

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: P245523

Luminaire Tested: **LSR8B30D010 EC8B30930 8LBDW0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245523  
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: LSR8B30D010 EC8B30930 8LBDW0WH  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2609.7 lumens  
Efficiency: N/A  
Efficacy: 96.3 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

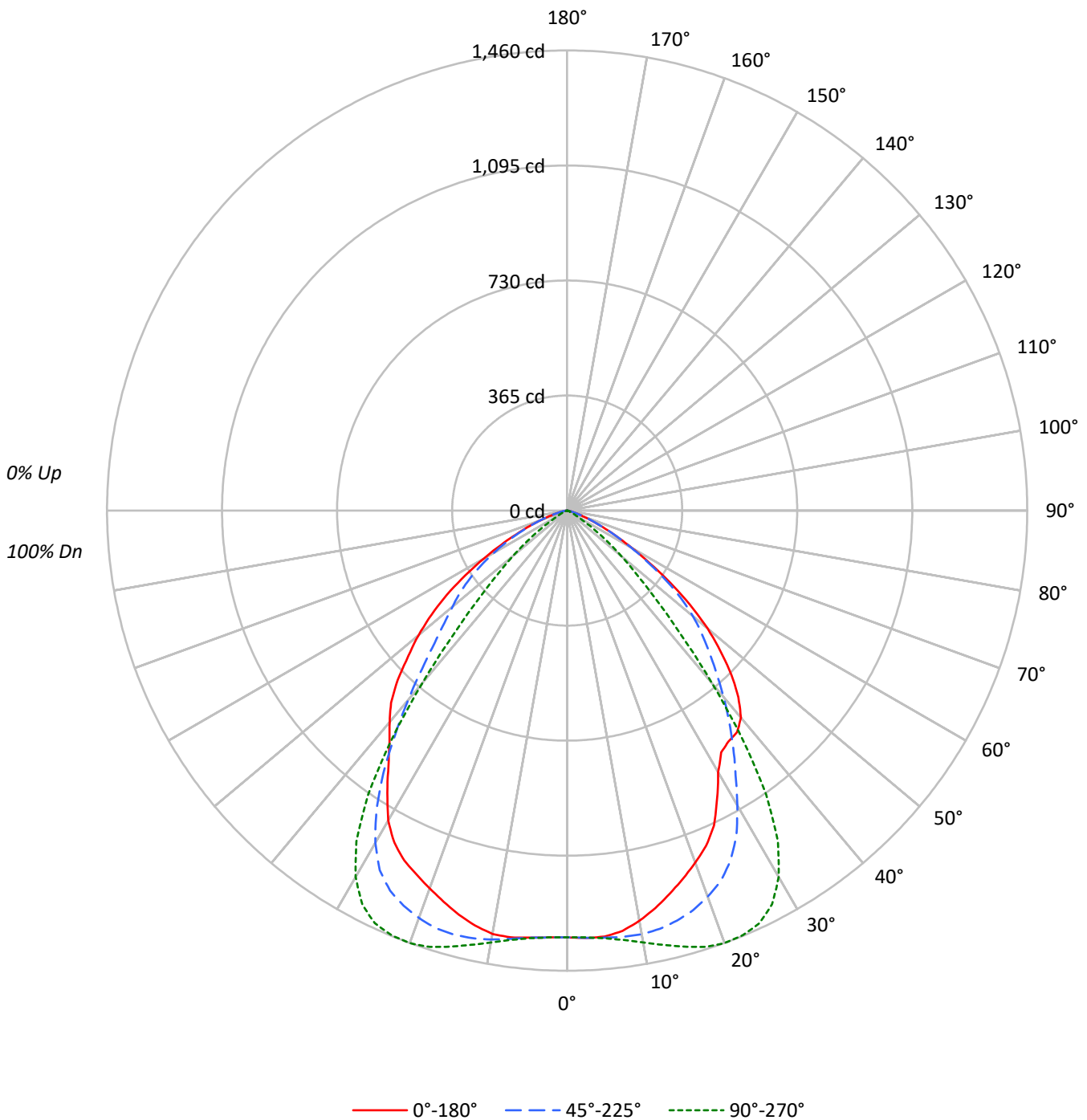
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°			



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.2	5.0
10°-20°	385.7	14.8
20°-30°	588.4	22.5
30°-40°	614.0	23.5
40°-50°	461.2	17.7
50°-60°	283.8	10.9
60°-70°	115.5	4.4
70°-80°	27.2	1.0
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°	1104.3	42.3
0°-40°	1718.3	65.8
0°-60°	2463.2	94.4
0°-90°	2609.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2609.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1354	1354	1354	1354	1354	
5°	1357	1360	1362	1360	1360	128
15°	1258	1347	1432	1393	1327	354
25°	1102	1226	1444	1330	1224	501
35°	893	918	1100	1017	988	564
45°	737	638	398	594	760	563
55°	398	378	104	378	466	358
65°	124	126	16	169	179	130
75°	22	22	3	38	40	26
85°	2	2	1	5	6	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°	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8
2.5°	1357.4	1355.3	1357.4	1357.4	1358.1	1356.7	1357.4	1358.1	1356.7	1356.7	1356.7
5°	1356.7	1355.3	1356.7	1356.0	1357.4	1357.4	1358.9	1358.9	1360.3	1360.3	1362.5
7.5°	1345.2	1342.3	1345.2	1347.3	1348.8	1351.7	1355.3	1358.1	1361.0	1363.9	1367.5
10°	1321.4	1321.4	1323.7	1327.9	1332.3	1337.2	1343.7	1350.9	1358.1	1364.6	1371.1
12.5°	1292.1	1289.8	1294.2	1299.9	1306.4	1314.3	1324.3	1335.1	1346.7	1359.5	1369.6
15°	1258.2	1256.1	1261.1	1266.8	1274.8	1286.2	1298.5	1312.9	1329.4	1346.7	1363.1
17.5°	1223.8	1223.0	1228.1	1236.0	1242.4	1254.6	1270.4	1287.7	1306.4	1329.4	1350.9
20°	1188.6	1187.8	1192.9	1199.4	1208.0	1219.4	1235.2	1255.4	1277.6	1303.5	1328.7
22.5°	1151.9	1152.6	1156.9	1164.2	1171.3	1183.6	1200.0	1220.2	1244.6	1272.7	1300.7
25°	1102.3	1098.7	1104.5	1111.7	1123.9	1133.9	1149.7	1171.3	1196.4	1225.9	1259.0
27.5°	1030.4	1029.8	1034.8	1041.2	1052.1	1064.3	1081.4	1103.7	1130.3	1162.7	1195.0
30°	958.6	960.0	962.2	968.7	975.8	988.0	1005.3	1024.0	1049.1	1080.1	1114.5
32.5°	909.7	909.7	912.6	916.9	921.9	928.4	940.6	954.3	973.7	995.2	1020.4
35°	893.2	890.3	893.2	893.9	894.7	896.1	898.3	902.5	909.0	918.3	927.7
37.5°	886.0	883.9	883.9	881.0	877.4	873.0	867.3	860.8	853.6	844.3	837.2
40°	858.0	856.6	855.1	852.3	844.3	835.7	826.4	811.3	794.8	771.8	748.8
42.5°	804.1	802.6	802.0	796.2	789.0	779.0	768.2	752.4	731.6	702.1	669.0
45°	737.3	734.4	732.2	727.2	722.1	713.5	703.5	689.1	668.2	638.1	598.6
47.5°	659.7	658.3	657.5	655.3	650.3	645.2	638.9	627.3	608.6	579.9	539.0
50°	581.4	578.4	579.9	579.2	577.0	573.4	569.1	561.2	546.8	520.9	483.6
52.5°	491.6	491.6	490.8	492.9	493.7	492.9	493.7	485.1	472.8	453.4	421.8
55°	398.1	398.1	400.2	403.1	406.0	406.7	406.0	402.4	393.8	378.0	350.0
57.5°	310.4	308.9	313.3	317.6	320.5	323.4	321.2	318.4	313.3	300.3	278.8
60°	236.4	236.4	239.3	242.1	245.1	248.0	247.2	246.5	242.1	233.5	216.4
62.5°	173.9	174.7	174.7	176.8	179.7	182.5	184.6	182.5	180.4	174.7	163.1
65°	124.3	123.5	124.3	126.4	128.6	131.5	133.0	132.2	130.0	125.8	117.1
67.5°	83.4	82.6	85.5	86.2	87.7	90.6	89.8	90.6	89.8	86.2	79.0
70°	54.6	53.1	54.6	53.9	56.0	56.7	58.2	59.0	58.2	56.0	53.9
72.5°	33.7	33.1	33.7	34.5	35.2	35.9	37.3	37.3	36.7	35.2	32.3
75°	21.5	19.4	20.1	18.7	20.1	20.1	21.5	22.3	21.5	21.5	20.1
77.5°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	13.7	14.3	12.9	12.2
80°	6.5	6.5	7.2	7.2	7.2	8.0	7.2	7.2	7.2	8.0	5.7
82.5°	5.0	4.3	4.3	4.3	5.0	4.3	4.3	4.3	4.3	4.3	4.3
85°	2.1	2.9	2.1	1.5	2.1	2.1	2.9	2.1	2.1	2.1	2.9
87.5°	0.7	0.7	0.0	0.0	0.0	0.7	0.0	0.7	0.7	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: P245523

CATALOG NUMBER: LSR8B30D010 EC8B30930 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8
2.5°	1357.4	1356.0	1356.0	1355.3	1356.7	1355.3	1356.0	1355.3	1355.3	1355.3	1355.3
5°	1362.5	1363.1	1361.7	1361.0	1363.1	1363.1	1363.1	1361.7	1361.7	1361.7	1361.7
7.5°	1369.6	1371.1	1371.8	1372.6	1373.9	1374.7	1374.7	1373.9	1373.2	1375.4	1372.6
10°	1377.5	1379.7	1384.0	1386.1	1389.7	1389.7	1391.2	1391.2	1389.7	1391.2	1390.5
12.5°	1374.7	1387.6	1394.7	1399.8	1404.8	1409.1	1410.6	1411.3	1410.6	1413.5	1410.6
15°	1379.7	1390.5	1401.9	1410.6	1420.0	1424.9	1426.4	1432.2	1433.5	1434.3	1429.9
17.5°	1371.8	1391.2	1403.4	1416.4	1429.9	1439.4	1448.0	1451.6	1452.3	1453.7	1448.0
20°	1353.8	1375.4	1394.1	1412.8	1428.6	1443.0	1450.1	1460.2	1457.3	1463.0	1455.2
22.5°	1329.4	1353.8	1377.5	1401.9	1418.5	1435.8	1450.8	1458.0	1461.6	1461.6	1452.9
25°	1290.6	1319.3	1345.2	1370.3	1395.5	1416.4	1433.5	1444.4	1446.5	1445.8	1435.8
27.5°	1230.2	1261.1	1291.3	1320.1	1350.9	1375.4	1395.5	1408.4	1412.0	1412.0	1401.2
30°	1146.9	1180.0	1209.3	1243.9	1275.5	1302.8	1330.9	1342.3	1348.8	1348.8	1336.6
32.5°	1047.7	1075.7	1103.1	1136.8	1171.3	1202.2	1228.7	1244.6	1252.5	1251.8	1241.1
35°	940.0	953.5	974.4	999.6	1030.4	1059.2	1085.0	1100.1	1113.8	1113.0	1103.1
37.5°	832.1	828.5	830.7	840.1	859.5	879.5	899.7	914.1	925.5	930.5	928.4
40°	726.5	707.8	689.9	683.4	684.8	692.0	702.8	713.5	726.5	733.0	735.8
42.5°	631.7	600.1	568.3	544.7	531.0	526.8	531.8	535.4	543.2	552.5	562.0
45°	555.5	513.1	471.4	434.7	411.7	398.1	395.3	398.1	402.4	411.7	424.0
47.5°	492.9	443.4	396.6	355.7	322.0	304.0	299.0	297.5	301.8	310.4	327.0
50°	437.6	388.0	336.3	288.9	253.7	233.5	226.3	223.5	228.5	235.0	250.1
52.5°	377.2	328.3	275.2	229.2	192.6	171.7	163.9	159.5	162.4	171.1	186.1
55°	311.9	266.6	218.5	171.1	135.8	116.4	107.1	104.1	107.1	116.4	131.5
57.5°	246.5	208.4	168.2	123.5	91.9	72.5	63.2	60.3	68.3	71.9	87.7
60°	192.6	161.6	127.2	90.6	63.2	48.1	38.8	36.7	40.2	46.7	59.6
62.5°	144.5	125.0	97.8	64.7	46.7	30.9	25.9	23.8	25.9	30.9	40.9
65°	104.9	89.8	68.3	47.4	31.6	23.0	17.3	15.8	17.9	21.5	30.2
67.5°	71.9	60.3	47.4	33.1	21.5	14.3	12.2	12.2	12.9	15.8	22.3
70°	46.7	39.6	30.2	21.5	14.3	10.8	9.3	8.0	9.3	11.5	15.1
72.5°	29.5	25.1	19.4	15.1	10.8	8.0	6.5	5.7	7.2	8.6	11.5
75°	17.9	13.7	10.1	8.0	5.7	5.7	5.7	2.9	3.6	5.7	7.2
77.5°	10.8	9.3	8.0	6.5	5.0	2.9	2.9	2.9	3.6	4.3	6.5
80°	5.7	5.0	3.6	3.6	2.9	2.1	2.9	2.1	1.5	3.6	4.3
82.5°	3.6	2.9	2.9	2.9	3.6	1.5	2.1	1.5	2.1	2.9	2.1
85°	2.1	2.1	2.1	1.5	3.6	1.5	1.5	0.7	0.7	1.5	1.5
87.5°	0.0	0.7	0.7	0.0	0.7	0.0	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: P245523

CATALOG NUMBER: LSR8B30D010 EC8B30930 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8	1353.8
2.5°	1356.0	1355.3	1356.0	1355.3	1355.3	1355.3	1356.0	1356.0	1355.3	1355.3	1356.7
5°	1361.7	1361.7	1361.7	1361.0	1360.3	1360.3	1361.7	1361.7	1359.5	1361.7	1361.7
7.5°	1373.9	1371.8	1373.9	1371.1	1369.6	1370.3	1371.1	1369.6	1368.2	1369.0	1369.0
10°	1389.7	1387.6	1387.6	1385.4	1383.3	1381.9	1380.4	1376.8	1373.2	1372.6	1369.6
12.5°	1408.4	1404.8	1402.7	1398.3	1394.7	1389.7	1385.4	1379.7	1372.6	1367.5	1362.5
15°	1427.1	1421.3	1416.4	1409.1	1401.2	1392.6	1383.3	1373.9	1362.5	1352.4	1343.7
17.5°	1442.2	1434.3	1424.9	1413.5	1401.9	1389.0	1375.4	1361.7	1345.2	1332.3	1322.2
20°	1447.2	1435.8	1423.6	1408.4	1393.3	1375.4	1358.1	1340.2	1321.4	1307.9	1296.3
22.5°	1440.8	1427.1	1412.0	1396.2	1376.1	1356.7	1336.6	1315.7	1299.2	1280.5	1269.8
25°	1422.8	1406.3	1389.7	1371.1	1351.7	1330.1	1308.5	1287.0	1266.8	1256.9	1243.2
27.5°	1386.1	1368.2	1350.2	1330.9	1308.5	1287.0	1264.7	1243.9	1226.6	1212.9	1205.1
30°	1321.4	1300.7	1279.8	1259.0	1239.6	1217.3	1196.4	1179.2	1161.9	1151.2	1143.3
32.5°	1222.3	1203.6	1182.8	1162.7	1144.8	1126.0	1108.8	1093.6	1081.4	1074.3	1068.5
35°	1088.7	1070.0	1054.2	1039.8	1024.7	1016.9	1006.0	997.4	992.4	989.5	988.8
37.5°	920.5	909.7	904.6	901.8	898.9	896.8	898.3	901.8	904.6	909.7	915.5
40°	740.9	750.2	753.1	763.2	772.5	784.7	798.4	814.2	827.1	843.7	855.1
42.5°	577.0	594.2	614.4	635.9	658.9	681.2	708.6	733.7	756.7	777.5	795.5
45°	443.4	469.9	500.2	531.0	562.0	594.2	627.3	658.3	685.5	707.8	726.5
47.5°	345.6	375.1	413.9	452.0	489.3	527.4	564.1	596.4	619.5	641.0	657.5
50°	273.7	307.6	350.0	393.8	434.7	475.0	513.8	544.0	567.0	584.3	596.4
52.5°	212.0	252.2	295.4	341.3	385.2	429.0	464.9	492.9	511.6	526.8	536.1
55°	158.1	197.6	243.6	291.0	335.6	378.0	411.7	436.2	452.8	461.3	466.3
57.5°	114.2	150.2	196.2	243.6	283.8	324.1	351.4	373.6	383.0	388.0	390.2
60°	83.4	116.4	157.4	198.3	236.4	268.7	292.5	307.6	314.8	317.6	316.9
62.5°	61.1	89.8	125.0	159.5	190.5	217.0	235.7	245.7	249.3	250.8	248.6
65°	46.7	68.9	99.2	125.8	149.4	168.8	182.5	189.0	191.1	190.5	189.0
67.5°	34.5	51.8	74.0	94.2	111.4	126.4	133.6	139.5	140.8	138.7	136.5
70°	24.4	38.1	53.9	67.6	80.5	89.1	97.0	97.8	97.8	97.0	95.6
72.5°	17.3	26.6	36.7	46.0	53.9	60.3	63.2	65.4	64.7	63.9	62.6
75°	11.5	16.5	26.6	28.7	35.9	38.1	40.9	40.9	41.7	39.6	39.6
77.5°	7.2	11.5	15.8	18.7	21.5	24.4	25.9	25.9	26.6	25.9	25.9
80°	4.3	7.2	8.6	12.9	12.9	15.1	15.8	16.5	15.1	17.3	15.1
82.5°	2.9	4.3	6.5	6.5	8.0	9.3	9.3	10.1	10.1	9.3	9.3
85°	2.1	2.9	3.6	4.3	4.3	5.0	4.3	4.3	5.0	5.7	5.0
87.5°	0.7	1.5	0.7	1.5	1.5	2.9	2.1	2.1	2.1	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: P245523

CATALOG NUMBER: LSR8B30D010 EC8B30930 8LBDW0WH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1353.8	1353.8	1353.8	1353.8
2.5°	1355.3	1356.0	1355.3	1355.3
5°	1361.7	1361.0	1361.7	1360.3
7.5°	1366.7	1366.7	1366.1	1366.1
10°	1366.7	1363.9	1363.9	1363.9
12.5°	1356.0	1352.4	1350.2	1348.8
15°	1337.2	1330.9	1327.9	1327.3
17.5°	1312.9	1307.1	1303.5	1301.4
20°	1284.9	1279.1	1274.8	1275.5
22.5°	1260.5	1254.0	1251.0	1249.6
25°	1236.0	1228.1	1225.9	1224.5
27.5°	1196.4	1192.2	1189.9	1187.8
30°	1136.1	1133.9	1130.3	1135.3
32.5°	1066.4	1062.8	1059.9	1062.0
35°	989.5	987.4	989.5	988.0
37.5°	919.1	921.2	924.2	925.5
40°	863.7	871.7	874.5	875.9
42.5°	808.5	817.8	823.5	827.1
45°	740.2	749.5	756.0	760.3
47.5°	669.7	677.6	684.0	683.4
50°	605.8	610.0	613.0	615.9
52.5°	541.1	541.1	541.8	541.8
55°	467.8	466.3	465.7	466.3
57.5°	387.3	385.8	385.2	383.0
60°	314.0	309.7	306.8	306.8
62.5°	245.7	240.7	238.5	237.9
65°	184.6	184.0	179.7	178.9
67.5°	133.6	130.8	127.9	128.6
70°	94.2	89.8	89.8	88.3
72.5°	61.1	59.0	58.2	58.2
75°	38.1	38.1	36.7	39.6
77.5°	25.1	25.1	24.4	25.1
80°	15.1	15.1	15.1	14.3
82.5°	9.3	10.1	9.3	9.3
85°	5.0	5.7	4.3	6.5
87.5°	2.9	3.6	2.9	3.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)