

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: P709253

Luminaire Tested: DL2W-BB-M-050U-050D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

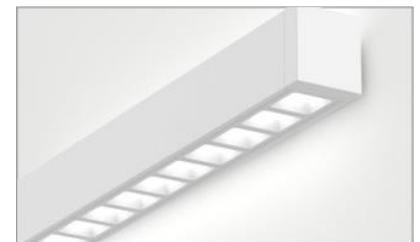
Test Information

Test Method: LM-79-2019
Report Number: P709253
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-930-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: 3763.8 lumens
Efficiency: N/A
Efficacy: 114.1 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

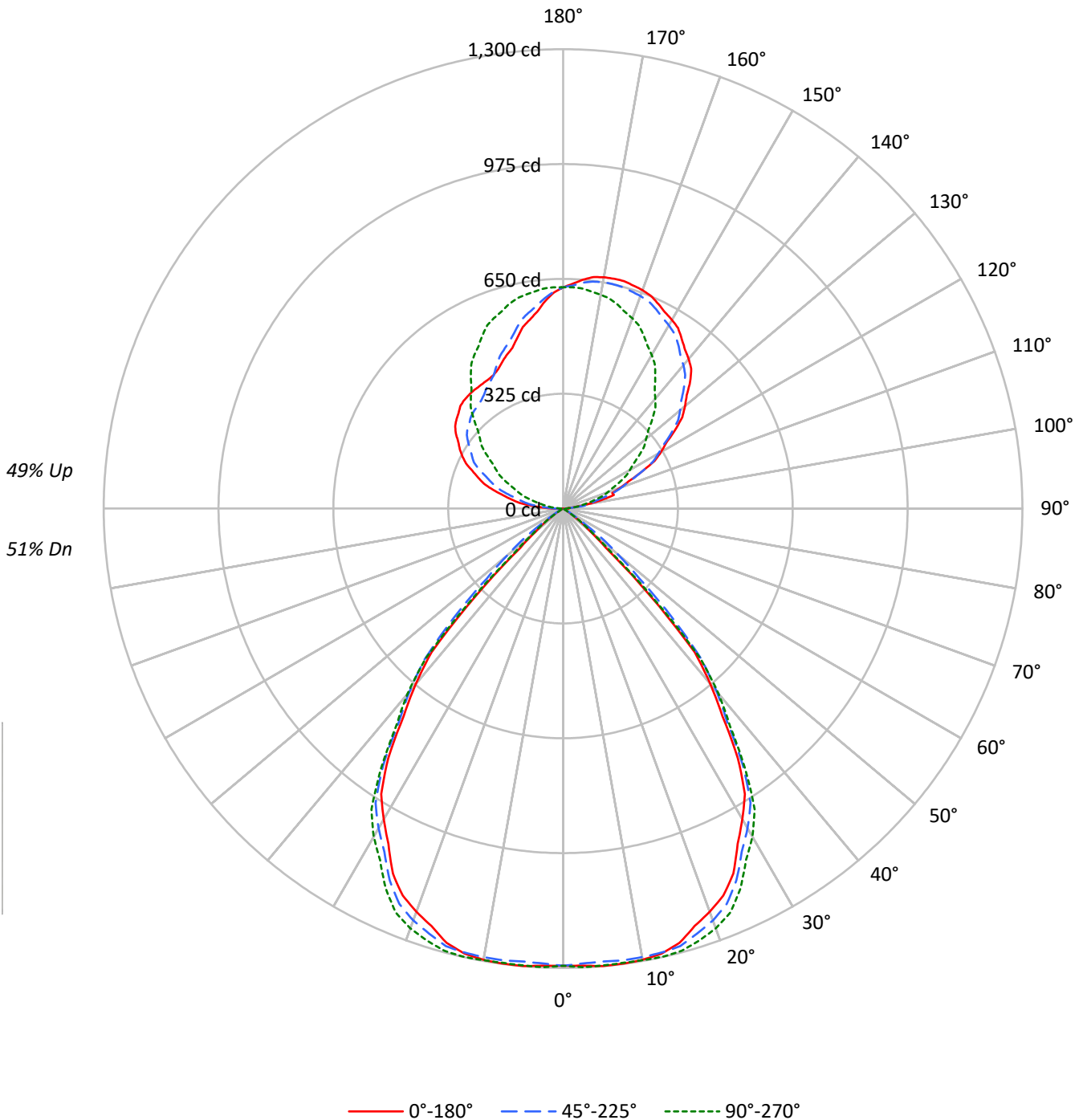
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P709253

CATALOG NUMBER: DL2W-BB-M-050U-050D-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	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°	20888	20888	20888	20888	20888
5°	21062	20850	21031	20850	21062
10°	21258	21131	21274	21131	21258
15°	21272	21424	21658	21424	21272
20°	20857	21309	21716	21309	20857
25°	20305	20685	21146	20685	20305
30°	18920	19470	19977	19470	18920
35°	17006	17501	17708	17501	17006
40°	13685	14244	14455	14244	13685
45°	7928	9993	8522	9993	7928
50°	2562	5154	2876	5154	2562
55°	1030	1814	974	1814	1030
60°	32	510	94	510	32
65°	0	27	0	27	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: 10035 cd/sqm

TEST NUMBER: P709253

CATALOG NUMBER: DL2W-BB-M-050U-050D-930-UNV-STD-W-WM-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	3.3
10°-20°	361.9	9.6
20°-30°	532.5	14.1
30°-40°	544.0	14.5
40°-50°	312.8	8.3
50°-60°	54.6	1.5
60°-70°	2.0	0.1
70°-80°	0.0	0.0
80°-90°	3.4	0.1
90°-100°	50.0	1.3
100°-110°	145.5	3.9
110°-120°	237.3	6.3
120°-130°	301.2	8.0
130°-140°	322.2	8.6
140°-150°	300.8	8.0
150°-160°	247.7	6.6
160°-170°	166.1	4.4
170°-180°	59.0	1.6
0°-30°	1018.0	27.0
0°-40°	1562.0	41.5
0°-60°	1929.4	51.3
0°-90°	1934.8	51.4
90°-120°	432.8	11.5
90°-150°	1357.0	36.1
90°-180°	1830.0	48.6
0°-180°	3763.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1294	1294	1294	1294	1294	
5°	1300	1286	1298	1286	1300	124
15°	1273	1282	1296	1282	1273	357
25°	1140	1161	1187	1161	1140	519
35°	863	888	898	888	863	528
45°	347	438	373	438	347	272
55°	37	64	35	64	37	37
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	1
90°	14	12	2	18	29	6
95°	14	19	19	64	88	25
105°	149	112	91	166	205	139
115°	243	245	176	263	303	243
125°	387	375	263	328	370	345
135°	509	484	357	368	411	390
145°	586	568	455	391	419	367
155°	639	623	540	445	435	295
165°	666	649	597	521	500	188
175°	650	642	625	598	589	63
180°	626	626	626	626	626	

TEST NUMBER: P709253

CATALOG NUMBER: DL2W-BB-M-050U-050D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1293.7	1293.7	1293.7	1293.7	1293.7	1293.7	1293.7	1293.7	1293.7	1293.7	1293.7
2.5°	1294.5	1295.9	1297.2	1293.7	1288.6	1288.3	1292.7	1296.4	1297.8	1299.1	1297.8
5°	1299.5	1300.4	1301.2	1295.3	1287.2	1285.7	1290.9	1295.0	1296.3	1297.6	1296.3
7.5°	1298.9	1300.6	1302.4	1297.5	1290.4	1288.5	1291.9	1294.8	1295.8	1296.8	1295.8
10°	1296.6	1298.3	1300.0	1295.7	1289.2	1288.6	1293.7	1297.6	1297.6	1297.6	1297.6
12.5°	1289.7	1292.1	1294.5	1291.3	1286.3	1288.0	1296.6	1302.5	1300.8	1299.1	1300.8
15°	1272.6	1275.6	1278.6	1279.0	1278.6	1284.8	1297.6	1305.9	1300.8	1295.7	1300.8
17.5°	1238.5	1243.1	1247.6	1251.7	1255.8	1266.5	1284.1	1295.5	1288.5	1281.6	1288.5
20°	1213.9	1217.7	1221.6	1227.4	1233.8	1246.6	1265.8	1278.5	1271.2	1263.9	1271.2
22.5°	1185.4	1189.6	1193.8	1198.9	1204.3	1217.1	1237.4	1250.8	1243.9	1237.0	1243.9
25°	1139.8	1142.4	1145.0	1149.8	1155.3	1166.9	1184.4	1196.4	1191.7	1187.0	1191.7
27.5°	1070.2	1074.5	1078.7	1084.1	1089.8	1100.3	1115.5	1126.3	1124.0	1121.6	1124.0
30°	1014.8	1020.8	1026.8	1033.1	1039.5	1049.1	1061.9	1071.5	1071.5	1071.5	1071.5
32.5°	957.8	963.5	969.1	976.1	983.6	991.5	999.8	1006.5	1007.8	1009.2	1007.8
35°	862.8	867.5	872.2	878.2	884.6	891.2	898.1	902.7	900.5	898.4	900.5
37.5°	740.8	744.1	747.3	753.7	761.0	768.2	775.2	780.0	777.9	775.9	777.9
40°	649.3	653.5	657.8	664.7	672.4	679.2	685.2	689.2	687.5	685.8	687.5
42.5°	551.5	557.2	562.8	570.5	578.9	585.9	591.6	593.5	584.3	575.0	584.3
45°	347.2	379.3	411.4	426.4	435.8	439.5	437.3	428.8	401.0	373.2	401.0
47.5°	163.5	195.2	227.0	258.4	289.8	295.4	275.1	252.6	223.6	194.5	223.6
50°	102.0	113.5	125.0	159.7	202.0	208.4	178.9	152.1	133.3	114.5	133.3
52.5°	68.9	74.6	80.3	106.8	140.3	142.6	113.8	90.1	81.9	73.7	81.9
55°	36.6	38.3	40.0	50.7	64.3	64.6	51.3	40.6	37.6	34.6	37.6
57.5°	14.0	16.5	19.0	23.8	29.3	29.3	23.7	18.7	15.8	12.9	15.8
60°	1.0	3.1	5.2	9.9	15.5	16.1	11.9	8.0	5.5	2.9	5.5
62.5°	0.2	0.6	1.0	4.3	8.5	8.8	5.2	2.3	1.4	0.6	1.4
65°	0.0	0.0	0.0	0.3	0.7	0.7	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°	2.7	2.7	2.7	2.7	2.5	2.5	2.1	1.5	1.0	0.4	1.0
90°	13.5	13.5	13.5	13.5	12.5	12.5	10.6	7.7	4.8	1.9	4.8
92.5°	16.5	16.5	15.8	15.8	14.8	13.3	11.3	10.8	11.7	6.5	12.5
95°	14.4	14.4	14.4	14.4	16.4	22.1	30.8	32.7	22.1	19.2	26.9
97.5°	34.0	36.4	39.6	47.7	56.2	60.6	56.9	41.4	40.0	38.3	51.2
100°	70.2	70.2	75.0	80.8	92.3	76.0	57.7	56.7	53.9	52.9	67.3
102.5°	111.0	113.3	115.8	117.0	90.8	82.1	79.3	73.7	69.2	68.3	83.5
105°	149.1	142.3	122.1	110.6	110.6	112.5	110.6	103.9	94.3	91.4	107.7
107.5°	145.8	142.9	145.4	146.6	151.2	149.8	145.8	133.5	120.0	117.5	132.0
110°	171.2	172.2	173.1	175.0	178.9	176.0	171.2	155.8	138.5	133.7	148.1

TEST NUMBER: P709253

CATALOG NUMBER: DL2W-BB-M-050U-050D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	201.2	200.6	203.1	204.3	204.3	202.9	195.1	175.8	157.0	151.4	164.3
115°	243.3	245.3	246.2	247.2	246.2	244.3	229.9	208.7	185.6	176.0	187.6
117.5°	291.8	287.4	288.7	289.5	290.1	283.2	267.4	242.4	215.6	201.4	210.2
120°	320.3	317.4	316.4	316.4	315.5	307.8	290.5	265.5	235.6	218.3	224.1
122.5°	345.7	345.1	344.9	344.1	343.9	333.2	314.3	287.8	257.2	236.0	237.9
125°	386.6	387.6	384.7	380.9	379.9	370.3	350.1	322.2	289.5	262.6	259.7
127.5°	425.5	427.4	424.3	422.2	417.0	403.8	384.5	356.6	320.1	289.9	280.5
130°	450.1	452.0	448.2	445.3	438.6	426.1	406.8	378.9	342.4	306.8	294.3
132.5°	474.7	475.1	471.3	467.6	460.1	447.6	428.4	401.3	362.4	326.8	310.5
135°	508.8	509.8	504.9	500.1	488.6	479.0	460.7	433.8	394.3	356.8	334.7
137.5°	536.9	537.1	532.8	525.7	518.0	505.7	488.8	463.4	427.0	386.6	358.6
140°	553.0	554.0	548.2	543.4	535.7	524.2	508.8	481.9	446.3	405.9	377.0
142.5°	566.9	567.8	563.6	558.8	551.1	539.6	525.7	500.3	465.5	425.9	394.7
145°	585.7	588.6	584.8	580.0	573.2	562.7	548.2	525.1	493.4	454.9	420.3
147.5°	605.7	605.9	603.0	600.2	592.5	581.1	570.7	547.6	517.4	483.6	447.4
150°	616.5	617.5	614.6	611.7	604.0	593.4	583.8	560.7	532.8	502.1	467.4
152.5°	625.7	627.5	625.4	621.7	614.8	603.4	594.6	573.0	547.5	518.2	485.1
155°	638.6	641.5	639.6	635.7	628.1	617.5	608.8	590.5	566.5	540.5	510.7
157.5°	650.9	653.6	651.5	646.9	639.0	629.6	621.3	604.0	583.6	560.9	533.6
160°	657.9	659.8	656.9	653.1	644.4	635.7	629.0	611.7	594.4	573.2	548.2
162.5°	661.7	664.4	661.5	656.9	648.3	640.4	634.4	618.6	602.1	583.2	561.3
165°	666.5	667.5	665.6	661.7	652.1	645.4	640.6	628.1	612.7	597.3	580.0
167.5°	666.1	670.0	667.1	663.4	653.1	648.3	643.8	632.7	621.3	608.4	595.5
170°	664.6	668.5	665.6	662.7	653.1	648.3	645.4	635.7	625.2	614.6	604.0
172.5°	660.8	663.8	661.7	658.8	650.0	645.9	644.6	636.5	627.5	619.2	610.2
175°	650.2	654.0	653.1	650.2	642.5	640.6	641.5	635.7	630.0	625.2	618.4
177.5°	636.9	640.8	639.2	637.7	632.3	631.5	634.6	631.5	628.4	626.9	623.8
180°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1

TEST NUMBER: P709253

CATALOG NUMBER: DL2W-BB-M-050U-050D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1293.7	1293.7	1293.7	1293.7	1293.7	1293.7	1293.7	1293.7
2.5°	1296.4	1292.7	1288.3	1288.6	1293.7	1297.2	1295.9	1294.5
5°	1295.0	1290.9	1285.7	1287.2	1295.3	1301.2	1300.4	1299.5
7.5°	1294.8	1291.9	1288.5	1290.4	1297.5	1302.4	1300.6	1298.9
10°	1297.6	1293.7	1288.6	1289.2	1295.7	1300.0	1298.3	1296.6
12.5°	1302.5	1296.6	1288.0	1286.3	1291.3	1294.5	1292.1	1289.7
15°	1305.9	1297.6	1284.8	1278.6	1279.0	1278.6	1275.6	1272.6
17.5°	1295.5	1284.1	1266.5	1255.8	1251.7	1247.6	1243.1	1238.5
20°	1278.5	1265.8	1246.6	1233.8	1227.4	1221.6	1217.7	1213.9
22.5°	1250.8	1237.4	1217.1	1204.3	1198.9	1193.8	1189.6	1185.4
25°	1196.4	1184.4	1166.9	1155.3	1149.8	1145.0	1142.4	1139.8
27.5°	1126.3	1115.5	1100.3	1089.8	1084.1	1078.7	1074.5	1070.2
30°	1071.5	1061.9	1049.1	1039.5	1033.1	1026.8	1020.8	1014.8
32.5°	1006.5	999.8	991.5	983.6	976.1	969.1	963.5	957.8
35°	902.7	898.1	891.2	884.6	878.2	872.2	867.5	862.8
37.5°	780.0	775.2	768.2	761.0	753.7	747.3	744.1	740.8
40°	689.2	685.2	679.2	672.4	664.7	657.8	653.5	649.3
42.5°	593.5	591.6	585.9	578.9	570.5	562.8	557.2	551.5
45°	428.8	437.3	439.5	435.8	426.4	411.4	379.3	347.2
47.5°	252.6	275.1	295.4	289.8	258.4	227.0	195.2	163.5
50°	152.1	178.9	208.4	202.0	159.7	125.0	113.5	102.0
52.5°	90.1	113.8	142.6	140.3	106.8	80.3	74.6	68.9
55°	40.6	51.3	64.6	64.3	50.7	40.0	38.3	36.6
57.5°	18.7	23.7	29.3	29.3	23.8	19.0	16.5	14.0
60°	8.0	11.9	16.1	15.5	9.9	5.2	3.1	1.0
62.5°	2.3	5.2	8.8	8.5	4.3	1.0	0.6	0.2
65°	0.0	0.3	0.7	0.7	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°	1.3	2.1	3.1	4.0	4.8	5.2	5.6	5.8
90°	6.7	10.6	15.4	20.2	24.0	26.0	27.9	28.9
92.5°	17.5	23.7	30.8	36.4	42.5	46.7	48.7	48.9
95°	40.4	49.1	59.6	69.2	76.9	82.7	86.6	87.5
97.5°	62.1	78.3	90.0	101.2	112.3	119.3	123.7	124.3
100°	79.8	95.2	111.6	121.2	134.7	142.3	145.2	148.1
102.5°	99.1	112.1	130.0	144.3	157.0	163.9	169.9	172.7
105°	126.0	142.3	157.7	174.1	188.5	196.2	202.0	204.9
107.5°	151.6	171.6	187.0	202.9	215.6	225.1	232.0	234.9
110°	169.3	188.5	207.7	222.2	235.6	244.3	252.0	254.9

TEST NUMBER: P709253

CATALOG NUMBER: DL2W-BB-M-050U-050D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	186.2	206.2	227.0	243.0	255.6	266.6	272.0	277.2
115°	209.7	231.8	253.0	273.2	286.6	294.3	299.1	303.0
117.5°	230.4	252.8	274.5	294.7	308.5	314.9	317.8	321.4
120°	244.3	267.4	287.6	307.8	323.2	331.8	334.7	337.6
122.5°	257.4	279.7	300.7	320.1	335.5	344.9	349.3	351.4
125°	275.1	297.2	318.4	337.6	351.1	362.6	368.4	370.3
127.5°	289.7	311.8	334.1	352.6	366.8	376.4	382.2	384.9
130°	302.0	320.3	343.4	362.6	376.1	385.7	391.5	393.4
132.5°	312.8	328.0	349.5	369.5	383.8	394.1	398.4	401.1
135°	331.8	339.5	357.8	378.9	394.3	403.0	407.8	410.7
137.5°	350.3	352.4	363.9	383.4	398.8	408.4	413.2	415.1
140°	362.6	361.6	369.3	385.7	401.1	410.7	415.5	417.4
142.5°	376.4	373.2	377.0	388.8	402.6	412.2	417.8	419.0
145°	399.1	390.5	387.6	394.3	404.9	413.6	418.4	419.3
147.5°	424.5	411.3	403.0	404.1	410.1	416.3	419.9	420.7
150°	441.5	425.1	414.5	412.6	415.5	419.3	422.2	422.2
152.5°	456.9	441.3	426.8	423.4	422.4	424.7	426.8	426.1
155°	483.8	464.5	448.2	442.4	437.6	436.7	435.7	434.7
157.5°	510.7	489.7	471.3	462.6	457.4	454.4	452.2	449.7
160°	526.1	505.9	486.7	478.0	471.3	467.4	464.5	463.6
162.5°	540.7	522.8	504.4	492.6	486.7	481.3	479.9	476.7
165°	561.7	547.3	527.1	515.5	510.7	506.9	504.0	500.1
167.5°	582.5	569.0	552.1	540.9	535.5	531.7	528.4	526.3
170°	592.5	582.9	567.5	557.8	554.0	550.1	545.3	542.5
172.5°	602.5	594.4	582.1	573.2	571.7	567.1	565.3	561.7
175°	614.6	609.8	600.2	595.4	595.4	593.4	593.4	588.6
177.5°	623.1	621.5	615.4	612.3	614.6	614.6	613.8	611.5
180°	626.1	626.1	626.1	626.1	626.1	626.1	626.1	626.1

(END OF REPORT)