

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 EC8B309730 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 EC8B309730 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: 2328.0 lumens
Efficiency: N/A
Efficacy: 85.9 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

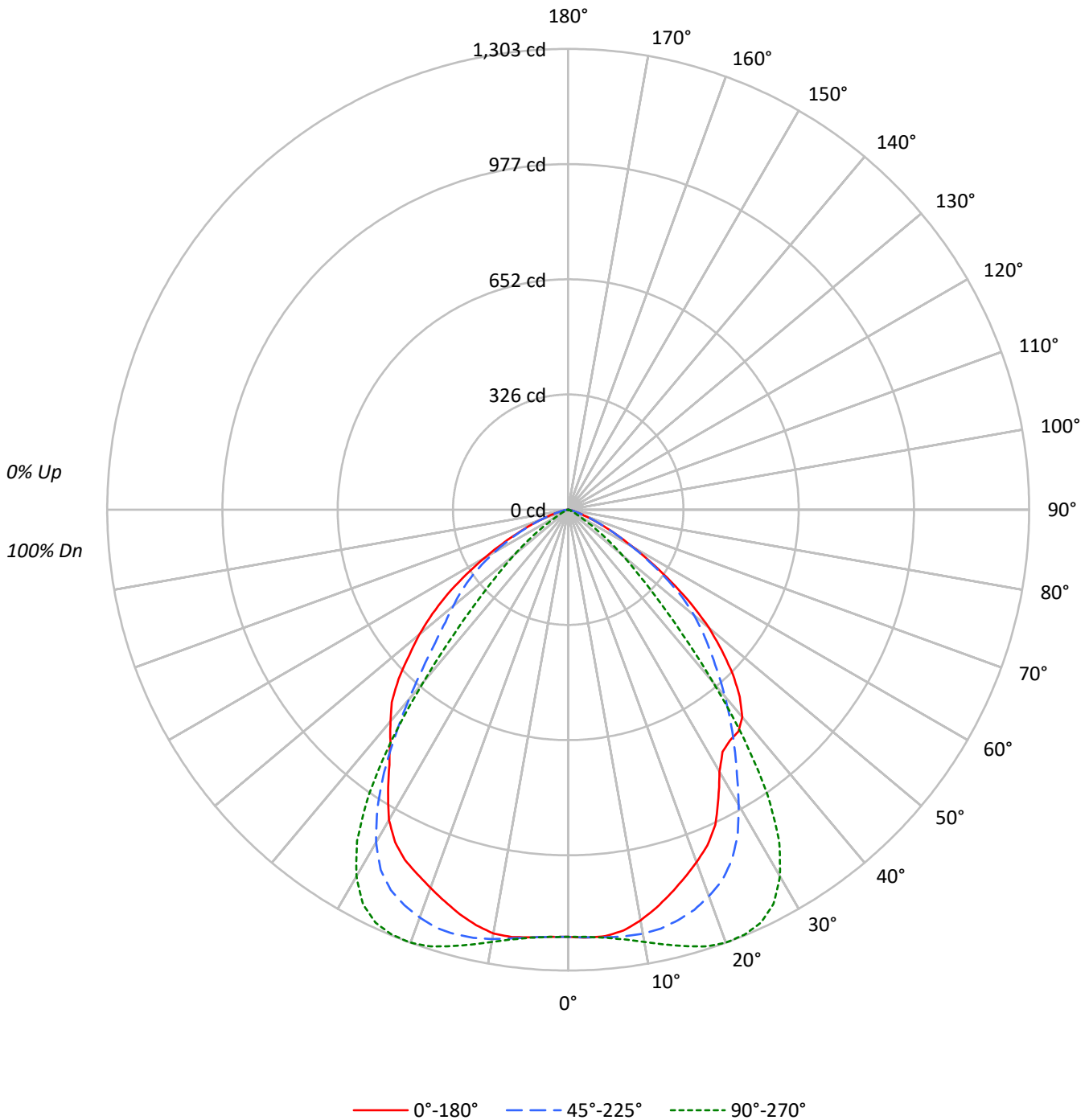
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	116.1	5.0
10°-20°	344.1	14.8
20°-30°	524.9	22.5
30°-40°	547.7	23.5
40°-50°	411.4	17.7
50°-60°	253.1	10.9
60°-70°	103.0	4.4
70°-80°	24.3	1.0
80°-90°	3.3	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°	985.1	42.3
0°-40°	1532.8	65.8
0°-60°	2197.4	94.4
0°-90°	2328.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2328.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1208	1208	1208	1208	1208	
5°	1210	1214	1215	1214	1214	115
15°	1122	1201	1278	1242	1184	316
25°	983	1094	1288	1186	1092	447
35°	797	819	981	907	881	503
45°	658	569	355	530	678	502
55°	355	337	93	337	416	319
65°	111	112	14	151	160	116
75°	19	19	3	34	35	23
85°	2	2	1	4	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°	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7
2.5°	1210.9	1209.0	1210.9	1210.9	1211.5	1210.3	1210.9	1211.5	1210.3	1210.3	1210.3
5°	1210.3	1209.0	1210.3	1209.6	1210.9	1210.9	1212.2	1212.2	1213.5	1213.5	1215.4
7.5°	1200.0	1197.4	1200.0	1201.9	1203.2	1205.8	1209.0	1211.5	1214.1	1216.7	1219.9
10°	1178.8	1178.8	1180.8	1184.6	1188.5	1192.9	1198.7	1205.1	1211.5	1217.3	1223.1
12.5°	1152.6	1150.6	1154.5	1159.6	1165.4	1172.4	1181.4	1191.0	1201.3	1212.8	1221.8
15°	1122.4	1120.5	1125.0	1130.1	1137.2	1147.4	1158.3	1171.2	1185.9	1201.3	1216.0
17.5°	1091.7	1091.0	1095.5	1102.6	1108.3	1119.2	1133.3	1148.7	1165.4	1185.9	1205.1
20°	1060.3	1059.6	1064.1	1069.9	1077.6	1087.8	1101.9	1119.9	1139.7	1162.8	1185.3
22.5°	1027.6	1028.2	1032.0	1038.5	1044.9	1055.8	1070.5	1088.5	1110.3	1135.3	1160.3
25°	983.3	980.1	985.3	991.7	1002.6	1011.5	1025.6	1044.9	1067.3	1093.6	1123.1
27.5°	919.2	918.6	923.1	928.8	938.5	949.4	964.7	984.6	1008.3	1037.2	1066.0
30°	855.1	856.4	858.3	864.1	870.5	881.4	896.8	913.5	935.9	963.5	994.2
32.5°	811.5	811.5	814.1	817.9	822.4	828.2	839.1	851.3	868.6	887.8	910.3
35°	796.8	794.2	796.8	797.4	798.1	799.4	801.3	805.1	810.9	819.2	827.6
37.5°	790.4	788.5	788.5	785.9	782.7	778.8	773.7	767.9	761.5	753.2	746.8
40°	765.4	764.1	762.8	760.3	753.2	745.5	737.2	723.7	709.0	688.5	668.0
42.5°	717.3	716.0	715.4	710.3	703.8	694.9	685.3	671.2	652.6	626.3	596.8
45°	657.7	655.1	653.2	648.7	644.2	636.5	627.6	614.7	596.1	569.2	534.0
47.5°	588.5	587.2	586.5	584.6	580.1	575.6	569.9	559.6	542.9	517.3	480.8
50°	518.6	516.0	517.3	516.7	514.7	511.5	507.7	500.6	487.8	464.7	431.4
52.5°	438.5	438.5	437.8	439.7	440.4	439.7	440.4	432.7	421.8	404.5	376.3
55°	355.1	355.1	357.0	359.6	362.2	362.8	362.2	359.0	351.3	337.2	312.2
57.5°	276.9	275.6	279.5	283.3	285.9	288.5	286.5	284.0	279.5	267.9	248.7
60°	210.9	210.9	213.5	216.0	218.6	221.2	220.5	219.9	216.0	208.3	193.0
62.5°	155.1	155.8	155.8	157.7	160.3	162.8	164.7	162.8	160.9	155.8	145.5
65°	110.9	110.2	110.9	112.8	114.7	117.3	118.6	117.9	116.0	112.2	104.5
67.5°	74.4	73.7	76.3	76.9	78.2	80.8	80.1	80.8	80.1	76.9	70.5
70°	48.7	47.4	48.7	48.1	50.0	50.6	51.9	52.6	51.9	50.0	48.1
72.5°	30.1	29.5	30.1	30.8	31.4	32.0	33.3	33.3	32.7	31.4	28.8
75°	19.2	17.3	17.9	16.7	17.9	17.9	19.2	19.9	19.2	19.2	17.9
77.5°	11.5	11.5	11.5	11.5	11.5	11.5	11.5	12.2	12.8	11.5	10.9
80°	5.8	5.8	6.4	6.4	6.4	7.1	6.4	6.4	6.4	7.1	5.1
82.5°	4.5	3.8	3.8	3.8	4.5	3.8	3.8	3.8	3.8	3.8	3.8
85°	1.9	2.6	1.9	1.3	1.9	1.9	2.6	1.9	1.9	1.9	2.6
87.5°	0.6	0.6	0.0	0.0	0.0	0.6	0.0	0.6	0.6	1.3	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°	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7
2.5°	1210.9	1209.6	1209.6	1209.0	1210.3	1209.0	1209.6	1209.0	1209.0	1210.3	1209.0
5°	1215.4	1216.0	1214.7	1214.1	1216.0	1216.0	1216.0	1214.7	1214.7	1215.4	1214.7
7.5°	1221.8	1223.1	1223.7	1224.4	1225.6	1226.3	1226.3	1225.6	1225.0	1226.9	1224.4
10°	1228.8	1230.8	1234.6	1236.5	1239.7	1239.7	1241.0	1241.0	1239.7	1241.0	1240.4
12.5°	1226.3	1237.8	1244.2	1248.7	1253.2	1257.0	1258.3	1259.0	1258.3	1260.9	1258.3
15°	1230.8	1240.4	1250.6	1258.3	1266.7	1271.1	1272.4	1277.6	1278.8	1279.5	1275.6
17.5°	1223.7	1241.0	1251.9	1263.5	1275.6	1284.0	1291.7	1294.9	1295.5	1296.8	1291.7
20°	1207.7	1226.9	1243.6	1260.3	1274.4	1287.2	1293.6	1302.6	1300.0	1305.1	1298.1
22.5°	1185.9	1207.7	1228.8	1250.6	1265.4	1280.8	1294.2	1300.6	1303.8	1303.8	1296.1
25°	1151.3	1176.9	1200.0	1222.4	1244.9	1263.5	1278.8	1288.5	1290.4	1289.7	1280.8
27.5°	1097.4	1125.0	1151.9	1177.6	1205.1	1226.9	1244.9	1256.4	1259.6	1259.6	1250.0
30°	1023.1	1052.6	1078.8	1109.6	1137.8	1162.2	1187.2	1197.4	1203.2	1203.2	1192.3
32.5°	934.6	959.6	984.0	1014.1	1044.9	1072.4	1096.1	1110.3	1117.3	1116.7	1107.1
35°	838.5	850.6	869.2	891.7	919.2	944.9	967.9	981.4	993.6	992.9	984.0
37.5°	742.3	739.1	741.0	749.4	766.7	784.6	802.6	815.4	825.6	830.1	828.2
40°	648.1	631.4	615.4	609.6	610.9	617.3	626.9	636.5	648.1	653.9	656.4
42.5°	563.5	535.3	507.0	485.9	473.7	469.9	474.4	477.6	484.6	492.9	501.3
45°	495.5	457.7	420.5	387.8	367.3	355.1	352.6	355.1	359.0	367.3	378.2
47.5°	439.7	395.5	353.8	317.3	287.2	271.2	266.7	265.4	269.2	276.9	291.7
50°	390.4	346.1	300.0	257.7	226.3	208.3	201.9	199.4	203.8	209.6	223.1
52.5°	336.5	292.9	245.5	204.5	171.8	153.2	146.2	142.3	144.9	152.6	166.0
55°	278.2	237.8	194.9	152.6	121.1	103.8	95.5	92.9	95.5	103.8	117.3
57.5°	219.9	185.9	150.0	110.2	82.0	64.7	56.4	53.8	60.9	64.1	78.2
60°	171.8	144.2	113.5	80.8	56.4	42.9	34.6	32.7	35.9	41.7	53.2
62.5°	128.9	111.5	87.2	57.7	41.7	27.6	23.1	21.2	23.1	27.6	36.5
65°	93.6	80.1	60.9	42.3	28.2	20.5	15.4	14.1	16.0	19.2	26.9
67.5°	64.1	53.8	42.3	29.5	19.2	12.8	10.9	10.9	11.5	14.1	19.9
70°	41.7	35.3	26.9	19.2	12.8	9.6	8.3	7.1	8.3	10.3	13.5
72.5°	26.3	22.4	17.3	13.5	9.6	7.1	5.8	5.1	6.4	7.7	10.3
75°	16.0	12.2	9.0	7.1	5.1	5.1	5.1	2.6	3.2	5.1	6.4
77.5°	9.6	8.3	7.1	5.8	4.5	2.6	2.6	2.6	3.2	3.8	5.8
80°	5.1	4.5	3.2	3.2	2.6	1.9	2.6	1.9	1.3	3.2	3.8
82.5°	3.2	2.6	2.6	2.6	3.2	1.3	1.9	1.3	1.9	2.6	1.9
85°	1.9	1.9	1.9	1.3	3.2	1.3	1.3	0.6	0.6	1.3	1.3
87.5°	0.0	0.6	0.6	0.0	0.6	0.0	0.6	0.6	0.6	0.6	0.6
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°	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7	1207.7
2.5°	1209.6	1209.0	1209.6	1209.0	1209.0	1209.0	1209.6	1209.6	1209.0	1209.0	1210.3
5°	1214.7	1214.7	1214.7	1214.1	1213.5	1213.5	1214.7	1214.7	1212.8	1214.7	1214.7
7.5°	1225.6	1223.7	1225.6	1223.1	1221.8	1222.4	1223.1	1221.8	1220.5	1221.2	1221.2
10°	1239.7	1237.8	1237.8	1235.9	1234.0	1232.7	1231.4	1228.2	1225.0	1224.4	1221.8
12.5°	1256.4	1253.2	1251.3	1247.4	1244.2	1239.7	1235.9	1230.8	1224.4	1219.9	1215.4
15°	1273.1	1267.9	1263.5	1257.0	1250.0	1242.3	1234.0	1225.6	1215.4	1206.4	1198.7
17.5°	1286.5	1279.5	1271.1	1260.9	1250.6	1239.1	1226.9	1214.7	1200.0	1188.5	1179.5
20°	1291.0	1280.8	1269.9	1256.4	1242.9	1226.9	1211.5	1195.5	1178.8	1166.7	1156.4
22.5°	1285.3	1273.1	1259.6	1245.5	1227.6	1210.3	1192.3	1173.7	1159.0	1142.3	1132.7
25°	1269.2	1254.5	1239.7	1223.1	1205.8	1186.5	1167.3	1148.1	1130.1	1121.2	1109.0
27.5°	1236.5	1220.5	1204.5	1187.2	1167.3	1148.1	1128.2	1109.6	1094.2	1082.0	1075.0
30°	1178.8	1160.3	1141.7	1123.1	1105.8	1085.9	1067.3	1051.9	1036.5	1026.9	1019.9
32.5°	1090.4	1073.7	1055.1	1037.2	1021.2	1004.5	989.1	975.6	964.7	958.3	953.2
35°	971.2	954.5	940.4	927.6	914.1	907.1	897.4	889.7	885.3	882.7	882.1
37.5°	821.1	811.5	807.0	804.5	801.9	800.0	801.3	804.5	807.0	811.5	816.7
40°	660.9	669.2	671.8	680.8	689.1	700.0	712.2	726.3	737.8	752.6	762.8
42.5°	514.7	530.1	548.1	567.3	587.8	607.7	632.1	654.5	675.0	693.6	709.6
45°	395.5	419.2	446.2	473.7	501.3	530.1	559.6	587.2	611.5	631.4	648.1
47.5°	308.3	334.6	369.2	403.2	436.5	470.5	503.2	532.0	552.6	571.8	586.5
50°	244.2	274.4	312.2	351.3	387.8	423.7	458.3	485.3	505.8	521.2	532.0
52.5°	189.1	225.0	263.5	304.5	343.6	382.7	414.7	439.7	456.4	469.9	478.2
55°	141.0	176.3	217.3	259.6	299.4	337.2	367.3	389.1	403.9	411.5	416.0
57.5°	101.9	134.0	175.0	217.3	253.2	289.1	313.5	333.3	341.7	346.1	348.1
60°	74.4	103.8	140.4	176.9	210.9	239.7	260.9	274.4	280.8	283.3	282.7
62.5°	54.5	80.1	111.5	142.3	169.9	193.6	210.3	219.2	222.4	223.7	221.8
65°	41.7	61.5	88.5	112.2	133.3	150.6	162.8	168.6	170.5	169.9	168.6
67.5°	30.8	46.2	66.0	84.0	99.4	112.8	119.2	124.4	125.6	123.7	121.8
70°	21.8	34.0	48.1	60.3	71.8	79.5	86.5	87.2	87.2	86.5	85.3
72.5°	15.4	23.7	32.7	41.0	48.1	53.8	56.4	58.3	57.7	57.0	55.8
75°	10.3	14.7	23.7	25.6	32.0	34.0	36.5	36.5	37.2	35.3	35.3
77.5°	6.4	10.3	14.1	16.7	19.2	21.8	23.1	23.1	23.7	23.1	23.1
80°	3.8	6.4	7.7	11.5	11.5	13.5	14.1	14.7	13.5	15.4	13.5
82.5°	2.6	3.8	5.8	5.8	7.1	8.3	8.3	9.0	9.0	8.3	8.3
85°	1.9	2.6	3.2	3.8	3.8	4.5	3.8	3.8	4.5	5.1	4.5
87.5°	0.6	1.3	0.6	1.3	1.3	2.6	1.9	1.9	1.9	2.6	2.6
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 EC8B309730 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1207.7	1207.7	1207.7	1207.7
2.5°	1209.0	1209.6	1209.0	1209.0
5°	1214.7	1214.1	1214.7	1213.5
7.5°	1219.2	1219.2	1218.6	1218.6
10°	1219.2	1216.7	1216.7	1216.7
12.5°	1209.6	1206.4	1204.5	1203.2
15°	1192.9	1187.2	1184.6	1184.0
17.5°	1171.2	1166.0	1162.8	1160.9
20°	1146.2	1141.0	1137.2	1137.8
22.5°	1124.4	1118.6	1116.0	1114.7
25°	1102.6	1095.5	1093.6	1092.3
27.5°	1067.3	1063.5	1061.5	1059.6
30°	1013.5	1011.5	1008.3	1012.8
32.5°	951.3	948.1	945.5	947.4
35°	882.7	880.8	882.7	881.4
37.5°	819.9	821.8	824.4	825.6
40°	770.5	777.6	780.1	781.4
42.5°	721.2	729.5	734.6	737.8
45°	660.3	668.6	674.4	678.2
47.5°	597.4	604.5	610.2	609.6
50°	540.4	544.2	546.8	549.4
52.5°	482.7	482.7	483.3	483.3
55°	417.3	416.0	415.4	416.0
57.5°	345.5	344.2	343.6	341.7
60°	280.1	276.3	273.7	273.7
62.5°	219.2	214.7	212.8	212.2
65°	164.7	164.1	160.3	159.6
67.5°	119.2	116.7	114.1	114.7
70°	84.0	80.1	80.1	78.8
72.5°	54.5	52.6	51.9	51.9
75°	34.0	34.0	32.7	35.3
77.5°	22.4	22.4	21.8	22.4
80°	13.5	13.5	13.5	12.8
82.5°	8.3	9.0	8.3	8.3
85°	4.5	5.1	3.8	5.8
87.5°	2.6	3.2	2.6	3.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)