

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: P709241

Luminaire Tested: DL2W-BB-M-025U-050D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709241
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-930-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: 2864.8 lumens
Efficiency: N/A
Efficacy: 111.9 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

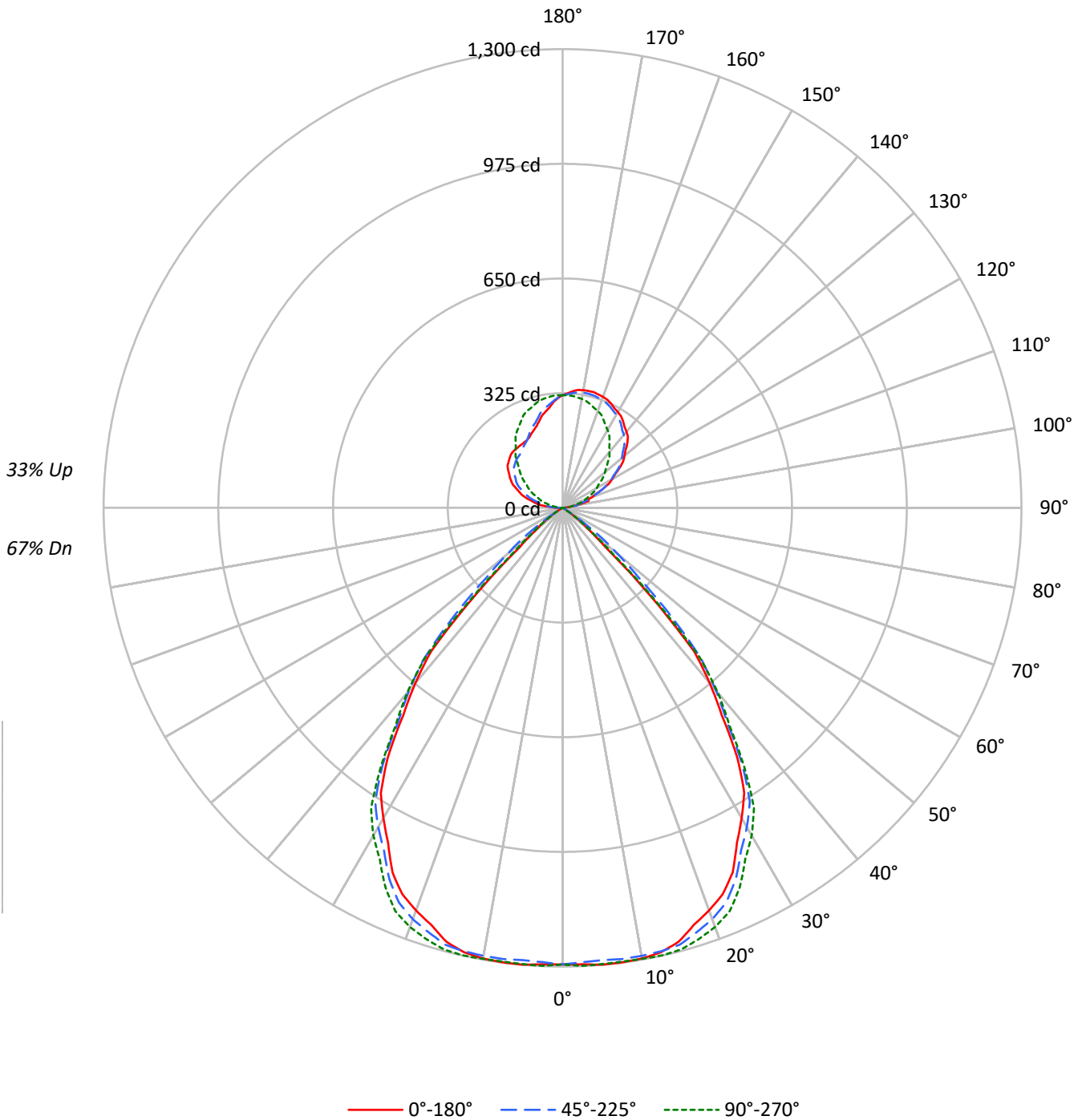
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	20889	20889	20889	20889	20889
5°	21063	20852	21032	20852	21063
10°	21259	21133	21276	21133	21259
15°	21274	21426	21660	21426	21274
20°	20859	21311	21718	21311	20859
25°	20307	20687	21148	20687	20307
30°	18921	19471	19978	19471	18921
35°	17008	17503	17710	17503	17008
40°	13685	14244	14457	14244	13685
45°	7930	9994	8522	9994	7930
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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	4.3
10°-20°	361.9	12.6
20°-30°	532.5	18.6
30°-40°	544.1	19.0
40°-50°	312.8	10.9
50°-60°	54.6	1.9
60°-70°	2.0	0.1
70°-80°	0.0	0.0
80°-90°	1.7	0.1
90°-100°	25.5	0.9
100°-110°	74.1	2.6
110°-120°	120.9	4.2
120°-130°	153.3	5.4
130°-140°	164.1	5.7
140°-150°	153.2	5.3
150°-160°	126.1	4.4
160°-170°	84.6	3.0
170°-180°	30.0	1.0
0°-30°	1018.1	35.5
0°-40°	1562.2	54.5
0°-60°	1929.6	67.4
0°-90°	1933.3	67.5
90°-120°	220.5	7.7
90°-150°	691.1	24.1
90°-180°	932.0	32.5
0°-180°	2864.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1294	1294	1294	1294	1294	
5°	1300	1287	1298	1287	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°	7	6	1	9	15	3
95°	8	10	11	32	44	13
105°	77	57	47	85	105	71
115°	125	125	90	134	155	123
125°	197	192	134	167	188	176
135°	260	247	181	187	209	199
145°	299	289	232	199	214	187
155°	326	317	275	226	221	150
165°	340	331	304	265	255	96
175°	332	326	318	303	300	32
180°	319	319	319	319	319	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1293.8	1293.8	1293.8	1293.8	1293.8	1293.8	1293.8	1293.8	1293.8	1293.8	1293.8
2.5°	1294.6	1296.0	1297.3	1293.8	1288.7	1288.4	1292.8	1296.5	1297.9	1299.2	1297.9
5°	1299.6	1300.5	1301.3	1295.4	1287.3	1285.8	1290.9	1295.1	1296.4	1297.7	1296.4
7.5°	1299.0	1300.7	1302.4	1297.6	1290.5	1288.6	1292.0	1294.9	1295.9	1296.9	1295.9
10°	1296.7	1298.4	1300.1	1295.8	1289.3	1288.7	1293.8	1297.7	1297.7	1297.7	1297.7
12.5°	1289.8	1292.2	1294.6	1291.4	1286.4	1288.1	1296.7	1302.6	1300.9	1299.2	1300.9
15°	1272.7	1275.7	1278.7	1279.1	1278.7	1284.9	1297.7	1306.0	1300.9	1295.8	1300.9
17.5°	1238.6	1243.1	1247.7	1251.8	1255.8	1266.6	1284.1	1295.6	1288.6	1281.7	1288.6
20°	1214.0	1217.8	1221.7	1227.5	1233.9	1246.7	1265.9	1278.5	1271.3	1264.0	1271.3
22.5°	1185.5	1189.7	1193.9	1199.0	1204.4	1217.2	1237.5	1250.9	1244.0	1237.1	1244.0
25°	1139.9	1142.5	1145.0	1149.9	1155.4	1167.0	1184.5	1196.5	1191.8	1187.1	1191.8
27.5°	1070.3	1074.5	1078.8	1084.2	1089.9	1100.4	1115.6	1126.4	1124.0	1121.6	1124.0
30°	1014.9	1020.9	1026.8	1033.1	1039.6	1049.2	1062.0	1071.6	1071.6	1071.6	1071.6
32.5°	957.9	963.6	969.2	976.2	983.6	991.5	999.9	1006.5	1007.9	1009.3	1007.9
35°	862.9	867.6	872.3	878.3	884.7	891.3	898.1	902.7	900.6	898.5	900.6
37.5°	740.9	744.1	747.4	753.7	761.1	768.3	775.3	780.0	778.0	775.9	778.0
40°	649.3	653.6	657.9	664.7	672.4	679.2	685.2	689.3	687.6	685.9	687.6
42.5°	551.6	557.2	562.9	570.6	578.9	586.0	591.6	593.5	584.3	575.1	584.3
45°	347.3	379.3	411.4	426.5	435.9	439.5	437.4	428.8	401.0	373.2	401.0
47.5°	163.5	195.3	227.0	258.4	289.8	295.4	275.1	252.7	223.6	194.5	223.6
50°	102.0	113.5	125.1	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	29.4	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°	1.3	1.3	1.3	1.3	1.3	1.2	1.2	0.8	0.6	0.2	0.4
90°	6.7	6.7	6.7	6.7	6.7	5.8	5.8	3.8	2.9	1.0	1.9
92.5°	8.3	8.3	8.3	8.3	7.5	6.5	5.8	5.4	6.0	3.3	6.5
95°	7.7	7.7	7.7	7.7	8.7	11.5	15.4	16.4	11.5	10.6	14.4
97.5°	17.5	18.7	19.8	23.5	29.4	30.6	29.0	20.4	20.2	19.2	26.0
100°	33.7	35.6	37.5	40.4	47.1	37.5	29.8	28.9	27.9	26.9	33.7
102.5°	56.0	57.1	59.8	59.6	46.4	41.4	39.8	38.1	35.6	34.6	42.1
105°	76.9	72.1	63.5	55.8	56.7	56.7	56.7	51.9	48.1	47.1	54.8
107.5°	73.9	72.9	73.9	75.6	76.6	76.4	74.1	67.9	61.2	59.8	67.5
110°	88.5	87.5	88.5	89.4	90.4	89.4	85.6	77.9	71.2	68.3	76.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	101.6	102.1	103.1	104.1	104.3	103.3	98.7	89.4	80.4	76.8	83.7
115°	125.0	125.0	125.0	126.0	126.0	124.1	117.3	106.8	95.2	90.4	95.2
117.5°	147.7	147.0	147.0	147.0	147.0	143.7	135.8	123.1	110.2	103.1	107.5
120°	161.6	161.6	161.6	161.6	161.6	156.8	148.1	134.7	120.2	111.6	114.5
122.5°	176.2	175.4	176.2	175.4	174.7	169.9	159.7	146.2	131.0	120.0	121.4
125°	197.2	197.2	195.2	195.2	194.3	189.5	177.9	163.5	147.2	133.7	132.7
127.5°	216.6	217.4	214.9	213.9	212.4	205.6	195.2	181.8	162.5	146.8	142.3
130°	228.9	228.9	227.9	227.0	223.1	216.4	206.8	193.3	174.1	156.8	150.0
132.5°	242.0	242.0	241.0	238.5	233.9	227.9	218.3	204.9	184.9	166.8	157.7
135°	259.7	258.7	256.8	254.9	250.1	243.3	234.7	221.2	201.0	180.8	170.2
137.5°	274.1	273.2	271.4	267.8	263.9	257.4	248.7	236.0	217.2	196.8	182.2
140°	281.8	280.8	279.9	277.0	273.2	267.4	258.7	245.3	227.9	206.8	191.4
142.5°	288.7	288.5	286.8	284.7	280.8	274.3	267.2	254.5	237.2	217.6	200.6
145°	299.1	299.1	298.2	296.2	292.4	285.7	279.9	268.3	251.0	231.8	214.5
147.5°	308.2	308.4	307.2	305.3	301.6	295.8	290.3	278.7	263.7	246.4	228.3
150°	313.5	314.5	312.6	310.7	307.8	302.0	297.2	285.7	272.2	254.9	237.6
152.5°	318.2	319.9	318.0	316.8	313.2	307.4	302.6	291.8	279.1	264.1	246.8
155°	326.0	327.0	325.1	324.1	319.3	314.5	310.7	300.1	288.5	275.1	260.6
157.5°	331.6	332.6	331.6	329.7	324.9	320.3	316.4	307.8	297.4	286.2	272.2
160°	334.7	335.7	334.7	332.8	328.0	324.1	320.3	311.6	302.0	292.4	279.9
162.5°	337.0	338.0	337.0	335.1	330.3	326.4	323.4	315.5	306.6	297.0	286.0
165°	339.5	340.5	339.5	336.6	332.8	328.9	326.0	319.3	311.6	303.9	296.2
167.5°	339.3	341.2	339.5	338.4	332.8	330.9	328.2	322.4	316.0	309.7	302.4
170°	338.6	340.5	339.5	337.6	332.8	330.9	328.9	323.2	318.4	313.5	307.8
172.5°	337.0	338.2	337.2	336.1	331.2	329.3	328.2	323.9	319.9	315.9	310.9
175°	331.8	333.7	332.8	331.8	327.0	326.0	327.0	323.2	320.3	318.4	315.5
177.5°	324.7	326.2	325.5	324.7	322.4	321.6	323.2	321.6	320.1	319.3	317.8
180°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1293.8	1293.8	1293.8	1293.8	1293.8	1293.8	1293.8	1293.8
2.5°	1296.5	1292.8	1288.4	1288.7	1293.8	1297.3	1296.0	1294.6
5°	1295.1	1290.9	1285.8	1287.3	1295.4	1301.3	1300.5	1299.6
7.5°	1294.9	1292.0	1288.6	1290.5	1297.6	1302.4	1300.7	1299.0
10°	1297.7	1293.8	1288.7	1289.3	1295.8	1300.1	1298.4	1296.7
12.5°	1302.6	1296.7	1288.1	1286.4	1291.4	1294.6	1292.2	1289.8
15°	1306.0	1297.7	1284.9	1278.7	1279.1	1278.7	1275.7	1272.7
17.5°	1295.6	1284.1	1266.6	1255.8	1251.8	1247.7	1243.1	1238.6
20°	1278.5	1265.9	1246.7	1233.9	1227.5	1221.7	1217.8	1214.0
22.5°	1250.9	1237.5	1217.2	1204.4	1199.0	1193.9	1189.7	1185.5
25°	1196.5	1184.5	1167.0	1155.4	1149.9	1145.0	1142.5	1139.9
27.5°	1126.4	1115.6	1100.4	1089.9	1084.2	1078.8	1074.5	1070.3
30°	1071.6	1062.0	1049.2	1039.6	1033.1	1026.8	1020.9	1014.9
32.5°	1006.5	999.9	991.5	983.6	976.2	969.2	963.6	957.9
35°	902.7	898.1	891.3	884.7	878.3	872.3	867.6	862.9
37.5°	780.0	775.3	768.3	761.1	753.7	747.4	744.1	740.9
40°	689.3	685.2	679.2	672.4	664.7	657.9	653.6	649.3
42.5°	593.5	591.6	586.0	578.9	570.6	562.9	557.2	551.6
45°	428.8	437.4	439.5	435.9	426.5	411.4	379.3	347.3
47.5°	252.7	275.1	295.4	289.8	258.4	227.0	195.3	163.5
50°	152.1	178.9	208.4	202.0	159.7	125.1	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	29.4	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°	0.8	1.2	1.5	1.9	2.5	2.7	2.9	3.1
90°	3.8	5.8	7.7	9.6	12.5	13.5	14.4	15.4
92.5°	8.5	11.9	15.4	18.1	21.7	24.2	24.4	25.4
95°	20.2	25.0	29.8	34.6	39.4	43.3	44.2	44.2
97.5°	32.1	39.6	46.0	51.7	57.3	60.6	62.7	64.6
100°	41.4	48.1	56.7	62.5	67.3	72.1	75.0	76.9
102.5°	50.6	57.3	66.0	73.3	80.4	83.7	87.3	88.5
105°	64.4	72.1	80.8	89.4	95.2	100.0	102.9	104.8
107.5°	77.3	86.9	95.2	103.3	109.3	115.0	118.7	119.8
110°	86.6	96.2	106.8	112.5	119.3	125.0	127.9	129.8

TEST NUMBER: P709241

CATALOG NUMBER: DL2W-BB-M-025U-050D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	95.0	105.4	116.0	123.3	130.0	135.8	138.7	140.6
115°	106.8	117.3	127.9	139.5	146.2	150.0	152.9	154.8
117.5°	117.3	128.9	139.5	149.8	157.5	160.6	162.5	163.7
120°	125.0	136.6	147.2	156.8	164.5	168.3	170.2	172.2
122.5°	131.2	142.7	153.3	162.9	170.6	175.2	177.9	179.1
125°	140.4	151.0	162.5	171.2	178.9	184.7	187.6	188.5
127.5°	147.7	158.7	170.2	179.3	187.0	191.6	194.5	196.2
130°	153.9	162.5	174.1	184.7	192.4	196.2	199.1	200.1
132.5°	160.0	167.2	177.9	188.5	196.2	200.8	203.7	204.7
135°	168.3	172.2	181.8	192.4	200.1	204.9	207.7	208.7
137.5°	178.7	180.0	185.4	195.4	203.3	208.1	210.8	211.8
140°	185.6	184.7	188.5	196.2	204.9	209.7	211.6	212.6
142.5°	191.8	190.1	191.6	197.7	204.9	209.7	212.4	212.6
145°	203.9	199.1	197.2	201.0	205.8	210.6	213.5	213.5
147.5°	215.6	209.7	205.2	206.0	208.5	212.0	213.7	213.9
150°	224.1	217.4	210.6	210.6	211.6	213.5	214.5	215.4
152.5°	233.3	225.1	217.6	216.0	215.4	215.8	217.6	217.0
155°	246.2	236.6	227.9	225.1	223.1	222.2	222.2	221.2
157.5°	258.9	250.1	239.7	235.6	232.6	230.8	229.7	228.7
160°	267.4	257.8	248.1	243.3	239.5	238.5	236.6	235.6
162.5°	275.8	265.5	256.6	251.0	247.2	246.2	245.1	243.3
165°	286.6	278.9	268.3	262.6	260.6	257.8	256.8	254.9
167.5°	296.6	290.3	281.8	276.2	272.6	270.6	269.7	267.8
170°	302.0	297.2	289.5	284.7	281.8	279.9	278.9	277.0
172.5°	306.6	302.6	296.4	292.4	290.3	289.1	287.4	286.2
175°	312.6	310.7	304.9	302.0	303.0	302.0	302.0	300.1
177.5°	317.0	316.2	313.2	311.6	313.9	313.2	313.2	310.9
180°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3

(END OF REPORT)