

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: P709382

Luminaire Tested: DL2W-WB-M-100U-125D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709382
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, G3-2104-222-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-100U-125D-930-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: 8959.1 lumens
Efficiency: N/A
Efficacy: 108.2 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

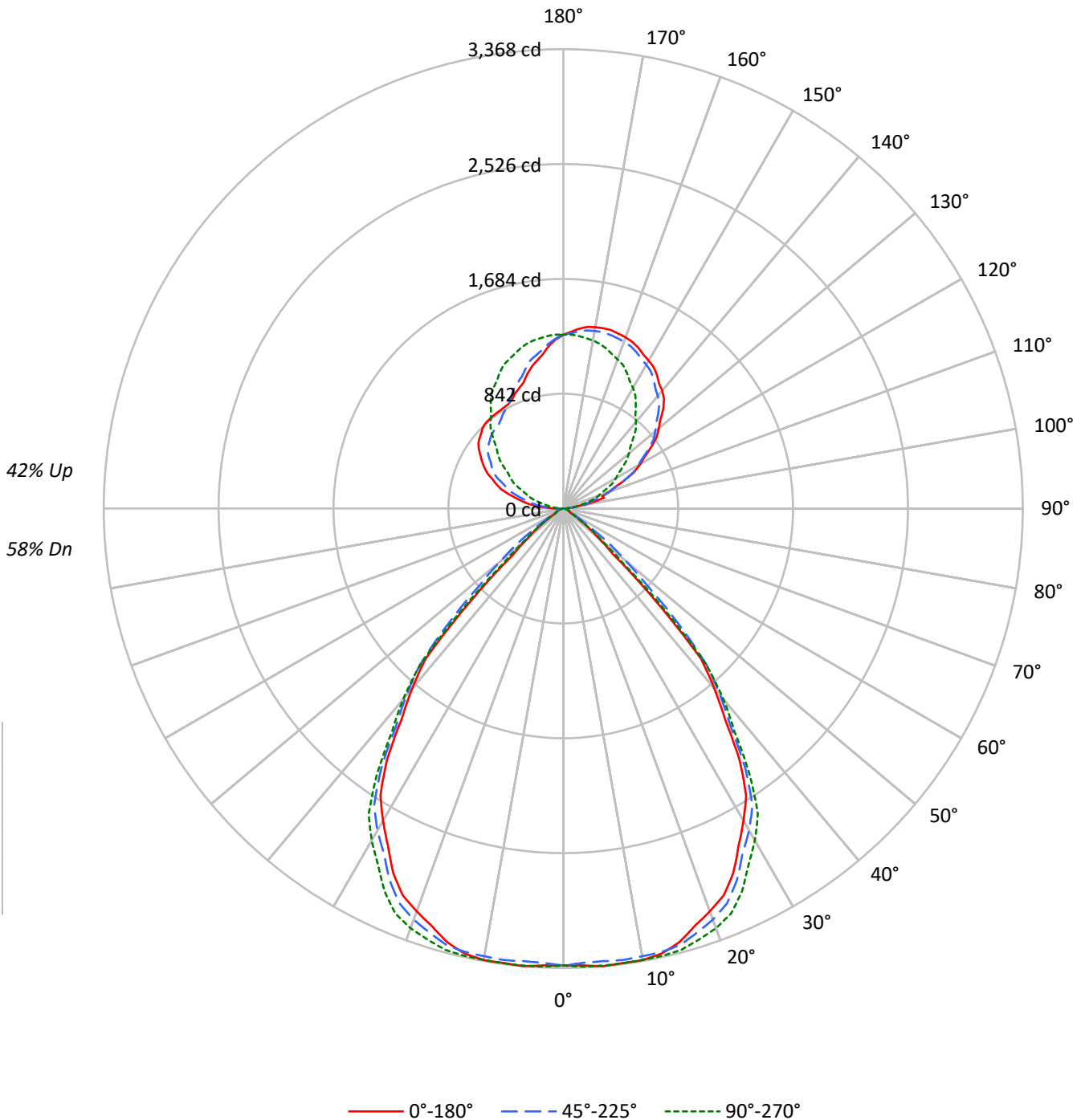
Input Watts (W): 82.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709382

CATALOG NUMBER: DL2W-WB-M-100U-125D-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				
RC	80					70					50					30				
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	102	102	102	102	88	88	88	75	75	75	64	64	64	58		
1	102	98	95	92	95	92	89	87	80	78	77	70	68	67	60	59	58	53		
2	94	88	83	79	88	83	79	75	73	70	67	64	61	59	55	54	52	48		
3	88	80	74	69	82	75	70	65	67	62	59	59	56	53	51	49	47	44		
4	81	72	65	60	76	68	62	58	61	56	53	54	50	48	47	45	43	40		
5	76	66	59	53	71	62	56	51	56	51	47	49	46	43	44	41	39	36		
6	71	60	53	48	66	57	50	46	51	46	42	46	42	39	41	38	35	33		
7	66	55	48	43	62	52	46	41	47	42	38	42	38	35	38	35	32	30		
8	62	50	43	39	58	48	42	37	43	38	35	39	35	32	35	32	30	27		
9	58	46	40	35	54	44	38	34	40	35	32	36	32	29	33	30	27	25		
10	54	43	36	32	51	41	35	31	37	32	29	34	30	27	31	27	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	54077	54077	54077	54077	54077
5°	54579	53986	54501	53986	54579
10°	55100	54644	55085	54644	55100
15°	55005	55362	55968	55362	55005
20°	53983	55098	56244	55098	53983
25°	52533	53597	55184	53597	52533
30°	49264	50781	52361	50781	49264
35°	44415	45849	46952	45849	44415
40°	36320	37693	38545	37693	36320
45°	21866	27223	24103	27223	21866
50°	8518	15123	9530	15123	8518
55°	4569	6853	4622	6853	4569
60°	1986	3389	2170	3389	1986
65°	1872	2071	1945	2071	1872
70°	1770	1950	1902	1950	1770
75°	1678	1865	1859	1865	1678
80°	1609	1795	1785	1795	1609
85°	1593	1621	1593	1621	1593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 27414 cd/sqm

TEST NUMBER: P709382

CATALOG NUMBER: DL2W-WB-M-100U-125D-930-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.0	3.6
10°-20°	935.4	10.4
20°-30°	1382.9	15.4
30°-40°	1428.9	15.9
40°-50°	859.8	9.6
50°-60°	206.4	2.3
60°-70°	56.4	0.6
70°-80°	31.4	0.4
80°-90°	15.2	0.2
90°-100°	101.4	1.1
100°-110°	296.2	3.3
110°-120°	483.0	5.4
120°-130°	612.9	6.8
130°-140°	655.7	7.3
140°-150°	612.2	6.8
150°-160°	503.7	5.6
160°-170°	337.8	3.8
170°-180°	120.0	1.3
0°-30°	2638.4	29.4
0°-40°	4067.3	45.4
0°-60°	5133.5	57.3
0°-90°	5236.5	58.4
90°-120°	880.5	9.8
90°-150°	2761.2	30.8
90°-180°	3723.0	41.6
0°-180°	8959.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3349	3349	3349	3349	3349	
5°	3368	3331	3363	3331	3368	321
15°	3291	3312	3348	3312	3291	924
25°	2949	3009	3098	3009	2949	1346
35°	2253	2326	2382	2326	2253	1382
45°	958	1192	1056	1192	958	753
55°	162	243	164	243	162	158
65°	49	54	51	54	49	48
75°	27	30	30	30	27	29
85°	9	9	9	9	9	9
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: P709382

CATALOG NUMBER: DL2W-WB-M-100U-125D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3
2.5°	3352.4	3354.8	3357.2	3347.5	3333.8	3332.8	3344.4	3354.1	3357.8	3361.6	3357.8
5°	3367.5	3368.4	3369.3	3353.8	3332.9	3329.0	3342.3	3353.4	3358.1	3362.7	3358.1
7.5°	3360.1	3363.4	3366.7	3355.4	3339.3	3336.9	3348.1	3357.2	3359.7	3362.2	3359.7
10°	3360.8	3362.1	3363.4	3350.6	3333.1	3332.9	3349.9	3362.4	3361.1	3359.9	3361.1
12.5°	3340.8	3344.2	3347.5	3339.1	3326.7	3331.8	3354.3	3369.8	3364.0	3358.3	3364.0
15°	3290.7	3297.1	3303.5	3304.8	3304.4	3319.7	3350.9	3371.4	3359.9	3348.3	3359.9
17.5°	3207.9	3216.0	3224.1	3234.9	3246.6	3272.7	3313.1	3339.8	3325.8	3311.8	3325.8
20°	3141.8	3149.9	3158.1	3173.2	3190.7	3222.7	3269.3	3300.7	3287.1	3273.4	3287.1
22.5°	3070.4	3077.1	3083.9	3098.9	3116.8	3151.5	3203.2	3238.8	3226.1	3213.5	3226.1
25°	2948.8	2952.6	2956.5	2971.5	2990.3	3026.8	3081.0	3119.0	3108.3	3097.6	3108.3
27.5°	2783.8	2790.3	2796.9	2812.3	2830.7	2864.7	2914.4	2950.5	2946.0	2941.5	2946.0
30°	2642.4	2654.7	2667.1	2686.5	2708.3	2739.3	2779.4	2809.4	2809.0	2808.5	2809.0
32.5°	2494.1	2509.5	2525.0	2545.2	2566.9	2593.3	2624.2	2648.1	2651.1	2654.1	2651.1
35°	2253.4	2265.7	2278.1	2295.9	2315.6	2336.7	2359.3	2376.9	2379.5	2382.1	2379.5
37.5°	1946.8	1959.2	1971.7	1987.5	2004.4	2023.6	2045.2	2061.6	2062.0	2062.4	2062.0
40°	1723.2	1730.8	1738.5	1756.5	1777.8	1798.9	1819.8	1834.8	1831.8	1828.8	1831.8
42.5°	1494.2	1499.1	1504.1	1522.9	1546.3	1567.0	1585.2	1593.3	1571.2	1549.1	1571.2
45°	957.6	1037.5	1117.3	1157.7	1185.1	1199.4	1200.6	1185.4	1120.5	1055.6	1120.5
47.5°	495.8	574.0	652.2	735.4	820.3	840.2	795.1	743.8	673.8	603.8	673.8
50°	339.1	369.8	400.5	487.0	592.0	612.1	547.2	485.3	432.3	379.4	432.3
52.5°	253.0	268.0	283.1	350.2	434.7	443.9	377.6	321.4	295.5	269.5	295.5
55°	162.3	168.7	175.1	204.9	242.5	244.4	210.7	183.0	173.6	164.2	173.6
57.5°	99.9	108.3	116.6	129.6	144.1	144.2	130.0	117.1	108.3	99.5	108.3
60°	61.5	69.2	76.8	89.6	104.2	105.7	94.1	83.5	75.3	67.2	75.3
62.5°	55.3	58.2	61.1	70.4	81.9	82.9	73.4	65.5	62.5	59.6	62.5
65°	49.0	49.8	50.7	52.2	53.9	54.5	54.1	53.5	52.2	50.9	52.2
67.5°	42.1	43.4	44.6	45.3	45.7	46.1	46.6	46.7	45.8	45.0	45.8
70°	37.5	38.7	40.0	40.7	41.1	41.5	41.9	42.0	41.2	40.3	41.2
72.5°	33.6	34.6	35.5	36.1	36.5	36.9	37.3	37.4	36.6	35.7	36.6
75°	26.9	27.7	28.6	29.1	29.6	30.2	31.1	31.5	30.6	29.8	30.6
77.5°	21.1	22.0	22.8	23.3	23.6	24.0	24.5	24.6	23.8	23.1	23.8
80°	17.3	18.1	19.0	19.2	19.2	19.4	19.9	20.1	19.6	19.2	19.6
82.5°	13.4	14.0	14.5	14.6	14.6	14.8	15.2	15.5	15.5	15.4	15.5
85°	8.6	8.6	8.6	8.6	8.6	8.9	9.3	9.5	9.1	8.6	9.1
87.5°	7.7	8.2	8.6	8.1	8.1	7.9	7.1	6.3	5.0	3.8	4.8
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: P709382

CATALOG NUMBER: DL2W-WB-M-100U-125D-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: P709382

CATALOG NUMBER: DL2W-WB-M-100U-125D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3
2.5°	3354.1	3344.4	3332.8	3333.8	3347.5	3357.2	3354.8	3352.4
5°	3353.4	3342.3	3329.0	3332.9	3353.8	3369.3	3368.4	3367.5
7.5°	3357.2	3348.1	3336.9	3339.3	3355.4	3366.7	3363.4	3360.1
10°	3362.4	3349.9	3332.9	3333.1	3350.6	3363.4	3362.1	3360.8
12.5°	3369.8	3354.3	3331.8	3326.7	3339.1	3347.5	3344.2	3340.8
15°	3371.4	3350.9	3319.7	3304.4	3304.8	3303.5	3297.1	3290.7
17.5°	3339.8	3313.1	3272.7	3246.6	3234.9	3224.1	3216.0	3207.9
20°	3300.7	3269.3	3222.7	3190.7	3173.2	3158.1	3149.9	3141.8
22.5°	3238.8	3203.2	3151.5	3116.8	3098.9	3083.9	3077.1	3070.4
25°	3119.0	3081.0	3026.8	2990.3	2971.5	2956.5	2952.6	2948.8
27.5°	2950.5	2914.4	2864.7	2830.7	2812.3	2796.9	2790.3	2783.8
30°	2809.4	2779.4	2739.3	2708.3	2686.5	2667.1	2654.7	2642.4
32.5°	2648.1	2624.2	2593.3	2566.9	2545.2	2525.0	2509.5	2494.1
35°	2376.9	2359.3	2336.7	2315.6	2295.9	2278.1	2265.7	2253.4
37.5°	2061.6	2045.2	2023.6	2004.4	1987.5	1971.7	1959.2	1946.8
40°	1834.8	1819.8	1798.9	1777.8	1756.5	1738.5	1730.8	1723.2
42.5°	1593.3	1585.2	1567.0	1546.3	1522.9	1504.1	1499.1	1494.2
45°	1185.4	1200.6	1199.4	1185.1	1157.7	1117.3	1037.5	957.6
47.5°	743.8	795.1	840.2	820.3	735.4	652.2	574.0	495.8
50°	485.3	547.2	612.1	592.0	487.0	400.5	369.8	339.1
52.5°	321.4	377.6	443.9	434.7	350.2	283.1	268.0	253.0
55°	183.0	210.7	244.4	242.5	204.9	175.1	168.7	162.3
57.5°	117.1	130.0	144.2	144.1	129.6	116.6	108.3	99.9
60°	83.5	94.1	105.7	104.2	89.6	76.8	69.2	61.5
62.5°	65.5	73.4	82.9	81.9	70.4	61.1	58.2	55.3
65°	53.5	54.1	54.5	53.9	52.2	50.7	49.8	49.0
67.5°	46.7	46.6	46.1	45.7	45.3	44.6	43.4	42.1
70°	42.0	41.9	41.5	41.1	40.7	40.0	38.7	37.5
72.5°	37.4	37.3	36.9	36.5	36.1	35.5	34.6	33.6
75°	31.5	31.1	30.2	29.6	29.1	28.6	27.7	26.9
77.5°	24.6	24.5	24.0	23.6	23.3	22.8	22.0	21.1
80°	20.1	19.9	19.4	19.2	19.2	19.0	18.1	17.3
82.5°	15.5	15.2	14.8	14.6	14.6	14.5	14.0	13.4
85°	9.5	9.3	8.9	8.6	8.6	8.6	8.6	8.6
87.5°	6.2	7.5	9.0	11.2	12.7	13.8	14.0	14.4
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: P709382

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