

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: **LSR8B30D010 EC8B309730 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: LSR8B30D010 EC8B309730 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2394.0 lumens
Efficiency: N/A
Efficacy: 88.3 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

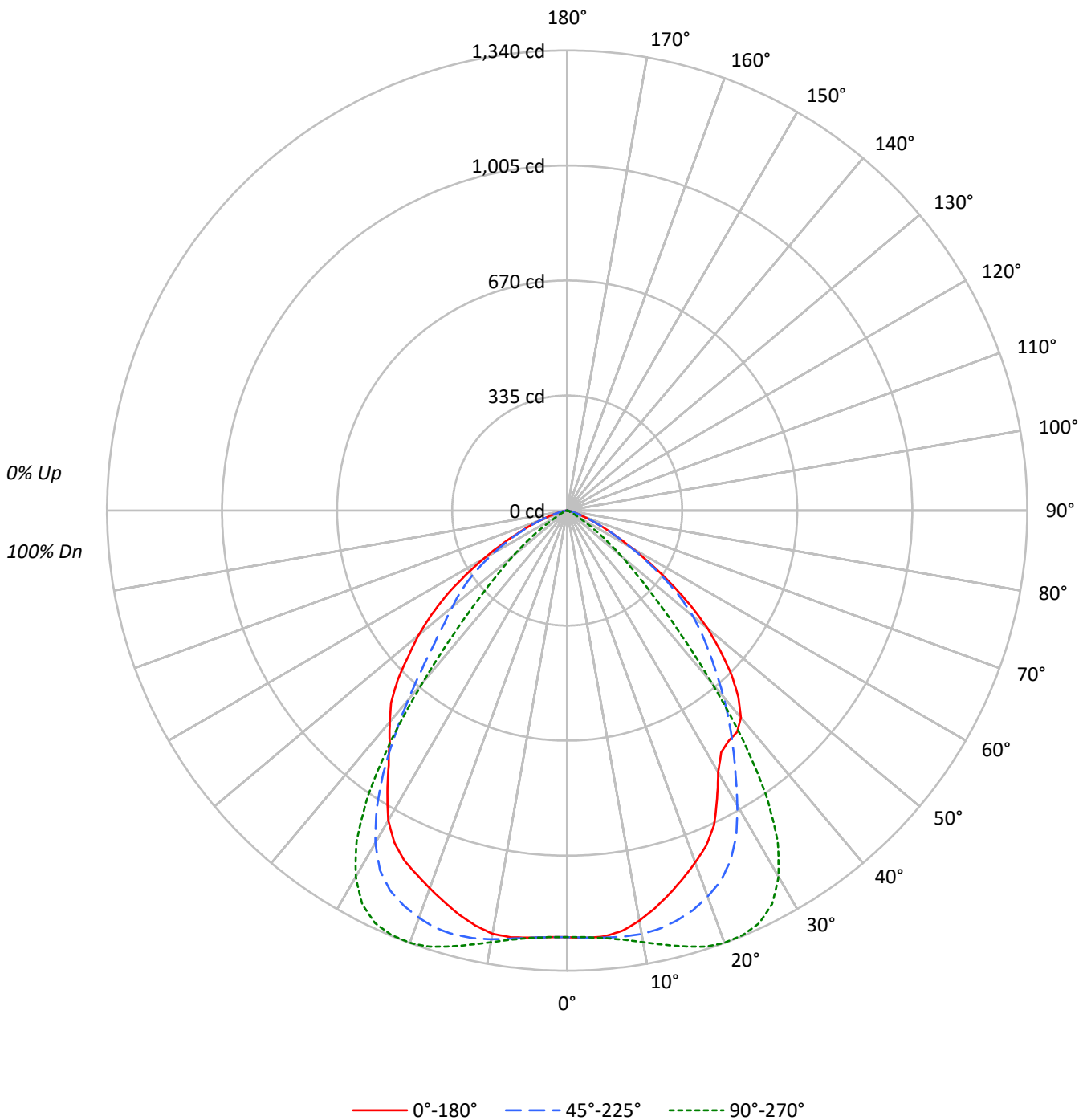
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	119.4	5.0
10°-20°	353.8	14.8
20°-30°	539.8	22.5
30°-40°	563.3	23.5
40°-50°	423.1	17.7
50°-60°	260.3	10.9
60°-70°	105.9	4.4
70°-80°	25.0	1.0
80°-90°	3.4	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°	1013.0	42.3
0°-40°	1576.3	65.8
0°-60°	2259.7	94.4
0°-90°	2394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2394.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1242	1242	1242	1242	1242	
5°	1245	1248	1249	1248	1248	118
15°	1154	1235	1314	1278	1218	325
25°	1011	1125	1325	1220	1123	460
35°	819	842	1009	933	906	517
45°	676	585	365	545	697	516
55°	365	347	96	347	428	328
65°	114	115	14	155	164	119
75°	20	20	3	35	36	24
85°	2	2	1	5	6	3
90°	0	0	0	0	0	



TEST NUMBER: P244227

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9
2.5°	1245.2	1243.2	1245.2	1245.2	1245.9	1244.6	1245.2	1245.9	1244.6	1244.6	1244.6
5°	1244.6	1243.2	1244.6	1243.9	1245.2	1245.2	1246.6	1246.6	1247.9	1247.9	1249.8
7.5°	1234.0	1231.4	1234.0	1236.0	1237.3	1240.0	1243.2	1245.9	1248.5	1251.2	1254.5
10°	1212.3	1212.3	1214.2	1218.2	1222.1	1226.8	1232.7	1239.3	1245.9	1251.8	1257.7
12.5°	1185.2	1183.3	1187.2	1192.5	1198.4	1205.7	1214.9	1224.8	1235.3	1247.2	1256.4
15°	1154.3	1152.3	1156.9	1162.2	1169.4	1180.0	1191.2	1204.4	1219.5	1235.3	1250.5
17.5°	1122.6	1122.0	1126.6	1133.8	1139.8	1151.0	1165.5	1181.3	1198.4	1219.5	1239.3
20°	1090.3	1089.7	1094.3	1100.2	1108.1	1118.7	1133.2	1151.6	1172.0	1195.8	1218.9
22.5°	1056.7	1057.4	1061.3	1067.9	1074.5	1085.7	1100.9	1119.3	1141.7	1167.4	1193.1
25°	1011.2	1007.9	1013.2	1019.8	1031.0	1040.2	1054.7	1074.5	1097.6	1124.6	1154.9
27.5°	945.3	944.6	949.3	955.2	965.1	976.3	992.1	1012.5	1036.9	1066.6	1096.2
30°	879.4	880.7	882.7	888.6	895.2	906.4	922.2	939.4	962.4	990.8	1022.4
32.5°	834.5	834.5	837.2	841.1	845.8	851.7	862.9	875.4	893.2	913.0	936.1
35°	819.4	816.7	819.4	820.0	820.7	822.0	824.0	828.0	833.9	842.5	851.0
37.5°	812.8	810.8	810.8	808.2	804.9	800.9	795.7	789.7	783.1	774.6	768.0
40°	787.1	785.8	784.4	781.8	774.6	766.7	758.1	744.2	729.1	708.0	686.9
42.5°	737.6	736.3	735.7	730.4	723.8	714.6	704.7	690.2	671.1	644.0	613.7
45°	676.3	673.7	671.7	667.1	662.5	654.6	645.4	632.2	613.0	585.4	549.1
47.5°	605.1	603.8	603.2	601.2	596.6	592.0	586.0	575.5	558.3	532.0	494.4
50°	533.3	530.7	532.0	531.3	529.3	526.0	522.1	514.8	501.6	477.9	443.6
52.5°	450.9	450.9	450.2	452.2	452.9	452.2	452.9	445.0	433.8	415.9	386.9
55°	365.2	365.2	367.2	369.8	372.4	373.1	372.4	369.2	361.2	346.7	321.0
57.5°	284.8	283.5	287.4	291.4	294.0	296.6	294.7	292.0	287.4	275.5	255.8
60°	216.9	216.9	219.5	222.2	224.8	227.4	226.8	226.1	222.2	214.2	198.4
62.5°	159.5	160.2	160.2	162.2	164.8	167.4	169.4	167.4	165.5	160.2	149.6
65°	114.0	113.4	114.0	116.0	118.0	120.6	122.0	121.3	119.3	115.4	107.5
67.5°	76.5	75.8	78.4	79.1	80.4	83.1	82.4	83.1	82.4	79.1	72.5
70°	50.1	48.8	50.1	49.4	51.4	52.1	53.4	54.1	53.4	51.4	49.4
72.5°	31.0	30.3	31.0	31.6	32.3	33.0	34.3	34.3	33.6	32.3	29.7
75°	19.8	17.8	18.5	17.1	18.5	18.5	19.8	20.4	19.8	19.8	18.5
77.5°	11.9	11.9	11.9	11.9	11.9	11.9	11.9	12.5	13.2	11.9	11.2
80°	5.9	5.9	6.6	6.6	6.6	7.3	6.6	6.6	6.6	7.3	5.3
82.5°	4.6	4.0	4.0	4.0	4.6	4.0	4.0	4.0	4.0	4.0	4.0
85°	2.0	2.6	2.0	1.3	2.0	2.0	2.6	2.0	2.0	2.0	2.6
87.5°	0.7	0.7	0.0	0.0	0.0	0.7	0.0	0.7	0.7	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°	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9
2.5°	1245.2	1243.9	1243.9	1243.2	1244.6	1243.2	1243.9	1243.2	1243.2	1244.6	1243.2
5°	1249.8	1250.5	1249.2	1248.5	1250.5	1250.5	1250.5	1249.2	1249.2	1249.8	1249.2
7.5°	1256.4	1257.7	1258.4	1259.1	1260.4	1261.1	1261.1	1260.4	1259.7	1261.7	1259.1
10°	1263.7	1265.7	1269.6	1271.6	1274.9	1274.9	1276.2	1276.2	1274.9	1276.2	1275.6
12.5°	1261.1	1272.9	1279.5	1284.1	1288.7	1292.7	1294.0	1294.7	1294.0	1296.6	1294.0
15°	1265.7	1275.6	1286.1	1294.0	1302.6	1307.2	1308.5	1313.8	1315.1	1315.8	1311.8
17.5°	1258.4	1276.2	1287.4	1299.3	1311.8	1320.4	1328.3	1331.6	1332.2	1333.6	1328.3
20°	1241.9	1261.7	1278.8	1296.0	1310.5	1323.7	1330.3	1339.5	1336.9	1342.1	1334.9
22.5°	1219.5	1241.9	1263.7	1286.1	1301.3	1317.1	1330.9	1337.5	1340.8	1340.8	1332.9
25°	1183.9	1210.3	1234.0	1257.1	1280.2	1299.3	1315.1	1325.0	1327.0	1326.3	1317.1
27.5°	1128.5	1156.9	1184.6	1211.0	1239.3	1261.7	1280.2	1292.0	1295.3	1295.3	1285.4
30°	1052.1	1082.4	1109.4	1141.1	1170.1	1195.1	1220.8	1231.4	1237.3	1237.3	1226.1
32.5°	961.1	986.8	1011.9	1042.9	1074.5	1102.8	1127.2	1141.7	1149.0	1148.3	1138.4
35°	862.2	874.8	893.9	916.9	945.3	971.7	995.4	1009.2	1021.8	1021.1	1011.9
37.5°	763.3	760.1	762.0	770.6	788.4	806.9	825.3	838.5	849.0	853.7	851.7
40°	666.5	649.3	632.8	626.9	628.2	634.8	644.7	654.6	666.5	672.4	675.0
42.5°	579.4	550.4	521.4	499.7	487.1	483.2	487.8	491.1	498.4	506.9	515.5
45°	509.6	470.7	432.4	398.8	377.7	365.2	362.6	365.2	369.2	377.7	388.9
47.5°	452.2	406.7	363.9	326.3	295.3	278.8	274.2	272.9	276.9	284.8	299.9
50°	401.4	356.0	308.5	265.0	232.7	214.2	207.7	205.0	209.6	215.6	229.4
52.5°	346.1	301.3	252.5	210.3	176.7	157.6	150.3	146.3	149.0	156.9	170.7
55°	286.1	244.6	200.4	156.9	124.6	106.8	98.2	95.6	98.2	106.8	120.6
57.5°	226.1	191.2	154.2	113.4	84.4	66.6	58.0	55.4	62.6	65.9	80.4
60°	176.7	148.3	116.7	83.1	58.0	44.2	35.6	33.6	36.9	42.8	54.7
62.5°	132.5	114.7	89.6	59.3	42.8	28.3	23.7	21.8	23.7	28.3	37.6
65°	96.2	82.4	62.6	43.5	29.0	21.1	15.8	14.5	16.5	19.8	27.7
67.5°	65.9	55.4	43.5	30.3	19.8	13.2	11.2	11.2	11.9	14.5	20.4
70°	42.8	36.3	27.7	19.8	13.2	9.9	8.6	7.3	8.6	10.5	13.8
72.5°	27.0	23.1	17.8	13.8	9.9	7.3	5.9	5.3	6.6	7.9	10.5
75°	16.5	12.5	9.2	7.3	5.3	5.3	5.3	2.6	3.3	5.3	6.6
77.5°	9.9	8.6	7.3	5.9	4.6	2.6	2.6	2.6	3.3	4.0	5.9
80°	5.3	4.6	3.3	3.3	2.6	2.0	2.6	2.0	1.3	3.3	4.0
82.5°	3.3	2.6	2.6	2.6	3.3	1.3	2.0	1.3	2.0	2.6	2.0
85°	2.0	2.0	2.0	1.3	3.3	1.3	1.3	0.7	0.7	1.3	1.3
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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9	1241.9
2.5°	1243.9	1243.2	1243.9	1243.2	1243.2	1243.2	1243.9	1243.9	1243.2	1243.2	1244.6
5°	1249.2	1249.2	1249.2	1248.5	1247.9	1247.9	1249.2	1249.2	1247.2	1249.2	1249.2
7.5°	1260.4	1258.4	1260.4	1257.7	1256.4	1257.1	1257.7	1256.4	1255.1	1255.8	1255.8
10°	1274.9	1272.9	1272.9	1270.9	1269.0	1267.6	1266.3	1263.0	1259.7	1259.1	1256.4
12.5°	1292.0	1288.7	1286.8	1282.8	1279.5	1274.9	1270.9	1265.7	1259.1	1254.5	1249.8
15°	1309.2	1303.9	1299.3	1292.7	1285.4	1277.5	1269.0	1260.4	1249.8	1240.6	1232.7
17.5°	1323.0	1315.8	1307.2	1296.6	1286.1	1274.2	1261.7	1249.2	1234.0	1222.1	1212.9
20°	1327.6	1317.1	1305.9	1292.0	1278.2	1261.7	1245.9	1229.4	1212.3	1199.7	1189.2
22.5°	1321.7	1309.2	1295.3	1280.8	1262.4	1244.6	1226.1	1207.0	1191.8	1174.7	1164.8
25°	1305.2	1290.1	1274.9	1257.7	1240.0	1220.2	1200.4	1180.6	1162.2	1152.9	1140.4
27.5°	1271.6	1255.1	1238.6	1220.8	1200.4	1180.6	1160.2	1141.1	1125.3	1112.7	1105.5
30°	1212.3	1193.1	1174.0	1154.9	1137.1	1116.7	1097.6	1081.7	1065.9	1056.0	1048.8
32.5°	1121.3	1104.2	1085.0	1066.6	1050.1	1033.0	1017.1	1003.3	992.1	985.5	980.2
35°	998.7	981.5	967.0	953.9	940.0	932.8	922.9	915.0	910.3	907.7	907.1
37.5°	844.4	834.5	829.9	827.3	824.7	822.7	824.0	827.3	829.9	834.5	839.8
40°	679.6	688.2	690.8	700.1	708.6	719.8	732.4	746.9	758.7	773.9	784.4
42.5°	529.3	545.2	563.6	583.4	604.5	624.9	650.0	673.0	694.1	713.2	729.7
45°	406.7	431.1	458.8	487.1	515.5	545.2	575.5	603.8	628.9	649.3	666.5
47.5°	317.1	344.1	379.7	414.6	448.9	483.9	517.5	547.1	568.2	588.0	603.2
50°	251.2	282.1	321.0	361.2	398.8	435.7	471.3	499.0	520.1	535.9	547.1
52.5°	194.5	231.4	270.9	313.1	353.3	393.5	426.5	452.2	469.4	483.2	491.8
55°	145.0	181.3	223.5	267.0	307.8	346.7	377.7	400.1	415.3	423.2	427.8
57.5°	104.8	137.8	180.0	223.5	260.4	297.3	322.3	342.8	351.3	356.0	357.9
60°	76.5	106.8	144.4	181.9	216.9	246.5	268.3	282.1	288.7	291.4	290.7
62.5°	56.0	82.4	114.7	146.3	174.7	199.1	216.2	225.4	228.7	230.1	228.1
65°	42.8	63.3	91.0	115.4	137.1	154.9	167.4	173.4	175.3	174.7	173.4
67.5°	31.6	47.5	67.9	86.4	102.2	116.0	122.6	127.9	129.2	127.2	125.2
70°	22.4	34.9	49.4	62.0	73.8	81.7	89.0	89.6	89.6	89.0	87.7
72.5°	15.8	24.4	33.6	42.2	49.4	55.4	58.0	60.0	59.3	58.7	57.4
75°	10.5	15.2	24.4	26.4	33.0	34.9	37.6	37.6	38.2	36.3	36.3
77.5°	6.6	10.5	14.5	17.1	19.8	22.4	23.7	23.7	24.4	23.7	23.7
80°	4.0	6.6	7.9	11.9	11.9	13.8	14.5	15.2	13.8	15.8	13.8
82.5°	2.6	4.0	5.9	5.9	7.3	8.6	8.6	9.2	9.2	8.6	8.6
85°	2.0	2.6	3.3	4.0	4.0	4.6	4.0	4.0	4.6	5.3	4.6
87.5°	0.7	1.3	0.7	1.3	1.3	2.6	2.0	2.0	2.0	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: P244227

CATALOG NUMBER: LSR8B30D010 EC8B309730 8LBDWOLI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1241.9	1241.9	1241.9	1241.9
2.5°	1243.2	1243.9	1243.2	1243.2
5°	1249.2	1248.5	1249.2	1247.9
7.5°	1253.8	1253.8	1253.1	1253.1
10°	1253.8	1251.2	1251.2	1251.2
12.5°	1243.9	1240.6	1238.6	1237.3
15°	1226.8	1220.8	1218.2	1217.5
17.5°	1204.4	1199.1	1195.8	1193.8
20°	1178.6	1173.4	1169.4	1170.1
22.5°	1156.2	1150.3	1147.7	1146.3
25°	1133.8	1126.6	1124.6	1123.3
27.5°	1097.6	1093.6	1091.6	1089.7
30°	1042.2	1040.2	1036.9	1041.5
32.5°	978.3	974.9	972.3	974.3
35°	907.7	905.7	907.7	906.4
37.5°	843.1	845.1	847.7	849.0
40°	792.4	799.6	802.2	803.6
42.5°	741.6	750.2	755.4	758.7
45°	679.0	687.5	693.5	697.4
47.5°	614.4	621.6	627.6	626.9
50°	555.7	559.7	562.3	564.9
52.5°	496.4	496.4	497.0	497.0
55°	429.1	427.8	427.2	427.8
57.5°	355.3	354.0	353.3	351.3
60°	288.1	284.1	281.5	281.5
62.5°	225.4	220.8	218.9	218.2
65°	169.4	168.7	164.8	164.1
67.5°	122.6	120.0	117.3	118.0
70°	86.4	82.4	82.4	81.1
72.5°	56.0	54.1	53.4	53.4
75°	34.9	34.9	33.6	36.3
77.5°	23.1	23.1	22.4	23.1
80°	13.8	13.8	13.8	13.2
82.5°	8.6	9.2	8.6	8.6
85°	4.6	5.3	4.0	5.9
87.5°	2.6	3.3	2.6	3.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)