

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: P709254

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

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709254
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-2, 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-050U-050D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3913.3 lumens
Efficiency: N/A
Efficacy: 118.6 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

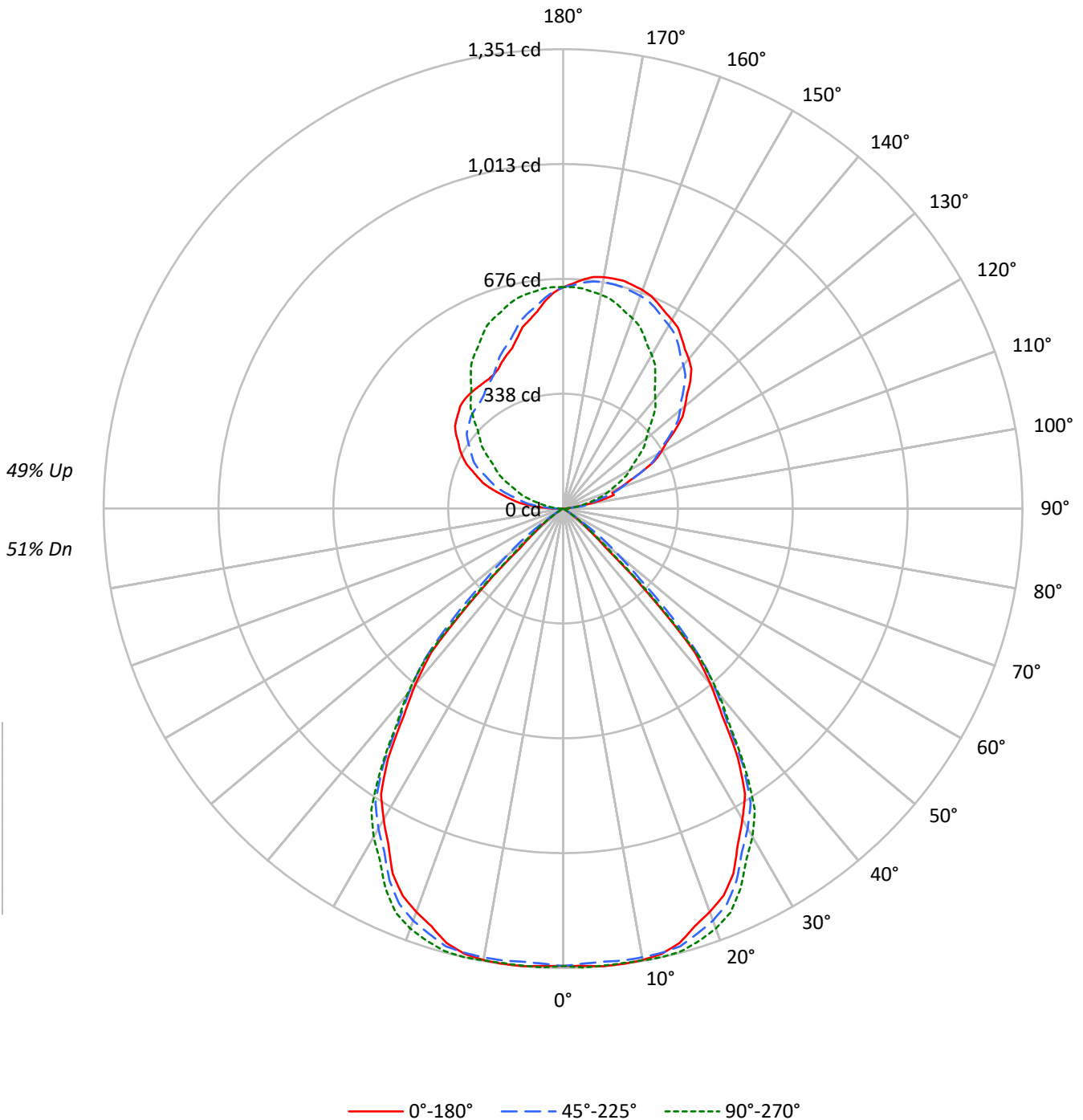
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51
1	100	97	93	91	93	90	87	85	77	75	73	65	64	62	54	53	52	47
2	93	87	82	78	86	81	77	73	70	67	64	60	57	56	50	49	47	43
3	86	78	72	67	80	73	68	64	64	60	57	55	52	50	46	45	43	39
4	80	71	64	59	74	66	61	56	58	54	50	50	47	45	43	41	39	36
5	74	64	57	52	69	60	54	50	53	48	45	46	43	40	40	37	36	33
6	69	59	52	46	64	55	49	44	49	44	40	43	39	36	37	34	32	30
7	65	54	47	42	60	51	44	40	45	40	36	39	36	33	34	32	30	27
8	60	49	42	38	56	47	40	36	41	37	33	37	33	30	32	29	27	25
9	56	45	39	34	53	43	37	33	38	34	30	34	30	28	30	27	25	23
10	53	42	35	31	50	40	34	30	36	31	28	32	28	25	28	25	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21718	21718	21718	21718	21718
5°	21898	21678	21866	21678	21898
10°	22102	21972	22118	21972	22102
15°	22116	22274	22517	22274	22116
20°	21685	22155	22579	22155	21685
25°	21113	21506	21985	21506	21113
30°	19671	20243	20771	20243	19671
35°	17682	18197	18412	18197	17682
40°	14229	14810	15030	14810	14229
45°	8243	10390	8859	10390	8243
50°	2663	5359	2989	5359	2663
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: 10433 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	3.3
10°-20°	376.2	9.6
20°-30°	553.7	14.1
30°-40°	565.7	14.5
40°-50°	325.2	8.3
50°-60°	56.8	1.5
60°-70°	2.0	0.1
70°-80°	0.0	0.0
80°-90°	3.5	0.1
90°-100°	52.0	1.3
100°-110°	151.3	3.9
110°-120°	246.7	6.3
120°-130°	313.2	8.0
130°-140°	335.0	8.6
140°-150°	312.8	8.0
150°-160°	257.5	6.6
160°-170°	172.7	4.4
170°-180°	61.3	1.6
0°-30°	1058.4	27.0
0°-40°	1624.1	41.5
0°-60°	2006.1	51.3
0°-90°	2011.6	51.4
90°-120°	450.0	11.5
90°-150°	1410.9	36.1
90°-180°	1903.0	48.6
0°-180°	3913.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1345	1345	1345	1345	1345	
5°	1351	1338	1349	1338	1351	129
15°	1323	1333	1347	1333	1323	371
25°	1185	1207	1234	1207	1185	540
35°	897	923	934	923	897	549
45°	361	455	388	455	361	282
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	1
90°	14	13	2	18	30	7
95°	15	20	20	67	91	26
105°	155	116	95	172	213	144
115°	253	255	183	274	315	252
125°	402	390	273	341	385	359
135°	529	503	371	383	427	406
145°	609	590	473	406	436	382
155°	664	648	562	463	452	306
165°	693	674	621	542	520	196
175°	676	667	650	622	612	65
180°	651	651	651	651	651	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1
2.5°	1345.9	1347.3	1348.8	1345.1	1339.8	1339.4	1344.1	1347.9	1349.3	1350.7	1349.3
5°	1351.1	1352.0	1352.9	1346.8	1338.3	1336.8	1342.1	1346.5	1347.8	1349.1	1347.8
7.5°	1350.5	1352.3	1354.1	1349.0	1341.6	1339.7	1343.3	1346.2	1347.3	1348.3	1347.3
10°	1348.1	1349.9	1351.7	1347.1	1340.5	1339.8	1345.1	1349.1	1349.1	1349.1	1349.1
12.5°	1340.9	1343.4	1345.9	1342.6	1337.3	1339.2	1348.1	1354.3	1352.5	1350.7	1352.5
15°	1323.1	1326.2	1329.3	1329.8	1329.3	1335.8	1349.1	1357.8	1352.5	1347.1	1352.5
17.5°	1287.7	1292.4	1297.1	1301.5	1305.6	1316.8	1335.1	1346.9	1339.7	1332.5	1339.7
20°	1262.1	1266.1	1270.1	1276.1	1282.8	1296.1	1316.1	1329.2	1321.7	1314.1	1321.7
22.5°	1232.5	1236.9	1241.2	1246.5	1252.1	1265.5	1286.5	1300.5	1293.3	1286.1	1293.3
25°	1185.1	1187.8	1190.4	1195.4	1201.2	1213.2	1231.4	1243.9	1239.0	1234.1	1239.0
27.5°	1112.7	1117.1	1121.6	1127.2	1133.1	1144.0	1159.8	1171.1	1168.6	1166.1	1168.6
30°	1055.1	1061.3	1067.5	1074.1	1080.8	1090.8	1104.1	1114.1	1114.1	1114.1	1114.1
32.5°	995.9	1001.8	1007.6	1014.9	1022.6	1030.9	1039.6	1046.5	1047.9	1049.3	1047.9
35°	897.1	902.0	906.9	913.1	919.8	926.6	933.8	938.5	936.3	934.1	936.3
37.5°	770.3	773.6	777.0	783.6	791.3	798.7	806.0	810.9	808.8	806.7	808.8
40°	675.1	679.5	684.0	691.1	699.1	706.2	712.4	716.6	714.8	713.1	714.8
42.5°	573.5	579.3	585.2	593.2	601.9	609.2	615.1	617.1	607.5	597.9	607.5
45°	361.0	394.4	427.7	443.4	453.2	456.9	454.7	445.8	416.9	388.0	416.9
47.5°	170.0	203.0	236.0	268.7	301.3	307.1	286.0	262.7	232.4	202.2	232.4
50°	106.0	118.0	130.0	166.0	210.0	216.7	186.0	158.1	138.6	119.0	138.6
52.5°	71.6	77.6	83.5	111.1	145.8	148.2	118.3	93.7	85.1	76.6	85.1
55°	38.0	39.8	41.6	52.7	66.9	67.1	53.3	42.2	39.1	36.0	39.1
57.5°	14.6	17.2	19.8	24.7	30.5	30.5	24.6	19.4	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°	2.8	2.8	2.8	2.8	2.6	2.6	2.2	1.6	1.0	0.4	1.0
90°	14.0	14.0	14.0	14.0	13.0	13.0	11.0	8.0	5.0	2.0	5.0
92.5°	17.2	17.2	16.4	16.4	15.4	13.8	11.8	11.2	12.2	6.8	13.0
95°	15.0	15.0	15.0	15.0	17.0	23.0	32.0	34.0	23.0	20.0	28.0
97.5°	35.4	37.8	41.2	49.6	58.4	63.0	59.2	43.0	41.6	39.8	53.2
100°	73.0	73.0	78.0	84.0	96.0	79.0	60.0	59.0	56.0	55.0	70.0
102.5°	115.4	117.8	120.4	121.6	94.4	85.4	82.4	76.6	72.0	71.0	86.8
105°	155.0	148.0	127.0	115.0	115.0	117.0	115.0	108.0	98.0	95.0	112.0
107.5°	151.6	148.6	151.2	152.4	157.2	155.8	151.6	138.8	124.8	122.2	137.2
110°	178.0	179.0	180.0	182.0	186.0	183.0	178.0	162.0	144.0	139.0	154.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	209.2	208.6	211.2	212.4	212.4	211.0	202.8	182.8	163.2	157.4	170.8
115°	253.0	255.0	256.0	257.0	256.0	254.0	239.0	217.0	193.0	183.0	195.0
117.5°	303.4	298.8	300.2	301.0	301.6	294.4	278.0	252.0	224.2	209.4	218.6
120°	333.0	330.0	329.0	329.0	328.0	320.0	302.0	276.0	245.0	227.0	233.0
122.5°	359.4	358.8	358.6	357.8	357.6	346.4	326.8	299.2	267.4	245.4	247.4
125°	402.0	403.0	400.0	396.0	395.0	385.0	364.0	335.0	301.0	273.0	270.0
127.5°	442.4	444.4	441.2	439.0	433.6	419.8	399.8	370.8	332.8	301.4	291.6
130°	468.0	470.0	466.0	463.0	456.0	443.0	423.0	394.0	356.0	319.0	306.0
132.5°	493.6	494.0	490.0	486.2	478.4	465.4	445.4	417.2	376.8	339.8	322.8
135°	529.0	530.0	525.0	520.0	508.0	498.0	479.0	451.0	410.0	371.0	348.0
137.5°	558.2	558.4	554.0	546.6	538.6	525.8	508.2	481.8	444.0	402.0	372.8
140°	575.0	576.0	570.0	565.0	557.0	545.0	529.0	501.0	464.0	422.0	392.0
142.5°	589.4	590.4	586.0	581.0	573.0	561.0	546.6	520.2	484.0	442.8	410.4
145°	609.0	612.0	608.0	603.0	596.0	585.0	570.0	546.0	513.0	473.0	437.0
147.5°	629.8	630.0	627.0	624.0	616.0	604.2	593.4	569.4	538.0	502.8	465.2
150°	641.0	642.0	639.0	636.0	628.0	617.0	607.0	583.0	554.0	522.0	486.0
152.5°	650.6	652.4	650.2	646.4	639.2	627.4	618.2	595.8	569.2	538.8	504.4
155°	664.0	667.0	665.0	661.0	653.0	642.0	633.0	614.0	589.0	562.0	531.0
157.5°	676.8	679.6	677.4	672.6	664.4	654.6	646.0	628.0	606.8	583.2	554.8
160°	684.0	686.0	683.0	679.0	670.0	661.0	654.0	636.0	618.0	596.0	570.0
162.5°	688.0	690.8	687.8	683.0	674.0	665.8	659.6	643.2	626.0	606.4	583.6
165°	693.0	694.0	692.0	688.0	678.0	671.0	666.0	653.0	637.0	621.0	603.0
167.5°	692.6	696.6	693.6	689.8	679.0	674.0	669.4	657.8	646.0	632.6	619.2
170°	691.0	695.0	692.0	689.0	679.0	674.0	671.0	661.0	650.0	639.0	628.0
172.5°	687.0	690.2	688.0	685.0	675.8	671.6	670.2	661.8	652.4	643.8	634.4
175°	676.0	680.0	679.0	676.0	668.0	666.0	667.0	661.0	655.0	650.0	643.0
177.5°	662.2	666.2	664.6	663.0	657.4	656.6	659.8	656.6	653.4	651.8	648.6
180°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1	1345.1
2.5°	1347.9	1344.1	1339.4	1339.8	1345.1	1348.8	1347.3	1345.9
5°	1346.5	1342.1	1336.8	1338.3	1346.8	1352.9	1352.0	1351.1
7.5°	1346.2	1343.3	1339.7	1341.6	1349.0	1354.1	1352.3	1350.5
10°	1349.1	1345.1	1339.8	1340.5	1347.1	1351.7	1349.9	1348.1
12.5°	1354.3	1348.1	1339.2	1337.3	1342.6	1345.9	1343.4	1340.9
15°	1357.8	1349.1	1335.8	1329.3	1329.8	1329.3	1326.2	1323.1
17.5°	1346.9	1335.1	1316.8	1305.6	1301.5	1297.1	1292.4	1287.7
20°	1329.2	1316.1	1296.1	1282.8	1276.1	1270.1	1266.1	1262.1
22.5°	1300.5	1286.5	1265.5	1252.1	1246.5	1241.2	1236.9	1232.5
25°	1243.9	1231.4	1213.2	1201.2	1195.4	1190.4	1187.8	1185.1
27.5°	1171.1	1159.8	1144.0	1133.1	1127.2	1121.6	1117.1	1112.7
30°	1114.1	1104.1	1090.8	1080.8	1074.1	1067.5	1061.3	1055.1
32.5°	1046.5	1039.6	1030.9	1022.6	1014.9	1007.6	1001.8	995.9
35°	938.5	933.8	926.6	919.8	913.1	906.9	902.0	897.1
37.5°	810.9	806.0	798.7	791.3	783.6	777.0	773.6	770.3
40°	716.6	712.4	706.2	699.1	691.1	684.0	679.5	675.1
42.5°	617.1	615.1	609.2	601.9	593.2	585.2	579.3	573.5
45°	445.8	454.7	456.9	453.2	443.4	427.7	394.4	361.0
47.5°	262.7	286.0	307.1	301.3	268.7	236.0	203.0	170.0
50°	158.1	186.0	216.7	210.0	166.0	130.0	118.0	106.0
52.5°	93.7	118.3	148.2	145.8	111.1	83.5	77.6	71.6
55°	42.2	53.3	67.1	66.9	52.7	41.6	39.8	38.0
57.5°	19.4	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°	1.4	2.2	3.2	4.2	5.0	5.4	5.8	6.0
90°	7.0	11.0	16.0	21.0	25.0	27.0	29.0	30.0
92.5°	18.2	24.6	32.0	37.8	44.2	48.6	50.6	50.8
95°	42.0	51.0	62.0	72.0	80.0	86.0	90.0	91.0
97.5°	64.6	81.4	93.6	105.2	116.8	124.0	128.6	129.2
100°	83.0	99.0	116.0	126.0	140.0	148.0	151.0	154.0
102.5°	103.0	116.6	135.2	150.0	163.2	170.4	176.6	179.6
105°	131.0	148.0	164.0	181.0	196.0	204.0	210.0	213.0
107.5°	157.6	178.4	194.4	211.0	224.2	234.0	241.2	244.2
110°	176.0	196.0	216.0	231.0	245.0	254.0	262.0	265.0

TEST NUMBER: P709254

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

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	193.6	214.4	236.0	252.6	265.8	277.2	282.8	288.2
115°	218.0	241.0	263.0	284.0	298.0	306.0	311.0	315.0
117.5°	239.6	262.8	285.4	306.4	320.8	327.4	330.4	334.2
120°	254.0	278.0	299.0	320.0	336.0	345.0	348.0	351.0
122.5°	267.6	290.8	312.6	332.8	348.8	358.6	363.2	365.4
125°	286.0	309.0	331.0	351.0	365.0	377.0	383.0	385.0
127.5°	301.2	324.2	347.4	366.6	381.4	391.4	397.4	400.2
130°	314.0	333.0	357.0	377.0	391.0	401.0	407.0	409.0
132.5°	325.2	341.0	363.4	384.2	399.0	409.8	414.2	417.0
135°	345.0	353.0	372.0	394.0	410.0	419.0	424.0	427.0
137.5°	364.2	366.4	378.4	398.6	414.6	424.6	429.6	431.6
140°	377.0	376.0	384.0	401.0	417.0	427.0	432.0	434.0
142.5°	391.4	388.0	392.0	404.2	418.6	428.6	434.4	435.6
145°	415.0	406.0	403.0	410.0	421.0	430.0	435.0	436.0
147.5°	441.4	427.6	419.0	420.2	426.4	432.8	436.6	437.4
150°	459.0	442.0	431.0	429.0	432.0	436.0	439.0	439.0
152.5°	475.0	458.8	443.8	440.2	439.2	441.6	443.8	443.0
155°	503.0	483.0	466.0	460.0	455.0	454.0	453.0	452.0
157.5°	531.0	509.2	490.0	481.0	475.6	472.4	470.2	467.6
160°	547.0	526.0	506.0	497.0	490.0	486.0	483.0	482.0
162.5°	562.2	543.6	524.4	512.2	506.0	500.4	499.0	495.6
165°	584.0	569.0	548.0	536.0	531.0	527.0	524.0	520.0
167.5°	605.6	591.6	574.0	562.4	556.8	552.8	549.4	547.2
170°	616.0	606.0	590.0	580.0	576.0	572.0	567.0	564.0
172.5°	626.4	618.0	605.2	596.0	594.4	589.6	587.8	584.0
175°	639.0	634.0	624.0	619.0	619.0	617.0	617.0	612.0
177.5°	647.8	646.2	639.8	636.6	639.0	639.0	638.2	635.8
180°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0

(END OF REPORT)