

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: P244221

Luminaire Tested: **LSR8B30D010 EC8B30927 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244221
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 EC8B30927 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2545.9 lumens
Efficiency: N/A
Efficacy: 93.9 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

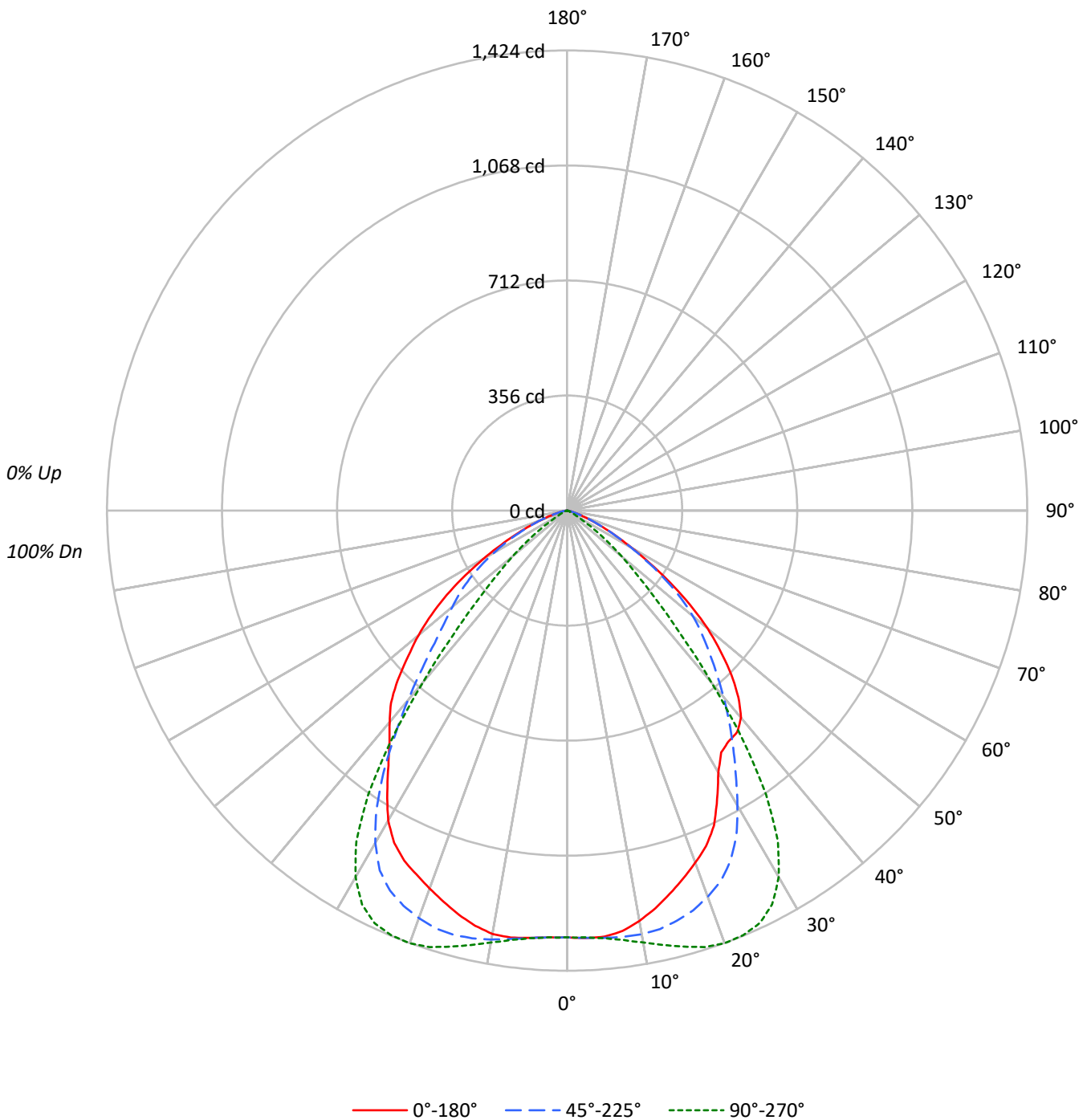
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	127.0	5.0
10°-20°	376.3	14.8
20°-30°	574.0	22.5
30°-40°	599.0	23.5
40°-50°	449.9	17.7
50°-60°	276.8	10.9
60°-70°	112.7	4.4
70°-80°	26.5	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°	1077.3	42.3
0°-40°	1676.3	65.8
0°-60°	2403.0	94.4
0°-90°	2545.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2545.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1321	1321	1321	1321	1321	
5°	1324	1327	1328	1327	1327	125
15°	1228	1314	1397	1359	1295	346
25°	1075	1196	1409	1298	1194	489
35°	871	896	1073	992	964	550
45°	719	622	388	580	742	549
55°	388	369	102	369	455	349
65°	121	123	15	165	175	126
75°	21	21	3	37	39	25
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°	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8
2.5°	1324.2	1322.1	1324.2	1324.2	1324.9	1323.6	1324.2	1324.9	1323.6	1323.6	1323.6
5°	1323.6	1322.1	1323.6	1322.8	1324.2	1324.2	1325.6	1325.6	1327.0	1327.0	1329.2
7.5°	1312.3	1309.5	1312.3	1314.4	1315.8	1318.6	1322.1	1324.9	1327.7	1330.5	1334.0
10°	1289.1	1289.1	1291.3	1295.4	1299.7	1304.6	1310.9	1317.9	1324.9	1331.2	1337.5
12.5°	1260.4	1258.3	1262.5	1268.1	1274.4	1282.2	1292.0	1302.5	1313.7	1326.4	1336.2
15°	1227.5	1225.4	1230.3	1235.9	1243.6	1254.8	1266.8	1280.8	1296.9	1313.7	1329.9
17.5°	1193.9	1193.2	1198.0	1205.8	1212.1	1224.0	1239.4	1256.2	1274.4	1296.9	1317.9
20°	1159.5	1158.8	1163.7	1170.0	1178.4	1189.6	1205.1	1224.7	1246.4	1271.7	1296.2
22.5°	1123.8	1124.4	1128.6	1135.7	1142.7	1154.6	1170.7	1190.4	1214.2	1241.6	1268.9
25°	1075.4	1071.9	1077.4	1084.5	1096.4	1106.2	1121.6	1142.7	1167.2	1196.0	1228.2
27.5°	1005.3	1004.5	1009.5	1015.8	1026.3	1038.1	1055.0	1076.7	1102.7	1134.2	1165.8
30°	935.1	936.6	938.7	945.0	952.0	963.9	980.8	999.0	1023.5	1053.7	1087.3
32.5°	887.5	887.5	890.3	894.5	899.4	905.7	917.7	930.9	949.8	970.9	995.4
35°	871.3	868.6	871.3	872.1	872.8	874.1	876.3	880.5	886.7	896.0	905.1
37.5°	864.3	862.2	862.2	859.5	855.9	851.7	846.1	839.8	832.8	823.7	816.6
40°	837.0	835.6	834.2	831.4	823.7	815.3	806.2	791.4	775.4	752.8	730.5
42.5°	784.5	783.0	782.3	776.7	769.7	759.9	749.4	733.9	713.6	684.9	652.6
45°	719.2	716.4	714.4	709.4	704.5	696.2	686.2	672.3	651.9	622.5	584.0
47.5°	643.5	642.2	641.5	639.3	634.4	629.6	623.2	612.0	593.8	565.8	525.7
50°	567.1	564.3	565.8	565.0	562.9	559.5	555.2	547.5	533.5	508.3	471.8
52.5°	479.5	479.5	478.8	480.9	481.6	480.9	481.6	473.2	461.2	442.4	411.5
55°	388.3	388.3	390.5	393.3	396.1	396.8	396.1	392.6	384.2	368.8	341.4
57.5°	302.8	301.4	305.7	309.8	312.6	315.4	313.3	310.5	305.7	293.1	272.0
60°	230.6	230.6	233.4	236.2	239.1	241.9	241.2	240.4	236.2	227.8	211.0
62.5°	169.6	170.3	170.3	172.5	175.3	178.1	180.1	178.1	176.0	170.3	159.1
65°	121.3	120.6	121.3	123.4	125.4	128.2	129.7	129.0	126.9	122.6	114.3
67.5°	81.3	80.7	83.4	84.1	85.5	88.3	87.6	88.3	87.6	84.1	77.1
70°	53.3	51.9	53.3	52.5	54.7	55.4	56.8	57.5	56.8	54.7	52.5
72.5°	33.0	32.3	33.0	33.6	34.3	35.0	36.4	36.4	35.8	34.3	31.5
75°	21.0	18.9	19.6	18.2	19.6	19.6	21.0	21.7	21.0	21.0	19.6
77.5°	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.3	14.1	12.6	11.9
80°	6.3	6.3	7.0	7.0	7.0	7.8	7.0	7.0	7.0	7.8	5.6
82.5°	5.0	4.2	4.2	4.2	5.0	4.2	4.2	4.2	4.2	4.2	4.2
85°	2.1	2.8	2.1	1.5	2.1	2.1	2.8	2.1	2.1	2.1	2.8
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8
2.5°	1324.2	1322.8	1322.8	1322.1	1323.6	1322.1	1322.8	1322.1	1322.1	1323.6	1322.1
5°	1329.2	1329.9	1328.4	1327.7	1329.9	1329.9	1329.9	1328.4	1328.4	1329.2	1328.4
7.5°	1336.2	1337.5	1338.2	1339.0	1340.3	1341.0	1341.0	1340.3	1339.6	1341.8	1339.0
10°	1343.8	1346.0	1350.1	1352.2	1355.7	1355.7	1357.2	1357.2	1355.7	1357.2	1356.5
12.5°	1341.0	1353.7	1360.7	1365.6	1370.5	1374.6	1376.1	1376.8	1376.1	1378.9	1376.1
15°	1346.0	1356.5	1367.7	1376.1	1385.2	1390.2	1391.5	1397.1	1398.5	1399.3	1395.0
17.5°	1338.2	1357.2	1369.1	1381.7	1395.0	1404.1	1412.6	1416.0	1416.7	1418.2	1412.6
20°	1320.8	1341.8	1360.0	1378.2	1393.6	1407.6	1414.7	1424.5	1421.7	1427.3	1419.5
22.5°	1296.9	1320.8	1343.8	1367.7	1383.9	1400.6	1415.4	1422.3	1425.8	1425.8	1417.5
25°	1259.0	1287.1	1312.3	1336.8	1361.4	1381.7	1398.5	1409.1	1411.2	1410.4	1400.6
27.5°	1200.1	1230.3	1259.8	1287.8	1317.9	1341.8	1361.4	1374.0	1377.4	1377.4	1367.0
30°	1118.8	1151.1	1179.8	1213.4	1244.4	1270.9	1298.2	1309.5	1315.8	1315.8	1303.9
32.5°	1022.1	1049.4	1076.1	1109.0	1142.7	1172.8	1198.7	1214.2	1221.9	1221.2	1210.6
35°	917.0	930.3	950.6	975.2	1005.3	1033.3	1058.5	1073.2	1086.5	1085.9	1076.1
37.5°	811.8	808.3	810.3	819.4	838.5	858.0	877.7	891.7	902.9	907.9	905.7
40°	708.8	690.5	673.0	666.7	668.0	675.1	685.6	696.2	708.8	715.1	717.9
42.5°	616.2	585.3	554.5	531.3	518.1	513.9	518.7	522.2	530.0	539.1	548.2
45°	541.9	500.5	459.9	424.1	401.7	388.3	385.5	388.3	392.6	401.7	413.6
47.5°	480.9	432.6	387.0	347.0	314.1	296.6	291.6	290.2	294.4	302.8	318.9
50°	426.9	378.6	328.0	281.8	247.5	227.8	220.8	218.0	222.9	229.3	243.9
52.5°	368.0	320.4	268.5	223.6	187.9	167.5	159.9	155.6	158.4	166.8	181.6
55°	304.2	260.1	213.1	166.8	132.5	113.5	104.4	101.7	104.4	113.5	128.2
57.5°	240.4	203.3	164.0	120.6	89.8	70.8	61.6	58.8	66.6	70.1	85.5
60°	187.9	157.7	124.1	88.3	61.6	46.9	37.8	35.8	39.3	45.6	58.2
62.5°	141.0	122.0	95.3	63.1	45.6	30.2	25.2	23.2	25.2	30.2	39.9
65°	102.4	87.6	66.6	46.2	30.8	22.4	16.9	15.4	17.6	21.0	29.5
67.5°	70.1	58.8	46.2	32.3	21.0	14.1	11.9	11.9	12.6	15.4	21.7
70°	45.6	38.6	29.5	21.0	14.1	10.5	9.1	7.8	9.1	11.2	14.7
72.5°	28.8	24.5	18.9	14.7	10.5	7.8	6.3	5.6	7.0	8.4	11.2
75°	17.6	13.3	9.8	7.8	5.6	5.6	5.6	2.8	3.5	5.6	7.0
77.5°	10.5	9.1	7.8	6.3	5.0	2.8	2.8	2.8	3.5	4.2	6.3
80°	5.6	5.0	3.5	3.5	2.8	2.1	2.8	2.1	1.5	3.5	4.2
82.5°	3.5	2.8	2.8	2.8	3.5	1.5	2.1	1.5	2.1	2.8	2.1
85°	2.1	2.1	2.1	1.5	3.5	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8	1320.8
2.5°	1322.8	1322.1	1322.8	1322.1	1322.1	1322.1	1322.8	1322.8	1322.1	1322.1	1323.6
5°	1328.4	1328.4	1328.4	1327.7	1327.0	1327.0	1328.4	1328.4	1326.4	1328.4	1328.4
7.5°	1340.3	1338.2	1340.3	1337.5	1336.2	1336.8	1337.5	1336.2	1334.7	1335.5	1335.5
10°	1355.7	1353.7	1353.7	1351.6	1349.4	1348.1	1346.6	1343.1	1339.6	1339.0	1336.2
12.5°	1374.0	1370.5	1368.4	1364.2	1360.7	1355.7	1351.6	1346.0	1339.0	1334.0	1329.2
15°	1392.2	1386.6	1381.7	1374.6	1367.0	1358.6	1349.4	1340.3	1329.2	1319.3	1310.9
17.5°	1406.9	1399.3	1390.2	1378.9	1367.7	1355.1	1341.8	1328.4	1312.3	1299.7	1289.9
20°	1411.9	1400.6	1388.7	1374.0	1359.2	1341.8	1324.9	1307.4	1289.1	1275.9	1264.6
22.5°	1405.6	1392.2	1377.4	1362.0	1342.5	1323.6	1303.9	1283.5	1267.4	1249.2	1238.7
25°	1388.0	1371.9	1355.7	1337.5	1318.6	1297.6	1276.5	1255.5	1235.9	1226.0	1212.8
27.5°	1352.2	1334.7	1317.3	1298.2	1276.5	1255.5	1233.8	1213.4	1196.7	1183.3	1175.6
30°	1289.1	1268.9	1248.5	1228.2	1209.3	1187.6	1167.2	1150.3	1133.6	1123.0	1115.3
32.5°	1192.4	1174.2	1153.9	1134.2	1116.7	1098.4	1081.7	1067.0	1055.0	1048.0	1042.4
35°	1062.0	1043.8	1028.4	1014.4	999.7	991.9	981.4	973.0	968.1	965.2	964.6
37.5°	898.0	887.5	882.6	879.8	876.9	874.9	876.3	879.8	882.6	887.5	893.1
40°	722.7	731.8	734.6	744.5	753.6	765.6	778.8	794.2	806.8	822.9	834.2
42.5°	562.9	579.7	599.4	620.4	642.8	664.5	691.2	715.7	738.1	758.5	776.0
45°	432.6	458.4	487.9	518.1	548.2	579.7	612.0	642.2	668.8	690.5	708.8
47.5°	337.2	366.0	403.8	441.0	477.4	514.6	550.4	581.8	604.2	625.3	641.5
50°	267.1	300.0	341.4	384.2	424.1	463.4	501.2	530.7	553.2	569.9	581.8
52.5°	206.8	246.0	288.1	333.0	375.8	418.5	453.6	480.9	499.2	513.9	522.9
55°	154.2	192.8	237.6	284.0	327.4	368.8	401.7	425.5	441.7	450.0	455.0
57.5°	111.5	146.5	191.4	237.6	276.9	316.1	342.8	364.5	373.6	378.6	380.7
60°	81.3	113.5	153.6	193.5	230.6	262.1	285.3	300.0	307.0	309.8	309.2
62.5°	59.6	87.6	122.0	155.6	185.7	211.7	230.0	239.7	243.2	244.7	242.6
65°	45.6	67.3	96.8	122.6	145.8	164.7	178.1	184.4	186.4	185.7	184.4
67.5°	33.6	50.5	72.2	91.8	108.7	123.4	130.4	136.0	137.4	135.3	133.2
70°	23.8	37.1	52.5	65.9	78.5	87.0	94.6	95.3	95.3	94.6	93.3
72.5°	16.9	26.0	35.8	44.9	52.5	58.8	61.6	63.8	63.1	62.4	61.0
75°	11.2	16.1	26.0	28.0	35.0	37.1	39.9	39.9	40.6	38.6	38.6
77.5°	7.0	11.2	15.4	18.2	21.0	23.8	25.2	25.2	26.0	25.2	25.2
80°	4.2	7.0	8.4	12.6	12.6	14.7	15.4	16.1	14.7	16.9	14.7
82.5°	2.8	4.2	6.3	6.3	7.8	9.1	9.1	9.8	9.8	9.1	9.1
85°	2.1	2.8	3.5	4.2	4.2	5.0	4.2	4.2	5.0	5.6	5.0
87.5°	0.7	1.5	0.7	1.5	1.5	2.8	2.1	2.1	2.1	2.8	2.8
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: P244221

CATALOG NUMBER: LSR8B30D010 EC8B30927 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1320.8	1320.8	1320.8	1320.8
2.5°	1322.1	1322.8	1322.1	1322.1
5°	1328.4	1327.7	1328.4	1327.0
7.5°	1333.4	1333.4	1332.7	1332.7
10°	1333.4	1330.5	1330.5	1330.5
12.5°	1322.8	1319.3	1317.3	1315.8
15°	1304.6	1298.2	1295.4	1294.8
17.5°	1280.8	1275.2	1271.7	1269.6
20°	1253.5	1247.9	1243.6	1244.4
22.5°	1229.6	1223.3	1220.5	1219.0
25°	1205.8	1198.0	1196.0	1194.5
27.5°	1167.2	1163.0	1160.9	1158.8
30°	1108.4	1106.2	1102.7	1107.6
32.5°	1040.3	1036.8	1034.0	1036.1
35°	965.2	963.2	965.2	963.9
37.5°	896.6	898.6	901.5	902.9
40°	842.6	850.3	853.1	854.6
42.5°	788.6	797.7	803.4	806.8
45°	722.0	731.1	737.4	741.7
47.5°	653.4	661.1	667.4	666.7
50°	591.0	595.1	597.9	600.8
52.5°	527.8	527.8	528.5	528.5
55°	456.4	455.0	454.3	455.0
57.5°	377.9	376.4	375.8	373.6
60°	306.3	302.2	299.4	299.4
62.5°	239.7	234.8	232.8	232.1
65°	180.1	179.4	175.3	174.6
67.5°	130.4	127.6	124.8	125.4
70°	91.8	87.6	87.6	86.2
72.5°	59.6	57.5	56.8	56.8
75°	37.1	37.1	35.8	38.6
77.5°	24.5	24.5	23.8	24.5
80°	14.7	14.7	14.7	14.1
82.5°	9.1	9.8	9.1	9.1
85°	5.0	5.6	4.2	6.3
87.5°	2.8	3.5	2.8	3.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)