

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: P709295

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

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709295  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, G3-2104-222-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-BB-M-100U-100D-930-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1000 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

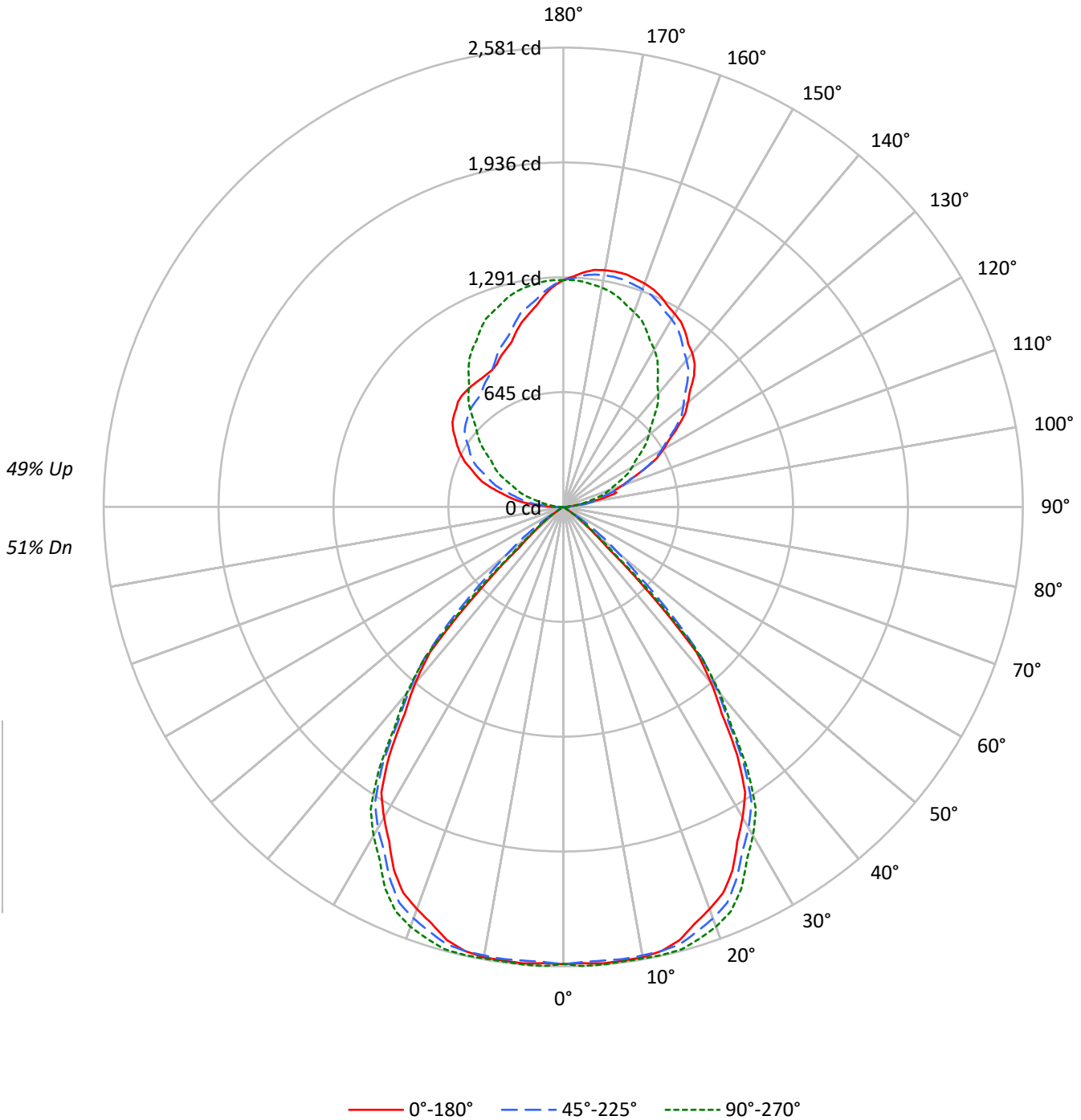
Lumens per Lamp: N/A  
Luminaire Lumens: 7569.7 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.16  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 71.2  
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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CATALOG NUMBER: DL2W-BB-M-100U-100D-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	0
RCR																		
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	100	96	93	90	92	89	87	84	76	75	73	64	63	62	53	53	52	47
2	93	87	82	77	86	81	76	73	69	66	64	59	57	55	50	48	47	43
3	86	78	72	67	80	73	68	63	63	59	56	54	52	49	46	44	43	39
4	80	71	64	59	74	66	60	56	58	53	50	50	47	44	43	40	39	35
5	74	64	57	52	69	60	54	49	53	48	45	46	42	40	39	37	35	32
6	69	58	51	46	64	55	49	44	48	44	40	42	39	36	37	34	32	29
7	64	53	46	41	60	50	44	40	45	40	36	39	35	33	34	31	29	27
8	60	49	42	37	56	46	40	36	41	36	33	36	33	30	32	29	27	25
9	56	45	38	34	53	43	37	33	38	33	30	34	30	27	30	27	25	23
10	53	42	35	31	49	40	34	30	35	31	27	31	28	25	28	25	23	21

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

	0°	45°	90°	135°	180°
0°	41463	41463	41463	41463	41463
5°	41715	41467	41823	41467	41715
10°	42119	41946	42228	41946	42119
15°	42121	42487	43005	42487	42121
20°	41297	42264	43115	42264	41297
25°	40093	41033	42150	41033	40093
30°	37545	38823	39733	38823	37545
35°	33567	34924	35597	34924	33567
40°	27276	28364	28877	28364	27276
45°	15773	19799	17575	19799	15773
50°	5124	10353	5606	10353	5124
55°	2004	3689	1951	3689	2004
60°	32	1019	155	1019	32
65°	0	65	0	65	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: 19877 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.4	3.2
10°-20°	717.7	9.5
20°-30°	1057.9	14.0
30°-40°	1083.3	14.3
40°-50°	624.2	8.2
50°-60°	109.2	1.4
60°-70°	4.2	0.1
70°-80°	0.0	0.0
80°-90°	6.8	0.1
90°-100°	101.4	1.3
100°-110°	296.2	3.9
110°-120°	483.0	6.4
120°-130°	612.9	8.1
130°-140°	655.7	8.7
140°-150°	612.2	8.1
150°-160°	503.7	6.7
160°-170°	337.8	4.5
170°-180°	120.0	1.6
0°-30°	2021.0	26.7
0°-40°	3104.3	41.0
0°-60°	3837.6	50.7
0°-90°	3848.6	50.8
90°-120°	880.5	11.6
90°-150°	2761.2	36.5
90°-180°	3723.0	49.2
0°-180°	7569.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2568	2568	2568	2568	2568	
5°	2574	2558	2580	2558	2574	245
15°	2520	2542	2573	2542	2520	707
25°	2250	2303	2366	2303	2250	1027
35°	1703	1772	1806	1772	1703	1046
45°	691	867	770	867	691	543
55°	71	131	69	131	71	73
65°	0	2	0	2	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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0
2.5°	2565.7	2569.8	2573.9	2568.0	2558.8	2558.6	2567.5	2574.9	2578.0	2581.1	2578.0
5°	2573.8	2578.1	2582.3	2573.1	2559.5	2557.5	2567.4	2575.4	2578.0	2580.5	2578.0
7.5°	2570.5	2575.4	2580.3	2573.4	2562.6	2561.0	2568.7	2574.5	2575.1	2575.7	2575.1
10°	2569.0	2572.8	2576.7	2569.3	2558.2	2558.8	2571.2	2580.0	2577.8	2575.7	2577.8
12.5°	2555.1	2560.7	2566.2	2561.1	2552.4	2556.9	2574.8	2587.0	2582.1	2577.2	2582.1
15°	2519.9	2526.7	2533.6	2535.3	2535.3	2548.3	2574.4	2591.6	2582.2	2572.8	2582.2
17.5°	2455.1	2464.2	2473.4	2482.1	2490.8	2511.5	2544.3	2566.2	2555.1	2544.0	2555.1
20°	2403.5	2413.3	2423.2	2434.9	2447.3	2472.3	2510.0	2535.0	2522.1	2509.3	2522.1
22.5°	2347.3	2357.1	2367.0	2380.0	2394.1	2420.3	2458.6	2484.3	2471.8	2459.3	2471.8
25°	2250.5	2261.6	2272.7	2282.3	2291.2	2315.4	2354.7	2382.2	2374.1	2366.0	2374.1
27.5°	2117.7	2127.7	2137.7	2152.0	2167.8	2190.9	2221.4	2243.1	2238.4	2233.6	2238.4
30°	2013.8	2026.2	2038.6	2054.5	2071.6	2093.2	2119.3	2138.0	2134.6	2131.2	2134.6
32.5°	1901.4	1913.1	1924.9	1940.9	1958.3	1976.5	1995.4	2009.9	2011.3	2012.7	2011.3
35°	1703.0	1715.9	1728.7	1746.0	1764.8	1778.9	1788.3	1796.6	1801.3	1806.0	1801.3
37.5°	1461.9	1475.3	1488.8	1504.3	1520.6	1533.4	1542.8	1550.1	1550.9	1551.8	1550.9
40°	1294.1	1303.1	1312.1	1325.2	1339.8	1351.7	1361.1	1368.4	1369.3	1370.1	1369.3
42.5°	1107.8	1113.4	1119.0	1133.8	1151.8	1166.5	1177.9	1182.5	1166.2	1150.0	1166.2
45°	690.8	753.7	816.6	845.7	863.7	870.5	866.3	852.7	811.2	769.7	811.2
47.5°	327.9	394.0	460.1	520.3	578.6	588.6	550.5	508.0	452.6	397.2	452.6
50°	204.0	226.6	249.3	319.4	405.4	418.9	359.8	305.3	264.3	223.2	264.3
52.5°	137.0	148.4	159.8	212.7	279.5	285.6	231.0	185.2	165.3	145.5	165.3
55°	71.2	74.6	78.0	101.0	130.5	131.6	104.2	82.1	75.7	69.3	75.7
57.5°	24.1	30.8	37.6	47.3	58.1	58.0	47.0	37.1	31.0	24.8	31.0
60°	1.0	5.7	10.4	19.9	31.0	32.1	23.1	15.1	9.9	4.8	9.9
62.5°	1.0	1.9	2.8	9.1	17.1	17.5	10.3	4.5	3.1	1.7	3.1
65°	0.0	0.4	0.9	1.3	1.7	1.7	1.3	0.9	0.4	0.0	0.4
67.5°	0.0	0.0	0.0	0.3	0.6	0.8	0.8	0.7	0.3	0.0	0.3
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

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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°	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0	2568.0
2.5°	2574.9	2567.5	2558.6	2558.8	2568.0	2573.9	2569.8	2565.7
5°	2575.4	2567.4	2557.5	2559.5	2573.1	2582.3	2578.1	2573.8
7.5°	2574.5	2568.7	2561.0	2562.6	2573.4	2580.3	2575.4	2570.5
10°	2580.0	2571.2	2558.8	2558.2	2569.3	2576.7	2572.8	2569.0
12.5°	2587.0	2574.8	2556.9	2552.4	2561.1	2566.2	2560.7	2555.1
15°	2591.6	2574.4	2548.3	2535.3	2535.3	2533.6	2526.7	2519.9
17.5°	2566.2	2544.3	2511.5	2490.8	2482.1	2473.4	2464.2	2455.1
20°	2535.0	2510.0	2472.3	2447.3	2434.9	2423.2	2413.3	2403.5
22.5°	2484.3	2458.6	2420.3	2394.1	2380.0	2367.0	2357.1	2347.3
25°	2382.2	2354.7	2315.4	2291.2	2282.3	2272.7	2261.6	2250.5
27.5°	2243.1	2221.4	2190.9	2167.8	2152.0	2137.7	2127.7	2117.7
30°	2138.0	2119.3	2093.2	2071.6	2054.5	2038.6	2026.2	2013.8
32.5°	2009.9	1995.4	1976.5	1958.3	1940.9	1924.9	1913.1	1901.4
35°	1796.6	1788.3	1778.9	1764.8	1746.0	1728.7	1715.9	1703.0
37.5°	1550.1	1542.8	1533.4	1520.6	1504.3	1488.8	1475.3	1461.9
40°	1368.4	1361.1	1351.7	1339.8	1325.2	1312.1	1303.1	1294.1
42.5°	1182.5	1177.9	1166.5	1151.8	1133.8	1119.0	1113.4	1107.8
45°	852.7	866.3	870.5	863.7	845.7	816.6	753.7	690.8
47.5°	508.0	550.5	588.6	578.6	520.3	460.1	394.0	327.9
50°	305.3	359.8	418.9	405.4	319.4	249.3	226.6	204.0
52.5°	185.2	231.0	285.6	279.5	212.7	159.8	148.4	137.0
55°	82.1	104.2	131.6	130.5	101.0	78.0	74.6	71.2
57.5°	37.1	47.0	58.0	58.1	47.3	37.6	30.8	24.1
60°	15.1	23.1	32.1	31.0	19.9	10.4	5.7	1.0
62.5°	4.5	10.3	17.5	17.1	9.1	2.8	1.9	1.0
65°	0.9	1.3	1.7	1.7	1.3	0.9	0.4	0.0
67.5°	0.7	0.8	0.8	0.6	0.3	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: P709295

CATALOG NUMBER: DL2W-BB-M-100U-100D-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)