

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: P246237

Luminaire Tested: **LSR8B30D010 EC8B30927 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246237
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 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2428.9 lumens
Efficiency: N/A
Efficacy: 89.6 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

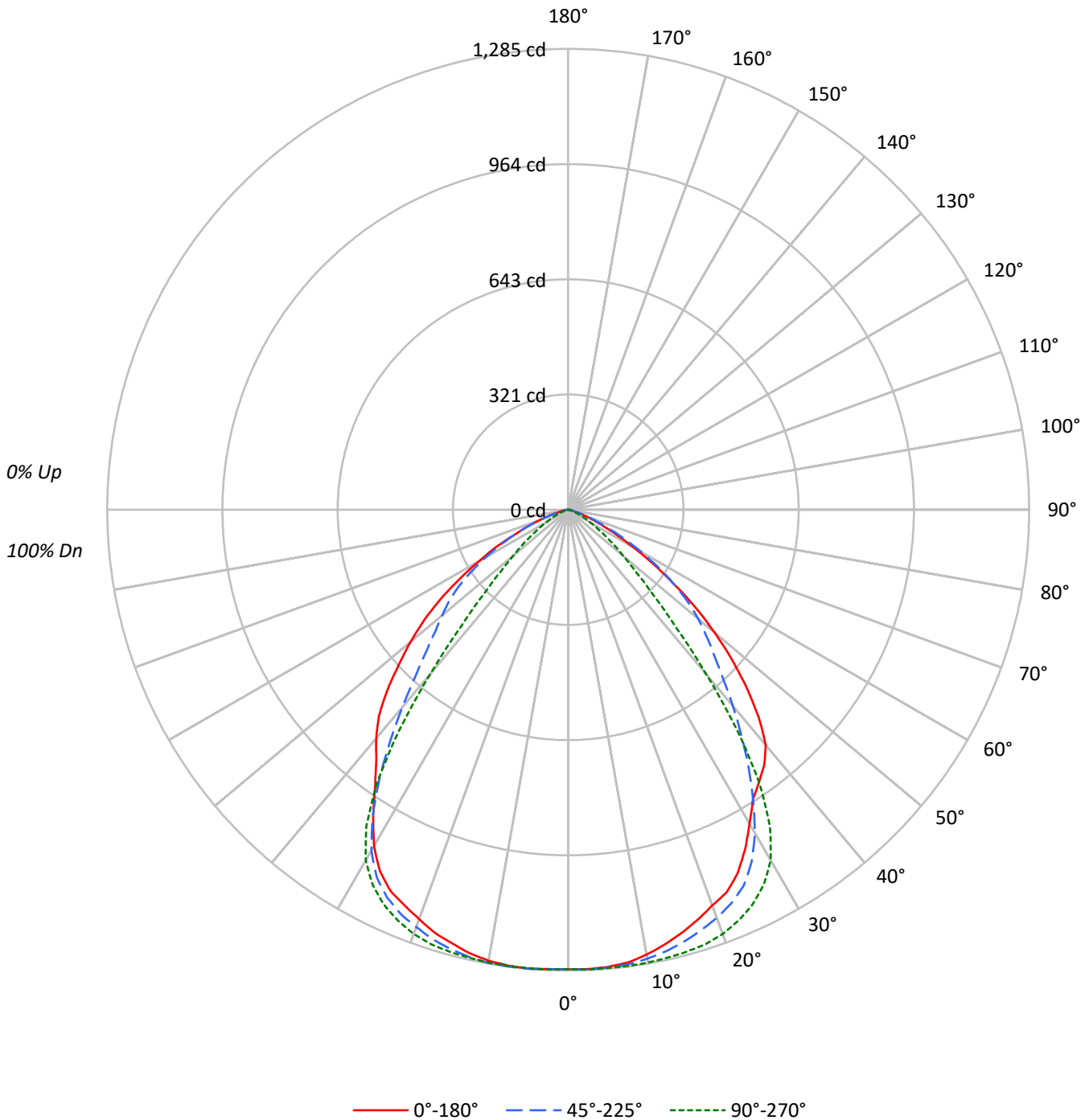
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	122.3	5.0
10°-20°	355.2	14.6
20°-30°	539.1	22.2
30°-40°	566.2	23.3
40°-50°	424.5	17.5
50°-60°	272.4	11.2
60°-70°	116.5	4.8
70°-80°	27.5	1.1
80°-90°	5.1	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°	1016.6	41.9
0°-40°	1582.8	65.2
0°-60°	2279.7	93.9
0°-90°	2428.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2428.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1282	1282	1282	1282	1282	
5°	1280	1282	1283	1285	1284	122
15°	1222	1247	1276	1268	1252	345
25°	1118	1157	1215	1194	1173	511
35°	927	876	928	917	938	582
45°	704	576	331	559	714	539
55°	356	356	123	372	434	323
65°	107	127	39	163	166	115
75°	16	19	6	33	32	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°	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5
2.5°	1282.2	1283.6	1283.0	1283.0	1282.2	1283.0	1283.0	1284.3	1284.3	1283.0	1282.2
5°	1279.5	1280.8	1280.8	1279.5	1279.5	1283.0	1280.8	1282.2	1282.2	1281.5	1281.5
7.5°	1273.3	1273.3	1276.0	1274.0	1274.0	1276.0	1275.3	1276.8	1278.1	1278.8	1278.8
10°	1259.6	1260.9	1261.6	1261.6	1262.2	1264.3	1265.7	1268.4	1269.8	1271.2	1271.9
12.5°	1242.3	1244.4	1245.0	1244.4	1246.5	1249.2	1252.7	1256.1	1258.1	1260.9	1262.9
15°	1221.6	1221.6	1223.1	1225.1	1226.5	1230.6	1234.0	1238.2	1243.7	1247.2	1250.6
17.5°	1199.0	1200.4	1202.4	1202.4	1205.2	1212.1	1214.1	1220.3	1226.5	1230.0	1236.8
20°	1174.3	1175.6	1177.6	1179.0	1182.5	1188.0	1192.0	1197.6	1204.5	1210.7	1217.6
22.5°	1154.9	1152.2	1153.6	1154.9	1158.4	1163.2	1168.0	1175.0	1181.8	1188.0	1194.9
25°	1117.8	1118.5	1120.6	1122.0	1126.0	1130.2	1135.7	1143.9	1150.1	1157.1	1164.6
27.5°	1067.6	1068.3	1071.7	1071.7	1075.2	1082.0	1085.5	1092.4	1100.6	1107.4	1116.4
30°	1010.5	1011.8	1011.8	1014.6	1016.7	1020.2	1023.5	1030.5	1034.6	1040.7	1053.1
32.5°	958.3	959.6	959.0	958.3	956.1	955.5	954.8	956.1	957.5	959.6	964.4
35°	927.2	923.8	921.0	916.3	910.8	903.8	897.6	889.4	881.9	875.7	868.8
37.5°	897.6	897.0	892.9	885.9	875.0	862.6	848.1	830.2	812.4	793.1	774.6
40°	856.5	854.3	851.0	841.3	828.9	813.7	794.5	772.5	743.6	714.0	683.8
42.5°	786.3	786.9	782.8	775.2	763.5	749.1	729.1	705.0	674.1	639.0	599.8
45°	704.4	704.4	703.0	696.8	688.6	676.9	661.7	641.8	611.6	575.8	533.8
47.5°	619.1	619.8	617.7	616.4	612.9	605.4	594.3	579.2	557.9	523.5	481.5
50°	532.5	532.5	535.8	535.2	535.2	532.5	527.6	518.6	500.1	472.6	433.4
52.5°	445.7	447.1	449.2	451.9	455.4	460.9	455.4	451.2	439.5	418.3	384.5
55°	356.3	357.8	361.1	366.0	370.1	375.6	377.0	377.0	370.8	356.3	330.9
57.5°	280.0	277.9	280.7	284.7	290.2	295.8	299.9	304.8	304.1	294.4	273.8
60°	210.5	211.2	213.2	217.4	221.5	226.4	231.9	235.9	238.0	233.2	220.2
62.5°	153.5	153.5	156.2	160.3	162.3	169.2	172.7	174.7	176.7	176.1	167.8
65°	107.3	108.7	110.0	112.2	114.2	118.4	120.4	124.5	125.9	126.6	120.4
67.5°	75.7	73.6	75.0	76.4	78.4	81.2	85.3	85.3	87.3	87.3	83.2
70°	48.2	48.2	48.8	50.8	52.3	53.0	54.3	55.7	57.8	57.0	57.0
72.5°	32.3	31.6	32.3	33.1	33.8	35.8	35.8	36.4	37.8	38.5	35.8
75°	16.5	17.2	18.6	17.9	19.9	18.6	19.2	21.4	20.6	19.2	19.2
77.5°	13.7	13.7	13.7	13.0	14.4	14.4	13.7	15.2	14.4	14.4	13.7
80°	9.7	10.4	9.7	8.9	9.7	8.9	8.9	8.9	8.9	8.9	8.2
82.5°	7.5	6.2	6.9	6.2	6.9	6.9	6.2	5.5	5.5	6.2	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	2.0	2.0	2.0	2.7	2.7	2.7	2.0	2.7	2.7	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°	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5
2.5°	1283.6	1283.0	1284.3	1283.6	1283.6	1283.0	1283.6	1283.0	1284.3	1281.5	1282.2
5°	1283.6	1282.2	1283.0	1283.6	1284.3	1283.0	1283.0	1283.0	1284.3	1283.0	1283.6
7.5°	1280.8	1280.1	1282.2	1283.6	1283.0	1282.2	1283.6	1283.0	1284.3	1283.6	1285.0
10°	1275.3	1276.0	1277.4	1279.5	1280.1	1280.8	1282.2	1282.2	1284.3	1281.5	1283.0
12.5°	1267.1	1269.8	1273.3	1274.6	1277.4	1277.4	1278.8	1279.5	1280.8	1280.1	1282.2
15°	1256.7	1260.2	1264.3	1267.8	1271.2	1273.3	1275.3	1276.0	1278.1	1276.0	1276.8
17.5°	1244.4	1248.5	1254.7	1258.8	1264.3	1266.4	1269.1	1270.5	1272.6	1271.2	1271.9
20°	1227.1	1232.0	1238.9	1245.0	1248.5	1253.4	1256.7	1258.8	1260.2	1258.8	1259.6
22.5°	1203.1	1209.9	1218.9	1223.8	1230.6	1234.8	1235.5	1240.2	1243.7	1240.2	1241.7
25°	1175.0	1181.8	1188.7	1199.0	1205.2	1209.9	1214.8	1215.4	1218.9	1218.3	1217.6
27.5°	1128.1	1137.0	1148.7	1157.1	1165.3	1172.8	1178.3	1179.7	1183.2	1181.8	1182.5
30°	1064.1	1073.8	1084.8	1097.9	1109.6	1117.1	1124.0	1128.8	1132.2	1130.2	1129.5
32.5°	973.4	983.0	994.7	1007.8	1021.5	1032.5	1040.7	1046.9	1051.1	1049.7	1046.2
35°	869.5	872.2	879.9	890.1	901.8	913.5	921.0	927.9	932.7	934.1	934.1
37.5°	762.9	754.0	748.5	748.5	755.3	760.1	767.0	771.1	778.7	781.4	783.4
40°	659.7	639.0	619.8	605.4	595.7	595.0	595.0	597.0	604.0	612.9	621.1
42.5°	567.4	534.5	504.9	478.1	458.8	447.9	443.0	443.7	449.2	457.4	471.2
45°	493.9	452.6	415.5	383.2	357.0	339.9	331.5	330.9	335.0	344.6	359.8
47.5°	436.8	392.7	350.8	313.7	285.5	266.8	257.3	254.5	257.3	266.2	284.1
50°	389.4	343.9	300.6	262.1	231.9	212.5	203.6	200.1	203.6	211.2	229.0
52.5°	345.3	298.6	258.0	220.8	188.4	172.0	162.3	160.3	162.3	171.2	185.7
55°	294.4	254.5	214.6	177.5	149.3	132.8	125.2	123.2	125.2	133.4	148.6
57.5°	244.2	209.8	174.7	141.0	117.0	102.5	95.6	92.8	97.6	103.2	121.0
60°	197.4	169.9	140.3	110.7	90.8	77.7	72.2	71.6	72.9	79.8	92.1
62.5°	154.8	132.1	108.7	84.6	68.1	62.6	55.7	55.0	56.4	60.5	70.2
65°	111.5	97.0	79.1	61.9	48.8	41.3	38.5	39.3	40.6	43.3	52.3
67.5°	77.7	67.4	55.0	43.3	33.8	30.3	27.6	26.8	27.6	32.3	37.1
70°	52.3	46.1	37.1	33.1	23.4	18.6	19.2	17.2	19.9	19.9	24.1
72.5°	34.4	30.3	24.8	19.2	16.5	13.0	13.0	12.4	13.7	14.4	17.9
75°	17.9	13.7	13.7	9.7	6.9	3.5	6.2	5.5	4.8	5.5	6.9
77.5°	12.4	10.4	9.7	7.5	6.9	5.5	5.5	5.5	5.5	6.2	6.9
80°	7.5	7.5	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	2.7	2.7	2.7	2.7	2.7	4.2
85°	4.2	2.7	2.7	2.0	2.7	4.8	2.0	2.7	2.7	2.7	2.0
87.5°	1.3	2.0	2.0	2.0	1.3	0.7	1.3	2.0	2.0	3.5	2.7
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°	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5	1281.5
2.5°	1283.6	1284.3	1284.3	1283.6	1283.6	1282.2	1285.0	1283.0	1283.6	1286.3	1284.3
5°	1285.0	1285.6	1285.6	1285.0	1285.0	1285.0	1285.6	1285.6	1285.0	1284.3	1285.6
7.5°	1287.7	1287.0	1287.0	1285.6	1285.6	1284.3	1285.6	1283.6	1285.0	1283.6	1285.6
10°	1284.3	1285.0	1284.3	1283.6	1283.6	1283.0	1283.0	1280.8	1281.5	1279.5	1280.8
12.5°	1282.2	1281.5	1281.5	1280.1	1278.8	1277.4	1276.8	1274.6	1274.6	1269.8	1271.9
15°	1276.8	1277.4	1275.3	1272.6	1271.2	1267.8	1266.4	1263.6	1260.9	1257.4	1258.1
17.5°	1271.9	1269.8	1267.1	1264.3	1258.8	1256.1	1253.4	1249.2	1247.9	1243.7	1242.3
20°	1257.4	1256.1	1252.7	1247.9	1244.4	1238.2	1235.5	1231.3	1227.8	1223.8	1221.6
22.5°	1238.9	1237.5	1233.3	1228.5	1223.1	1220.3	1217.6	1209.9	1206.6	1202.4	1201.7
25°	1215.4	1213.4	1209.3	1203.8	1201.0	1193.5	1190.7	1185.2	1183.8	1179.7	1179.0
27.5°	1179.7	1177.0	1172.1	1165.3	1160.4	1155.6	1152.9	1148.7	1147.4	1143.2	1142.6
30°	1126.0	1122.6	1113.0	1110.3	1101.9	1097.2	1097.2	1091.7	1092.4	1089.6	1089.6
32.5°	1041.4	1035.9	1028.4	1022.8	1017.3	1014.6	1014.6	1012.6	1014.0	1014.0	1015.3
35°	929.4	921.7	917.7	914.2	914.2	917.0	925.2	927.2	931.4	934.9	937.6
37.5°	785.6	784.9	789.6	793.8	804.2	815.8	830.2	842.6	854.3	862.6	870.9
40°	630.1	647.3	661.1	680.3	696.2	718.9	745.0	766.4	786.3	800.7	815.8
42.5°	491.8	513.9	542.7	570.9	599.2	630.1	664.5	694.1	720.2	740.1	756.0
45°	383.2	413.4	448.5	484.3	520.8	559.2	595.0	625.3	652.8	673.4	689.3
47.5°	308.8	341.9	381.8	421.0	462.3	502.9	542.7	568.9	591.5	608.1	622.6
50°	255.2	290.2	332.2	377.0	418.3	458.8	493.2	518.6	537.2	551.7	560.6
52.5°	213.2	250.4	295.1	339.9	381.0	418.3	449.2	468.4	483.6	493.9	502.2
55°	176.1	211.8	253.8	295.8	336.4	371.5	396.9	411.4	423.0	429.2	434.0
57.5°	143.8	176.7	215.3	253.8	288.9	317.8	337.7	352.2	357.8	362.5	361.8
60°	112.8	143.8	178.9	211.8	242.1	265.5	280.0	288.2	292.4	294.4	293.1
62.5°	88.8	117.0	143.8	172.7	194.6	214.6	228.4	228.4	230.4	231.1	233.2
65°	66.0	87.3	110.7	132.1	150.0	163.0	170.5	172.7	175.4	174.7	173.4
67.5°	48.8	64.7	81.9	97.6	110.0	118.4	123.9	128.6	127.9	126.6	125.9
70°	33.8	44.0	59.2	68.7	77.7	86.0	87.3	88.1	88.8	89.4	88.1
72.5°	23.4	30.9	39.3	47.5	53.0	56.4	59.8	60.5	60.5	60.5	59.8
75°	11.7	15.9	23.4	26.8	31.6	33.1	35.8	35.8	37.8	35.1	34.4
77.5°	10.4	12.4	16.5	19.2	21.4	23.4	24.1	26.1	25.4	24.1	24.8
80°	6.2	7.5	10.4	11.7	14.4	15.2	15.9	16.5	15.9	16.5	16.5
82.5°	4.8	5.5	6.9	6.9	8.9	8.9	9.7	9.7	10.4	10.4	10.4
85°	2.7	4.8	4.2	8.2	5.5	5.5	6.9	8.2	6.9	6.9	8.2
87.5°	2.7	2.7	2.0	2.7	2.7	2.7	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: P246237

CATALOG NUMBER: LSR8B30D010 EC8B30927 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1281.5	1281.5	1281.5	1281.5
2.5°	1283.6	1285.0	1283.0	1282.2
5°	1285.6	1285.6	1284.3	1284.3
7.5°	1285.6	1285.6	1283.6	1282.2
10°	1280.1	1280.1	1278.1	1276.8
12.5°	1269.8	1269.8	1269.1	1267.1
15°	1256.7	1256.7	1254.0	1251.9
17.5°	1238.9	1240.2	1236.8	1236.8
20°	1219.6	1218.9	1216.2	1214.8
22.5°	1199.7	1198.2	1197.6	1193.5
25°	1178.3	1177.0	1175.0	1172.8
27.5°	1141.9	1141.2	1139.2	1136.4
30°	1086.2	1085.5	1082.7	1082.7
32.5°	1014.0	1013.3	1010.5	1011.2
35°	938.9	941.7	940.4	937.6
37.5°	876.4	878.4	879.9	878.4
40°	824.1	830.2	830.9	832.4
42.5°	768.4	776.6	779.4	780.8
45°	701.7	709.2	715.4	714.0
47.5°	633.5	639.0	644.5	640.5
50°	568.2	571.6	573.8	573.8
52.5°	506.2	506.2	505.6	506.2
55°	435.4	435.4	432.7	434.0
57.5°	361.1	362.5	360.4	357.0
60°	292.4	288.9	287.6	285.5
62.5°	227.7	227.7	222.9	229.0
65°	170.5	168.5	166.5	165.8
67.5°	123.9	123.2	121.0	120.4
70°	87.3	84.6	83.9	82.6
72.5°	58.5	58.5	57.0	57.0
75°	35.8	32.3	31.6	32.3
77.5°	24.8	24.1	24.1	23.4
80°	16.5	15.9	17.2	15.2
82.5°	10.4	11.0	10.4	11.0
85°	6.9	8.2	7.5	7.5
87.5°	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)