

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: P709290

Luminaire Tested: DL2W-BB-M-100U-050D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709290
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-935-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: 5885.0 lumens
Efficiency: N/A
Efficacy: 114.9 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

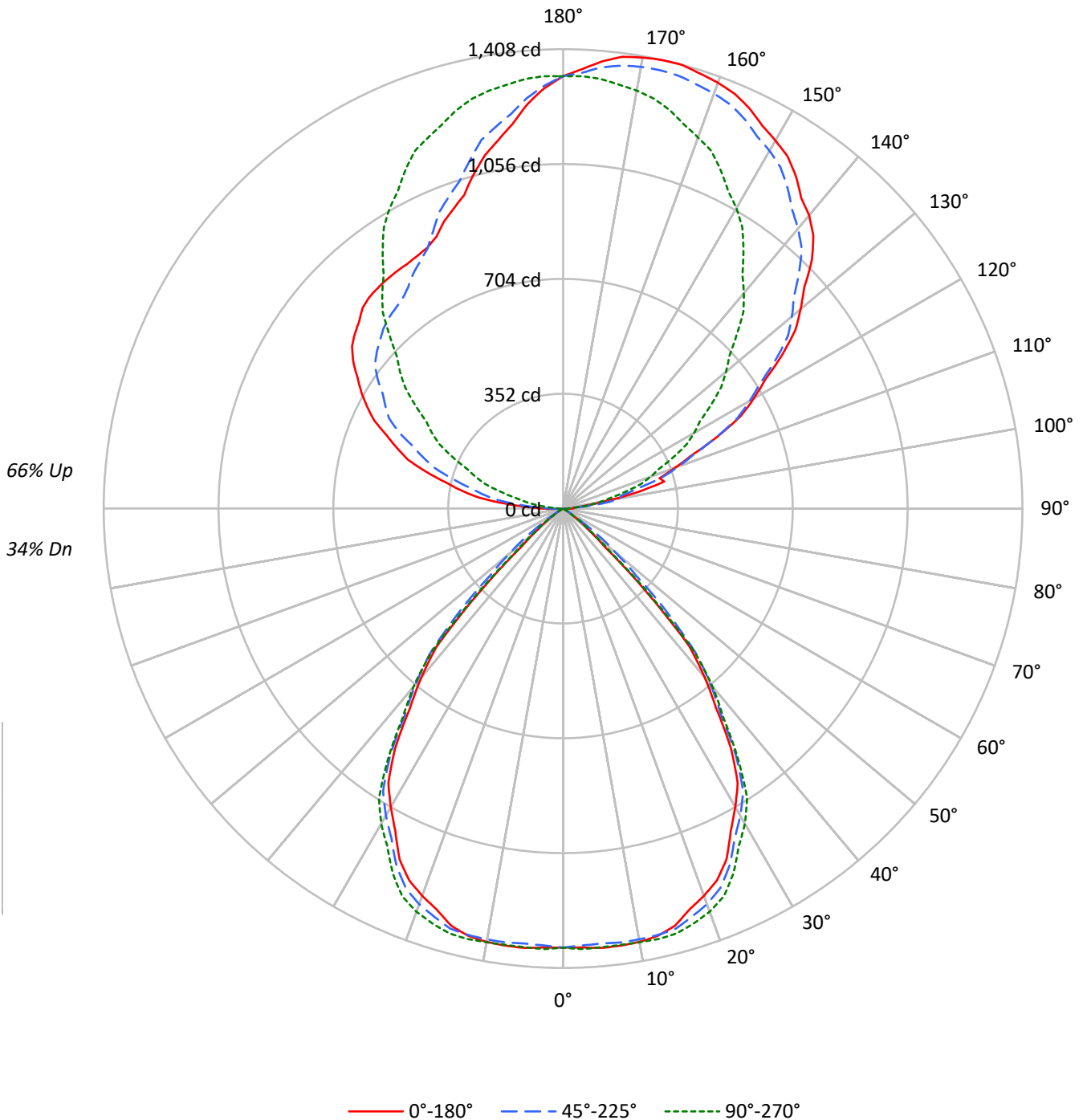
Input Watts (W): 51.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709290

CATALOG NUMBER: DL2W-BB-M-100U-050D-935-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°	21727	21727	21727	21727	21727
5°	21908	21688	21875	21688	21908
10°	22112	21981	22128	21981	22112
15°	22126	22284	22527	22284	22126
20°	21696	22165	22589	22165	21696
25°	21121	21515	21994	21515	21121
30°	19680	20251	20780	20251	19680
35°	17690	18204	18419	18204	17690
40°	14235	14816	15036	14816	14235
45°	8248	10394	8864	10394	8248
50°	2665	5362	2992	5362	2665
55°	1070	1886	1013	1886	1070
60°	32	531	97	531	32
65°	0	31	0	31	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: 10437 cd/sqm

TEST NUMBER: P709290

CATALOG NUMBER: DL2W-BB-M-100U-050D-935-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	2.2
10°-20°	376.4	6.4
20°-30°	553.9	9.4
30°-40°	565.9	9.6
40°-50°	325.3	5.5
50°-60°	56.8	1.0
60°-70°	2.0	0.0
70°-80°	0.0	0.0
80°-90°	7.1	0.1
90°-100°	105.4	1.8
100°-110°	307.9	5.2
110°-120°	502.1	8.5
120°-130°	637.2	10.8
130°-140°	681.7	11.6
140°-150°	636.5	10.8
150°-160°	523.7	8.9
160°-170°	351.2	6.0
170°-180°	124.7	2.1
0°-30°	1058.9	18.0
0°-40°	1624.8	27.6
0°-60°	2006.9	34.1
0°-90°	2016.1	34.3
90°-120°	915.4	15.6
90°-150°	2870.9	48.8
90°-180°	3870.0	65.8
0°-180°	5885.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1346	1346	1346	1346	1346	
5°	1352	1338	1350	1338	1352	129
15°	1324	1333	1348	1333	1324	371
25°	1186	1208	1235	1208	1186	540
35°	898	924	934	924	898	549
45°	361	455	388	455	361	283
55°	38	67	36	67	38	39
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	2
90°	28	26	4	36	63	13
95°	31	40	41	136	181	51
105°	321	234	196	350	434	295
115°	522	519	373	556	638	514
125°	818	796	553	694	785	729
135°	1079	1024	752	779	869	826
145°	1244	1200	964	828	888	777
155°	1353	1317	1144	940	919	623
165°	1408	1373	1264	1104	1060	397
175°	1376	1358	1322	1264	1245	132
180°	1325	1325	1325	1325	1325	

TEST NUMBER: P709290

CATALOG NUMBER: DL2W-BB-M-100U-050D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7
2.5°	1346.5	1347.9	1349.4	1345.7	1340.4	1340.0	1344.6	1348.5	1349.9	1351.3	1349.9
5°	1351.7	1352.6	1353.5	1347.4	1338.9	1337.4	1342.7	1347.0	1348.4	1349.7	1348.4
7.5°	1351.1	1352.9	1354.7	1349.6	1342.2	1340.3	1343.8	1346.8	1347.8	1348.9	1347.8
10°	1348.7	1350.5	1352.3	1347.7	1341.0	1340.4	1345.7	1349.7	1349.7	1349.7	1349.7
12.5°	1341.5	1344.0	1346.5	1343.2	1337.9	1339.7	1348.6	1354.9	1353.1	1351.3	1353.1
15°	1323.7	1326.8	1329.9	1330.4	1329.9	1336.4	1349.7	1358.4	1353.0	1347.7	1353.0
17.5°	1288.3	1293.0	1297.7	1302.0	1306.2	1317.4	1335.6	1347.5	1340.3	1333.1	1340.3
20°	1262.7	1266.7	1270.7	1276.7	1283.3	1296.7	1316.7	1329.8	1322.2	1314.7	1322.2
22.5°	1233.0	1237.4	1241.8	1247.1	1252.7	1266.0	1287.1	1301.1	1293.9	1286.7	1293.9
25°	1185.6	1188.3	1191.0	1196.0	1201.7	1213.7	1232.0	1244.4	1239.5	1234.6	1239.5
27.5°	1113.2	1117.6	1122.1	1127.7	1133.6	1144.5	1160.3	1171.6	1169.1	1166.6	1169.1
30°	1055.6	1061.8	1068.0	1074.6	1081.2	1091.2	1104.6	1114.6	1114.6	1114.6	1114.6
32.5°	996.3	1002.2	1008.1	1015.3	1023.1	1031.3	1040.0	1046.9	1048.3	1049.7	1048.3
35°	897.5	902.4	907.3	913.5	920.1	927.0	934.2	938.9	936.7	934.5	936.7
37.5°	770.6	774.0	777.4	783.9	791.6	799.1	806.4	811.3	809.2	807.0	809.2
40°	675.4	679.8	684.2	691.4	699.4	706.5	712.7	716.9	715.2	713.4	715.2
42.5°	573.7	579.6	585.4	593.4	602.2	609.5	615.3	617.3	607.7	598.1	607.7
45°	361.2	394.5	427.9	443.6	453.3	457.1	454.9	446.0	417.1	388.2	417.1
47.5°	170.1	203.1	236.1	268.8	301.4	307.2	286.1	262.8	232.5	202.3	232.5
50°	106.1	118.1	130.1	166.1	210.1	216.8	186.1	158.2	138.6	119.1	138.6
52.5°	71.6	77.6	83.6	111.1	145.9	148.3	118.3	93.7	85.2	76.6	85.2
55°	38.0	39.8	41.6	52.7	66.9	67.1	53.4	42.2	39.1	36.0	39.1
57.5°	14.6	17.2	19.8	24.7	30.5	30.5	24.6	19.5	16.4	13.4	16.4
60°	1.0	3.2	5.4	10.3	16.1	16.8	12.3	8.3	5.7	3.0	5.7
62.5°	0.2	0.6	1.1	4.5	8.8	9.1	5.4	2.4	1.5	0.6	1.5
65°	0.0	0.0	0.0	0.3	0.8	0.8	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°	5.6	5.8	5.8	5.2	5.2	5.0	4.2	3.4	2.0	0.8	1.8
90°	28.0	29.0	29.0	26.0	26.0	25.0	21.0	17.0	10.0	4.0	9.0
92.5°	34.4	33.8	33.8	32.4	30.8	28.2	23.4	22.6	24.4	15.2	25.8
95°	31.0	31.0	30.0	30.0	35.0	44.0	65.0	71.0	46.0	41.0	59.0
97.5°	71.0	75.6	84.2	97.2	119.4	127.4	117.8	88.8	84.0	81.0	107.8
100°	135.0	146.0	157.0	170.0	197.0	161.0	125.0	120.0	112.0	113.0	143.0
102.5°	235.8	236.4	241.0	246.0	193.8	171.4	165.8	159.2	146.4	146.6	177.4
105°	321.0	300.0	262.0	236.0	232.0	236.0	236.0	221.0	195.0	196.0	228.0
107.5°	309.8	307.4	309.0	310.0	316.4	317.8	309.2	282.2	255.4	249.8	282.2
110°	365.0	365.0	369.0	370.0	378.0	373.0	362.0	327.0	293.0	285.0	315.0

TEST NUMBER: P709290

CATALOG NUMBER: DL2W-BB-M-100U-050D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	425.0	425.8	427.4	432.4	436.4	429.0	411.6	373.4	334.6	318.6	347.8
115°	522.0	521.0	521.0	525.0	523.0	515.0	489.0	445.0	395.0	373.0	398.0
117.5°	614.2	609.2	610.4	608.8	611.8	595.8	565.2	511.4	457.8	427.2	445.6
120°	675.0	670.0	672.0	672.0	671.0	651.0	614.0	561.0	501.0	464.0	476.0
122.5°	734.2	730.8	731.2	728.8	726.2	707.0	663.6	608.2	542.6	496.8	504.0
125°	818.0	820.0	814.0	814.0	805.0	786.0	740.0	681.0	610.0	553.0	549.0
127.5°	897.2	900.0	894.0	890.4	883.4	854.8	812.8	753.6	677.4	610.4	594.4
130°	950.0	952.0	950.0	940.0	929.0	902.0	860.0	804.0	723.0	652.0	624.0
132.5°	1002.8	1007.2	997.2	989.6	973.0	945.2	904.0	849.6	768.6	691.2	656.0
135°	1079.0	1076.0	1066.0	1054.0	1037.0	1010.0	972.0	915.0	838.0	752.0	707.0
137.5°	1135.4	1135.8	1126.0	1112.8	1095.4	1070.2	1034.2	980.6	902.2	818.0	760.2
140°	1173.0	1171.0	1162.0	1148.0	1133.0	1107.0	1075.0	1023.0	943.0	862.0	797.0
142.5°	1199.4	1201.4	1194.0	1182.4	1165.0	1142.2	1109.4	1057.4	987.0	902.8	834.6
145°	1244.0	1244.0	1237.0	1229.0	1213.0	1187.0	1162.0	1111.0	1044.0	964.0	889.0
147.5°	1280.4	1281.0	1276.6	1267.2	1251.6	1229.2	1204.0	1158.4	1096.2	1022.2	949.4
150°	1302.0	1305.0	1299.0	1292.0	1278.0	1254.0	1232.0	1188.0	1129.0	1063.0	987.0
152.5°	1322.8	1326.6	1321.4	1312.8	1298.8	1274.8	1256.0	1212.8	1157.8	1096.6	1023.8
155°	1353.0	1356.0	1352.0	1344.0	1328.0	1306.0	1289.0	1249.0	1200.0	1144.0	1079.0
157.5°	1375.4	1380.2	1374.4	1367.2	1350.0	1330.6	1314.6	1277.4	1233.6	1186.8	1128.8
160°	1389.0	1393.0	1388.0	1380.0	1362.0	1345.0	1329.0	1295.0	1256.0	1210.0	1160.0
162.5°	1397.8	1404.2	1398.4	1389.6	1370.8	1354.6	1341.0	1308.6	1272.8	1234.0	1188.0
165°	1408.0	1413.0	1408.0	1399.0	1380.0	1366.0	1355.0	1327.0	1296.0	1264.0	1225.0
167.5°	1408.0	1414.2	1409.4	1401.6	1381.6	1370.8	1362.4	1339.0	1313.2	1286.6	1257.6
170°	1404.0	1411.0	1407.0	1400.0	1380.0	1370.0	1364.0	1343.0	1322.0	1301.0	1276.0
172.5°	1396.8	1403.8	1399.0	1392.8	1372.8	1366.0	1362.4	1345.4	1327.6	1310.6	1290.4
175°	1376.0	1385.0	1382.0	1375.0	1360.0	1355.0	1356.0	1344.0	1332.0	1322.0	1309.0
177.5°	1348.2	1354.6	1351.4	1349.8	1337.8	1336.2	1341.8	1336.2	1330.6	1326.6	1321.0
180°	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0

TEST NUMBER: P709290

CATALOG NUMBER: DL2W-BB-M-100U-050D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7	1345.7
2.5°	1348.5	1344.6	1340.0	1340.4	1345.7	1349.4	1347.9	1346.5
5°	1347.0	1342.7	1337.4	1338.9	1347.4	1353.5	1352.6	1351.7
7.5°	1346.8	1343.8	1340.3	1342.2	1349.6	1354.7	1352.9	1351.1
10°	1349.7	1345.7	1340.4	1341.0	1347.7	1352.3	1350.5	1348.7
12.5°	1354.9	1348.6	1339.7	1337.9	1343.2	1346.5	1344.0	1341.5
15°	1358.4	1349.7	1336.4	1329.9	1330.4	1329.9	1326.8	1323.7
17.5°	1347.5	1335.6	1317.4	1306.2	1302.0	1297.7	1293.0	1288.3
20°	1329.8	1316.7	1296.7	1283.3	1276.7	1270.7	1266.7	1262.7
22.5°	1301.1	1287.1	1266.0	1252.7	1247.1	1241.8	1237.4	1233.0
25°	1244.4	1232.0	1213.7	1201.7	1196.0	1191.0	1188.3	1185.6
27.5°	1171.6	1160.3	1144.5	1133.6	1127.7	1122.1	1117.6	1113.2
30°	1114.6	1104.6	1091.2	1081.2	1074.6	1068.0	1061.8	1055.6
32.5°	1046.9	1040.0	1031.3	1023.1	1015.3	1008.1	1002.2	996.3
35°	938.9	934.2	927.0	920.1	913.5	907.3	902.4	897.5
37.5°	811.3	806.4	799.1	791.6	783.9	777.4	774.0	770.6
40°	716.9	712.7	706.5	699.4	691.4	684.2	679.8	675.4
42.5°	617.3	615.3	609.5	602.2	593.4	585.4	579.6	573.7
45°	446.0	454.9	457.1	453.3	443.6	427.9	394.5	361.2
47.5°	262.8	286.1	307.2	301.4	268.8	236.1	203.1	170.1
50°	158.2	186.1	216.8	210.1	166.1	130.1	118.1	106.1
52.5°	93.7	118.3	148.3	145.9	111.1	83.6	77.6	71.6
55°	42.2	53.4	67.1	66.9	52.7	41.6	39.8	38.0
57.5°	19.5	24.6	30.5	30.5	24.7	19.8	17.2	14.6
60°	8.3	12.3	16.8	16.1	10.3	5.4	3.2	1.0
62.5°	2.4	5.4	9.1	8.8	4.5	1.1	0.6	0.2
65°	0.0	0.3	0.8	0.8	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°	3.2	4.6	6.2	8.4	10.0	11.2	11.8	12.6
90°	16.0	23.0	31.0	42.0	50.0	56.0	59.0	63.0
92.5°	36.8	51.0	62.2	75.6	90.0	97.6	102.2	103.8
95°	85.0	103.0	126.0	146.0	164.0	176.0	183.0	181.0
97.5°	131.8	165.4	191.6	214.8	235.8	250.2	261.6	260.6
100°	171.0	199.0	234.0	262.0	283.0	299.0	312.0	315.0
102.5°	210.2	236.6	274.8	306.0	330.2	347.8	357.6	367.0
105°	265.0	302.0	331.0	369.0	394.0	417.0	424.0	434.0
107.5°	322.4	363.0	395.2	426.8	456.4	475.6	490.6	498.6
110°	360.0	399.0	440.0	470.0	498.0	518.0	533.0	541.0

TEST NUMBER: P709290

CATALOG NUMBER: DL2W-BB-M-100U-050D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	393.6	436.6	480.8	514.0	539.6	562.8	575.4	584.2
115°	443.0	490.0	534.0	577.0	602.0	620.0	631.0	638.0
117.5°	488.2	537.2	580.0	623.4	654.6	667.8	672.0	677.2
120°	517.0	566.0	608.0	649.0	685.0	699.0	708.0	714.0
122.5°	542.6	591.6	636.0	674.6	709.0	728.6	739.2	746.8
125°	582.0	628.0	674.0	715.0	743.0	764.0	778.0	785.0
127.5°	615.2	659.4	706.6	746.0	776.2	798.4	810.0	815.4
130°	640.0	677.0	725.0	766.0	797.0	820.0	830.0	833.0
132.5°	664.0	693.8	739.4	782.8	813.8	834.4	845.2	848.2
135°	701.0	718.0	758.0	800.0	832.0	853.0	863.0	869.0
137.5°	741.8	746.2	771.0	812.2	845.2	865.4	875.4	879.0
140°	769.0	767.0	783.0	817.0	850.0	871.0	881.0	883.0
142.5°	797.8	789.4	795.0	822.6	852.4	872.6	883.4	886.2
145°	846.0	828.0	821.0	835.0	857.0	874.0	886.0	888.0
147.5°	897.8	868.8	853.0	855.6	867.6	879.6	889.0	889.2
150°	933.0	900.0	877.0	874.0	878.0	886.0	893.0	894.0
152.5°	966.6	931.2	903.4	895.6	893.2	898.0	901.0	901.2
155°	1023.0	985.0	949.0	932.0	925.0	923.0	922.0	919.0
157.5°	1076.4	1036.0	996.2	977.8	966.6	960.4	955.8	952.6
160°	1110.0	1068.0	1029.0	1009.0	997.0	990.0	983.0	979.0
162.5°	1144.4	1104.8	1065.0	1041.8	1029.8	1022.0	1014.2	1007.8
165°	1190.0	1157.0	1117.0	1092.0	1077.0	1072.0	1065.0	1060.0
167.5°	1230.0	1204.4	1168.6	1145.0	1133.6	1124.4	1117.4	1108.4
170°	1254.0	1234.0	1199.0	1177.0	1172.0	1162.0	1155.0	1146.0
172.5°	1273.2	1257.2	1229.4	1211.4	1207.2	1201.2	1195.8	1188.4
175°	1299.0	1291.0	1270.0	1257.0	1257.0	1255.0	1254.0	1245.0
177.5°	1317.0	1313.0	1301.0	1294.6	1300.2	1301.8	1297.8	1290.6
180°	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0

(END OF REPORT)