

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: P246219

Luminaire Tested: **LD8B30D010 ER8B30935 8LBDW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P246219
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: LD8B30D010 ER8B30935 8LBDW0MW
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
90 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2644.0 lumens
Efficiency: N/A
Efficacy: 97.6 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

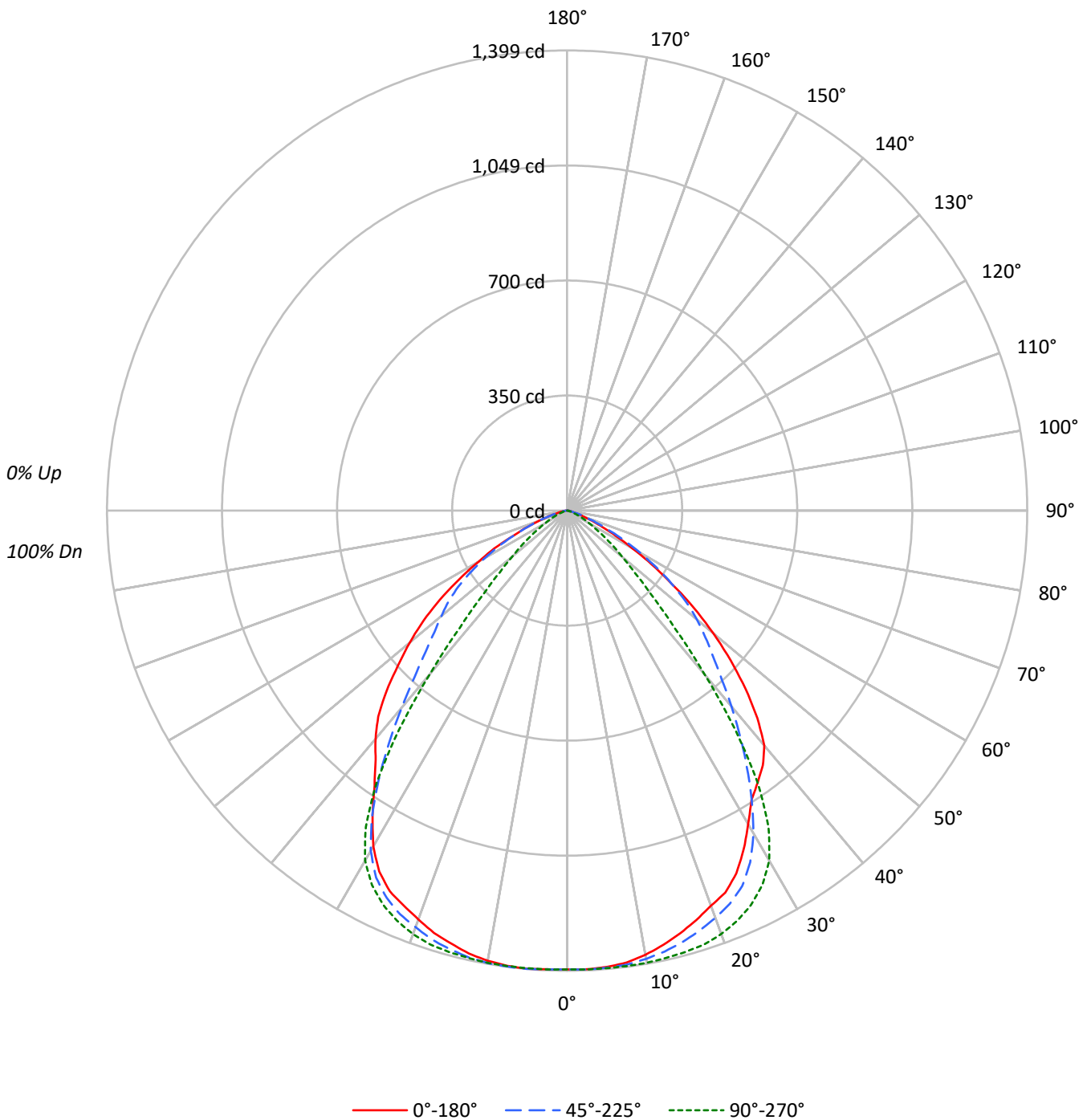
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	43017	43017	43017
5°	43113	43227	43274
10°	42932	43705	43517
15°	42456	44343	43506
20°	41945	44967	43395
25°	41401	45017	43439
30°	39167	43754	41966
35°	37998	38024	38420
40°	37529	26165	36474
45°	33439	15708	33897
50°	27805	10453	29959
55°	20854	7204	25402
60°	14129	4804	19168
65°	8522	3116	13170
70°	4724	1686	8105
75°	2145	715	4194
80°	1865	799	2930
85°	2123	1061	2901



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.1	5.0
10°-20°	386.6	14.6
20°-30°	586.9	22.2
30°-40°	616.4	23.3
40°-50°	462.1	17.5
50°-60°	296.5	11.2
60°-70°	126.8	4.8
70°-80°	30.0	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°	1106.6	41.9
0°-40°	1723.0	65.2
0°-60°	2481.6	93.9
0°-90°	2644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2644.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1395	1395	1395	1395	1395	
5°	1393	1395	1396	1399	1398	132
15°	1330	1358	1389	1380	1363	375
25°	1217	1260	1323	1299	1277	556
35°	1009	953	1010	998	1021	634
45°	767	627	360	609	777	587
55°	388	388	134	404	472	352
65°	117	138	43	178	180	125
75°	18	21	6	36	35	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°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1395.8	1397.3	1396.5	1396.5	1395.8	1396.5	1396.5	1398.0	1398.0	1396.5	1395.8
5°	1392.8	1394.3	1394.3	1392.8	1392.8	1396.5	1394.3	1395.8	1395.8	1395.0	1395.0
7.5°	1386.0	1386.0	1389.0	1386.8	1386.8	1389.0	1388.3	1389.8	1391.3	1392.0	1392.0
10°	1371.1	1372.6	1373.3	1373.3	1374.1	1376.3	1377.8	1380.8	1382.3	1383.8	1384.5
12.5°	1352.4	1354.6	1355.3	1354.6	1356.8	1359.8	1363.6	1367.3	1369.6	1372.6	1374.8
15°	1329.9	1329.9	1331.4	1333.6	1335.1	1339.6	1343.4	1347.8	1353.8	1357.6	1361.3
17.5°	1305.2	1306.7	1308.9	1308.9	1311.9	1319.4	1321.6	1328.4	1335.1	1338.9	1346.4
20°	1278.2	1279.7	1282.0	1283.5	1287.2	1293.2	1297.7	1303.7	1311.2	1317.9	1325.4
22.5°	1257.2	1254.3	1255.7	1257.2	1261.0	1266.2	1271.5	1279.0	1286.4	1293.2	1300.7
25°	1216.8	1217.6	1219.8	1221.3	1225.8	1230.3	1236.3	1245.3	1252.0	1259.5	1267.7
27.5°	1162.2	1162.9	1166.6	1166.6	1170.4	1177.9	1181.6	1189.1	1198.1	1205.6	1215.3
30°	1100.0	1101.5	1101.5	1104.5	1106.7	1110.5	1114.2	1121.7	1126.2	1132.9	1146.4
32.5°	1043.1	1044.6	1043.8	1043.1	1040.8	1040.1	1039.3	1040.8	1042.3	1044.6	1049.8
35°	1009.4	1005.6	1002.7	997.4	991.4	983.9	977.2	968.2	960.0	953.2	945.7
37.5°	977.2	976.4	972.0	964.5	952.5	939.0	923.3	903.8	884.3	863.4	843.2
40°	932.3	930.0	926.3	915.8	902.3	885.8	864.9	840.9	809.5	777.3	744.3
42.5°	855.9	856.6	852.1	843.9	831.2	815.4	793.7	767.5	733.8	695.6	653.0
45°	766.8	766.8	765.3	758.5	749.6	736.8	720.4	698.6	665.7	626.7	581.1
47.5°	673.9	674.7	672.4	670.9	667.2	659.0	647.0	630.5	607.3	569.8	524.2
50°	579.6	579.6	583.3	582.6	582.6	579.6	574.3	564.6	544.4	514.4	471.8
52.5°	485.2	486.7	489.0	492.0	495.7	501.7	495.7	491.2	478.5	455.3	418.6
55°	387.9	389.4	393.1	398.4	402.9	408.9	410.3	410.3	403.6	387.9	360.2
57.5°	304.8	302.5	305.5	310.0	316.0	322.0	326.5	331.7	331.0	320.5	298.0
60°	229.1	229.9	232.1	236.6	241.1	246.4	252.4	256.8	259.1	253.9	239.6
62.5°	167.0	167.0	170.0	174.5	176.7	184.2	187.9	190.2	192.4	191.7	182.7
65°	116.8	118.3	119.8	122.1	124.3	128.8	131.0	135.5	137.0	137.8	131.0
67.5°	82.4	80.1	81.6	83.1	85.4	88.4	92.9	92.9	95.1	95.1	90.6
70°	52.4	52.4	53.2	55.4	56.9	57.7	59.2	60.6	62.9	62.1	62.1
72.5°	35.2	34.4	35.2	35.9	36.7	38.9	38.9	39.7	41.2	41.9	38.9
75°	18.0	18.7	20.2	19.5	21.7	20.2	21.0	23.2	22.5	21.0	21.0
77.5°	15.0	15.0	15.0	14.2	15.7	15.7	15.0	16.5	15.7	15.7	15.0
80°	10.5	11.2	10.5	9.7	10.5	9.7	9.7	9.7	9.7	9.7	9.0
82.5°	8.2	6.7	7.5	6.7	7.5	7.5	6.7	6.0	6.0	6.7	6.0
85°	6.0	4.5	5.2	5.2	4.5	4.5	4.5	4.5	4.5	3.7	3.7
87.5°	3.7	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°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1397.3	1396.5	1398.0	1397.3	1397.3	1396.5	1397.3	1396.5	1398.0	1395.0	1395.8
5°	1397.3	1395.8	1396.5	1397.3	1398.0	1396.5	1396.5	1396.5	1398.0	1396.5	1397.3
7.5°	1394.3	1393.5	1395.8	1397.3	1396.5	1395.8	1397.3	1396.5	1398.0	1397.3	1398.8
10°	1388.3	1389.0	1390.5	1392.8	1393.5	1394.3	1395.8	1395.8	1398.0	1395.0	1396.5
12.5°	1379.3	1382.3	1386.0	1387.5	1390.5	1390.5	1392.0	1392.8	1394.3	1393.5	1395.8
15°	1368.1	1371.8	1376.3	1380.1	1383.8	1386.0	1388.3	1389.0	1391.3	1389.0	1389.8
17.5°	1354.6	1359.1	1365.8	1370.3	1376.3	1378.6	1381.5	1383.0	1385.3	1383.8	1384.5
20°	1335.9	1341.1	1348.6	1355.3	1359.1	1364.3	1368.1	1370.3	1371.8	1370.3	1371.1
22.5°	1309.7	1317.2	1326.9	1332.1	1339.6	1344.1	1344.9	1350.1	1353.8	1350.1	1351.6
25°	1279.0	1286.4	1293.9	1305.2	1311.9	1317.2	1322.4	1323.1	1326.9	1326.1	1325.4
27.5°	1228.0	1237.8	1250.5	1259.5	1268.5	1276.7	1282.7	1284.2	1288.0	1286.4	1287.2
30°	1158.4	1168.9	1180.9	1195.1	1207.8	1216.1	1223.5	1228.8	1232.5	1230.3	1229.5
32.5°	1059.6	1070.0	1082.8	1097.0	1112.0	1124.0	1132.9	1139.7	1144.2	1142.7	1138.9
35°	946.5	949.5	957.7	969.0	981.7	994.4	1002.7	1010.1	1015.4	1016.9	1016.9
37.5°	830.4	820.7	814.7	814.7	822.2	827.4	834.9	839.4	847.7	850.6	852.9
40°	718.1	695.6	674.7	659.0	648.5	647.7	647.7	650.0	657.5	667.2	676.2
42.5°	617.8	581.8	549.6	520.4	499.5	487.5	482.2	483.0	489.0	498.0	512.9
45°	537.6	492.7	452.3	417.1	388.6	369.9	360.9	360.2	364.7	375.1	391.6
47.5°	475.5	427.6	381.9	341.5	310.8	290.5	280.1	277.1	280.1	289.8	309.3
50°	423.8	374.4	327.2	285.3	252.4	231.4	221.6	217.9	221.6	229.9	249.3
52.5°	375.9	325.0	280.8	240.4	205.2	187.2	176.7	174.5	176.7	186.4	202.2
55°	320.5	277.1	233.6	193.2	162.5	144.5	136.3	134.0	136.3	145.3	161.7
57.5°	265.8	228.4	190.2	153.5	127.3	111.6	104.1	101.1	106.3	112.3	131.8
60°	214.9	185.0	152.8	120.6	98.8	84.6	78.6	77.9	79.4	86.9	100.3
62.5°	168.5	143.8	118.3	92.1	74.1	68.1	60.6	59.9	61.4	65.9	76.4
65°	121.3	105.6	86.1	67.4	53.2	44.9	41.9	42.7	44.2	47.2	56.9
67.5°	84.6	73.4	59.9	47.2	36.7	32.9	30.0	29.2	30.0	35.2	40.4
70°	56.9	50.2	40.4	35.9	25.5	20.2	21.0	18.7	21.7	21.7	26.2
72.5°	37.4	32.9	27.0	21.0	18.0	14.2	14.2	13.5	15.0	15.7	19.5
75°	19.5	15.0	15.0	10.5	7.5	3.7	6.7	6.0	5.2	6.0	7.5
77.5°	13.5	11.2	10.5	8.2	7.5	6.0	6.0	6.0	6.0	6.7	7.5
80°	8.2	8.2	6.0	5.2	4.5	3.7	4.5	4.5	4.5	4.5	5.2
82.5°	5.2	4.5	4.5	3.7	3.7	3.0	3.0	3.0	3.0	3.0	4.5
85°	4.5	3.0	3.0	2.3	3.0	5.2	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	3.7	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°	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0	1395.0
2.5°	1397.3	1398.0	1398.0	1397.3	1397.3	1395.8	1398.8	1396.5	1397.3	1400.3	1398.0
5°	1398.8	1399.5	1399.5	1398.8	1398.8	1398.8	1399.5	1399.5	1398.8	1398.0	1399.5
7.5°	1401.8	1401.0	1401.0	1399.5	1399.5	1398.0	1399.5	1397.3	1398.8	1397.3	1399.5
10°	1398.0	1398.8	1398.0	1397.3	1397.3	1396.5	1396.5	1394.3	1395.0	1392.8	1394.3
12.5°	1395.8	1395.0	1395.0	1393.5	1392.0	1390.5	1389.8	1387.5	1387.5	1382.3	1384.5
15°	1389.8	1390.5	1388.3	1385.3	1383.8	1380.1	1378.6	1375.6	1372.6	1368.8	1369.6
17.5°	1384.5	1382.3	1379.3	1376.3	1370.3	1367.3	1364.3	1359.8	1358.3	1353.8	1352.4
20°	1368.8	1367.3	1363.6	1358.3	1354.6	1347.8	1344.9	1340.4	1336.6	1332.1	1329.9
22.5°	1348.6	1347.1	1342.6	1337.4	1331.4	1328.4	1325.4	1317.2	1313.4	1308.9	1308.2
25°	1323.1	1320.9	1316.4	1310.4	1307.4	1299.2	1296.2	1290.2	1288.7	1284.2	1283.5
27.5°	1284.2	1281.2	1276.0	1268.5	1263.2	1258.0	1255.0	1250.5	1249.0	1244.5	1243.8
30°	1225.8	1222.0	1211.6	1208.6	1199.6	1194.3	1194.3	1188.4	1189.1	1186.1	1186.1
32.5°	1133.7	1127.7	1119.5	1113.5	1107.5	1104.5	1104.5	1102.2	1103.7	1103.7	1105.2
35°	1011.6	1003.4	998.9	995.2	995.2	998.2	1007.1	1009.4	1013.9	1017.6	1020.6
37.5°	855.1	854.4	859.6	864.1	875.4	888.1	903.8	917.3	930.0	939.0	948.0
40°	685.9	704.6	719.6	740.6	757.8	782.5	811.0	834.2	855.9	871.6	888.1
42.5°	535.4	559.4	590.8	621.5	652.2	685.9	723.4	755.5	784.0	805.7	822.9
45°	417.1	450.0	488.2	527.2	566.8	608.8	647.7	680.7	710.6	733.1	750.3
47.5°	336.2	372.2	415.6	458.3	503.2	547.4	590.8	619.3	644.0	661.9	677.7
50°	277.8	316.0	361.7	410.3	455.3	499.5	536.9	564.6	584.8	600.5	610.3
52.5°	232.1	272.6	321.2	369.9	414.8	455.3	489.0	509.9	526.4	537.6	546.6
55°	191.7	230.6	276.3	322.0	366.2	404.4	432.1	447.8	460.5	467.3	472.5
57.5°	156.5	192.4	234.4	276.3	314.5	346.0	367.7	383.4	389.4	394.6	393.9
60°	122.8	156.5	194.7	230.6	263.6	289.0	304.8	313.7	318.2	320.5	319.0
62.5°	96.6	127.3	156.5	187.9	211.9	233.6	248.6	248.6	250.8	251.6	253.9
65°	71.9	95.1	120.6	143.8	163.2	177.5	185.7	187.9	191.0	190.2	188.7
67.5°	53.2	70.4	89.1	106.3	119.8	128.8	134.8	140.0	139.3	137.8	137.0
70°	36.7	47.9	64.4	74.9	84.6	93.6	95.1	95.8	96.6	97.3	95.8
72.5°	25.5	33.7	42.7	51.7	57.7	61.4	65.2	65.9	65.9	65.9	65.2
75°	12.7	17.2	25.5	29.2	34.4	35.9	38.9	38.9	41.2	38.2	37.4
77.5°	11.2	13.5	18.0	21.0	23.2	25.5	26.2	28.5	27.7	26.2	27.0
80°	6.7	8.2	11.2	12.7	15.7	16.5	17.2	18.0	17.2	18.0	18.0
82.5°	5.2	6.0	7.5	7.5	9.7	9.7	10.5	10.5	11.2	11.2	11.2
85°	3.0	5.2	4.5	9.0	6.0	6.0	7.5	9.0	7.5	7.5	9.0
87.5°	3.0	3.0	2.3	3.0	3.0	3.0	3.7	4.5	4.5	5.2	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: P246219

CATALOG NUMBER: LD8B30D010 ER8B30935 8LBDW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1395.0	1395.0	1395.0	1395.0
2.5°	1397.3	1398.8	1396.5	1395.8
5°	1399.5	1399.5	1398.0	1398.0
7.5°	1399.5	1399.5	1397.3	1395.8
10°	1393.5	1393.5	1391.3	1389.8
12.5°	1382.3	1382.3	1381.5	1379.3
15°	1368.1	1368.1	1365.1	1362.8
17.5°	1348.6	1350.1	1346.4	1346.4
20°	1327.6	1326.9	1323.9	1322.4
22.5°	1305.9	1304.4	1303.7	1299.2
25°	1282.7	1281.2	1279.0	1276.7
27.5°	1243.0	1242.3	1240.0	1237.0
30°	1182.4	1181.6	1178.6	1178.6
32.5°	1103.7	1103.0	1100.0	1100.8
35°	1022.1	1025.1	1023.6	1020.6
37.5°	954.0	956.2	957.7	956.2
40°	897.1	903.8	904.6	906.1
42.5°	836.4	845.4	848.4	849.9
45°	763.8	772.0	778.8	777.3
47.5°	689.6	695.6	701.6	697.1
50°	618.5	622.3	624.5	624.5
52.5°	551.1	551.1	550.4	551.1
55°	474.0	474.0	471.0	472.5
57.5°	393.1	394.6	392.4	388.6
60°	318.2	314.5	313.0	310.8
62.5°	247.9	247.9	242.6	249.3
65°	185.7	183.5	181.2	180.5
67.5°	134.8	134.0	131.8	131.0
70°	95.1	92.1	91.4	89.9
72.5°	63.7	63.7	62.1	62.1
75°	38.9	35.2	34.4	35.2
77.5°	27.0	26.2	26.2	25.5
80°	18.0	17.2	18.7	16.5
82.5°	11.2	12.0	11.2	12.0
85°	7.5	9.0	8.2	8.2
87.5°	4.5	4.5	4.5	4.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)