

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: P246111

Luminaire Tested: **LSR8B30D010 EC8B30830 8LBDW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246111
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 EC8B30830 8LBDW0B
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 3000 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2669.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.26 / 1.18
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

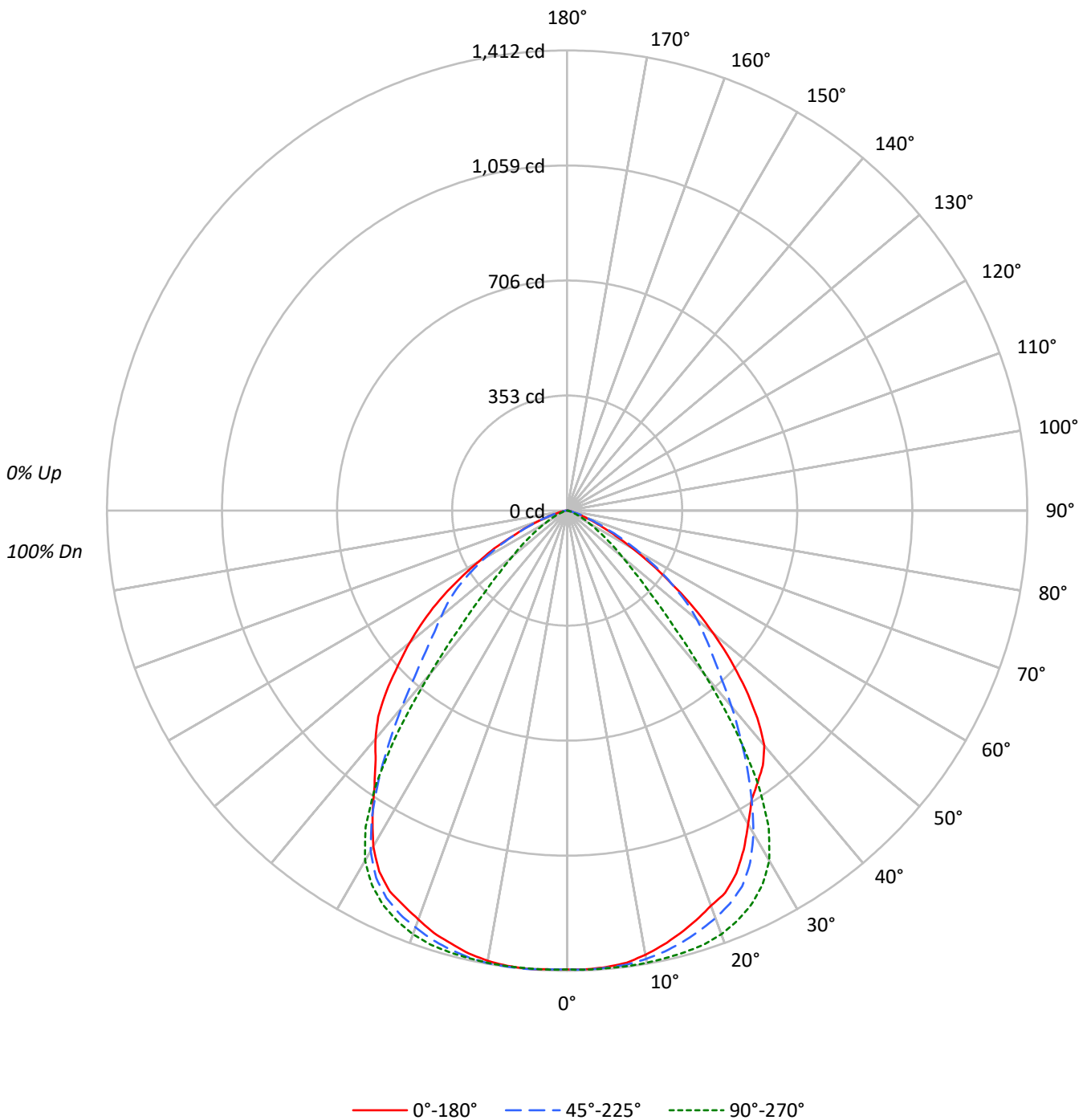
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	90					90			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79					79			
3	96	88	81	76	94	86	80	75	84	78	74	81	77	73	79	75	72	70					70			
4	89	80	72	67	87	78	72	66	76	70	66	74	69	65	72	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	68	62	58	66	61	57	55					55			
6	78	66	58	53	76	65	58	53	64	57	52	62	56	52	61	55	51	50					50			
7	72	61	53	48	71	60	53	48	59	52	47	57	51	47	56	51	47	45					45			
8	68	56	48	43	66	55	48	43	54	48	43	53	47	43	52	46	42	41					41			
9	64	52	44	39	62	51	44	39	50	44	39	49	43	39	48	43	39	37					37			
10	60	48	41	36	59	48	41	36	47	40	36	46	40	36	45	40	36	34					34			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	43424	43424	43424
5°	43518	43636	43682
10°	43336	44119	43928
15°	42855	44764	43918
20°	42342	45393	43805
25°	41792	45446	43850
30°	39538	44167	42365
35°	38356	38386	38785
40°	37883	26411	36816
45°	33753	15856	34216
50°	28069	10554	30242
55°	21048	7274	25644
60°	14265	4847	19347
65°	8603	3145	13294
70°	4769	1704	8177
75°	2156	715	4230
80°	1882	799	2948
85°	2123	1061	2937



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	5.0
10°-20°	390.3	14.6
20°-30°	592.4	22.2
30°-40°	622.2	23.3
40°-50°	466.5	17.5
50°-60°	299.3	11.2
60°-70°	128.0	4.8
70°-80°	30.2	1.1
80°-90°	5.6	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°	1117.1	41.9
0°-40°	1739.3	65.2
0°-60°	2505.1	93.9
0°-90°	2669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2669.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1408	1408	1408	1408	1408	
5°	1406	1408	1410	1412	1411	134
15°	1342	1370	1402	1393	1376	379
25°	1228	1271	1336	1312	1289	561
35°	1019	962	1020	1008	1030	640
45°	774	633	364	614	785	593
55°	392	392	135	408	477	355
65°	118	139	43	179	182	126
75°	18	21	6	36	36	26
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°	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2
2.5°	1409.0	1410.5	1409.7	1409.7	1409.0	1409.7	1409.7	1411.2	1411.2	1409.7	1409.0
5°	1405.9	1407.5	1407.5	1405.9	1405.9	1409.7	1407.5	1409.0	1409.0	1408.2	1408.2
7.5°	1399.2	1399.2	1402.2	1399.9	1399.9	1402.2	1401.4	1402.9	1404.4	1405.2	1405.2
10°	1384.0	1385.5	1386.3	1386.3	1387.1	1389.3	1390.8	1393.9	1395.4	1396.9	1397.6
12.5°	1365.1	1367.4	1368.2	1367.4	1369.7	1372.7	1376.5	1380.3	1382.5	1385.5	1387.8
15°	1342.4	1342.4	1344.0	1346.2	1347.8	1352.3	1356.1	1360.6	1366.6	1370.4	1374.2
17.5°	1317.5	1319.0	1321.3	1321.3	1324.3	1331.9	1334.1	1340.9	1347.8	1351.5	1359.1
20°	1290.3	1291.8	1294.1	1295.6	1299.4	1305.4	1310.0	1316.0	1323.6	1330.4	1337.9
22.5°	1269.1	1266.1	1267.6	1269.1	1272.9	1278.2	1283.5	1291.0	1298.6	1305.4	1313.0
25°	1228.3	1229.1	1231.3	1232.8	1237.4	1241.9	1248.0	1257.0	1263.8	1271.4	1279.7
27.5°	1173.1	1173.9	1177.7	1177.7	1181.4	1189.0	1192.8	1200.3	1209.4	1217.0	1226.8
30°	1110.4	1111.9	1111.9	1114.9	1117.2	1121.0	1124.8	1132.3	1136.9	1143.7	1157.3
32.5°	1053.0	1054.5	1053.7	1053.0	1050.7	1049.9	1049.2	1050.7	1052.2	1054.5	1059.7
35°	1018.9	1015.2	1012.1	1006.8	1000.8	993.2	986.4	977.4	969.0	962.2	954.7
37.5°	986.4	985.7	981.1	973.6	961.5	947.9	932.0	912.4	892.7	871.5	851.1
40°	941.1	938.8	935.0	924.5	910.8	894.2	873.1	848.9	817.1	784.6	751.4
42.5°	864.0	864.7	860.2	851.9	839.0	823.2	801.2	774.8	740.8	702.2	659.1
45°	774.0	774.0	772.5	765.7	756.6	743.8	727.2	705.2	672.0	632.7	586.6
47.5°	680.3	681.1	678.8	677.3	673.5	665.2	653.1	636.5	613.0	575.2	529.1
50°	585.1	585.1	588.8	588.1	588.1	585.1	579.8	569.9	549.5	519.3	476.2
52.5°	489.8	491.3	493.6	496.6	500.4	506.4	500.4	495.9	483.0	459.6	422.5
55°	391.5	393.1	396.8	402.1	406.7	412.7	414.2	414.2	407.4	391.5	363.6
57.5°	307.7	305.4	308.4	312.9	319.0	325.0	329.6	334.9	334.1	323.5	300.8
60°	231.3	232.1	234.3	238.9	243.4	248.7	254.7	259.3	261.5	256.3	241.9
62.5°	168.6	168.6	171.6	176.1	178.4	186.0	189.7	192.0	194.3	193.5	184.4
65°	117.9	119.4	120.9	123.2	125.5	130.0	132.3	136.8	138.3	139.1	132.3
67.5°	83.2	80.9	82.4	83.9	86.2	89.2	93.7	93.7	96.0	96.0	91.5
70°	52.9	52.9	53.7	55.9	57.4	58.2	59.7	61.2	63.5	62.7	62.7
72.5°	35.5	34.8	35.5	36.3	37.0	39.3	39.3	40.1	41.6	42.3	39.3
75°	18.1	18.9	20.4	19.7	21.9	20.4	21.2	23.4	22.7	21.2	21.2
77.5°	15.1	15.1	15.1	14.4	15.9	15.9	15.1	16.6	15.9	15.9	15.1
80°	10.6	11.3	10.6	9.8	10.6	9.8	9.8	9.8	9.8	9.8	9.1
82.5°	8.3	6.8	7.6	6.8	7.6	7.6	6.8	6.0	6.0	6.8	6.0
85°	6.0	4.5	5.3	5.3	4.5	4.5	4.5	4.5	4.5	3.8	3.8
87.5°	3.8	2.3	2.3	2.3	3.0	3.0	3.0	2.3	3.0	3.0	1.5
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°	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2
2.5°	1410.5	1409.7	1411.2	1410.5	1410.5	1409.7	1410.5	1409.7	1411.2	1408.2	1409.0
5°	1410.5	1409.0	1409.7	1410.5	1411.2	1409.7	1409.7	1409.7	1411.2	1409.7	1410.5
7.5°	1407.5	1406.7	1409.0	1410.5	1409.7	1409.0	1410.5	1409.7	1411.2	1410.5	1412.0
10°	1401.4	1402.2	1403.7	1405.9	1406.7	1407.5	1409.0	1409.0	1411.2	1408.2	1409.7
12.5°	1392.3	1395.4	1399.2	1400.7	1403.7	1403.7	1405.2	1405.9	1407.5	1406.7	1409.0
15°	1381.0	1384.8	1389.3	1393.1	1396.9	1399.2	1401.4	1402.2	1404.4	1402.2	1402.9
17.5°	1367.4	1371.9	1378.7	1383.3	1389.3	1391.6	1394.6	1396.1	1398.4	1396.9	1397.6
20°	1348.5	1353.8	1361.3	1368.2	1371.9	1377.2	1381.0	1383.3	1384.8	1383.3	1384.0
22.5°	1322.0	1329.6	1339.4	1344.7	1352.3	1356.8	1357.6	1362.9	1366.6	1362.9	1364.4
25°	1291.0	1298.6	1306.2	1317.5	1324.3	1329.6	1334.9	1335.7	1339.4	1338.7	1337.9
27.5°	1239.7	1249.5	1262.3	1271.4	1280.5	1288.8	1294.8	1296.3	1300.1	1298.6	1299.4
30°	1169.3	1179.9	1192.0	1206.4	1219.2	1227.6	1235.1	1240.4	1244.2	1241.9	1241.2
32.5°	1069.6	1080.2	1093.0	1107.4	1122.5	1134.6	1143.7	1150.5	1155.0	1153.5	1149.7
35°	955.5	958.5	966.8	978.1	991.0	1003.8	1012.1	1019.7	1025.0	1026.5	1026.5
37.5°	838.3	828.5	822.4	822.4	830.0	835.2	842.8	847.3	855.7	858.7	861.0
40°	724.9	702.2	681.1	665.2	654.6	653.8	653.8	656.1	663.7	673.5	682.6
42.5°	623.6	587.3	554.8	525.3	504.2	492.1	486.8	487.6	493.6	502.7	517.8
45°	542.7	497.4	456.6	421.0	392.3	373.4	364.3	363.6	368.1	378.7	395.3
47.5°	480.0	431.6	385.5	344.7	313.7	293.3	282.7	279.7	282.7	292.5	312.2
50°	427.8	378.0	330.3	288.0	254.7	233.6	223.7	220.0	223.7	232.1	251.7
52.5°	379.5	328.1	283.5	242.6	207.1	189.0	178.4	176.1	178.4	188.2	204.1
55°	323.5	279.7	235.8	195.0	164.0	145.9	137.6	135.3	137.6	146.6	163.3
57.5°	268.3	230.5	192.0	155.0	128.5	112.6	105.1	102.0	107.3	113.4	133.0
60°	216.9	186.7	154.2	121.7	99.8	85.4	79.4	78.6	80.1	87.7	101.3
62.5°	170.1	145.1	119.4	93.0	74.8	68.8	61.2	60.5	62.0	66.5	77.1
65°	122.5	106.6	86.9	68.0	53.7	45.4	42.3	43.1	44.6	47.6	57.4
67.5°	85.4	74.1	60.5	47.6	37.0	33.3	30.2	29.5	30.2	35.5	40.8
70°	57.4	50.6	40.8	36.3	25.7	20.4	21.2	18.9	21.9	21.9	26.4
72.5°	37.8	33.3	27.2	21.2	18.1	14.4	14.4	13.6	15.1	15.9	19.7
75°	19.7	15.1	15.1	10.6	7.6	3.8	6.8	6.0	5.3	6.0	7.6
77.5°	13.6	11.3	10.6	8.3	7.6	6.0	6.0	6.0	6.0	6.8	7.6
80°	8.3	8.3	6.0	5.3	4.5	3.8	4.5	4.5	4.5	4.5	5.3
82.5°	5.3	4.5	4.5	3.8	3.8	3.0	3.0	3.0	3.0	3.0	4.5
85°	4.5	3.0	3.0	2.3	3.0	5.3	2.3	3.0	3.0	3.0	2.3
87.5°	1.5	2.3	2.3	2.3	1.5	0.8	1.5	2.3	2.3	3.8	3.0
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2	1408.2
2.5°	1410.5	1411.2	1411.2	1410.5	1410.5	1409.0	1412.0	1409.7	1410.5	1413.5	1411.2
5°	1412.0	1412.7	1412.7	1412.0	1412.0	1412.0	1412.7	1412.7	1412.0	1411.2	1412.7
7.5°	1415.0	1414.3	1414.3	1412.7	1412.7	1411.2	1412.7	1410.5	1412.0	1410.5	1412.7
10°	1411.2	1412.0	1411.2	1410.5	1410.5	1409.7	1409.7	1407.5	1408.2	1405.9	1407.5
12.5°	1409.0	1408.2	1408.2	1406.7	1405.2	1403.7	1402.9	1400.7	1400.7	1395.4	1397.6
15°	1402.9	1403.7	1401.4	1398.4	1396.9	1393.1	1391.6	1388.6	1385.5	1381.8	1382.5
17.5°	1397.6	1395.4	1392.3	1389.3	1383.3	1380.3	1377.2	1372.7	1371.2	1366.6	1365.1
20°	1381.8	1380.3	1376.5	1371.2	1367.4	1360.6	1357.6	1353.0	1349.3	1344.7	1342.4
22.5°	1361.3	1359.8	1355.3	1350.0	1344.0	1340.9	1337.9	1329.6	1325.8	1321.3	1320.5
25°	1335.7	1333.4	1328.9	1322.8	1319.8	1311.5	1308.4	1302.4	1300.9	1296.3	1295.6
27.5°	1296.3	1293.3	1288.0	1280.5	1275.2	1269.9	1266.9	1262.3	1260.8	1256.3	1255.5
30°	1237.4	1233.6	1223.0	1220.0	1210.9	1205.6	1205.6	1199.6	1200.3	1197.3	1197.3
32.5°	1144.4	1138.4	1130.0	1124.0	1118.0	1114.9	1114.9	1112.7	1114.2	1114.2	1115.7
35°	1021.2	1012.9	1008.3	1004.6	1004.6	1007.6	1016.7	1018.9	1023.5	1027.2	1030.3
37.5°	863.2	862.5	867.8	872.3	883.6	896.5	912.4	926.0	938.8	947.9	956.9
40°	692.4	711.3	726.4	747.6	764.9	789.9	818.6	842.1	864.0	879.9	896.5
42.5°	540.5	564.6	596.4	627.4	658.4	692.4	730.2	762.7	791.4	813.3	830.7
45°	421.0	454.3	492.8	532.1	572.2	614.5	653.8	687.1	717.3	740.0	757.4
47.5°	339.4	375.7	419.5	462.6	508.0	552.5	596.4	625.1	650.1	668.2	684.1
50°	280.4	319.0	365.1	414.2	459.6	504.2	542.0	569.9	590.4	606.2	616.0
52.5°	234.3	275.1	324.3	373.4	418.8	459.6	493.6	514.8	531.4	542.7	551.8
55°	193.5	232.8	278.9	325.0	369.6	408.2	436.1	452.0	464.9	471.7	477.0
57.5°	158.0	194.3	236.6	278.9	317.5	349.2	371.1	387.0	393.1	398.4	397.6
60°	124.0	158.0	196.5	232.8	266.1	291.8	307.7	316.7	321.2	323.5	322.0
62.5°	97.5	128.5	158.0	189.7	213.9	235.8	251.0	251.0	253.2	254.0	256.3
65°	72.6	96.0	121.7	145.1	164.8	179.1	187.5	189.7	192.8	192.0	190.5
67.5°	53.7	71.1	89.9	107.3	120.9	130.0	136.1	141.4	140.6	139.1	138.3
70°	37.0	48.4	65.0	75.6	85.4	94.5	96.0	96.7	97.5	98.3	96.7
72.5°	25.7	34.0	43.1	52.2	58.2	62.0	65.8	66.5	66.5	66.5	65.8
75°	12.9	17.4	25.7	29.5	34.8	36.3	39.3	39.3	41.6	38.5	37.8
77.5°	11.3	13.6	18.1	21.2	23.4	25.7	26.4	28.7	28.0	26.4	27.2
80°	6.8	8.3	11.3	12.9	15.9	16.6	17.4	18.1	17.4	18.1	18.1
82.5°	5.3	6.0	7.6	7.6	9.8	9.8	10.6	10.6	11.3	11.3	11.3
85°	3.0	5.3	4.5	9.1	6.0	6.0	7.6	9.1	7.6	7.6	9.1
87.5°	3.0	3.0	2.3	3.0	3.0	3.0	3.8	4.5	4.5	5.3	4.5
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: P246111

CATALOG NUMBER: LSR8B30D010 EC8B30830 8LBDW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1408.2	1408.2	1408.2	1408.2
2.5°	1410.5	1412.0	1409.7	1409.0
5°	1412.7	1412.7	1411.2	1411.2
7.5°	1412.7	1412.7	1410.5	1409.0
10°	1406.7	1406.7	1404.4	1402.9
12.5°	1395.4	1395.4	1394.6	1392.3
15°	1381.0	1381.0	1378.0	1375.7
17.5°	1361.3	1362.9	1359.1	1359.1
20°	1340.2	1339.4	1336.4	1334.9
22.5°	1318.3	1316.8	1316.0	1311.5
25°	1294.8	1293.3	1291.0	1288.8
27.5°	1254.8	1254.0	1251.7	1248.7
30°	1193.5	1192.8	1189.8	1189.8
32.5°	1114.2	1113.4	1110.4	1111.2
35°	1031.8	1034.8	1033.3	1030.3
37.5°	963.0	965.3	966.8	965.3
40°	905.6	912.4	913.1	914.6
42.5°	844.3	853.4	856.4	857.9
45°	771.0	779.3	786.1	784.6
47.5°	696.2	702.2	708.3	703.7
50°	624.4	628.1	630.4	630.4
52.5°	556.3	556.3	555.6	556.3
55°	478.5	478.5	475.5	477.0
57.5°	396.8	398.4	396.1	392.3
60°	321.2	317.5	316.0	313.7
62.5°	250.2	250.2	244.9	251.7
65°	187.5	185.2	182.9	182.2
67.5°	136.1	135.3	133.0	132.3
70°	96.0	93.0	92.2	90.7
72.5°	64.3	64.3	62.7	62.7
75°	39.3	35.5	34.8	35.5
77.5°	27.2	26.4	26.4	25.7
80°	18.1	17.4	18.9	16.6
82.5°	11.3	12.1	11.3	12.1
85°	7.6	9.1	8.3	8.3
87.5°	4.5	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)