

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: P246243

Luminaire Tested: **LSR8B30D010 EC8B30930 8LBDW0MW**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P246243  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13957)  
Test Lab: INNOVATION CENTER-P1  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LSR8B30D010 EC8B30930 8LBDW0MW  
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT- CYLINDEC  
97 CRI 3000 CCT WITH MATTE WHITE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2560.4 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18  
Luminous Opening: Point Source (0' x 0' x 0')  
CIE Type: Direct

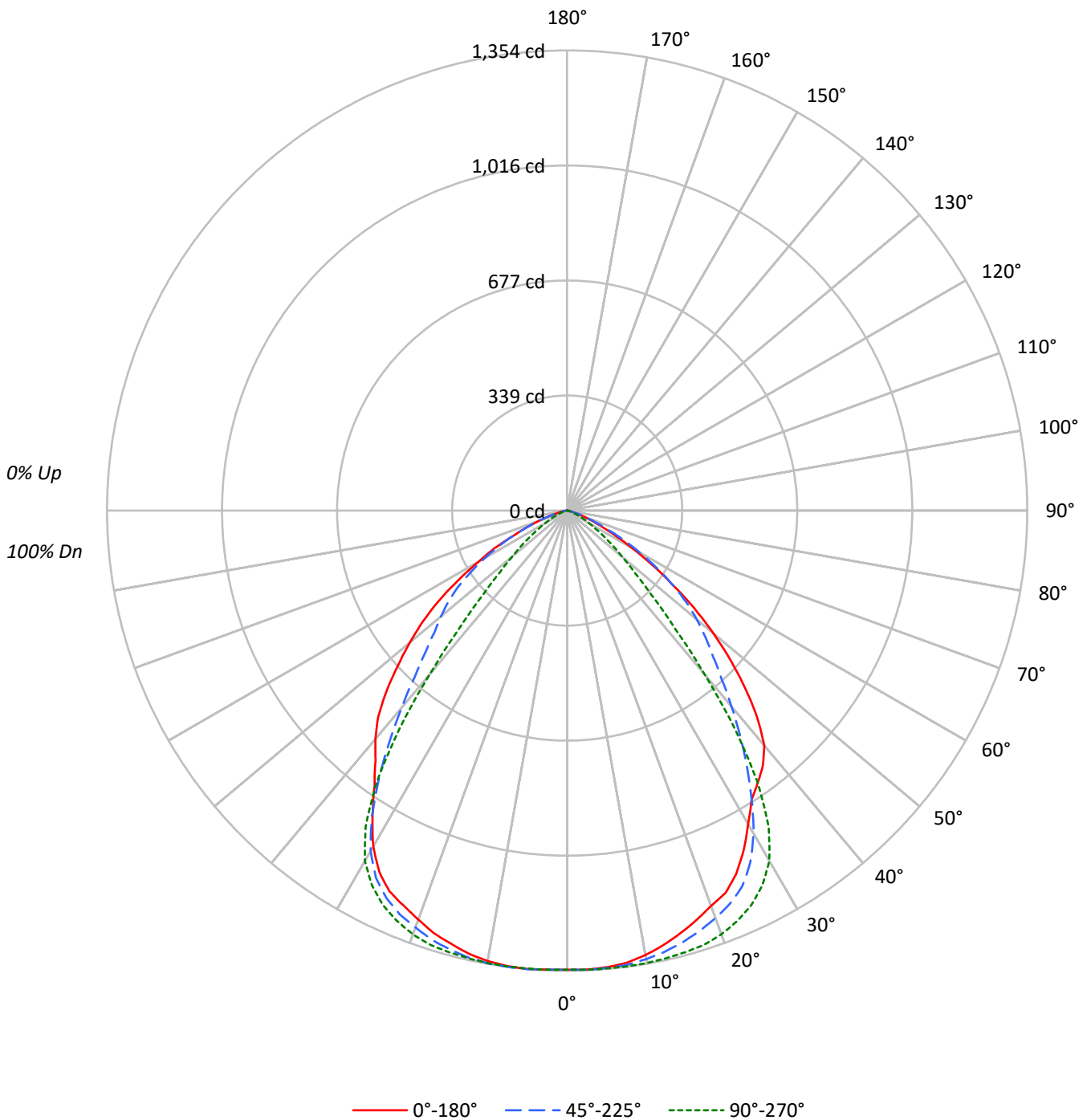
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	91	90
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37
10	60	48	41	36	59	48	41	36	47	40	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°	128.9	5.0
10°-20°	374.4	14.6
20°-30°	568.3	22.2
30°-40°	596.9	23.3
40°-50°	447.5	17.5
50°-60°	287.1	11.2
60°-70°	122.8	4.8
70°-80°	29.0	1.1
80°-90°	5.4	0.2
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°	1071.6	41.9
0°-40°	1668.5	65.2
0°-60°	2403.1	93.9
0°-90°	2560.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2560.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1351	1351	1351	1351	1351	
5°	1349	1351	1352	1354	1354	128
15°	1288	1315	1345	1336	1320	363
25°	1178	1220	1281	1258	1236	538
35°	978	923	978	966	988	613
45°	743	607	349	590	753	569
55°	376	376	130	392	458	341
65°	113	133	41	172	175	121
75°	17	20	6	35	34	25
85°	6	4	3	6	8	6
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°	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9
2.5°	1351.6	1353.0	1352.4	1352.4	1351.6	1352.4	1352.4	1353.8	1353.8	1352.4	1351.6
5°	1348.7	1350.1	1350.1	1348.7	1348.7	1352.4	1350.1	1351.6	1351.6	1350.9	1350.9
7.5°	1342.2	1342.2	1345.1	1343.0	1343.0	1345.1	1344.4	1345.9	1347.3	1348.0	1348.0
10°	1327.7	1329.2	1329.8	1329.8	1330.6	1332.8	1334.2	1337.1	1338.6	1340.0	1340.7
12.5°	1309.6	1311.8	1312.5	1311.8	1313.9	1316.8	1320.4	1324.1	1326.3	1329.2	1331.3
15°	1287.8	1287.8	1289.3	1291.4	1292.8	1297.2	1300.9	1305.2	1311.0	1314.6	1318.3
17.5°	1263.9	1265.4	1267.5	1267.5	1270.4	1277.6	1279.8	1286.3	1292.8	1296.5	1303.7
20°	1237.8	1239.3	1241.4	1242.9	1246.4	1252.3	1256.6	1262.5	1269.6	1276.3	1283.4
22.5°	1217.5	1214.6	1216.1	1217.5	1221.1	1226.1	1231.3	1238.5	1245.8	1252.3	1259.6
25°	1178.3	1179.1	1181.2	1182.7	1187.0	1191.4	1197.2	1205.9	1212.4	1219.6	1227.6
27.5°	1125.4	1126.2	1129.7	1129.7	1133.3	1140.6	1144.2	1151.5	1160.2	1167.4	1176.8
30°	1065.2	1066.6	1066.6	1069.5	1071.7	1075.4	1079.0	1086.2	1090.6	1097.1	1110.1
32.5°	1010.1	1011.6	1010.8	1010.1	1007.9	1007.2	1006.4	1007.9	1009.3	1011.6	1016.6
35°	977.5	973.8	970.9	965.9	960.0	952.8	946.2	937.6	929.6	923.0	915.9
37.5°	946.2	945.6	941.2	933.9	922.4	909.4	894.1	875.3	856.3	836.0	816.5
40°	902.7	900.6	897.0	886.8	873.8	857.8	837.5	814.3	783.8	752.6	720.8
42.5°	828.8	829.5	825.2	817.2	804.9	789.6	768.7	743.2	710.6	673.6	632.4
45°	742.6	742.6	741.1	734.6	725.8	713.5	697.6	676.5	644.7	606.9	562.7
47.5°	652.6	653.3	651.2	649.7	646.0	638.1	626.5	610.6	588.1	551.8	507.6
50°	561.3	561.3	564.9	564.1	564.1	561.3	556.1	546.7	527.2	498.2	456.8
52.5°	469.9	471.4	473.5	476.4	480.0	485.8	480.0	475.6	463.3	440.9	405.4
55°	375.6	377.1	380.7	385.7	390.1	395.9	397.4	397.4	390.8	375.6	348.7
57.5°	295.2	292.9	295.8	300.2	306.0	311.9	316.1	321.3	320.5	310.4	288.5
60°	221.8	222.6	224.8	229.1	233.5	238.5	244.4	248.7	250.9	245.8	232.0
62.5°	161.8	161.8	164.6	168.9	171.2	178.4	182.1	184.2	186.3	185.6	176.9
65°	113.1	114.6	116.0	118.2	120.4	124.8	126.9	131.3	132.7	133.4	126.9
67.5°	79.8	77.6	79.0	80.5	82.6	85.5	89.9	89.9	92.0	92.0	87.8
70°	50.8	50.8	51.5	53.7	55.2	55.8	57.3	58.7	60.9	60.2	60.2
72.5°	34.1	33.4	34.1	34.9	35.5	37.7	37.7	38.5	39.9	40.6	37.7
75°	17.4	18.2	19.6	18.8	21.1	19.6	20.3	22.5	21.7	20.3	20.3
77.5°	14.5	14.5	14.5	13.8	15.2	15.2	14.5	15.9	15.2	15.2	14.5
80°	10.2	10.9	10.2	9.4	10.2	9.4	9.4	9.4	9.4	9.4	8.7
82.5°	8.0	6.5	7.3	6.5	7.3	7.3	6.5	5.8	5.8	6.5	5.8
85°	5.8	4.4	5.0	5.0	4.4	4.4	4.4	4.4	4.4	3.6	3.6
87.5°	3.6	2.1	2.1	2.1	2.9	2.9	2.9	2.1	2.9	2.9	1.5
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°	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9
2.5°	1353.0	1352.4	1353.8	1353.0	1353.0	1352.4	1353.0	1352.4	1353.8	1350.9	1351.6
5°	1353.0	1351.6	1352.4	1353.0	1353.8	1352.4	1352.4	1352.4	1353.8	1352.4	1353.0
7.5°	1350.1	1349.5	1351.6	1353.0	1352.4	1351.6	1353.0	1352.4	1353.8	1353.0	1354.5
10°	1344.4	1345.1	1346.5	1348.7	1349.5	1350.1	1351.6	1351.6	1353.8	1350.9	1352.4
12.5°	1335.7	1338.6	1342.2	1343.6	1346.5	1346.5	1348.0	1348.7	1350.1	1349.5	1351.6
15°	1324.8	1328.4	1332.8	1336.5	1340.0	1342.2	1344.4	1345.1	1347.3	1345.1	1345.9
17.5°	1311.8	1316.1	1322.7	1326.9	1332.8	1335.0	1337.8	1339.3	1341.5	1340.0	1340.7
20°	1293.6	1298.7	1306.0	1312.5	1316.1	1321.2	1324.8	1326.9	1328.4	1326.9	1327.7
22.5°	1268.2	1275.5	1284.9	1289.9	1297.2	1301.6	1302.3	1307.4	1311.0	1307.4	1308.9
25°	1238.5	1245.8	1253.1	1263.9	1270.4	1275.5	1280.5	1281.3	1284.9	1284.2	1283.4
27.5°	1189.2	1198.7	1210.9	1219.6	1228.4	1236.4	1242.2	1243.5	1247.2	1245.8	1246.4
30°	1121.8	1131.9	1143.5	1157.3	1169.7	1177.6	1184.9	1189.9	1193.5	1191.4	1190.6
32.5°	1026.1	1036.3	1048.6	1062.3	1076.8	1088.4	1097.1	1103.6	1108.0	1106.5	1103.0
35°	916.5	919.4	927.4	938.3	950.6	962.9	970.9	978.2	983.2	984.7	984.7
37.5°	804.2	794.8	789.0	789.0	796.1	801.3	808.5	812.8	820.8	823.7	826.0
40°	695.4	673.6	653.3	638.1	628.0	627.2	627.2	629.4	636.6	646.0	654.8
42.5°	598.3	563.4	532.3	504.0	483.7	472.1	467.0	467.7	473.5	482.3	496.7
45°	520.6	477.1	438.0	403.9	376.3	358.2	349.5	348.7	353.1	363.3	379.2
47.5°	460.5	414.0	369.8	330.7	300.9	281.4	271.2	268.3	271.2	280.6	299.5
50°	410.4	362.5	316.9	276.2	244.4	224.1	214.7	211.0	214.7	222.6	241.5
52.5°	364.0	314.7	272.0	232.7	198.6	181.3	171.2	168.9	171.2	180.6	195.8
55°	310.4	268.3	226.2	187.1	157.4	139.9	131.9	129.8	131.9	140.7	156.6
57.5°	257.4	221.2	184.2	148.6	123.3	108.1	100.8	97.9	102.9	108.7	127.6
60°	208.1	179.1	148.0	116.7	95.7	81.9	76.1	75.4	76.9	84.1	97.2
62.5°	163.1	139.2	114.6	89.2	71.7	66.0	58.7	58.1	59.4	63.8	74.0
65°	117.5	102.2	83.4	65.2	51.5	43.5	40.6	41.4	42.8	45.7	55.2
67.5°	81.9	71.1	58.1	45.7	35.5	31.9	29.0	28.2	29.0	34.1	39.1
70°	55.2	48.5	39.1	34.9	24.7	19.6	20.3	18.2	21.1	21.1	25.3
72.5°	36.2	31.9	26.1	20.3	17.4	13.8	13.8	13.0	14.5	15.2	18.8
75°	18.8	14.5	14.5	10.2	7.3	3.6	6.5	5.8	5.0	5.8	7.3
77.5°	13.0	10.9	10.2	8.0	7.3	5.8	5.8	5.8	5.8	6.5	7.3
80°	8.0	8.0	5.8	5.0	4.4	3.6	4.4	4.4	4.4	4.4	5.0
82.5°	5.0	4.4	4.4	3.6	3.6	2.9	2.9	2.9	2.9	2.9	4.4
85°	4.4	2.9	2.9	2.1	2.9	5.0	2.1	2.9	2.9	2.9	2.1
87.5°	1.5	2.1	2.1	2.1	1.5	0.7	1.5	2.1	2.1	3.6	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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9	1350.9
2.5°	1353.0	1353.8	1353.8	1353.0	1353.0	1351.6	1354.5	1352.4	1353.0	1356.0	1353.8
5°	1354.5	1355.3	1355.3	1354.5	1354.5	1354.5	1355.3	1355.3	1354.5	1353.8	1355.3
7.5°	1357.4	1356.7	1356.7	1355.3	1355.3	1353.8	1355.3	1353.0	1354.5	1353.0	1355.3
10°	1353.8	1354.5	1353.8	1353.0	1353.0	1352.4	1352.4	1350.1	1350.9	1348.7	1350.1
12.5°	1351.6	1350.9	1350.9	1349.5	1348.0	1346.5	1345.9	1343.6	1343.6	1338.6	1340.7
15°	1345.9	1346.5	1344.4	1341.5	1340.0	1336.5	1335.0	1332.1	1329.2	1325.5	1326.3
17.5°	1340.7	1338.6	1335.7	1332.8	1326.9	1324.1	1321.2	1316.8	1315.4	1311.0	1309.6
20°	1325.5	1324.1	1320.4	1315.4	1311.8	1305.2	1302.3	1298.0	1294.3	1289.9	1287.8
22.5°	1306.0	1304.5	1300.1	1295.1	1289.3	1286.3	1283.4	1275.5	1271.9	1267.5	1266.7
25°	1281.3	1279.1	1274.8	1269.0	1266.1	1258.1	1255.2	1249.4	1247.9	1243.5	1242.9
27.5°	1243.5	1240.7	1235.6	1228.4	1223.2	1218.2	1215.3	1210.9	1209.6	1205.2	1204.4
30°	1187.0	1183.4	1173.2	1170.3	1161.7	1156.5	1156.5	1150.8	1151.5	1148.6	1148.6
32.5°	1097.8	1092.1	1084.0	1078.3	1072.5	1069.5	1069.5	1067.4	1068.9	1068.9	1070.3
35°	979.6	971.7	967.3	963.7	963.7	966.5	975.3	977.5	981.8	985.5	988.4
37.5°	828.1	827.4	832.5	836.8	847.7	860.0	875.3	888.3	900.6	909.4	918.0
40°	664.2	682.4	696.8	717.1	733.8	757.8	785.3	807.8	828.8	844.0	860.0
42.5°	518.5	541.7	572.2	601.9	631.6	664.2	700.5	731.7	759.3	780.2	796.9
45°	403.9	435.8	472.8	510.5	549.0	589.5	627.2	659.1	688.2	709.9	726.5
47.5°	325.5	360.4	402.4	443.8	487.3	530.0	572.2	599.7	623.6	641.0	656.2
50°	269.0	306.0	350.2	397.4	440.9	483.7	519.9	546.7	566.3	581.6	591.0
52.5°	224.8	263.9	311.1	358.2	401.7	440.9	473.5	493.8	509.7	520.6	529.3
55°	185.6	223.3	267.6	311.9	354.6	391.6	418.4	433.6	445.9	452.4	457.6
57.5°	151.6	186.3	227.0	267.6	304.6	335.1	356.0	371.3	377.1	382.1	381.4
60°	118.9	151.6	188.6	223.3	255.3	279.9	295.2	303.8	308.2	310.4	308.9
62.5°	93.5	123.3	151.6	182.1	205.3	226.2	240.8	240.8	242.9	243.6	245.8
65°	69.6	92.0	116.7	139.2	158.1	171.8	179.8	182.1	185.0	184.2	182.7
67.5°	51.5	68.2	86.3	102.9	116.0	124.8	130.5	135.6	134.9	133.4	132.7
70°	35.5	46.4	62.3	72.5	81.9	90.7	92.0	92.8	93.5	94.3	92.8
72.5°	24.7	32.6	41.4	50.0	55.8	59.4	63.1	63.8	63.8	63.8	63.1
75°	12.3	16.7	24.7	28.2	33.4	34.9	37.7	37.7	39.9	37.0	36.2
77.5°	10.9	13.0	17.4	20.3	22.5	24.7	25.3	27.6	26.8	25.3	26.1
80°	6.5	8.0	10.9	12.3	15.2	15.9	16.7	17.4	16.7	17.4	17.4
82.5°	5.0	5.8	7.3	7.3	9.4	9.4	10.2	10.2	10.9	10.9	10.9
85°	2.9	5.0	4.4	8.7	5.8	5.8	7.3	8.7	7.3	7.3	8.7
87.5°	2.9	2.9	2.1	2.9	2.9	2.9	3.6	4.4	4.4	5.0	4.4
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: P246243

CATALOG NUMBER: LSR8B30D010 EC8B30930 8LBDW0MW

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	1350.9	1350.9	1350.9	1350.9
2.5°	1353.0	1354.5	1352.4	1351.6
5°	1355.3	1355.3	1353.8	1353.8
7.5°	1355.3	1355.3	1353.0	1351.6
10°	1349.5	1349.5	1347.3	1345.9
12.5°	1338.6	1338.6	1337.8	1335.7
15°	1324.8	1324.8	1321.9	1319.8
17.5°	1306.0	1307.4	1303.7	1303.7
20°	1285.7	1284.9	1282.0	1280.5
22.5°	1264.6	1263.1	1262.5	1258.1
25°	1242.2	1240.7	1238.5	1236.4
27.5°	1203.7	1202.9	1200.8	1197.9
30°	1145.0	1144.2	1141.3	1141.3
32.5°	1068.9	1068.1	1065.2	1066.0
35°	989.7	992.6	991.2	988.4
37.5°	923.8	925.9	927.4	925.9
40°	868.7	875.3	875.9	877.4
42.5°	809.9	818.7	821.6	823.0
45°	739.6	747.6	754.1	752.6
47.5°	667.8	673.6	679.4	675.1
50°	599.0	602.5	604.8	604.8
52.5°	533.7	533.7	532.9	533.7
55°	459.0	459.0	456.1	457.6
57.5°	380.7	382.1	379.9	376.3
60°	308.2	304.6	303.1	300.9
62.5°	240.0	240.0	235.0	241.5
65°	179.8	177.7	175.4	174.8
67.5°	130.5	129.8	127.6	126.9
70°	92.0	89.2	88.4	87.0
72.5°	61.7	61.7	60.2	60.2
75°	37.7	34.1	33.4	34.1
77.5°	26.1	25.3	25.3	24.7
80°	17.4	16.7	18.2	15.9
82.5°	10.9	11.7	10.9	11.7
85°	7.3	8.7	8.0	8.0
87.5°	4.4	4.4	4.4	4.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)