

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: P244653

Luminaire Tested: **LSR8B30D010 EC8B30927 8LBDW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244653
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 EC8B30927 8LBDW0H
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2457.0 lumens
Efficiency: N/A
Efficacy: 90.7 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

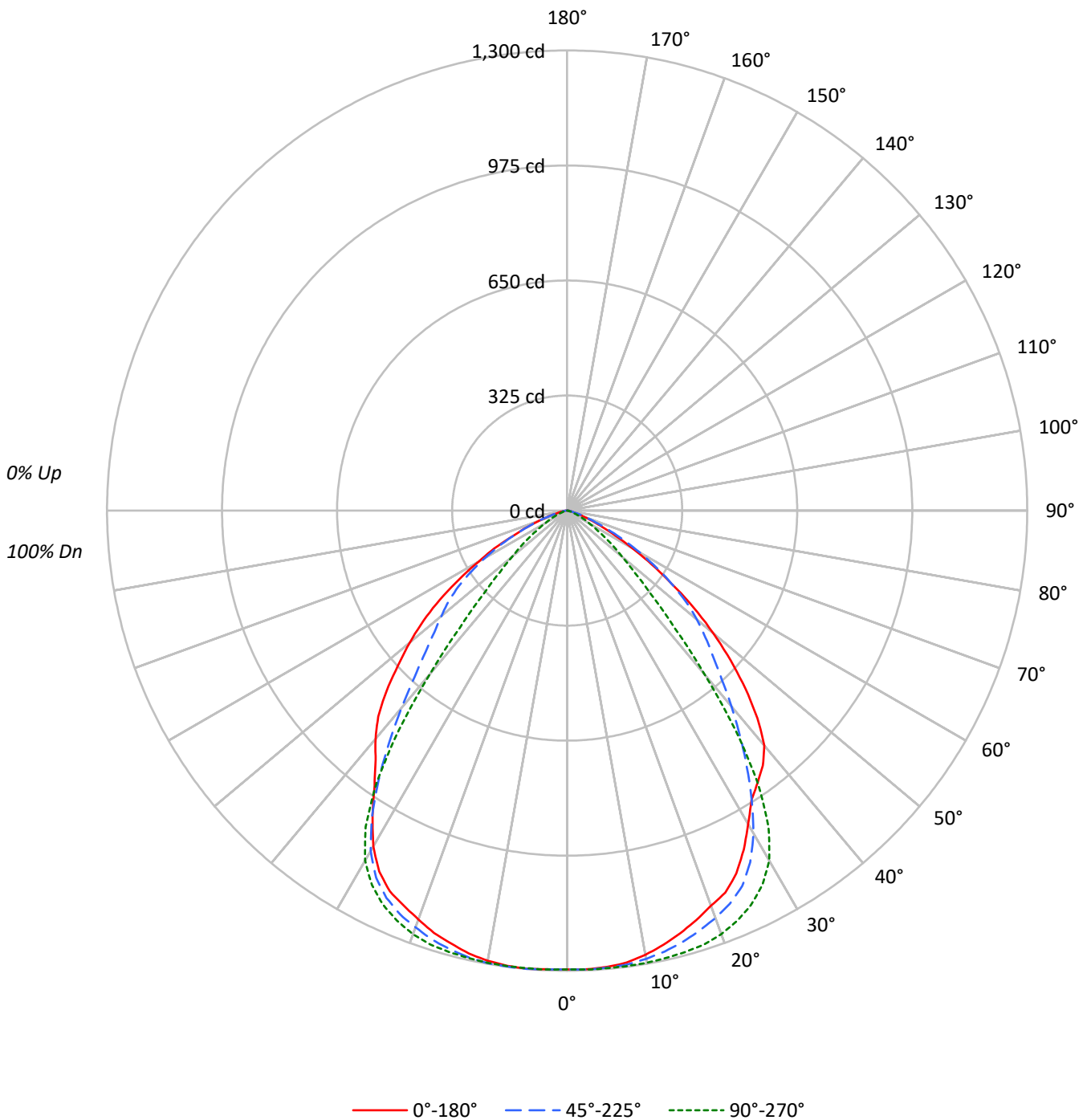
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	123.7	5.0
10°-20°	359.3	14.6
20°-30°	545.3	22.2
30°-40°	572.8	23.3
40°-50°	429.4	17.5
50°-60°	275.5	11.2
60°-70°	117.9	4.8
70°-80°	27.8	1.1
80°-90°	5.2	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°	1028.4	41.9
0°-40°	1601.1	65.2
0°-60°	2306.1	93.9
0°-90°	2457.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2457.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1296	1296	1296	1296	1296	
5°	1294	1296	1298	1300	1299	123
15°	1236	1262	1291	1282	1266	349
25°	1131	1170	1230	1207	1186	517
35°	938	886	939	928	948	589
45°	713	582	335	566	722	546
55°	360	360	124	376	439	327
65°	109	128	40	165	168	116
75°	17	20	6	33	33	24
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°	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3
2.5°	1297.0	1298.5	1297.8	1297.8	1297.0	1297.8	1297.8	1299.1	1299.1	1297.8	1297.0
5°	1294.3	1295.7	1295.7	1294.3	1294.3	1297.8	1295.7	1297.0	1297.0	1296.3	1296.3
7.5°	1288.0	1288.0	1290.8	1288.7	1288.7	1290.8	1290.1	1291.5	1292.9	1293.6	1293.6
10°	1274.1	1275.5	1276.2	1276.2	1276.9	1279.0	1280.4	1283.2	1284.5	1285.9	1286.7
12.5°	1256.7	1258.8	1259.4	1258.8	1260.9	1263.6	1267.2	1270.6	1272.7	1275.5	1277.6
15°	1235.8	1235.8	1237.2	1239.3	1240.6	1244.9	1248.3	1252.6	1258.1	1261.6	1265.1
17.5°	1212.9	1214.2	1216.4	1216.4	1219.2	1226.0	1228.2	1234.5	1240.6	1244.1	1251.1
20°	1187.8	1189.2	1191.3	1192.7	1196.2	1201.7	1205.9	1211.5	1218.5	1224.7	1231.6
22.5°	1168.3	1165.5	1167.0	1168.3	1171.8	1176.6	1181.6	1188.4	1195.4	1201.7	1208.7
25°	1130.7	1131.4	1133.6	1134.9	1139.1	1143.2	1148.9	1157.2	1163.5	1170.4	1178.1
27.5°	1080.0	1080.7	1084.2	1084.2	1087.6	1094.5	1098.0	1105.0	1113.4	1120.3	1129.4
30°	1022.2	1023.6	1023.6	1026.3	1028.5	1032.0	1035.4	1042.4	1046.6	1052.8	1065.4
32.5°	969.3	970.6	970.0	969.3	967.3	966.5	965.8	967.3	968.6	970.6	975.6
35°	938.0	934.5	931.7	926.9	921.3	914.3	908.1	899.8	892.1	885.8	878.8
37.5°	908.1	907.4	903.3	896.3	885.2	872.6	858.0	839.9	821.8	802.4	783.6
40°	866.4	864.2	860.7	851.1	838.5	823.2	803.7	781.4	752.2	722.2	691.6
42.5°	795.4	796.1	791.9	784.2	772.4	757.8	737.6	713.2	682.0	646.4	606.8
45°	712.6	712.6	711.1	704.9	696.6	684.7	669.4	649.2	618.6	582.4	540.0
47.5°	626.3	627.0	624.8	623.5	620.0	612.3	601.2	585.9	564.3	529.5	487.1
50°	538.5	538.5	542.0	541.4	541.4	538.5	533.7	524.7	505.9	478.0	438.4
52.5°	450.9	452.2	454.4	457.2	460.7	466.2	460.7	456.5	444.6	423.1	389.0
55°	360.4	361.8	365.3	370.2	374.4	379.9	381.4	381.4	375.1	360.4	334.7
57.5°	283.2	281.1	284.0	288.1	293.6	299.2	303.4	308.2	307.6	297.8	277.0
60°	213.0	213.6	215.7	219.9	224.1	228.9	234.4	238.7	240.8	235.9	222.6
62.5°	155.1	155.1	158.0	162.1	164.2	171.2	174.6	176.7	178.9	178.1	169.8
65°	108.6	109.9	111.4	113.4	115.5	119.7	121.7	125.9	127.4	128.0	121.7
67.5°	76.5	74.5	75.8	77.3	79.3	82.1	86.3	86.3	88.3	88.3	84.1
70°	48.7	48.7	49.4	51.5	52.9	53.6	55.0	56.4	58.5	57.7	57.7
72.5°	32.7	32.1	32.7	33.4	34.1	36.2	36.2	36.9	38.2	38.9	36.2
75°	16.7	17.4	18.8	18.1	20.1	18.8	19.5	21.6	20.9	19.5	19.5
77.5°	14.0	14.0	14.0	13.3	14.6	14.6	14.0	15.3	14.6	14.6	14.0
80°	9.8	10.5	9.8	9.0	9.8	9.0	9.0	9.0	9.0	9.0	8.3
82.5°	7.6	6.3	7.0	6.3	7.0	7.0	6.3	5.5	5.5	6.3	5.5
85°	5.5	4.2	4.8	4.8	4.2	4.2	4.2	4.2	4.2	3.5	3.5
87.5°	3.5	2.1	2.1	2.1	2.8	2.8	2.8	2.1	2.8	2.8	1.3
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°	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3
2.5°	1298.5	1297.8	1299.1	1298.5	1298.5	1297.8	1298.5	1297.8	1299.1	1296.3	1297.0
5°	1298.5	1297.0	1297.8	1298.5	1299.1	1297.8	1297.8	1297.8	1299.1	1297.8	1298.5
7.5°	1295.7	1295.0	1297.0	1298.5	1297.8	1297.0	1298.5	1297.8	1299.1	1298.5	1299.8
10°	1290.1	1290.8	1292.2	1294.3	1295.0	1295.7	1297.0	1297.0	1299.1	1296.3	1297.8
12.5°	1281.7	1284.5	1288.0	1289.4	1292.2	1292.2	1293.6	1294.3	1295.7	1295.0	1297.0
15°	1271.4	1274.7	1279.0	1282.5	1285.9	1288.0	1290.1	1290.8	1292.9	1290.8	1291.5
17.5°	1258.8	1262.9	1269.2	1273.4	1279.0	1281.0	1283.9	1285.2	1287.3	1285.9	1286.7
20°	1241.4	1246.3	1253.2	1259.4	1262.9	1267.9	1271.4	1273.4	1274.7	1273.4	1274.1
22.5°	1217.0	1224.0	1233.0	1238.0	1244.9	1249.1	1249.8	1254.6	1258.1	1254.6	1256.1
25°	1188.4	1195.4	1202.4	1212.9	1219.2	1224.0	1228.8	1229.5	1233.0	1232.3	1231.6
27.5°	1141.2	1150.2	1162.0	1170.4	1178.8	1186.4	1191.9	1193.4	1196.9	1195.4	1196.2
30°	1076.5	1086.2	1097.3	1110.6	1122.4	1130.1	1137.0	1141.9	1145.4	1143.2	1142.6
32.5°	984.6	994.4	1006.2	1019.4	1033.3	1044.4	1052.8	1059.1	1063.2	1061.9	1058.4
35°	879.5	882.3	890.0	900.4	912.3	924.1	931.7	938.7	943.5	945.0	945.0
37.5°	771.8	762.6	757.1	757.1	764.0	768.9	775.9	780.1	787.7	790.4	792.6
40°	667.4	646.4	627.0	612.3	602.7	601.9	601.9	604.0	611.0	620.0	628.3
42.5°	574.1	540.7	510.8	483.6	464.2	453.0	448.1	448.9	454.4	462.7	476.7
45°	499.6	457.9	420.3	387.6	361.1	343.7	335.4	334.7	338.8	348.6	363.9
47.5°	441.9	397.3	354.8	317.2	288.8	270.0	260.2	257.5	260.2	269.3	287.4
50°	393.9	348.0	304.1	265.2	234.4	215.0	206.0	202.5	206.0	213.6	231.8
52.5°	349.3	302.0	261.0	223.3	190.7	173.9	164.2	162.1	164.2	173.2	187.9
55°	297.8	257.5	217.1	179.5	151.0	134.3	126.7	124.5	126.7	135.0	150.3
57.5°	247.0	212.3	176.7	142.6	118.4	103.7	96.8	93.9	98.8	104.4	122.5
60°	199.7	171.9	142.0	112.0	91.9	78.6	73.0	72.3	73.8	80.8	93.3
62.5°	156.6	133.6	109.9	85.6	68.9	63.3	56.4	55.7	57.0	61.2	71.0
65°	112.7	98.1	80.0	62.7	49.4	41.7	38.9	39.7	41.1	43.9	52.9
67.5°	78.6	68.2	55.7	43.9	34.1	30.6	27.8	27.1	27.8	32.7	37.6
70°	52.9	46.6	37.6	33.4	23.6	18.8	19.5	17.4	20.1	20.1	24.3
72.5°	34.8	30.6	25.1	19.5	16.7	13.3	13.3	12.5	14.0	14.6	18.1
75°	18.1	14.0	14.0	9.8	7.0	3.5	6.3	5.5	4.8	5.5	7.0
77.5°	12.5	10.5	9.8	7.6	7.0	5.5	5.5	5.5	5.5	6.3	7.0
80°	7.6	7.6	5.5	4.8	4.2	3.5	4.2	4.2	4.2	4.2	4.8
82.5°	4.8	4.2	4.2	3.5	3.5	2.8	2.8	2.8	2.8	2.8	4.2
85°	4.2	2.8	2.8	2.1	2.8	4.8	2.1	2.8	2.8	2.8	2.1
87.5°	1.3	2.1	2.1	2.1	1.3	0.7	1.3	2.1	2.1	3.5	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3	1296.3
2.5°	1298.5	1299.1	1299.1	1298.5	1298.5	1297.0	1299.8	1297.8	1298.5	1301.2	1299.1
5°	1299.8	1300.5	1300.5	1299.8	1299.8	1299.8	1300.5	1300.5	1299.8	1299.1	1300.5
7.5°	1302.6	1302.0	1302.0	1300.5	1300.5	1299.1	1300.5	1298.5	1299.8	1298.5	1300.5
10°	1299.1	1299.8	1299.1	1298.5	1298.5	1297.8	1297.8	1295.7	1296.3	1294.3	1295.7
12.5°	1297.0	1296.3	1296.3	1295.0	1293.6	1292.2	1291.5	1289.4	1289.4	1284.5	1286.7
15°	1291.5	1292.2	1290.1	1287.3	1285.9	1282.5	1281.0	1278.2	1275.5	1272.0	1272.7
17.5°	1286.7	1284.5	1281.7	1279.0	1273.4	1270.6	1267.9	1263.6	1262.2	1258.1	1256.7
20°	1272.0	1270.6	1267.2	1262.2	1258.8	1252.6	1249.8	1245.6	1242.1	1238.0	1235.8
22.5°	1253.2	1251.8	1247.6	1242.8	1237.2	1234.5	1231.6	1224.0	1220.5	1216.4	1215.7
25°	1229.5	1227.5	1223.3	1217.7	1214.9	1207.4	1204.5	1198.9	1197.6	1193.4	1192.7
27.5°	1193.4	1190.6	1185.8	1178.8	1173.9	1169.0	1166.3	1162.0	1160.7	1156.5	1155.8
30°	1139.1	1135.6	1125.9	1123.1	1114.8	1109.9	1109.9	1104.3	1105.0	1102.3	1102.3
32.5°	1053.6	1047.9	1040.3	1034.8	1029.1	1026.3	1026.3	1024.3	1025.7	1025.7	1027.1
35°	940.0	932.4	928.2	924.8	924.8	927.6	935.9	938.0	942.2	945.7	948.5
37.5°	794.7	793.9	798.9	803.0	813.5	825.3	839.9	852.4	864.2	872.6	881.0
40°	637.4	654.8	668.7	688.2	704.1	727.2	753.6	775.1	795.4	810.0	825.3
42.5°	497.5	519.8	549.0	577.6	606.0	637.4	672.2	702.1	728.6	748.7	764.8
45°	387.6	418.2	453.7	489.8	526.7	565.8	601.9	632.5	660.4	681.2	697.3
47.5°	312.4	345.8	386.2	425.8	467.7	508.6	549.0	575.4	598.4	615.2	629.8
50°	258.2	293.6	336.2	381.4	423.1	464.2	498.9	524.7	543.5	558.1	567.1
52.5°	215.7	253.2	298.6	343.7	385.5	423.1	454.4	473.8	489.2	499.6	507.9
55°	178.1	214.3	256.7	299.2	340.3	375.8	401.5	416.1	428.0	434.2	439.1
57.5°	145.5	178.9	217.8	256.7	292.3	321.5	341.7	356.3	361.8	366.8	366.0
60°	114.1	145.5	180.9	214.3	244.9	268.5	283.2	291.6	295.8	297.8	296.4
62.5°	89.8	118.4	145.5	174.6	196.9	217.1	231.1	231.1	233.1	233.8	235.9
65°	66.8	88.3	112.0	133.6	151.6	164.9	172.6	174.6	177.4	176.7	175.4
67.5°	49.4	65.4	82.8	98.8	111.4	119.7	125.2	130.2	129.5	128.0	127.4
70°	34.1	44.6	59.8	69.6	78.6	87.0	88.3	89.1	89.8	90.4	89.1
72.5°	23.6	31.3	39.7	48.0	53.6	57.0	60.5	61.2	61.2	61.2	60.5
75°	11.8	16.0	23.6	27.1	32.1	33.4	36.2	36.2	38.2	35.4	34.8
77.5°	10.5	12.5	16.7	19.5	21.6	23.6	24.3	26.4	25.8	24.3	25.1
80°	6.3	7.6	10.5	11.8	14.6	15.3	16.0	16.7	16.0	16.7	16.7
82.5°	4.8	5.5	7.0	7.0	9.0	9.0	9.8	9.8	10.5	10.5	10.5
85°	2.8	4.8	4.2	8.3	5.5	5.5	7.0	8.3	7.0	7.0	8.3
87.5°	2.8	2.8	2.1	2.8	2.8	2.8	3.5	4.2	4.2	4.8	4.2
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: P244653

CATALOG NUMBER: LSR8B30D010 EC8B30927 8LBDW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1296.3	1296.3	1296.3	1296.3
2.5°	1298.5	1299.8	1297.8	1297.0
5°	1300.5	1300.5	1299.1	1299.1
7.5°	1300.5	1300.5	1298.5	1297.0
10°	1295.0	1295.0	1292.9	1291.5
12.5°	1284.5	1284.5	1283.9	1281.7
15°	1271.4	1271.4	1268.6	1266.4
17.5°	1253.2	1254.6	1251.1	1251.1
20°	1233.8	1233.0	1230.3	1228.8
22.5°	1213.5	1212.2	1211.5	1207.4
25°	1191.9	1190.6	1188.4	1186.4
27.5°	1155.1	1154.4	1152.3	1149.5
30°	1098.8	1098.0	1095.3	1095.3
32.5°	1025.7	1025.0	1022.2	1022.8
35°	949.8	952.6	951.2	948.5
37.5°	886.5	888.6	890.0	888.6
40°	833.6	839.9	840.6	842.0
42.5°	777.3	785.6	788.4	789.8
45°	709.8	717.4	723.7	722.2
47.5°	640.9	646.4	652.1	647.9
50°	574.8	578.2	580.4	580.4
52.5°	512.1	512.1	511.4	512.1
55°	440.4	440.4	437.7	439.1
57.5°	365.3	366.8	364.6	361.1
60°	295.8	292.3	290.8	288.8
62.5°	230.3	230.3	225.4	231.8
65°	172.6	170.4	168.4	167.7
67.5°	125.2	124.5	122.5	121.7
70°	88.3	85.6	84.9	83.5
72.5°	59.2	59.2	57.7	57.7
75°	36.2	32.7	32.1	32.7
77.5°	25.1	24.3	24.3	23.6
80°	16.7	16.0	17.4	15.3
82.5°	10.5	11.1	10.5	11.1
85°	7.0	8.3	7.6	7.6
87.5°	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)