

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: P245517

Luminaire Tested: **LSR8B30D010 EC8B30927 8LBDW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245517
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 8LBDW0WH
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2476.1 lumens
Efficiency: N/A
Efficacy: 91.4 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

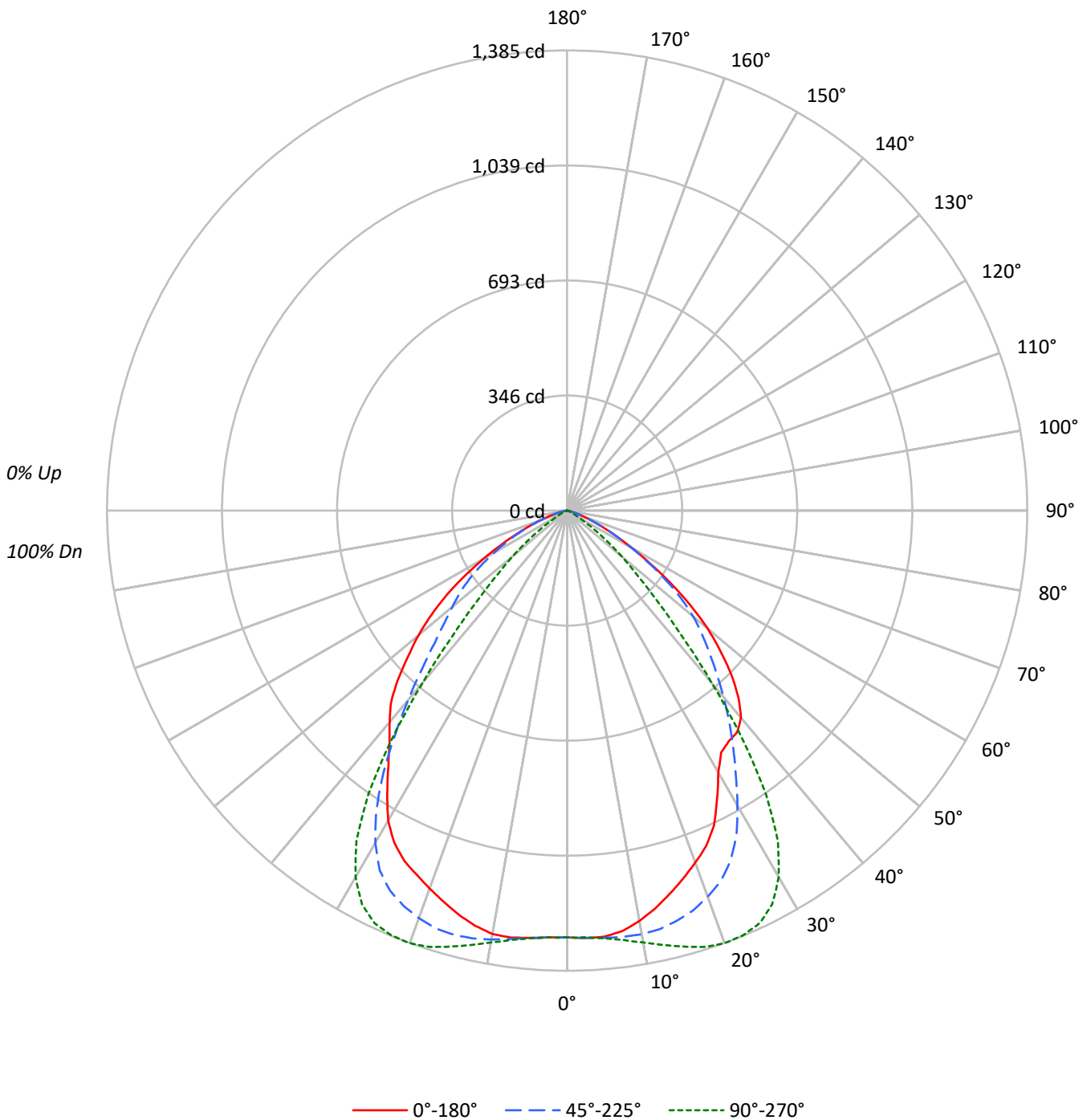
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P245517

CATALOG NUMBER: LSR8B30D010 EC8B30927 8LBDW0WH

Luminous Intensity Polar Plot





TEST NUMBER: P245517

CATALOG NUMBER: LSR8B30D010 EC8B30927 8LBDW0WH

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	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100			
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90	90	90	90			
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79	79	79	79			
3	97	88	82	76	94	87	81	76	84	79	75	81	77	73	79	75	72	70	70	70	70			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62	62	62	62			
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56	56	56	56			
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50	50	50	50			
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45	45	45	45			
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41	41	41	41			
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38	38	38	38			
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34	34	34	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°			



TEST NUMBER: P245517

CATALOG NUMBER: LSR8B30D010 EC8B30927 8LBDW0WH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	5.0
10°-20°	365.9	14.8
20°-30°	558.3	22.5
30°-40°	582.6	23.5
40°-50°	437.6	17.7
50°-60°	269.2	10.9
60°-70°	109.6	4.4
70°-80°	25.8	1.0
80°-90°	3.5	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°	1047.8	42.3
0°-40°	1630.3	65.8
0°-60°	2337.2	94.4
0°-90°	2476.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2476.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1284	1284	1284	1284	1284	
5°	1287	1291	1292	1291	1291	122
15°	1194	1278	1359	1321	1259	336
25°	1046	1163	1370	1262	1162	475
35°	848	871	1044	965	938	535
45°	700	606	378	564	721	534
55°	378	359	99	359	442	340
65°	118	119	15	160	170	123
75°	20	20	3	36	38	25
85°	2	2	1	5	6	3
90°	0	0	0	0	0	



TEST NUMBER: P245517

CATALOG NUMBER: LSR8B30D010 EC8B30927 8LBDW0WH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5
2.5°	1287.9	1285.9	1287.9	1287.9	1288.6	1287.2	1287.9	1288.6	1287.2	1287.2	1287.2
5°	1287.2	1285.9	1287.2	1286.6	1287.9	1287.9	1289.4	1289.4	1290.7	1290.7	1292.7
7.5°	1276.3	1273.6	1276.3	1278.4	1279.8	1282.5	1285.9	1288.6	1291.4	1294.1	1297.5
10°	1253.8	1253.8	1256.0	1260.0	1264.0	1268.9	1275.0	1281.8	1288.6	1294.8	1300.8
12.5°	1225.9	1223.9	1227.9	1233.3	1239.5	1247.1	1256.6	1266.9	1277.8	1290.0	1299.5
15°	1193.9	1191.8	1196.6	1202.1	1209.5	1220.4	1232.0	1245.7	1261.4	1277.8	1293.4
17.5°	1161.1	1160.4	1165.2	1172.7	1178.9	1190.5	1205.4	1221.8	1239.5	1261.4	1281.8
20°	1127.7	1127.0	1131.9	1137.9	1146.1	1157.1	1172.0	1191.1	1212.3	1236.8	1260.7
22.5°	1092.9	1093.6	1097.7	1104.5	1111.4	1123.0	1138.6	1157.7	1180.9	1207.5	1234.1
25°	1045.9	1042.5	1047.9	1054.8	1066.4	1075.8	1090.9	1111.4	1135.2	1163.1	1194.5
27.5°	977.7	977.1	981.8	988.0	998.2	1009.8	1026.1	1047.3	1072.5	1103.2	1133.9
30°	909.6	910.9	912.9	919.1	925.9	937.5	953.9	971.6	995.4	1024.8	1057.5
32.5°	863.2	863.2	865.9	870.0	874.8	880.9	892.5	905.4	923.8	944.3	968.2
35°	847.5	844.8	847.5	848.1	848.8	850.3	852.3	856.4	862.5	871.3	880.2
37.5°	840.7	838.6	838.6	835.9	832.5	828.4	822.9	816.9	810.0	801.1	794.4
40°	814.1	812.7	811.4	808.6	801.1	792.9	784.1	769.7	754.1	732.3	710.4
42.5°	763.0	761.6	760.9	755.4	748.6	739.1	728.9	713.8	694.1	666.1	634.7
45°	699.5	696.8	694.8	690.0	685.2	677.0	667.5	653.8	634.1	605.5	567.9
47.5°	625.9	624.5	623.8	621.8	617.1	612.2	606.2	595.2	577.5	550.2	511.3
50°	551.6	548.9	550.2	549.6	547.5	544.1	540.0	532.5	518.8	494.3	458.9
52.5°	466.3	466.3	465.6	467.8	468.4	467.8	468.4	460.2	448.6	430.2	400.3
55°	377.7	377.7	379.8	382.5	385.2	385.9	385.2	381.8	373.6	358.7	332.0
57.5°	294.5	293.2	297.2	301.4	304.1	306.8	304.8	302.1	297.2	285.0	264.5
60°	224.3	224.3	227.0	229.7	232.5	235.2	234.6	233.9	229.7	221.6	205.2
62.5°	165.0	165.7	165.7	167.7	170.4	173.1	175.3	173.1	171.1	165.7	154.8
65°	117.9	117.2	117.9	120.0	122.1	124.8	126.1	125.4	123.4	119.4	111.2
67.5°	79.1	78.4	81.1	81.8	83.1	86.0	85.3	86.0	85.3	81.8	75.0
70°	51.9	50.4	51.9	51.2	53.2	53.9	55.2	55.9	55.2	53.2	51.2
72.5°	32.1	31.4	32.1	32.7	33.4	34.1	35.4	35.4	34.8	33.4	30.7
75°	20.5	18.4	19.1	17.8	19.1	19.1	20.5	21.2	20.5	20.5	19.1
77.5°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.9	13.6	12.3	11.6
80°	6.2	6.2	6.9	6.9	6.9	7.5	6.9	6.9	6.9	7.5	5.4
82.5°	4.7	4.0	4.0	4.0	4.7	4.0	4.0	4.0	4.0	4.0	4.0
85°	2.0	2.7	2.0	1.3	2.0	2.0	2.7	2.0	2.0	2.0	2.7
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



TEST NUMBER: P245517

CATALOG NUMBER: LSR8B30D010 EC8B30927 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5
2.5°	1287.9	1286.6	1286.6	1285.9	1287.2	1285.9	1286.6	1285.9	1285.9	1287.2	1285.9
5°	1292.7	1293.4	1292.1	1291.4	1293.4	1293.4	1293.4	1292.1	1292.1	1292.7	1292.1
7.5°	1299.5	1300.8	1301.6	1302.3	1303.6	1304.3	1304.3	1303.6	1303.0	1305.0	1302.3
10°	1307.0	1309.0	1313.2	1315.2	1318.6	1318.6	1320.0	1320.0	1318.6	1320.0	1319.3
12.5°	1304.3	1316.6	1323.4	1328.2	1332.9	1337.1	1338.4	1339.1	1338.4	1341.1	1338.4
15°	1309.0	1319.3	1330.2	1338.4	1347.3	1352.0	1353.4	1358.9	1360.2	1360.9	1356.9
17.5°	1301.6	1320.0	1331.6	1343.8	1356.9	1365.6	1373.9	1377.2	1377.9	1379.2	1373.9
20°	1284.5	1305.0	1322.7	1340.4	1355.4	1369.1	1375.9	1385.4	1382.7	1388.1	1380.7
22.5°	1261.4	1284.5	1307.0	1330.2	1346.0	1362.3	1376.6	1383.4	1386.8	1386.8	1378.6
25°	1224.6	1251.8	1276.3	1300.2	1324.1	1343.8	1360.2	1370.5	1372.5	1371.8	1362.3
27.5°	1167.3	1196.6	1225.2	1252.5	1281.8	1305.0	1324.1	1336.4	1339.8	1339.8	1329.5
30°	1088.2	1119.5	1147.5	1180.2	1210.3	1236.1	1262.7	1273.6	1279.8	1279.8	1268.2
32.5°	994.0	1020.7	1046.6	1078.6	1111.4	1140.6	1166.0	1180.9	1188.4	1187.7	1177.5
35°	891.8	904.7	924.5	948.4	977.7	1005.0	1029.5	1043.9	1056.8	1056.1	1046.6
37.5°	789.5	786.2	788.2	797.1	815.4	834.5	853.6	867.3	878.2	882.9	880.9
40°	689.3	671.6	654.5	648.4	649.8	656.6	666.8	677.0	689.3	695.5	698.2
42.5°	599.3	569.4	539.3	516.8	503.9	499.7	504.6	507.9	515.5	524.4	533.1
45°	527.1	486.8	447.3	412.5	390.7	377.7	375.0	377.7	381.8	390.7	402.3
47.5°	467.8	420.6	376.3	337.5	305.4	288.4	283.6	282.3	286.3	294.5	310.2
50°	415.2	368.2	319.0	274.0	240.6	221.6	214.8	212.1	216.8	223.0	237.3
52.5°	358.0	311.6	261.1	217.5	182.7	163.0	155.5	151.3	154.1	162.2	176.6
55°	295.9	252.9	207.2	162.2	128.8	110.5	101.6	98.9	101.6	110.5	124.8
57.5°	233.9	197.8	159.5	117.2	87.3	68.9	60.0	57.3	64.8	68.2	83.1
60°	182.7	153.5	120.7	86.0	60.0	45.7	36.8	34.8	38.1	44.3	56.6
62.5°	137.0	118.7	92.7	61.3	44.3	29.4	24.5	22.5	24.5	29.4	38.9
65°	99.6	85.3	64.8	45.0	30.0	21.8	16.3	15.0	17.1	20.5	28.7
67.5°	68.2	57.3	45.0	31.4	20.5	13.6	11.6	11.6	12.3	15.0	21.2
70°	44.3	37.5	28.7	20.5	13.6	10.2	8.9	7.5	8.9	10.9	14.3
72.5°	28.0	23.8	18.4	14.3	10.2	7.5	6.2	5.4	6.9	8.2	10.9
75°	17.1	12.9	9.6	7.5	5.4	5.4	5.4	2.7	3.4	5.4	6.9
77.5°	10.2	8.9	7.5	6.2	4.7	2.7	2.7	2.7	3.4	4.0	6.2
80°	5.4	4.7	3.4	3.4	2.7	2.0	2.7	2.0	1.3	3.4	4.0
82.5°	3.4	2.7	2.7	2.7	3.4	1.3	2.0	1.3	2.0	2.7	2.0
85°	2.0	2.0	2.0	1.3	3.4	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



TEST NUMBER: P245517

CATALOG NUMBER: LSR8B30D010 EC8B30927 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5	1284.5
2.5°	1286.6	1285.9	1286.6	1285.9	1285.9	1285.9	1286.6	1286.6	1285.9	1285.9	1287.2
5°	1292.1	1292.1	1292.1	1291.4	1290.7	1290.7	1292.1	1292.1	1290.0	1292.1	1292.1
7.5°	1303.6	1301.6	1303.6	1300.8	1299.5	1300.2	1300.8	1299.5	1298.1	1298.8	1298.8
10°	1318.6	1316.6	1316.6	1314.6	1312.5	1311.1	1309.7	1306.4	1303.0	1302.3	1299.5
12.5°	1336.4	1332.9	1330.9	1326.8	1323.4	1318.6	1314.6	1309.0	1302.3	1297.5	1292.7
15°	1354.0	1348.6	1343.8	1337.1	1329.5	1321.3	1312.5	1303.6	1292.7	1283.2	1275.0
17.5°	1368.3	1360.9	1352.0	1341.1	1330.2	1317.9	1305.0	1292.1	1276.3	1264.0	1254.5
20°	1373.2	1362.3	1350.7	1336.4	1322.0	1305.0	1288.6	1271.6	1253.8	1240.9	1230.0
22.5°	1367.0	1354.0	1339.8	1324.8	1305.7	1287.2	1268.2	1248.4	1232.7	1215.0	1204.8
25°	1350.0	1334.4	1318.6	1300.8	1282.5	1262.0	1241.6	1221.1	1202.1	1192.5	1179.6
27.5°	1315.2	1298.1	1281.1	1262.7	1241.6	1221.1	1200.0	1180.2	1163.8	1150.9	1143.4
30°	1253.8	1234.1	1214.3	1194.5	1176.1	1155.0	1135.2	1118.8	1102.5	1092.3	1084.7
32.5°	1159.8	1142.0	1122.3	1103.2	1086.2	1068.4	1052.0	1037.7	1026.1	1019.2	1013.8
35°	1033.0	1015.2	1000.2	986.6	972.2	964.8	954.6	946.4	941.6	938.8	938.1
37.5°	873.4	863.2	858.4	855.7	853.0	851.0	852.3	855.7	858.4	863.2	868.6
40°	702.9	711.8	714.5	724.1	732.9	744.5	757.5	772.5	784.8	800.4	811.4
42.5°	547.5	563.8	583.0	603.4	625.3	646.3	672.3	696.2	718.0	737.7	754.8
45°	420.6	446.0	474.5	503.9	533.1	563.8	595.2	624.5	650.5	671.6	689.3
47.5°	327.9	356.0	392.7	428.8	464.3	500.4	535.2	565.9	587.7	608.2	623.8
50°	259.8	291.8	332.0	373.6	412.5	450.7	487.5	516.2	538.0	554.3	565.9
52.5°	201.2	239.3	280.2	323.9	365.4	407.0	441.1	467.8	485.4	499.7	508.6
55°	150.0	187.5	231.2	276.2	318.4	358.7	390.7	413.9	429.5	437.7	442.5
57.5°	108.4	142.5	186.1	231.2	269.3	307.5	333.4	354.5	363.4	368.2	370.2
60°	79.1	110.5	149.3	188.2	224.3	255.0	277.5	291.8	298.7	301.4	300.7
62.5°	57.9	85.3	118.7	151.3	180.7	205.9	223.6	233.2	236.6	237.9	235.9
65°	44.3	65.5	94.0	119.4	141.9	160.2	173.1	179.3	181.4	180.7	179.3
67.5°	32.7	49.1	70.2	89.3	105.6	120.0	126.8	132.3	133.6	131.6	129.5
70°	23.2	36.1	51.2	64.1	76.4	84.6	92.0	92.7	92.7	92.0	90.7
72.5°	16.3	25.2	34.8	43.6	51.2	57.3	60.0	62.0	61.3	60.6	59.3
75°	10.9	15.6	25.2	27.2	34.1	36.1	38.9	38.9	39.5	37.5	37.5
77.5°	6.9	10.9	15.0	17.8	20.5	23.2	24.5	24.5	25.2	24.5	24.5
80°	4.0	6.9	8.2	12.3	12.3	14.3	15.0	15.6	14.3	16.3	14.3
82.5°	2.7	4.0	6.2	6.2	7.5	8.9	8.9	9.6	9.6	8.9	8.9
85°	2.0	2.7	3.4	4.0	4.0	4.7	4.0	4.0	4.7	5.4	4.7
87.5°	0.7	1.3	0.7	1.3	1.3	2.7	2.0	2.0	2.0	2.7	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



TEST NUMBER: P245517

CATALOG NUMBER: LSR8B30D010 EC8B30927 8LBDW0WH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1284.5	1284.5	1284.5	1284.5
2.5°	1285.9	1286.6	1285.9	1285.9
5°	1292.1	1291.4	1292.1	1290.7
7.5°	1296.8	1296.8	1296.1	1296.1
10°	1296.8	1294.1	1294.1	1294.1
12.5°	1286.6	1283.2	1281.1	1279.8
15°	1268.9	1262.7	1260.0	1259.3
17.5°	1245.7	1240.2	1236.8	1234.8
20°	1219.0	1213.6	1209.5	1210.3
22.5°	1195.9	1189.8	1187.0	1185.6
25°	1172.7	1165.2	1163.1	1161.8
27.5°	1135.2	1131.1	1129.0	1127.0
30°	1078.0	1075.8	1072.5	1077.3
32.5°	1011.8	1008.3	1005.6	1007.8
35°	938.8	936.8	938.8	937.5
37.5°	872.0	874.1	876.8	878.2
40°	819.6	827.0	829.8	831.2
42.5°	767.0	775.9	781.3	784.8
45°	702.2	711.1	717.3	721.4
47.5°	635.4	642.9	649.1	648.4
50°	574.8	578.8	581.6	584.3
52.5°	513.4	513.4	514.1	514.1
55°	443.8	442.5	441.8	442.5
57.5°	367.5	366.2	365.4	363.4
60°	297.9	293.8	291.2	291.2
62.5°	233.2	228.4	226.4	225.7
65°	175.3	174.5	170.4	169.8
67.5°	126.8	124.1	121.4	122.1
70°	89.3	85.3	85.3	83.8
72.5°	57.9	55.9	55.2	55.2
75°	36.1	36.1	34.8	37.5
77.5°	23.8	23.8	23.2	23.8
80°	14.3	14.3	14.3	13.6
82.5°	8.9	9.6	8.9	8.9
85°	4.7	5.4	4.0	6.2
87.5°	2.7	3.4	2.7	3.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)