

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: P709373

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

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709373  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, G3-2104-222-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-WB-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**

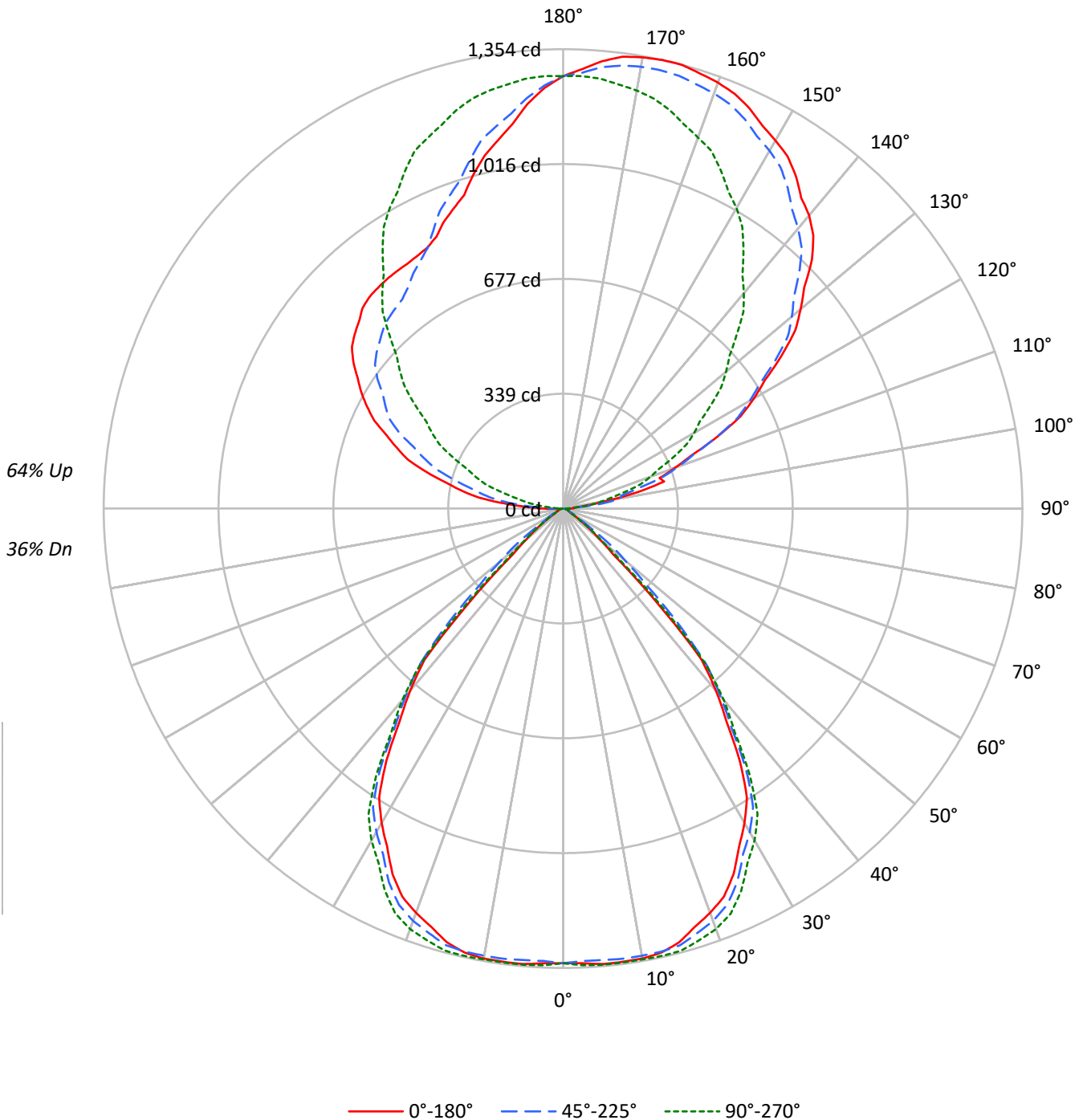
Lumens per Lamp: N/A  
Luminaire Lumens: 5836.6 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.17  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

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



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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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36
1	96	92	89	86	87	84	81	79	68	66	65	54	52	51	40	40	39	33
2	88	82	77	72	80	75	70	67	61	58	56	49	47	45	37	36	35	30
3	82	73	67	62	74	67	62	57	55	52	48	44	42	40	34	33	32	27
4	75	66	59	54	68	60	54	50	50	46	43	40	38	35	32	30	28	25
5	70	59	52	47	63	55	48	44	45	41	38	37	34	32	29	27	26	22
6	65	54	46	41	59	49	43	39	41	37	33	34	31	28	27	25	23	20
7	60	49	42	37	55	45	39	34	38	33	30	31	28	26	25	23	21	19
8	56	45	38	33	51	41	35	31	35	30	27	29	26	23	23	21	19	17
9	52	41	34	29	48	38	32	28	32	28	24	27	23	21	22	19	18	16
10	49	38	31	27	45	35	29	25	30	25	22	25	22	19	20	18	16	14

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	21632	21632	21632	21632	21632
5°	21840	21644	21870	21644	21840
10°	22076	21940	22123	21940	22076
15°	22121	22272	22539	22272	22121
20°	21780	22215	22656	22215	21780
25°	21178	21643	22137	21643	21178
30°	19939	20517	21052	20517	19939
35°	17895	18557	18920	18557	17895
40°	14779	15220	15548	15220	14779
45°	8873	10988	9839	10988	8873
50°	3504	6059	3818	6059	3504
55°	1869	2749	1841	2749	1869
60°	807	1371	869	1371	807
65°	734	833	772	833	734
70°	727	779	774	779	727
75°	661	774	717	774	661
80°	623	716	716	716	623
85°	537	704	704	704	537

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 60°  
 Vertical Angle: 45°  
 Luminance: 11061 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.3	2.2
10°-20°	376.4	6.4
20°-30°	557.4	9.6
30°-40°	577.4	9.9
40°-50°	347.0	5.9
50°-60°	82.9	1.4
60°-70°	22.6	0.4
70°-80°	12.6	0.2
80°-90°	9.3	0.2
90°-100°	101.4	1.7
100°-110°	296.2	5.1
110°-120°	483.0	8.3
120°-130°	612.9	10.5
130°-140°	655.7	11.2
140°-150°	612.2	10.5
150°-160°	503.7	8.6
160°-170°	337.8	5.8
170°-180°	120.0	2.1
0°-30°	1062.1	18.2
0°-40°	1639.5	28.1
0°-60°	2069.4	35.5
0°-90°	2113.9	36.2
90°-120°	880.5	15.1
90°-150°	2761.2	47.3
90°-180°	3723.0	63.8
0°-180°	5836.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1340	1340	1340	1340	1340	
5°	1348	1335	1349	1335	1348	129
15°	1323	1332	1348	1332	1323	372
25°	1189	1215	1243	1215	1189	543
35°	908	942	960	942	908	559
45°	389	481	431	481	389	306
55°	66	98	65	98	66	64
65°	19	22	20	22	19	20
75°	11	12	12	12	11	12
85°	3	4	4	4	3	4
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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8
2.5°	1341.3	1342.7	1344.1	1340.3	1334.8	1334.5	1339.3	1343.4	1345.4	1347.5	1345.4
5°	1347.5	1348.3	1349.2	1343.6	1335.9	1334.9	1340.4	1345.1	1347.3	1349.4	1347.3
7.5°	1347.3	1348.6	1349.9	1345.4	1339.0	1338.1	1342.8	1346.7	1348.0	1349.4	1348.0
10°	1346.5	1347.8	1349.1	1344.6	1338.2	1338.2	1344.6	1349.4	1349.4	1349.4	1349.4
12.5°	1340.4	1342.3	1344.3	1341.3	1336.6	1338.6	1347.4	1353.6	1351.9	1350.2	1351.9
15°	1323.4	1326.4	1329.4	1329.8	1329.4	1335.4	1347.8	1356.1	1352.3	1348.4	1352.3
17.5°	1292.3	1296.4	1300.5	1304.0	1307.3	1317.6	1334.7	1346.0	1340.0	1334.0	1340.0
20°	1267.6	1271.1	1274.5	1280.2	1286.6	1299.2	1318.0	1330.6	1324.6	1318.6	1324.6
22.5°	1238.4	1242.2	1245.9	1251.4	1257.5	1270.6	1290.8	1304.3	1298.0	1291.7	1298.0
25°	1188.8	1192.2	1195.6	1201.6	1208.4	1221.3	1240.1	1252.9	1247.8	1242.6	1247.8
27.5°	1123.4	1127.1	1130.9	1136.7	1143.1	1154.4	1170.6	1182.2	1179.9	1177.6	1179.9
30°	1069.5	1074.6	1079.8	1087.2	1095.3	1105.7	1118.6	1128.3	1128.7	1129.2	1128.7
32.5°	1008.7	1015.6	1022.4	1030.0	1037.7	1047.5	1059.3	1068.0	1067.4	1066.8	1067.4
35°	907.9	915.2	922.5	930.1	937.8	945.2	952.5	958.2	959.0	959.9	959.0
37.5°	791.2	794.0	796.8	803.7	812.0	820.1	827.9	833.5	832.9	832.3	832.9
40°	701.2	701.6	702.0	708.8	717.8	726.4	734.5	740.3	739.0	737.7	739.0
42.5°	605.0	606.8	608.6	616.0	625.3	633.0	639.1	641.3	631.8	622.3	631.8
45°	388.6	420.2	451.8	467.8	478.4	484.0	484.4	478.8	454.8	430.9	454.8
47.5°	203.3	234.5	265.7	297.3	329.0	336.5	319.6	299.5	269.6	239.7	269.6
50°	139.5	150.1	160.8	195.2	237.6	244.8	217.0	191.3	171.6	152.0	171.6
52.5°	101.8	108.3	114.9	141.6	175.1	178.1	150.6	127.6	117.9	108.1	117.9
55°	66.4	68.1	69.8	81.8	97.1	98.2	85.0	74.0	69.7	65.4	69.7
57.5°	39.6	43.2	46.8	52.3	58.3	58.5	52.8	47.5	43.8	40.0	43.8
60°	25.0	27.6	30.1	35.6	42.0	42.9	38.2	33.8	30.4	26.9	30.4
62.5°	22.7	23.6	24.4	28.1	32.9	33.2	29.2	25.9	24.9	23.9	24.9
65°	19.2	19.7	20.1	20.8	21.7	21.9	21.5	21.1	20.6	20.2	20.6
67.5°	16.9	17.4	17.8	18.1	18.5	18.7	18.8	18.7	18.3	17.9	18.3
70°	15.4	15.8	16.2	16.4	16.4	16.6	17.0	17.2	16.8	16.4	16.8
72.5°	13.8	13.9	14.0	14.3	14.6	14.9	14.9	15.0	14.9	14.8	14.9
75°	10.6	11.0	11.4	11.9	12.3	12.5	12.5	12.4	12.0	11.5	12.0
77.5°	8.3	8.7	9.1	9.2	9.2	9.4	9.7	9.9	9.6	9.2	9.6
80°	6.7	7.2	7.6	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
82.5°	5.2	5.6	6.0	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
85°	2.9	3.3	3.7	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
87.5°	6.2	6.3	6.3	6.0	6.4	6.3	5.6	4.8	3.5	2.3	3.3
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

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**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

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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8	1339.8
2.5°	1343.4	1339.3	1334.5	1334.8	1340.3	1344.1	1342.7	1341.3
5°	1345.1	1340.4	1334.9	1335.9	1343.6	1349.2	1348.3	1347.5
7.5°	1346.7	1342.8	1338.1	1339.0	1345.4	1349.9	1348.6	1347.3
10°	1349.4	1344.6	1338.2	1338.2	1344.6	1349.1	1347.8	1346.5
12.5°	1353.6	1347.4	1338.6	1336.6	1341.3	1344.3	1342.3	1340.4
15°	1356.1	1347.8	1335.4	1329.4	1329.8	1329.4	1326.4	1323.4
17.5°	1346.0	1334.7	1317.6	1307.3	1304.0	1300.5	1296.4	1292.3
20°	1330.6	1318.0	1299.2	1286.6	1280.2	1274.5	1271.1	1267.6
22.5°	1304.3	1290.8	1270.6	1257.5	1251.4	1245.9	1242.2	1238.4
25°	1252.9	1240.1	1221.3	1208.4	1201.6	1195.6	1192.2	1188.8
27.5°	1182.2	1170.6	1154.4	1143.1	1136.7	1130.9	1127.1	1123.4
30°	1128.3	1118.6	1105.7	1095.3	1087.2	1079.8	1074.6	1069.5
32.5°	1068.0	1059.3	1047.5	1037.7	1030.0	1022.4	1015.6	1008.7
35°	958.2	952.5	945.2	937.8	930.1	922.5	915.2	907.9
37.5°	833.5	827.9	820.1	812.0	803.7	796.8	794.0	791.2
40°	740.3	734.5	726.4	717.8	708.8	702.0	701.6	701.2
42.5°	641.3	639.1	633.0	625.3	616.0	608.6	606.8	605.0
45°	478.8	484.4	484.0	478.4	467.8	451.8	420.2	388.6
47.5°	299.5	319.6	336.5	329.0	297.3	265.7	234.5	203.3
50°	191.3	217.0	244.8	237.6	195.2	160.8	150.1	139.5
52.5°	127.6	150.6	178.1	175.1	141.6	114.9	108.3	101.8
55°	74.0	85.0	98.2	97.1	81.8	69.8	68.1	66.4
57.5°	47.5	52.8	58.5	58.3	52.3	46.8	43.2	39.6
60°	33.8	38.2	42.9	42.0	35.6	30.1	27.6	25.0
62.5°	25.9	29.2	33.2	32.9	28.1	24.4	23.6	22.7
65°	21.1	21.5	21.9	21.7	20.8	20.1	19.7	19.2
67.5°	18.7	18.8	18.7	18.5	18.1	17.8	17.4	16.9
70°	17.2	17.0	16.6	16.4	16.4	16.2	15.8	15.4
72.5°	15.0	14.9	14.9	14.6	14.3	14.0	13.9	13.8
75°	12.4	12.5	12.5	12.3	11.9	11.4	11.0	10.6
77.5°	9.9	9.7	9.4	9.2	9.2	9.1	8.7	8.3
80°	7.7	7.7	7.7	7.7	7.7	7.6	7.2	6.7
82.5°	6.2	6.2	6.2	6.2	6.2	6.0	5.6	5.2
85°	3.8	3.8	3.8	3.8	3.8	3.7	3.3	2.9
87.5°	4.6	6.0	7.5	9.4	10.6	11.5	12.1	12.9
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: P709373

CATALOG NUMBER: DL2W-WB-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)