

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: P244227

Luminaire Tested: **LD8B30D010 ER8B30930 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244227
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 ER8B30930 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2683.7 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

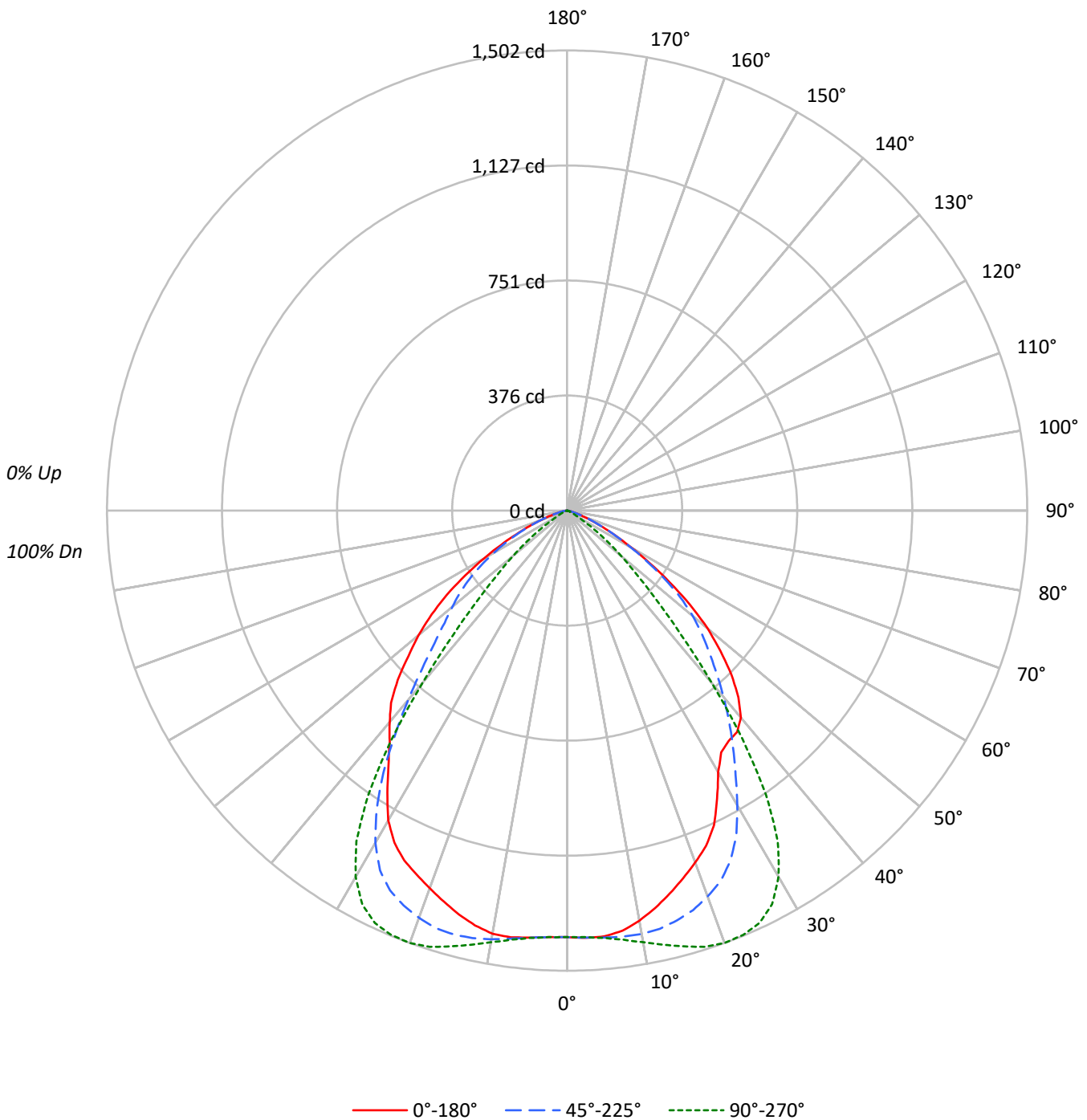
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P244227

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



TEST NUMBER: P244227

CATALOG NUMBER: LD8B30D010 ER8B30930 8LBDWOLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	5.0
10°-20°	396.6	14.8
20°-30°	605.1	22.5
30°-40°	631.4	23.5
40°-50°	474.3	17.7
50°-60°	291.8	10.9
60°-70°	118.8	4.4
70°-80°	28.0	1.0
80°-90°	3.9	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°	1135.6	42.3
0°-40°	1767.0	65.8
0°-60°	2533.1	94.4
0°-90°	2683.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2683.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1392	1392	1392	1392	1392	
5°	1395	1399	1400	1399	1399	132
15°	1294	1385	1473	1432	1365	364
25°	1134	1261	1485	1368	1259	515
35°	918	944	1131	1046	1016	580
45°	758	656	409	611	782	578
55°	409	389	107	389	480	368
65°	128	129	16	174	184	133
75°	22	22	3	39	41	27
85°	2	2	1	5	7	3
90°	0	0	0	0	0	



TEST NUMBER: P244227

CATALOG NUMBER: LD8B30D010 ER8B30930 8LBDWOLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2
2.5°	1395.9	1393.6	1395.9	1395.9	1396.7	1395.2	1395.9	1396.7	1395.2	1395.2	1395.2
5°	1395.2	1393.6	1395.2	1394.4	1395.9	1395.9	1397.4	1397.4	1398.9	1398.9	1401.0
7.5°	1383.3	1380.4	1383.3	1385.6	1387.0	1390.0	1393.6	1396.7	1399.6	1402.6	1406.3
10°	1359.0	1359.0	1361.1	1365.6	1370.0	1375.2	1381.9	1389.3	1396.7	1403.3	1409.9
12.5°	1328.6	1326.5	1330.9	1336.8	1343.4	1351.6	1361.9	1373.0	1384.8	1398.1	1408.4
15°	1294.0	1291.7	1296.9	1302.8	1310.9	1322.8	1335.3	1350.1	1367.1	1384.8	1401.8
17.5°	1258.4	1257.8	1262.9	1271.0	1277.7	1290.3	1306.5	1324.2	1343.4	1367.1	1389.3
20°	1222.2	1221.6	1226.7	1233.3	1242.2	1254.1	1270.3	1290.9	1313.8	1340.5	1366.4
22.5°	1184.6	1185.3	1189.7	1197.1	1204.5	1217.1	1234.1	1254.7	1279.8	1308.7	1337.5
25°	1133.6	1129.9	1135.8	1143.2	1155.8	1166.1	1182.3	1204.5	1230.4	1260.7	1294.6
27.5°	1059.7	1058.9	1064.2	1070.8	1081.9	1094.4	1112.1	1135.0	1162.4	1195.7	1228.8
30°	985.8	987.3	989.5	996.1	1003.5	1016.1	1033.8	1053.1	1078.9	1110.7	1146.1
32.5°	935.5	935.5	938.5	942.9	948.1	954.8	967.3	981.3	1001.3	1023.5	1049.4
35°	918.5	915.5	918.5	919.2	920.0	921.5	923.7	928.2	934.8	944.4	954.0
37.5°	911.1	908.9	908.9	906.0	902.3	897.8	892.0	885.3	877.9	868.3	860.9
40°	882.3	880.9	879.3	876.4	868.3	859.5	849.8	834.2	817.3	793.7	770.0
42.5°	826.8	825.4	824.7	818.8	811.4	801.1	790.0	773.7	752.3	721.9	688.0
45°	758.1	755.2	753.0	747.8	742.7	733.8	723.5	708.7	687.2	656.2	615.5
47.5°	678.3	676.9	676.2	673.9	668.8	663.6	656.9	645.1	625.9	596.4	554.2
50°	597.8	594.9	596.4	595.6	593.3	589.6	585.3	577.1	562.3	535.7	497.3
52.5°	505.5	505.5	504.7	506.9	507.7	506.9	507.7	498.8	486.3	466.2	433.7
55°	409.4	409.4	411.6	414.5	417.5	418.2	417.5	413.9	404.9	388.7	359.8
57.5°	319.3	317.8	322.2	326.7	329.6	332.5	330.4	327.3	322.2	308.8	286.8
60°	243.1	243.1	246.1	249.1	252.0	254.9	254.2	253.5	249.1	240.1	222.4
62.5°	178.8	179.6	179.6	181.8	184.7	187.7	189.9	187.7	185.5	179.6	167.7
65°	127.8	127.1	127.8	130.0	132.3	135.2	136.8	136.0	133.7	129.4	120.5
67.5°	85.8	85.0	87.9	88.7	90.1	93.2	92.4	93.2	92.4	88.7	81.3
70°	56.2	54.7	56.2	55.4	57.6	58.4	59.9	60.6	59.9	57.6	55.4
72.5°	34.8	34.0	34.8	35.4	36.2	37.0	38.5	38.5	37.7	36.2	33.3
75°	22.2	20.0	20.7	19.2	20.7	20.7	22.2	22.9	22.2	22.2	20.7
77.5°	13.3	13.3	13.3	13.3	13.3	13.3	13.3	14.0	14.8	13.3	12.6
80°	6.6	6.6	7.4	7.4	7.4	8.2	7.4	7.4	7.4	8.2	5.9
82.5°	5.2	4.5	4.5	4.5	5.2	4.5	4.5	4.5	4.5	4.5	4.5
85°	2.2	2.9	2.2	1.5	2.2	2.2	2.9	2.2	2.2	2.2	2.9
87.5°	0.8	0.8	0.0	0.0	0.0	0.8	0.0	0.8	0.8	1.5	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: P244227

CATALOG NUMBER: LD8B30D010 ER8B30930 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2
2.5°	1395.9	1394.4	1394.4	1393.6	1395.2	1393.6	1394.4	1393.6	1393.6	1395.2	1393.6
5°	1401.0	1401.8	1400.4	1399.6	1401.8	1401.8	1401.8	1400.4	1400.4	1401.0	1400.4
7.5°	1408.4	1409.9	1410.7	1411.5	1412.9	1413.7	1413.7	1412.9	1412.1	1414.4	1411.5
10°	1416.6	1418.8	1423.2	1425.5	1429.2	1429.2	1430.6	1430.6	1429.2	1430.6	1429.9
12.5°	1413.7	1426.9	1434.3	1439.5	1444.6	1449.1	1450.6	1451.4	1450.6	1453.5	1450.6
15°	1418.8	1429.9	1441.7	1450.6	1460.2	1465.4	1466.8	1472.8	1474.2	1475.0	1470.5
17.5°	1410.7	1430.6	1443.2	1456.5	1470.5	1480.2	1489.0	1492.7	1493.4	1495.0	1489.0
20°	1392.2	1414.4	1433.5	1452.8	1469.1	1483.9	1491.3	1501.6	1498.7	1504.5	1496.4
22.5°	1367.1	1392.2	1416.6	1441.7	1458.8	1476.5	1491.9	1499.3	1503.0	1503.0	1494.2
25°	1327.2	1356.7	1383.3	1409.2	1435.1	1456.5	1474.2	1485.3	1487.6	1486.8	1476.5
27.5°	1265.0	1296.9	1327.9	1357.5	1389.3	1414.4	1435.1	1448.3	1452.0	1452.0	1440.9
30°	1179.4	1213.4	1243.6	1279.2	1311.7	1339.7	1368.5	1380.4	1387.0	1387.0	1374.5
32.5°	1077.4	1106.2	1134.3	1169.1	1204.5	1236.2	1263.6	1279.8	1288.0	1287.2	1276.1
35°	966.5	980.7	1002.1	1027.8	1059.7	1089.3	1115.8	1131.3	1145.4	1144.7	1134.3
37.5°	855.7	852.1	854.2	863.8	883.8	904.5	925.2	940.0	951.7	957.0	954.8
40°	747.1	727.9	709.4	702.8	704.2	711.6	722.7	733.8	747.1	753.8	756.7
42.5°	649.5	617.0	584.5	560.2	546.0	541.7	546.8	550.5	558.7	568.2	577.9
45°	571.3	527.7	484.7	447.1	423.4	409.4	406.5	409.4	413.9	423.4	436.0
47.5°	506.9	455.9	407.9	365.8	331.0	312.5	307.4	305.9	310.4	319.3	336.2
50°	450.0	399.1	345.8	297.1	260.9	240.1	232.8	229.8	235.0	241.7	257.2
52.5°	388.0	337.8	283.1	235.7	198.1	176.7	168.5	164.0	167.0	175.9	191.4
55°	320.7	274.2	224.6	175.9	139.7	119.7	110.1	107.2	110.1	119.7	135.2
57.5°	253.5	214.3	172.9	127.1	94.6	74.7	65.0	62.1	70.2	73.9	90.1
60°	198.1	166.2	130.8	93.2	65.0	49.5	39.9	37.7	41.4	48.0	61.3
62.5°	148.5	128.6	100.4	66.5	48.0	31.7	26.6	24.4	26.6	31.7	42.1
65°	107.8	92.4	70.2	48.8	32.5	23.7	17.7	16.3	18.5	22.2	31.1
67.5°	73.9	62.1	48.8	34.0	22.2	14.8	12.6	12.6	13.3	16.3	22.9
70°	48.0	40.7	31.1	22.2	14.8	11.1	9.6	8.2	9.6	11.8	15.5
72.5°	30.3	25.9	20.0	15.5	11.1	8.2	6.6	5.9	7.4	8.9	11.8
75°	18.5	14.0	10.3	8.2	5.9	5.9	5.9	2.9	3.7	5.9	7.4
77.5°	11.1	9.6	8.2	6.6	5.2	2.9	2.9	2.9	3.7	4.5	6.6
80°	5.9	5.2	3.7	3.7	2.9	2.2	2.9	2.2	1.5	3.7	4.5
82.5°	3.7	2.9	2.9	2.9	3.7	1.5	2.2	1.5	2.2	2.9	2.2
85°	2.2	2.2	2.2	1.5	3.7	1.5	1.5	0.8	0.8	1.5	1.5
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



TEST NUMBER: P244227

CATALOG NUMBER: LD8B30D010 ER8B30930 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2	1392.2
2.5°	1394.4	1393.6	1394.4	1393.6	1393.6	1393.6	1394.4	1394.4	1393.6	1393.6	1395.2
5°	1400.4	1400.4	1400.4	1399.6	1398.9	1398.9	1400.4	1400.4	1398.1	1400.4	1400.4
7.5°	1412.9	1410.7	1412.9	1409.9	1408.4	1409.2	1409.9	1408.4	1407.0	1407.8	1407.8
10°	1429.2	1426.9	1426.9	1424.7	1422.5	1421.0	1419.5	1415.8	1412.1	1411.5	1408.4
12.5°	1448.3	1444.6	1442.5	1438.0	1434.3	1429.2	1424.7	1418.8	1411.5	1406.3	1401.0
15°	1467.6	1461.7	1456.5	1449.1	1440.9	1432.1	1422.5	1412.9	1401.0	1390.7	1381.9
17.5°	1483.1	1475.0	1465.4	1453.5	1441.7	1428.4	1414.4	1400.4	1383.3	1370.0	1359.7
20°	1488.2	1476.5	1463.9	1448.3	1432.9	1414.4	1396.7	1378.2	1359.0	1344.9	1333.1
22.5°	1481.6	1467.6	1452.0	1435.8	1415.2	1395.2	1374.5	1353.0	1336.0	1316.8	1305.7
25°	1463.1	1446.2	1429.2	1409.9	1390.0	1367.8	1345.6	1323.5	1302.8	1292.4	1278.4
27.5°	1425.5	1407.0	1388.5	1368.5	1345.6	1323.5	1300.6	1279.2	1261.5	1247.3	1239.3
30°	1359.0	1337.5	1316.1	1294.6	1274.7	1251.8	1230.4	1212.6	1194.9	1183.8	1175.7
32.5°	1257.0	1237.8	1216.3	1195.7	1177.2	1158.0	1140.2	1124.7	1112.1	1104.7	1098.8
35°	1119.5	1100.3	1084.0	1069.3	1053.7	1045.7	1034.6	1025.7	1020.4	1017.5	1016.9
37.5°	946.6	935.5	930.3	927.4	924.5	922.2	923.7	927.4	930.3	935.5	941.4
40°	761.8	771.5	774.4	784.8	794.3	806.9	821.0	837.3	850.5	867.5	879.3
42.5°	593.3	611.2	631.8	654.0	677.6	700.5	728.6	754.4	778.1	799.5	818.0
45°	455.9	483.3	514.3	546.0	577.9	611.2	645.1	676.9	705.0	727.9	747.1
47.5°	355.5	385.7	425.6	464.8	503.2	542.5	580.1	613.3	637.0	659.1	676.2
50°	281.6	316.2	359.8	404.9	447.1	488.4	528.3	559.4	583.0	600.7	613.3
52.5°	218.0	259.4	303.7	351.0	396.0	441.1	478.1	506.9	526.2	541.7	551.3
55°	162.5	203.2	250.5	299.3	345.0	388.7	423.4	448.5	465.6	474.4	479.6
57.5°	117.5	154.5	201.8	250.5	291.9	333.3	361.3	384.3	393.8	399.1	401.2
60°	85.8	119.7	161.9	203.9	243.1	276.3	300.8	316.2	323.6	326.7	325.9
62.5°	62.8	92.4	128.6	164.0	195.8	223.2	242.4	252.7	256.4	257.9	255.7
65°	48.0	71.0	102.0	129.4	153.7	173.6	187.7	194.4	196.5	195.8	194.4
67.5°	35.4	53.2	76.1	96.9	114.6	130.0	137.4	143.4	144.8	142.6	140.3
70°	25.1	39.1	55.4	69.5	82.7	91.6	99.8	100.4	100.4	99.8	98.3
72.5°	17.7	27.4	37.7	47.3	55.4	62.1	65.0	67.3	66.5	65.8	64.3
75°	11.8	17.0	27.4	29.6	37.0	39.1	42.1	42.1	42.8	40.7	40.7
77.5°	7.4	11.8	16.3	19.2	22.2	25.1	26.6	26.6	27.4	26.6	26.6
80°	4.5	7.4	8.9	13.3	13.3	15.5	16.3	17.0	15.5	17.7	15.5
82.5°	2.9	4.5	6.6	6.6	8.2	9.6	9.6	10.3	10.3	9.6	9.6
85°	2.2	2.9	3.7	4.5	4.5	5.2	4.5	4.5	5.2	5.9	5.2
87.5°	0.8	1.5	0.8	1.5	1.5	2.9	2.2	2.2	2.2	2.9	2.9
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: P244227

CATALOG NUMBER: LD8B30D010 ER8B30930 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1392.2	1392.2	1392.2	1392.2
2.5°	1393.6	1394.4	1393.6	1393.6
5°	1400.4	1399.6	1400.4	1398.9
7.5°	1405.5	1405.5	1404.7	1404.7
10°	1405.5	1402.6	1402.6	1402.6
12.5°	1394.4	1390.7	1388.5	1387.0
15°	1375.2	1368.5	1365.6	1364.8
17.5°	1350.1	1344.2	1340.5	1338.2
20°	1321.2	1315.4	1310.9	1311.7
22.5°	1296.1	1289.5	1286.6	1285.0
25°	1271.0	1262.9	1260.7	1259.2
27.5°	1230.4	1225.9	1223.7	1221.6
30°	1168.3	1166.1	1162.4	1167.5
32.5°	1096.7	1092.9	1089.9	1092.2
35°	1017.5	1015.3	1017.5	1016.1
37.5°	945.1	947.4	950.3	951.7
40°	888.3	896.4	899.3	900.8
42.5°	831.3	841.0	846.8	850.5
45°	761.2	770.7	777.4	781.8
47.5°	688.7	696.8	703.5	702.8
50°	622.9	627.4	630.3	633.3
52.5°	556.5	556.5	557.1	557.1
55°	481.0	479.6	478.9	479.6
57.5°	398.3	396.8	396.0	393.8
60°	323.0	318.5	315.6	315.6
62.5°	252.7	247.5	245.4	244.6
65°	189.9	189.1	184.7	184.0
67.5°	137.4	134.5	131.5	132.3
70°	96.9	92.4	92.4	90.9
72.5°	62.8	60.6	59.9	59.9
75°	39.1	39.1	37.7	40.7
77.5°	25.9	25.9	25.1	25.9
80°	15.5	15.5	15.5	14.8
82.5°	9.6	10.3	9.6	9.6
85°	5.2	5.9	4.5	6.6
87.5°	2.9	3.7	2.9	3.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)