

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: P709242

Luminaire Tested: DL2W-BB-M-025U-050D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709242
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-1, 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-025U-050D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2978.6 lumens
Efficiency: N/A
Efficacy: 116.4 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: Semi-Direct

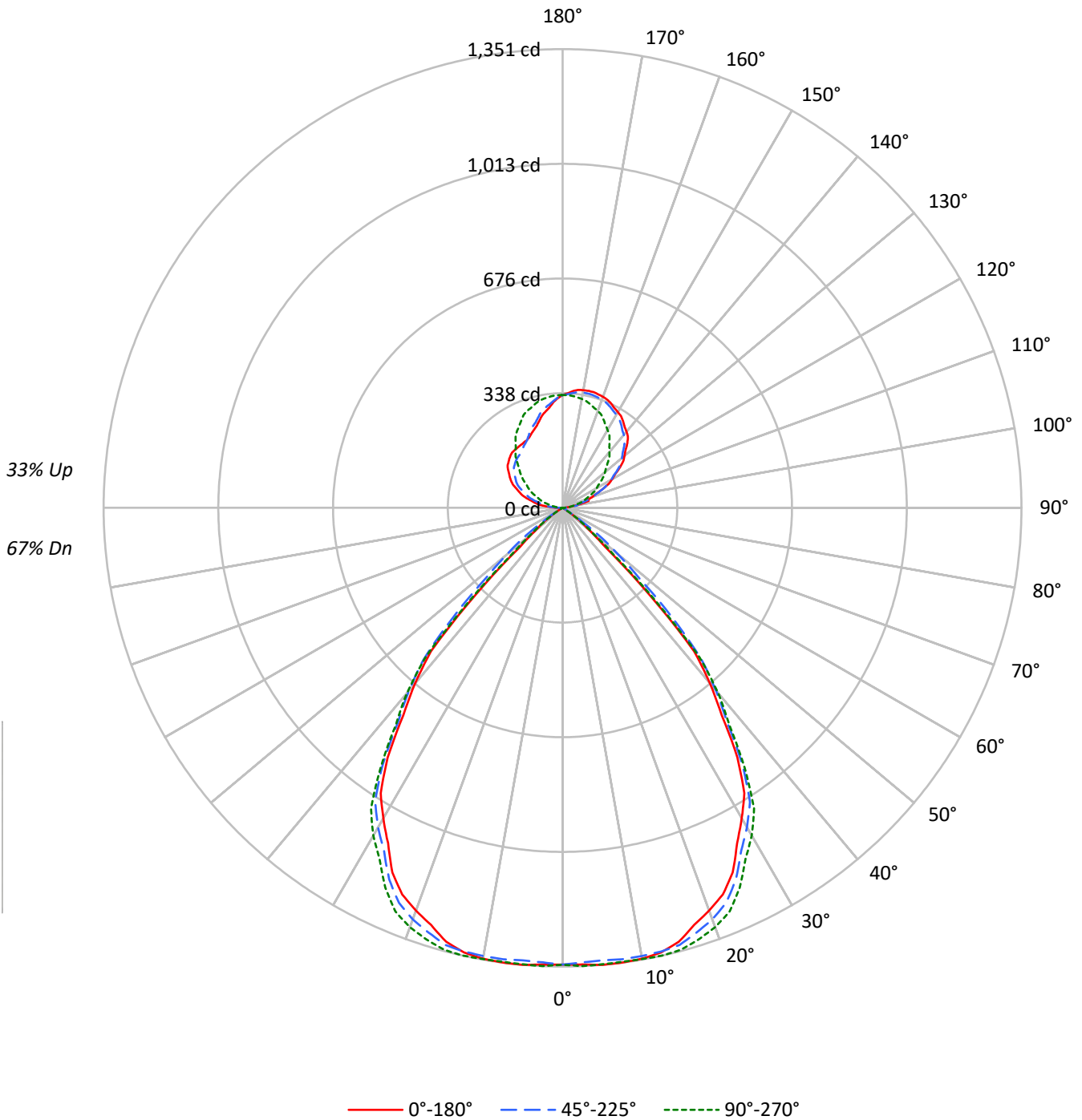
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	104	101	98	95	98	96	93	91	86	84	82	76	75	74	68	67	66	62
2	97	91	87	83	92	87	83	79	78	75	72	71	68	66	63	62	60	57
3	91	83	77	72	86	79	74	70	72	68	65	65	62	59	59	57	55	52
4	85	76	69	64	80	72	66	62	66	61	58	60	57	54	55	52	50	47
5	79	69	62	57	75	66	60	55	61	56	52	55	52	49	51	48	45	43
6	74	63	56	51	70	61	54	50	56	51	47	51	47	44	47	44	41	39
7	69	58	51	46	66	56	50	45	52	46	43	48	43	40	44	40	38	36
8	65	54	47	42	61	52	45	41	48	43	39	44	40	37	41	37	35	33
9	61	50	43	38	58	48	42	37	44	39	36	41	37	34	38	35	32	30
10	57	46	40	35	54	44	38	34	41	36	33	38	34	31	36	32	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21719	21719	21719	21719	21719
5°	21900	21680	21867	21680	21900
10°	22104	21973	22120	21973	22104
15°	22118	22276	22519	22276	22118
20°	21687	22157	22581	22157	21687
25°	21114	21508	21987	21508	21114
30°	19673	20243	20773	20243	19673
35°	17682	18198	18413	18198	17682
40°	14229	14810	15030	14810	14229
45°	8245	10392	8862	10392	8245
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: 10435 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	4.3
10°-20°	376.3	12.6
20°-30°	553.7	18.6
30°-40°	565.7	19.0
40°-50°	325.2	10.9
50°-60°	56.8	1.9
60°-70°	2.0	0.1
70°-80°	0.0	0.0
80°-90°	1.8	0.1
90°-100°	26.5	0.9
100°-110°	77.1	2.6
110°-120°	125.7	4.2
120°-130°	159.4	5.4
130°-140°	170.6	5.7
140°-150°	159.3	5.3
150°-160°	131.1	4.4
160°-170°	88.0	3.0
170°-180°	31.2	1.0
0°-30°	1058.5	35.5
0°-40°	1624.2	54.5
0°-60°	2006.2	67.4
0°-90°	2010.0	67.5
90°-120°	229.2	7.7
90°-150°	718.6	24.1
90°-180°	969.0	32.5
0°-180°	2978.6	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°	7	6	1	9	16	3
95°	8	10	11	34	46	13
105°	80	59	49	88	109	73
115°	130	130	94	139	161	128
125°	205	200	139	174	196	182
135°	270	256	188	194	217	207
145°	311	300	241	207	222	194
155°	339	330	286	236	230	156
165°	353	344	316	276	265	100
175°	345	340	331	316	312	33
180°	332	332	332	332	332	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2
2.5°	1346.0	1347.4	1348.9	1345.2	1339.9	1339.5	1344.2	1348.0	1349.4	1350.8	1349.4
5°	1351.2	1352.1	1353.0	1346.9	1338.4	1336.9	1342.2	1346.6	1347.9	1349.2	1347.9
7.5°	1350.6	1352.4	1354.2	1349.1	1341.7	1339.8	1343.4	1346.3	1347.4	1348.4	1347.4
10°	1348.2	1350.0	1351.8	1347.2	1340.6	1339.9	1345.2	1349.2	1349.2	1349.2	1349.2
12.5°	1341.0	1343.5	1346.0	1342.7	1337.4	1339.3	1348.2	1354.4	1352.6	1350.8	1352.6
15°	1323.2	1326.3	1329.4	1329.9	1329.4	1335.9	1349.2	1357.9	1352.6	1347.2	1352.6
17.5°	1287.8	1292.5	1297.2	1301.5	1305.7	1316.9	1335.2	1347.0	1339.8	1332.6	1339.8
20°	1262.2	1266.2	1270.2	1276.2	1282.9	1296.2	1316.2	1329.3	1321.8	1314.2	1321.8
22.5°	1232.6	1237.0	1241.3	1246.6	1252.2	1265.5	1286.6	1300.6	1293.4	1286.2	1293.4
25°	1185.2	1187.9	1190.5	1195.5	1201.3	1213.3	1231.5	1244.0	1239.1	1234.2	1239.1
27.5°	1112.8	1117.2	1121.7	1127.3	1133.2	1144.1	1159.9	1171.2	1168.7	1166.2	1168.7
30°	1055.2	1061.4	1067.6	1074.2	1080.8	1090.8	1104.2	1114.2	1114.2	1114.2	1114.2
32.5°	996.0	1001.8	1007.7	1015.0	1022.7	1030.9	1039.6	1046.5	1048.0	1049.4	1048.0
35°	897.1	902.0	906.9	913.2	919.8	926.7	933.8	938.6	936.4	934.2	936.4
37.5°	770.3	773.7	777.1	783.7	791.3	798.8	806.1	811.0	808.9	806.7	808.9
40°	675.1	679.6	684.0	691.1	699.1	706.2	712.5	716.7	714.9	713.1	714.9
42.5°	573.5	579.4	585.2	593.2	601.9	609.2	615.1	617.1	607.5	597.9	607.5
45°	361.1	394.4	427.7	443.4	453.2	457.0	454.7	445.9	417.0	388.1	417.0
47.5°	170.0	203.0	236.0	268.7	301.3	307.1	286.0	262.7	232.5	202.2	232.5
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°	1.4	1.4	1.4	1.4	1.4	1.2	1.2	0.8	0.6	0.2	0.4
90°	7.0	7.0	7.0	7.0	7.0	6.0	6.0	4.0	3.0	1.0	2.0
92.5°	8.6	8.6	8.6	8.6	7.8	6.8	6.0	5.6	6.2	3.4	6.8
95°	8.0	8.0	8.0	8.0	9.0	12.0	16.0	17.0	12.0	11.0	15.0
97.5°	18.2	19.4	20.6	24.4	30.6	31.8	30.2	21.2	21.0	20.0	27.0
100°	35.0	37.0	39.0	42.0	49.0	39.0	31.0	30.0	29.0	28.0	35.0
102.5°	58.2	59.4	62.2	62.0	48.2	43.0	41.4	39.6	37.0	36.0	43.8
105°	80.0	75.0	66.0	58.0	59.0	59.0	59.0	54.0	50.0	49.0	57.0
107.5°	76.8	75.8	76.8	78.6	79.6	79.4	77.0	70.6	63.6	62.2	70.2
110°	92.0	91.0	92.0	93.0	94.0	93.0	89.0	81.0	74.0	71.0	79.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	105.6	106.2	107.2	108.2	108.4	107.4	102.6	93.0	83.6	79.8	87.0
115°	130.0	130.0	130.0	131.0	131.0	129.0	122.0	111.0	99.0	94.0	99.0
117.5°	153.6	152.8	152.8	152.8	152.8	149.4	141.2	128.0	114.6	107.2	111.8
120°	168.0	168.0	168.0	168.0	168.0	163.0	154.0	140.0	125.0	116.0	119.0
122.5°	183.2	182.4	183.2	182.4	181.6	176.6	166.0	152.0	136.2	124.8	126.2
125°	205.0	205.0	203.0	203.0	202.0	197.0	185.0	170.0	153.0	139.0	138.0
127.5°	225.2	226.0	223.4	222.4	220.8	213.8	203.0	189.0	169.0	152.6	148.0
130°	238.0	238.0	237.0	236.0	232.0	225.0	215.0	201.0	181.0	163.0	156.0
132.5°	251.6	251.6	250.6	248.0	243.2	237.0	227.0	213.0	192.2	173.4	164.0
135°	270.0	269.0	267.0	265.0	260.0	253.0	244.0	230.0	209.0	188.0	177.0
137.5°	285.0	284.0	282.2	278.4	274.4	267.6	258.6	245.4	225.8	204.6	189.4
140°	293.0	292.0	291.0	288.0	284.0	278.0	269.0	255.0	237.0	215.0	199.0
142.5°	300.2	300.0	298.2	296.0	292.0	285.2	277.8	264.6	246.6	226.2	208.6
145°	311.0	311.0	310.0	308.0	304.0	297.0	291.0	279.0	261.0	241.0	223.0
147.5°	320.4	320.6	319.4	317.4	313.6	307.6	301.8	289.8	274.2	256.2	237.4
150°	326.0	327.0	325.0	323.0	320.0	314.0	309.0	297.0	283.0	265.0	247.0
152.5°	330.8	332.6	330.6	329.4	325.6	319.6	314.6	303.4	290.2	274.6	256.6
155°	339.0	340.0	338.0	337.0	332.0	327.0	323.0	312.0	300.0	286.0	271.0
157.5°	344.8	345.8	344.8	342.8	337.8	333.0	329.0	320.0	309.2	297.6	283.0
160°	348.0	349.0	348.0	346.0	341.0	337.0	333.0	324.0	314.0	304.0	291.0
162.5°	350.4	351.4	350.4	348.4	343.4	339.4	336.2	328.0	318.8	308.8	297.4
165°	353.0	354.0	353.0	350.0	346.0	342.0	339.0	332.0	324.0	316.0	308.0
167.5°	352.8	354.8	353.0	351.8	346.0	344.0	341.2	335.2	328.6	322.0	314.4
170°	352.0	354.0	353.0	351.0	346.0	344.0	342.0	336.0	331.0	326.0	320.0
172.5°	350.4	351.6	350.6	349.4	344.4	342.4	341.2	336.8	332.6	328.4	323.2
175°	345.0	347.0	346.0	345.0	340.0	339.0	340.0	336.0	333.0	331.0	328.0
177.5°	337.6	339.2	338.4	337.6	335.2	334.4	336.0	334.4	332.8	332.0	330.4
180°	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2	1345.2
2.5°	1348.0	1344.2	1339.5	1339.9	1345.2	1348.9	1347.4	1346.0
5°	1346.6	1342.2	1336.9	1338.4	1346.9	1353.0	1352.1	1351.2
7.5°	1346.3	1343.4	1339.8	1341.7	1349.1	1354.2	1352.4	1350.6
10°	1349.2	1345.2	1339.9	1340.6	1347.2	1351.8	1350.0	1348.2
12.5°	1354.4	1348.2	1339.3	1337.4	1342.7	1346.0	1343.5	1341.0
15°	1357.9	1349.2	1335.9	1329.4	1329.9	1329.4	1326.3	1323.2
17.5°	1347.0	1335.2	1316.9	1305.7	1301.5	1297.2	1292.5	1287.8
20°	1329.3	1316.2	1296.2	1282.9	1276.2	1270.2	1266.2	1262.2
22.5°	1300.6	1286.6	1265.5	1252.2	1246.6	1241.3	1237.0	1232.6
25°	1244.0	1231.5	1213.3	1201.3	1195.5	1190.5	1187.9	1185.2
27.5°	1171.2	1159.9	1144.1	1133.2	1127.3	1121.7	1117.2	1112.8
30°	1114.2	1104.2	1090.8	1080.8	1074.2	1067.6	1061.4	1055.2
32.5°	1046.5	1039.6	1030.9	1022.7	1015.0	1007.7	1001.8	996.0
35°	938.6	933.8	926.7	919.8	913.2	906.9	902.0	897.1
37.5°	811.0	806.1	798.8	791.3	783.7	777.1	773.7	770.3
40°	716.7	712.5	706.2	699.1	691.1	684.0	679.6	675.1
42.5°	617.1	615.1	609.2	601.9	593.2	585.2	579.4	573.5
45°	445.9	454.7	457.0	453.2	443.4	427.7	394.4	361.1
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°	0.8	1.2	1.6	2.0	2.6	2.8	3.0	3.2
90°	4.0	6.0	8.0	10.0	13.0	14.0	15.0	16.0
92.5°	8.8	12.4	16.0	18.8	22.6	25.2	25.4	26.4
95°	21.0	26.0	31.0	36.0	41.0	45.0	46.0	46.0
97.5°	33.4	41.2	47.8	53.8	59.6	63.0	65.2	67.2
100°	43.0	50.0	59.0	65.0	70.0	75.0	78.0	80.0
102.5°	52.6	59.6	68.6	76.2	83.6	87.0	90.8	92.0
105°	67.0	75.0	84.0	93.0	99.0	104.0	107.0	109.0
107.5°	80.4	90.4	99.0	107.4	113.6	119.6	123.4	124.6
110°	90.0	100.0	111.0	117.0	124.0	130.0	133.0	135.0

TEST NUMBER: P709242

CATALOG NUMBER: DL2W-BB-M-025U-050D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	98.8	109.6	120.6	128.2	135.2	141.2	144.2	146.2
115°	111.0	122.0	133.0	145.0	152.0	156.0	159.0	161.0
117.5°	122.0	134.0	145.0	155.8	163.8	167.0	169.0	170.2
120°	130.0	142.0	153.0	163.0	171.0	175.0	177.0	179.0
122.5°	136.4	148.4	159.4	169.4	177.4	182.2	185.0	186.2
125°	146.0	157.0	169.0	178.0	186.0	192.0	195.0	196.0
127.5°	153.6	165.0	177.0	186.4	194.4	199.2	202.2	204.0
130°	160.0	169.0	181.0	192.0	200.0	204.0	207.0	208.0
132.5°	166.4	173.8	185.0	196.0	204.0	208.8	211.8	212.8
135°	175.0	179.0	189.0	200.0	208.0	213.0	216.0	217.0
137.5°	185.8	187.2	192.8	203.2	211.4	216.4	219.2	220.2
140°	193.0	192.0	196.0	204.0	213.0	218.0	220.0	221.0
142.5°	199.4	197.6	199.2	205.6	213.0	218.0	220.8	221.0
145°	212.0	207.0	205.0	209.0	214.0	219.0	222.0	222.0
147.5°	224.2	218.0	213.4	214.2	216.8	220.4	222.2	222.4
150°	233.0	226.0	219.0	219.0	220.0	222.0	223.0	224.0
152.5°	242.6	234.0	226.2	224.6	224.0	224.4	226.2	225.6
155°	256.0	246.0	237.0	234.0	232.0	231.0	231.0	230.0
157.5°	269.2	260.0	249.2	245.0	241.8	240.0	238.8	237.8
160°	278.0	268.0	258.0	253.0	249.0	248.0	246.0	245.0
162.5°	286.8	276.0	266.8	261.0	257.0	256.0	254.8	253.0
165°	298.0	290.0	279.0	273.0	271.0	268.0	267.0	265.0
167.5°	308.4	301.8	293.0	287.2	283.4	281.4	280.4	278.4
170°	314.0	309.0	301.0	296.0	293.0	291.0	290.0	288.0
172.5°	318.8	314.6	308.2	304.0	301.8	300.6	298.8	297.6
175°	325.0	323.0	317.0	314.0	315.0	314.0	314.0	312.0
177.5°	329.6	328.8	325.6	324.0	326.4	325.6	325.6	323.2
180°	332.0	332.0	332.0	332.0	332.0	332.0	332.0	332.0

(END OF REPORT)