

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P709289

Luminaire Tested: DL2W-BB-M-100U-050D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709289
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, G3-2104-222-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-100U-050D-930-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5660.2 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.16
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

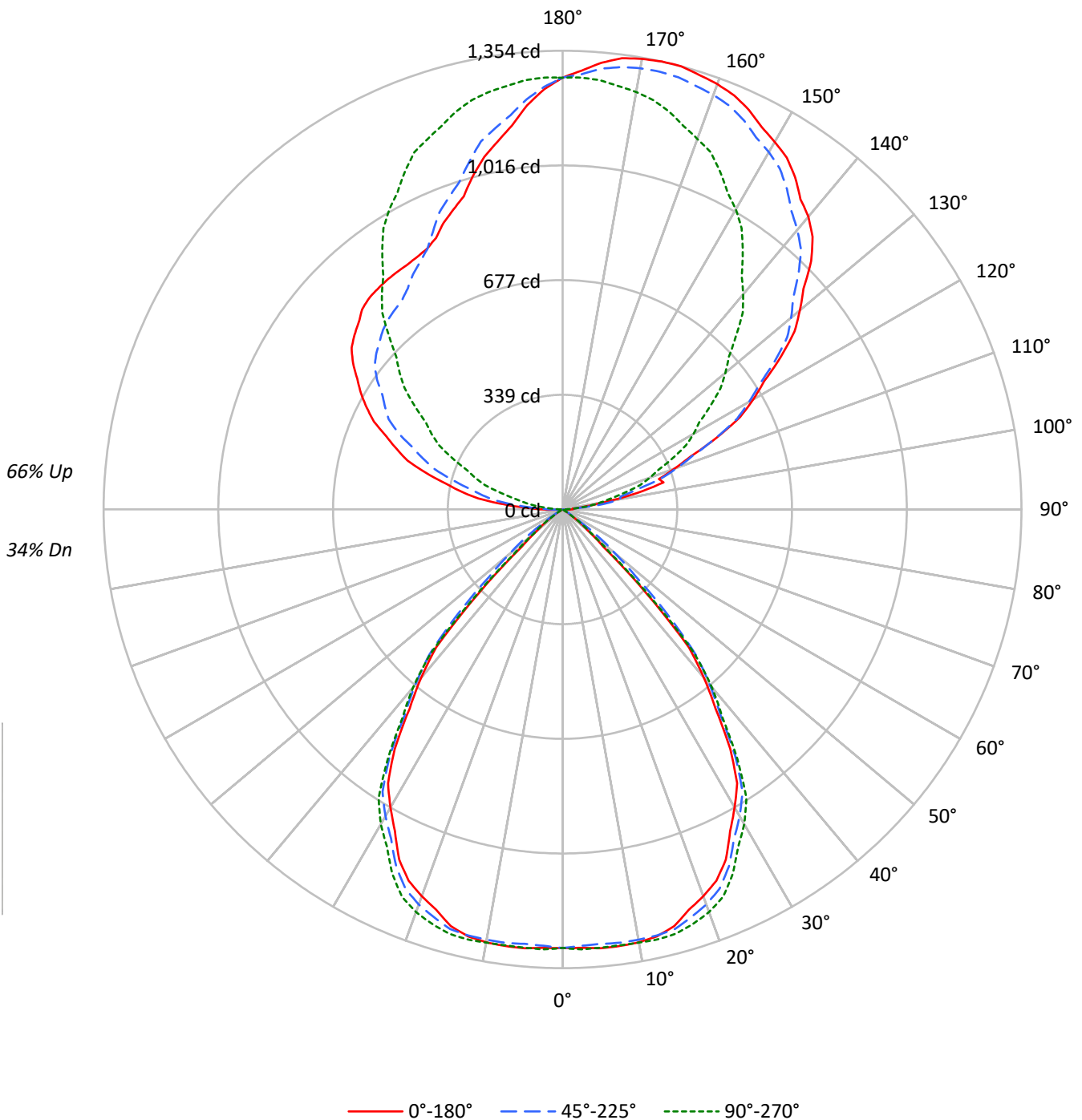
Input Watts (W): 51.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709289

CATALOG NUMBER: DL2W-BB-M-100U-050D-930-UNV-STD-W-WM-4

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	0	
RCR																						
0	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42	34				
1	96	92	89	86	86	83	81	78	67	65	64	52	51	50	39	38	38	31				
2	88	82	77	72	80	74	70	66	61	58	55	48	46	44	36	35	34	29				
3	81	73	67	62	74	67	61	57	55	51	48	44	41	39	33	32	31	26				
4	75	66	59	54	68	60	54	50	50	45	42	40	37	35	31	29	28	24				
5	69	59	52	47	63	54	48	44	45	41	37	36	33	31	28	27	25	22				
6	64	54	46	41	58	49	43	39	41	37	33	33	30	28	26	24	23	20				
7	60	49	42	37	54	45	39	34	38	33	30	31	28	25	24	22	21	18				
8	56	45	38	33	51	41	35	31	35	30	27	28	25	23	23	21	19	17				
9	52	41	34	30	47	38	32	28	32	27	24	26	23	21	21	19	17	15				
10	49	38	31	27	44	35	29	25	30	25	22	24	21	19	20	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20898	20898	20898	20898	20898
5°	21071	20860	21039	20860	21071
10°	21267	21141	21282	21141	21267
15°	21280	21432	21667	21432	21280
20°	20866	21318	21727	21318	20866
25°	20314	20694	21155	20694	20314
30°	18927	19478	19986	19478	18927
35°	17014	17509	17716	17509	17014
40°	13692	14249	14461	14249	13692
45°	7932	9998	8526	9998	7932
50°	2562	5157	2876	5157	2562
55°	1030	1816	974	1816	1030
60°	32	510	94	510	32
65°	0	27	0	27	0
70°	0	0	0	0	0
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 10040 cd/sqm

TEST NUMBER: P709289

CATALOG NUMBER: DL2W-BB-M-100U-050D-930-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	2.2
10°-20°	362.0	6.4
20°-30°	532.7	9.4
30°-40°	544.3	9.6
40°-50°	312.9	5.5
50°-60°	54.6	1.0
60°-70°	2.0	0.0
70°-80°	0.0	0.0
80°-90°	6.8	0.1
90°-100°	101.4	1.8
100°-110°	296.2	5.2
110°-120°	483.0	8.5
120°-130°	612.9	10.8
130°-140°	655.7	11.6
140°-150°	612.2	10.8
150°-160°	503.7	8.9
160°-170°	337.8	6.0
170°-180°	120.0	2.1
0°-30°	1018.4	18.0
0°-40°	1562.7	27.6
0°-60°	1930.3	34.1
0°-90°	1939.0	34.3
90°-120°	880.5	15.6
90°-150°	2761.2	48.8
90°-180°	3723.0	65.8
0°-180°	5660.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1294	1294	1294	1294	1294	
5°	1300	1287	1298	1287	1300	124
15°	1273	1282	1296	1282	1273	357
25°	1140	1162	1188	1162	1140	519
35°	863	888	899	888	863	528
45°	347	438	373	438	347	272
55°	37	64	35	64	37	37
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	2
90°	27	24	4	35	61	13
95°	30	38	39	131	174	49
105°	309	225	188	337	417	283
115°	502	499	359	534	614	495
125°	787	765	532	668	755	701
135°	1038	984	723	749	836	794
145°	1196	1154	927	796	854	748
155°	1301	1267	1100	905	884	599
165°	1354	1321	1216	1062	1020	382
175°	1323	1306	1272	1215	1197	127
180°	1274	1274	1274	1274	1274	

TEST NUMBER: P709289

CATALOG NUMBER: DL2W-BB-M-100U-050D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1294.3	1294.3	1294.3	1294.3	1294.3	1294.3	1294.3	1294.3	1294.3	1294.3	1294.3
2.5°	1295.1	1296.4	1297.8	1294.3	1289.2	1288.8	1293.3	1296.9	1298.3	1299.7	1298.3
5°	1300.1	1300.9	1301.8	1295.9	1287.8	1286.3	1291.4	1295.6	1296.9	1298.1	1296.9
7.5°	1299.5	1301.2	1302.9	1298.0	1290.9	1289.1	1292.5	1295.3	1296.3	1297.4	1296.3
10°	1297.2	1298.9	1300.6	1296.2	1289.8	1289.2	1294.3	1298.1	1298.1	1298.1	1298.1
12.5°	1290.3	1292.6	1295.0	1291.9	1286.8	1288.6	1297.1	1303.1	1301.4	1299.7	1301.4
15°	1273.1	1276.1	1279.1	1279.5	1279.1	1285.3	1298.1	1306.5	1301.4	1296.2	1301.4
17.5°	1239.1	1243.6	1248.1	1252.3	1256.3	1267.1	1284.6	1296.0	1289.1	1282.2	1289.1
20°	1214.4	1218.3	1222.1	1227.9	1234.3	1247.1	1266.4	1279.0	1271.7	1264.5	1271.7
22.5°	1185.9	1190.1	1194.3	1199.4	1204.8	1217.6	1237.9	1251.4	1244.4	1237.5	1244.4
25°	1140.3	1142.9	1145.5	1150.3	1155.8	1167.4	1184.9	1196.9	1192.2	1187.5	1192.2
27.5°	1070.7	1074.9	1079.2	1084.6	1090.3	1100.8	1116.0	1126.8	1124.4	1122.0	1124.4
30°	1015.2	1021.2	1027.2	1033.5	1039.9	1049.6	1062.4	1072.0	1072.0	1072.0	1072.0
32.5°	958.3	963.9	969.6	976.5	984.0	991.9	1000.3	1006.9	1008.3	1009.6	1008.3
35°	863.2	867.9	872.6	878.6	885.0	891.6	898.5	903.1	900.9	898.8	900.9
37.5°	741.2	744.4	747.7	754.0	761.4	768.5	775.6	780.3	778.2	776.2	778.2
40°	649.6	653.8	658.1	665.0	672.6	679.5	685.5	689.5	687.8	686.1	687.8
42.5°	551.8	557.4	563.1	570.8	579.2	586.2	591.8	593.7	584.5	575.3	584.5
45°	347.4	379.5	411.5	426.6	436.0	439.7	437.5	429.0	401.2	373.4	401.2
47.5°	163.6	195.3	227.1	258.5	289.9	295.5	275.2	252.7	223.7	194.6	223.7
50°	102.0	113.6	125.1	159.7	202.1	208.5	179.0	152.2	133.3	114.5	133.3
52.5°	68.9	74.6	80.4	106.9	140.3	142.6	113.8	90.1	81.9	73.7	81.9
55°	36.6	38.3	40.0	50.7	64.4	64.6	51.3	40.6	37.6	34.6	37.6
57.5°	14.0	16.5	19.0	23.8	29.4	29.3	23.7	18.7	15.8	12.9	15.8
60°	1.0	3.1	5.2	9.9	15.5	16.1	11.9	8.0	5.5	2.9	5.5
62.5°	0.2	0.6	1.0	4.3	8.5	8.8	5.2	2.3	1.4	0.6	1.4
65°	0.0	0.0	0.0	0.3	0.7	0.7	0.3	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	5.6	5.6	5.0	5.0	4.8	4.0	3.3	1.9	0.8	1.7
90°	26.9	27.9	27.9	25.0	25.0	24.0	20.2	16.4	9.6	3.8	8.7
92.5°	33.1	32.5	32.5	31.2	29.6	27.1	22.5	21.7	23.5	14.6	24.8
95°	29.8	29.8	28.9	28.9	33.7	42.3	62.5	68.3	44.2	39.4	56.7
97.5°	68.3	72.7	81.0	93.5	114.8	122.5	113.3	85.4	80.8	77.9	103.7
100°	129.8	140.4	151.0	163.5	189.5	154.8	120.2	115.4	107.7	108.7	137.5
102.5°	226.8	227.4	231.8	236.6	186.4	164.9	159.5	153.1	140.8	141.0	170.6
105°	308.7	288.5	252.0	227.0	223.1	227.0	227.0	212.6	187.6	188.5	219.3
107.5°	298.0	295.7	297.2	298.2	304.3	305.7	297.4	271.4	245.6	240.3	271.4
110°	351.1	351.1	354.9	355.9	363.6	358.8	348.2	314.5	281.8	274.1	303.0

TEST NUMBER: P709289

CATALOG NUMBER: DL2W-BB-M-100U-050D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	408.8	409.5	411.1	415.9	419.7	412.6	395.9	359.1	321.8	306.4	334.5
115°	502.1	501.1	501.1	504.9	503.0	495.3	470.3	428.0	379.9	358.8	382.8
117.5°	590.7	585.9	587.1	585.5	588.4	573.0	543.6	491.9	440.3	410.9	428.6
120°	649.2	644.4	646.3	646.3	645.4	626.1	590.5	539.6	481.9	446.3	457.8
122.5°	706.2	702.9	703.3	701.0	698.5	680.0	638.2	585.0	521.9	477.8	484.7
125°	786.8	788.7	782.9	782.9	774.2	756.0	711.7	655.0	586.7	531.9	528.0
127.5°	862.9	865.6	859.8	856.4	849.7	822.1	781.7	724.8	651.5	587.1	571.7
130°	913.7	915.6	913.7	904.1	893.5	867.5	827.1	773.3	695.4	627.1	600.2
132.5°	964.5	968.7	959.1	951.8	935.8	909.1	869.5	817.1	739.2	664.8	630.9
135°	1037.8	1034.9	1025.3	1013.7	997.4	971.4	934.9	880.0	806.0	723.3	680.0
137.5°	1092.0	1092.4	1083.0	1070.3	1053.6	1029.3	994.7	943.1	867.7	786.8	731.2
140°	1128.2	1126.3	1117.6	1104.1	1089.7	1064.7	1033.9	983.9	907.0	829.1	766.6
142.5°	1153.6	1155.5	1148.4	1137.2	1120.5	1098.6	1067.0	1017.0	949.3	868.3	802.7
145°	1196.5	1196.5	1189.7	1182.1	1166.7	1141.7	1117.6	1068.6	1004.1	927.2	855.0
147.5°	1231.5	1232.1	1227.8	1218.8	1203.8	1182.2	1158.0	1114.1	1054.3	983.2	913.1
150°	1252.3	1255.1	1249.4	1242.6	1229.2	1206.1	1184.9	1142.6	1085.9	1022.4	949.3
152.5°	1272.3	1275.9	1270.9	1262.6	1249.2	1226.1	1208.0	1166.5	1113.6	1054.7	984.7
155°	1301.3	1304.2	1300.4	1292.7	1277.3	1256.1	1239.8	1201.3	1154.2	1100.3	1037.8
157.5°	1322.9	1327.5	1321.9	1315.0	1298.4	1279.8	1264.4	1228.6	1186.5	1141.5	1085.7
160°	1335.9	1339.8	1335.0	1327.3	1310.0	1293.6	1278.2	1245.5	1208.0	1163.8	1115.7
162.5°	1344.4	1350.6	1345.0	1336.5	1318.4	1302.9	1289.8	1258.6	1224.2	1186.9	1142.6
165°	1354.2	1359.0	1354.2	1345.6	1327.3	1313.8	1303.2	1276.3	1246.5	1215.7	1178.2
167.5°	1354.2	1360.2	1355.6	1348.1	1328.8	1318.4	1310.4	1287.8	1263.0	1237.4	1209.6
170°	1350.4	1357.1	1353.3	1346.5	1327.3	1317.7	1311.9	1291.7	1271.5	1251.3	1227.3
172.5°	1343.4	1350.2	1345.6	1339.6	1320.4	1313.8	1310.4	1294.0	1276.9	1260.5	1241.1
175°	1323.4	1332.1	1329.2	1322.5	1308.0	1303.2	1304.2	1292.7	1281.1	1271.5	1259.0
177.5°	1296.7	1302.9	1299.8	1298.2	1286.7	1285.2	1290.5	1285.2	1279.8	1275.9	1270.5
180°	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4

TEST NUMBER: P709289

CATALOG NUMBER: DL2W-BB-M-100U-050D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1294.3	1294.3	1294.3	1294.3	1294.3	1294.3	1294.3	1294.3
2.5°	1296.9	1293.3	1288.8	1289.2	1294.3	1297.8	1296.4	1295.1
5°	1295.6	1291.4	1286.3	1287.8	1295.9	1301.8	1300.9	1300.1
7.5°	1295.3	1292.5	1289.1	1290.9	1298.0	1302.9	1301.2	1299.5
10°	1298.1	1294.3	1289.2	1289.8	1296.2	1300.6	1298.9	1297.2
12.5°	1303.1	1297.1	1288.6	1286.8	1291.9	1295.0	1292.6	1290.3
15°	1306.5	1298.1	1285.3	1279.1	1279.5	1279.1	1276.1	1273.1
17.5°	1296.0	1284.6	1267.1	1256.3	1252.3	1248.1	1243.6	1239.1
20°	1279.0	1266.4	1247.1	1234.3	1227.9	1222.1	1218.3	1214.4
22.5°	1251.4	1237.9	1217.6	1204.8	1199.4	1194.3	1190.1	1185.9
25°	1196.9	1184.9	1167.4	1155.8	1150.3	1145.5	1142.9	1140.3
27.5°	1126.8	1116.0	1100.8	1090.3	1084.6	1079.2	1074.9	1070.7
30°	1072.0	1062.4	1049.6	1039.9	1033.5	1027.2	1021.2	1015.2
32.5°	1006.9	1000.3	991.9	984.0	976.5	969.6	963.9	958.3
35°	903.1	898.5	891.6	885.0	878.6	872.6	867.9	863.2
37.5°	780.3	775.6	768.5	761.4	754.0	747.7	744.4	741.2
40°	689.5	685.5	679.5	672.6	665.0	658.1	653.8	649.6
42.5°	593.7	591.8	586.2	579.2	570.8	563.1	557.4	551.8
45°	429.0	437.5	439.7	436.0	426.6	411.5	379.5	347.4
47.5°	252.7	275.2	295.5	289.9	258.5	227.1	195.3	163.6
50°	152.2	179.0	208.5	202.1	159.7	125.1	113.6	102.0
52.5°	90.1	113.8	142.6	140.3	106.9	80.4	74.6	68.9
55°	40.6	51.3	64.6	64.4	50.7	40.0	38.3	36.6
57.5°	18.7	23.7	29.3	29.4	23.8	19.0	16.5	14.0
60°	8.0	11.9	16.1	15.5	9.9	5.2	3.1	1.0
62.5°	2.3	5.2	8.8	8.5	4.3	1.0	0.6	0.2
65°	0.0	0.3	0.7	0.7	0.3	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	4.4	6.0	8.1	9.6	10.8	11.3	12.1
90°	15.4	22.1	29.8	40.4	48.1	53.9	56.7	60.6
92.5°	35.4	49.1	59.8	72.7	86.6	93.9	98.3	99.8
95°	81.8	99.1	121.2	140.4	157.7	169.3	176.0	174.1
97.5°	126.8	159.1	184.3	206.6	226.8	240.6	251.6	250.6
100°	164.5	191.4	225.1	252.0	272.2	287.6	300.1	303.0
102.5°	202.2	227.6	264.3	294.3	317.6	334.5	343.9	353.0
105°	254.9	290.5	318.4	354.9	378.9	401.1	407.8	417.4
107.5°	310.1	349.1	380.1	410.5	439.0	457.4	471.9	479.6
110°	346.2	383.8	423.2	452.0	479.0	498.2	512.6	520.3

TEST NUMBER: P709289

CATALOG NUMBER: DL2W-BB-M-100U-050D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	378.6	419.9	462.4	494.4	519.0	541.3	553.4	561.9
115°	426.1	471.3	513.6	555.0	579.0	596.3	606.9	613.6
117.5°	469.5	516.7	557.8	599.6	629.6	642.3	646.3	651.3
120°	497.2	544.4	584.8	624.2	658.8	672.3	681.0	686.7
122.5°	521.9	569.0	611.7	648.8	681.9	700.8	711.0	718.3
125°	559.8	604.0	648.3	687.7	714.6	734.8	748.3	755.0
127.5°	591.7	634.2	679.6	717.5	746.5	767.9	779.1	784.3
130°	615.6	651.1	697.3	736.7	766.6	788.7	798.3	801.2
132.5°	638.6	667.3	711.2	752.9	782.7	802.5	812.9	815.8
135°	674.2	690.6	729.0	769.4	800.2	820.4	830.0	835.8
137.5°	713.5	717.7	741.5	781.2	812.9	832.3	842.0	845.4
140°	739.6	737.7	753.1	785.8	817.5	837.7	847.3	849.3
142.5°	767.3	759.2	764.6	791.2	819.8	839.3	849.7	852.3
145°	813.7	796.4	789.6	803.1	824.3	840.6	852.2	854.1
147.5°	863.5	835.6	820.4	822.9	834.5	846.0	855.0	855.2
150°	897.4	865.6	843.5	840.6	844.5	852.2	858.9	859.8
152.5°	929.7	895.6	868.9	861.4	859.1	863.7	866.6	866.8
155°	983.9	947.4	912.7	896.4	889.7	887.7	886.8	883.9
157.5°	1035.3	996.4	958.1	940.4	929.7	923.7	919.3	916.2
160°	1067.6	1027.2	989.7	970.5	958.9	952.2	945.4	941.6
162.5°	1100.7	1062.6	1024.3	1002.0	990.5	983.0	975.5	969.3
165°	1144.5	1112.8	1074.3	1050.3	1035.9	1031.0	1024.3	1019.5
167.5°	1183.0	1158.4	1124.0	1101.3	1090.3	1081.4	1074.7	1066.1
170°	1206.1	1186.9	1153.2	1132.0	1127.2	1117.6	1110.9	1102.2
172.5°	1224.6	1209.2	1182.4	1165.1	1161.1	1155.3	1150.1	1143.0
175°	1249.4	1241.7	1221.5	1209.0	1209.0	1207.1	1206.1	1197.4
177.5°	1266.7	1262.8	1251.3	1245.1	1250.5	1252.1	1248.2	1241.3
180°	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4

(END OF REPORT)