

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: P709299

Luminaire Tested: DL2W-BB-M-100U-125D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709299  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, G3-2104-222-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-BB-M-100U-125D-935-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8859.0 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: General Diffuse

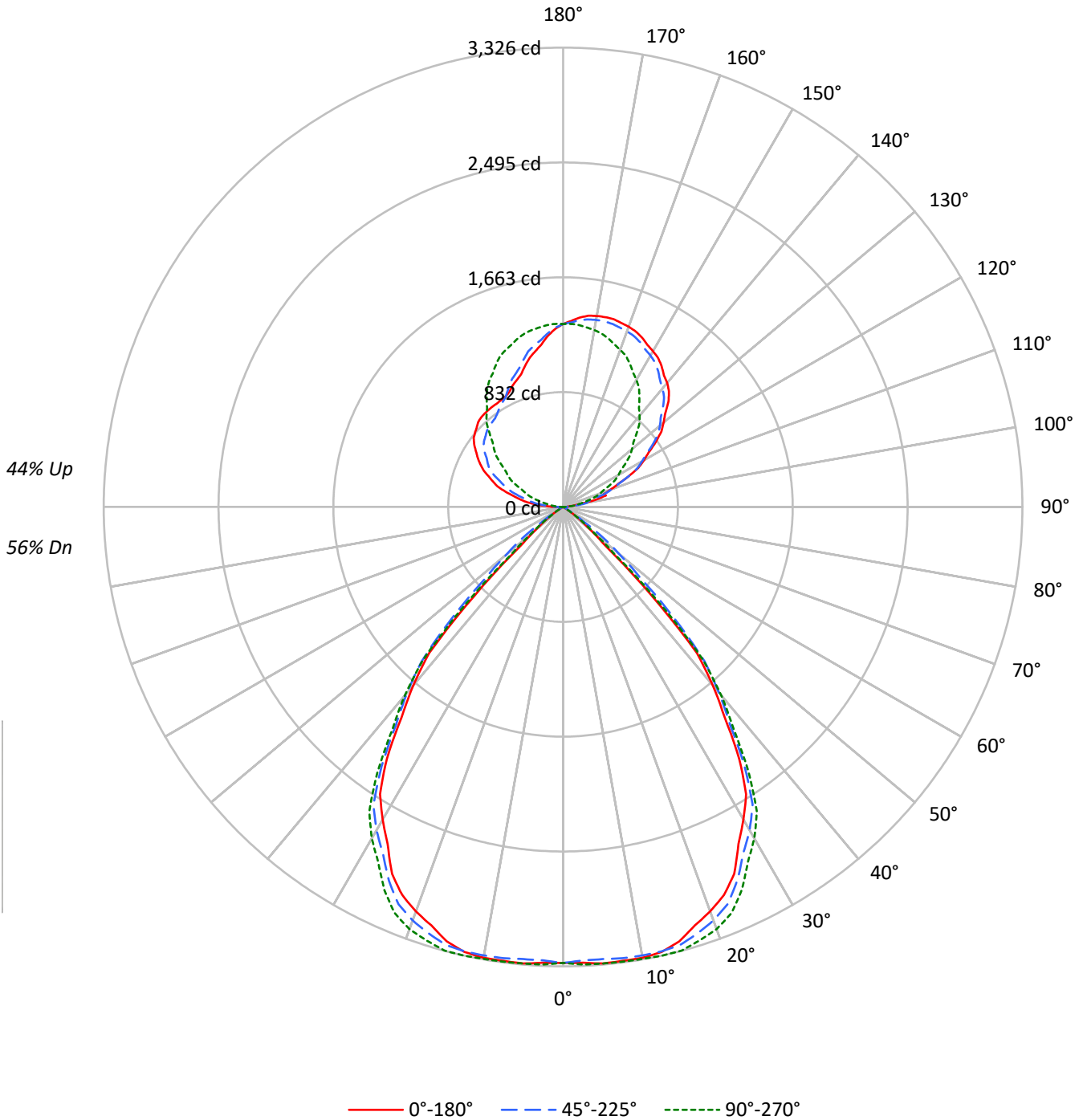
Input Watts (W): 82.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	101	98	95	92	94	91	89	86	79	78	76	68	67	66	58	57	57	52
2	94	88	83	79	88	83	78	75	72	69	67	63	61	59	54	53	51	47
3	88	80	74	69	82	75	70	65	66	62	59	58	55	53	50	48	47	43
4	81	72	66	61	76	68	62	58	60	56	52	53	50	47	46	44	42	39
5	76	66	59	54	71	62	56	51	55	51	47	49	45	43	43	41	38	36
6	71	60	53	48	66	57	51	46	51	46	42	45	42	39	40	37	35	33
7	66	55	48	43	62	52	46	41	47	42	38	42	38	35	37	34	32	30
8	62	51	44	39	58	48	42	38	43	38	35	39	35	32	35	32	29	27
9	58	47	40	35	54	44	38	34	40	35	32	36	32	29	32	29	27	25
10	54	43	37	32	51	41	35	31	37	32	29	34	30	27	30	27	25	23

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

	0°	45°	90°	135°	180°
0°	53294	53294	53294	53294	53294
5°	53772	53251	53772	53251	53772
10°	54344	54056	54459	54056	54344
15°	54407	54859	55557	54859	54407
20°	53527	54727	55874	54727	53527
25°	52212	53168	54523	53168	52212
30°	48692	50363	51630	50363	48692
35°	43832	45136	46172	45136	43832
40°	35542	37006	37601	37006	35542
45°	20676	25872	22952	25872	20676
50°	6589	13354	7490	13354	6589
55°	2638	4650	2553	4650	2638
60°	65	1277	194	1277	65
65°	0	69	38	69	0
70°	0	42	0	42	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: 60°  
 Vertical Angle: 45°  
 Luminance: 26078 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.9	3.6
10°-20°	927.6	10.5
20°-30°	1370.9	15.5
30°-40°	1408.8	15.9
40°-50°	813.7	9.2
50°-60°	140.8	1.6
60°-70°	5.3	0.1
70°-80°	0.1	0.0
80°-90°	7.1	0.1
90°-100°	105.4	1.2
100°-110°	307.9	3.5
110°-120°	502.1	5.7
120°-130°	637.2	7.2
130°-140°	681.7	7.7
140°-150°	636.5	7.2
150°-160°	523.7	5.9
160°-170°	351.2	4.0
170°-180°	124.7	1.4
0°-30°	2614.3	29.5
0°-40°	4023.1	45.4
0°-60°	4977.6	56.2
0°-90°	4990.0	56.3
90°-120°	915.4	10.3
90°-150°	2870.9	32.4
90°-180°	3870.0	43.7
0°-180°	8859.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3301	3301	3301	3301	3301	
5°	3318	3286	3318	3286	3318	316
15°	3255	3282	3324	3282	3255	914
25°	2931	2984	3060	2984	2931	1334
35°	2224	2290	2342	2290	2224	1364
45°	906	1133	1005	1133	906	704
55°	94	165	91	165	94	95
65°	0	2	1	2	0	1
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	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3300.8	3300.8	3300.8	3300.8	3300.8	3300.8	3300.8	3300.8	3300.8	3300.8	3300.8
2.5°	3303.2	3306.4	3309.6	3300.3	3286.8	3285.9	3297.6	3307.4	3311.7	3315.9	3311.7
5°	3317.7	3320.8	3323.9	3308.8	3287.5	3283.7	3297.5	3308.9	3313.3	3317.7	3313.3
7.5°	3314.7	3319.7	3324.7	3313.3	3296.6	3294.1	3305.9	3315.4	3318.2	3320.9	3318.2
10°	3314.7	3318.3	3321.8	3311.8	3297.1	3297.1	3311.8	3322.6	3322.2	3321.7	3322.2
12.5°	3299.6	3305.6	3311.6	3304.3	3292.5	3297.7	3319.7	3335.2	3330.9	3326.5	3330.9
15°	3254.9	3265.5	3276.2	3276.8	3274.2	3289.7	3323.4	3345.9	3334.8	3323.7	3334.8
17.5°	3175.9	3189.2	3202.5	3213.5	3223.7	3250.4	3293.7	3322.1	3306.2	3290.2	3306.2
20°	3115.3	3128.6	3141.9	3155.5	3169.3	3201.0	3250.6	3283.8	3267.9	3251.9	3267.9
22.5°	3041.9	3054.1	3066.4	3080.8	3096.0	3130.1	3183.3	3218.9	3201.5	3184.1	3201.5
25°	2930.8	2935.7	2940.6	2953.1	2968.2	3000.7	3050.8	3085.3	3072.9	3060.5	3072.9
27.5°	2750.5	2762.0	2773.4	2791.1	2810.8	2840.0	2878.7	2906.6	2902.1	2897.7	2902.1
30°	2611.7	2628.1	2644.5	2665.6	2688.2	2714.5	2744.7	2767.5	2768.4	2769.3	2768.4
32.5°	2466.5	2483.3	2500.0	2520.1	2541.3	2567.1	2597.6	2619.4	2614.9	2610.5	2614.9
35°	2223.8	2236.6	2249.5	2264.3	2279.9	2300.0	2324.8	2343.3	2342.9	2342.5	2342.9
37.5°	1922.4	1929.7	1937.0	1954.6	1975.7	1994.8	2011.9	2025.3	2027.5	2029.7	2027.5
40°	1686.3	1694.3	1702.2	1722.2	1746.1	1765.4	1780.0	1790.2	1787.1	1784.0	1787.1
42.5°	1435.8	1445.5	1455.3	1478.9	1507.1	1526.5	1537.2	1540.2	1519.7	1499.2	1519.7
45°	905.5	983.9	1062.4	1100.9	1126.2	1139.9	1142.1	1128.4	1066.8	1005.2	1066.8
47.5°	413.0	505.1	597.2	675.5	749.2	764.2	720.6	668.6	591.5	514.4	591.5
50°	262.3	288.4	314.6	407.2	522.0	541.3	465.0	395.7	346.9	298.2	346.9
52.5°	174.5	189.7	204.8	276.4	366.7	373.9	298.0	235.3	212.1	188.9	212.1
55°	93.7	98.2	102.6	130.0	165.0	165.4	131.3	104.0	97.4	90.7	97.4
57.5°	35.5	42.2	49.0	60.8	74.2	74.0	60.1	47.8	40.5	33.1	40.5
60°	2.0	7.3	12.6	24.6	38.8	40.3	29.3	19.3	12.6	6.0	12.6
62.5°	1.2	2.3	3.3	11.3	21.6	22.1	12.8	5.4	3.7	2.0	3.7
65°	0.0	0.4	0.9	1.3	1.8	1.8	1.3	1.0	1.0	1.0	1.0
67.5°	0.0	0.0	0.0	0.3	0.8	1.0	1.0	0.9	0.4	0.0	0.4
70°	0.0	0.0	0.0	0.3	0.8	1.0	1.0	0.9	0.4	0.0	0.4
72.5°	0.0	0.0	0.0	0.1	0.2	0.2	0.2	0.2	0.1	0.0	0.1
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

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**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

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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3300.8	3300.8	3300.8	3300.8	3300.8	3300.8	3300.8	3300.8
2.5°	3307.4	3297.6	3285.9	3286.8	3300.3	3309.6	3306.4	3303.2
5°	3308.9	3297.5	3283.7	3287.5	3308.8	3323.9	3320.8	3317.7
7.5°	3315.4	3305.9	3294.1	3296.6	3313.3	3324.7	3319.7	3314.7
10°	3322.6	3311.8	3297.1	3297.1	3311.8	3321.8	3318.3	3314.7
12.5°	3335.2	3319.7	3297.7	3292.5	3304.3	3311.6	3305.6	3299.6
15°	3345.9	3323.4	3289.7	3274.2	3276.8	3276.2	3265.5	3254.9
17.5°	3322.1	3293.7	3250.4	3223.7	3213.5	3202.5	3189.2	3175.9
20°	3283.8	3250.6	3201.0	3169.3	3155.5	3141.9	3128.6	3115.3
22.5°	3218.9	3183.3	3130.1	3096.0	3080.8	3066.4	3054.1	3041.9
25°	3085.3	3050.8	3000.7	2968.2	2953.1	2940.6	2935.7	2930.8
27.5°	2906.6	2878.7	2840.0	2810.8	2791.1	2773.4	2762.0	2750.5
30°	2767.5	2744.7	2714.5	2688.2	2665.6	2644.5	2628.1	2611.7
32.5°	2619.4	2597.6	2567.1	2541.3	2520.1	2500.0	2483.3	2466.5
35°	2343.3	2324.8	2300.0	2279.9	2264.3	2249.5	2236.6	2223.8
37.5°	2025.3	2011.9	1994.8	1975.7	1954.6	1937.0	1929.7	1922.4
40°	1790.2	1780.0	1765.4	1746.1	1722.2	1702.2	1694.3	1686.3
42.5°	1540.2	1537.2	1526.5	1507.1	1478.9	1455.3	1445.5	1435.8
45°	1128.4	1142.1	1139.9	1126.2	1100.9	1062.4	983.9	905.5
47.5°	668.6	720.6	764.2	749.2	675.5	597.2	505.1	413.0
50°	395.7	465.0	541.3	522.0	407.2	314.6	288.4	262.3
52.5°	235.3	298.0	373.9	366.7	276.4	204.8	189.7	174.5
55°	104.0	131.3	165.4	165.0	130.0	102.6	98.2	93.7
57.5°	47.8	60.1	74.0	74.2	60.8	49.0	42.2	35.5
60°	19.3	29.3	40.3	38.8	24.6	12.6	7.3	2.0
62.5°	5.4	12.8	22.1	21.6	11.3	3.3	2.3	1.2
65°	1.0	1.3	1.8	1.8	1.3	0.9	0.4	0.0
67.5°	0.9	1.0	1.0	0.8	0.3	0.0	0.0	0.0
70°	0.9	1.0	1.0	0.8	0.3	0.0	0.0	0.0
72.5°	0.2	0.2	0.2	0.2	0.1	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: P709299

CATALOG NUMBER: DL2W-BB-M-100U-125D-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)