	811.2	818.4	821.6
42.5°	705.3	670.0	634.7	608.2	593.0	588.1	593.8	597.8	606.6	617.0	627.5
45°	620.2	572.9	526.4	485.4	459.8	444.5	441.3	444.5	449.3	459.8	473.4
47.5°	550.4	495.1	442.9	397.2	359.5	339.4	333.8	332.2	337.0	346.6	365.1
50°	488.6	433.3	375.5	322.6	283.2	260.8	252.8	249.5	255.2	262.4	279.2
52.5°	421.2	366.7	307.3	256.0	215.0	191.8	182.9	178.1	181.3	191.0	207.8
55°	348.2	297.7	243.9	191.0	151.6	130.0	119.5	116.3	119.5	130.0	146.8
57.5°	275.2	232.7	187.8	138.0	102.7	81.0	70.6	67.4	76.2	80.2	97.9
60°	215.0	180.5	142.0	101.1	70.6	53.8	43.3	40.9	44.9	52.1	66.6
62.5°	161.3	139.6	109.1	72.2	52.1	34.5	28.9	26.5	28.9	34.5	45.7
65°	117.1	100.3	76.2	53.0	35.3	25.7	19.3	17.7	20.1	24.1	33.7
67.5°	80.2	67.4	53.0	36.9	24.1	16.0	13.6	13.6	14.4	17.7	24.9
70°	52.1	44.1	33.7	24.1	16.0	12.0	10.4	8.8	10.4	12.8	16.8
72.5°	32.9	28.1	21.7	16.8	12.0	8.8	7.2	6.4	8.0	9.6	12.8
75°	20.1	15.3	11.2	8.8	6.4	6.4	6.4	3.2	4.0	6.4	8.0
77.5°	12.0	10.4	8.8	7.2	5.6	3.2	3.2	3.2	4.0	4.8	7.2
80°	6.4	5.6	4.0	4.0	3.2	2.4	3.2	2.4	1.6	4.0	4.8
82.5°	4.0	3.2	3.2	3.2	4.0	1.6	2.4	1.6	2.4	3.2	2.4
85°	2.4	2.4	2.4	1.6	4.0	1.6	1.6	0.8	0.8	1.6	1.6
87.5°	0.0	0.8	0.8	0.0	0.8	0.0	0.8	0.8	0.8	0.8	0.8
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7	1511.7
2.5°	1514.1	1513.3	1514.1	1513.3	1513.3	1513.3	1514.1	1514.1	1513.3	1513.3	1514.9
5°	1520.5	1520.5	1520.5	1519.7	1518.9	1518.9	1520.5	1520.5	1518.1	1520.5	1520.5
7.5°	1534.2	1531.7	1534.2	1530.9	1529.3	1530.1	1530.9	1529.3	1527.7	1528.5	1528.5
10°	1551.8	1549.4	1549.4	1547.0	1544.6	1543.0	1541.4	1537.4	1533.4	1532.6	1529.3
12.5°	1572.7	1568.7	1566.3	1561.4	1557.4	1551.8	1547.0	1540.6	1532.6	1526.9	1521.3
15°	1593.5	1587.1	1581.5	1573.5	1564.6	1555.0	1544.6	1534.2	1521.3	1510.1	1500.5
17.5°	1610.4	1601.6	1591.1	1578.3	1565.5	1551.0	1535.8	1520.5	1502.1	1487.6	1476.4
20°	1616.0	1603.2	1589.5	1572.7	1555.8	1535.8	1516.5	1496.4	1475.6	1460.3	1447.5
22.5°	1608.8	1593.5	1576.7	1559.0	1536.6	1514.9	1492.4	1469.2	1450.7	1429.8	1417.8
25°	1588.7	1570.3	1551.8	1530.9	1509.3	1485.2	1461.1	1437.1	1414.6	1403.4	1388.1
27.5°	1547.8	1527.7	1507.7	1486.0	1461.1	1437.1	1412.2	1388.9	1369.7	1354.4	1345.6
30°	1475.6	1452.3	1429.0	1405.8	1384.1	1359.2	1336.0	1316.7	1297.4	1285.4	1276.6
32.5°	1364.8	1344.0	1320.7	1298.3	1278.2	1257.3	1238.1	1221.2	1207.6	1199.6	1193.1
35°	1215.6	1194.7	1177.1	1161.1	1144.2	1135.4	1123.3	1113.7	1108.1	1104.9	1104.1
37.5°	1027.8	1015.8	1010.2	1007.0	1003.8	1001.4	1003.0	1007.0	1010.2	1015.8	1022.2
40°	827.3	837.7	840.9	852.1	862.6	876.2	891.5	909.1	923.5	942.0	954.8
42.5°	644.3	663.6	686.0	710.1	735.8	760.7	791.1	819.2	844.9	868.2	888.2
45°	495.1	524.8	558.5	593.0	627.5	663.6	700.5	735.0	765.5	790.3	811.2
47.5°	385.9	418.8	462.2	504.7	546.4	588.9	629.9	666.0	691.7	715.7	734.2
50°	305.7	343.4	390.8	439.7	485.4	530.4	573.7	607.4	633.1	652.3	666.0
52.5°	236.7	281.6	329.8	381.1	430.1	479.0	519.1	550.4	571.3	588.1	598.6
55°	176.5	220.7	272.0	325.0	374.7	422.1	459.8	487.1	505.5	515.1	520.7
57.5°	127.6	167.7	219.0	272.0	316.9	361.9	392.4	417.2	427.7	433.3	435.7
60°	93.1	130.0	175.7	221.5	264.0	300.1	326.6	343.4	351.4	354.7	353.8
62.5°	68.2	100.3	139.6	178.1	212.6	242.3	263.2	274.4	278.4	280.0	277.6
65°	52.1	77.0	110.7	140.4	166.9	188.6	203.8	211.0	213.4	212.6	211.0
67.5°	38.5	57.8	82.7	105.1	124.4	141.2	149.2	155.7	157.3	154.9	152.5
70°	27.3	42.5	60.2	75.4	89.9	99.5	108.3	109.1	109.1	108.3	106.7
72.5°	19.3	29.7	40.9	51.4	60.2	67.4	70.6	73.0	72.2	71.4	69.8
75°	12.8	18.5	29.7	32.1	40.1	42.5	45.7	45.7	46.5	44.1	44.1
77.5°	8.0	12.8	17.7	20.9	24.1	27.3	28.9	28.9	29.7	28.9	28.9
80°	4.8	8.0	9.6	14.4	14.4	16.8	17.7	18.5	16.8	19.3	16.8
82.5°	3.2	4.8	7.2	7.2	8.8	10.4	10.4	11.2	11.2	10.4	10.4
85°	2.4	3.2	4.0	4.8	4.8	5.6	4.8	4.8	5.6	6.4	5.6
87.5°	0.8	1.6	0.8	1.6	1.6	3.2	2.4	2.4	2.4	3.2	3.2
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: P245511

CATALOG NUMBER: LD8B30D010 ER8B30950 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1511.7	1511.7	1511.7	1511.7
2.5°	1513.3	1514.1	1513.3	1513.3
5°	1520.5	1519.7	1520.5	1518.9
7.5°	1526.1	1526.1	1525.3	1525.3
10°	1526.1	1522.9	1522.9	1522.9
12.5°	1514.1	1510.1	1507.7	1506.1
15°	1493.2	1486.0	1482.8	1482.0
17.5°	1466.0	1459.5	1455.5	1453.1
20°	1434.7	1428.2	1423.4	1424.2
22.5°	1407.4	1400.2	1396.9	1395.3
25°	1380.1	1371.3	1368.9	1367.3
27.5°	1336.0	1331.2	1328.7	1326.3
30°	1268.6	1266.2	1262.1	1267.8
32.5°	1190.7	1186.7	1183.5	1185.9
35°	1104.9	1102.5	1104.9	1103.3
37.5°	1026.3	1028.7	1031.9	1033.5
40°	964.5	973.3	976.5	978.1
42.5°	902.7	913.1	919.5	923.5
45°	826.5	836.9	844.1	848.9
47.5°	747.8	756.7	763.9	763.1
50°	676.4	681.2	684.4	687.6
52.5°	604.2	604.2	605.0	605.0
55°	522.4	520.7	519.9	520.7
57.5°	432.5	430.9	430.1	427.7
60°	350.6	345.8	342.6	342.6
62.5°	274.4	268.8	266.4	265.6
65°	206.2	205.4	200.6	199.8
67.5°	149.2	146.0	142.8	143.6
70°	105.1	100.3	100.3	98.7
72.5°	68.2	65.8	65.0	65.0
75°	42.5	42.5	40.9	44.1
77.5°	28.1	28.1	27.3	28.1
80°	16.8	16.8	16.8	16.0
82.5°	10.4	11.2	10.4	10.4
85°	5.6	6.4	4.8	7.2
87.5°	3.2	4.0	3.2	4.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)