

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: P709327

Luminaire Tested: DL2W-WB-M-025U-050D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

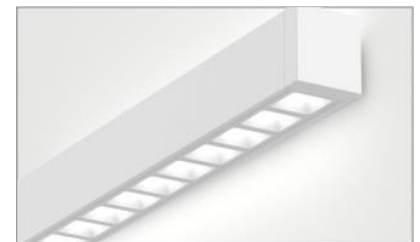
Test Information

Test Method: LM-79-2019
Report Number: P709327
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-1, G3-2104-222-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-025U-050D-940-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: 3344.5 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

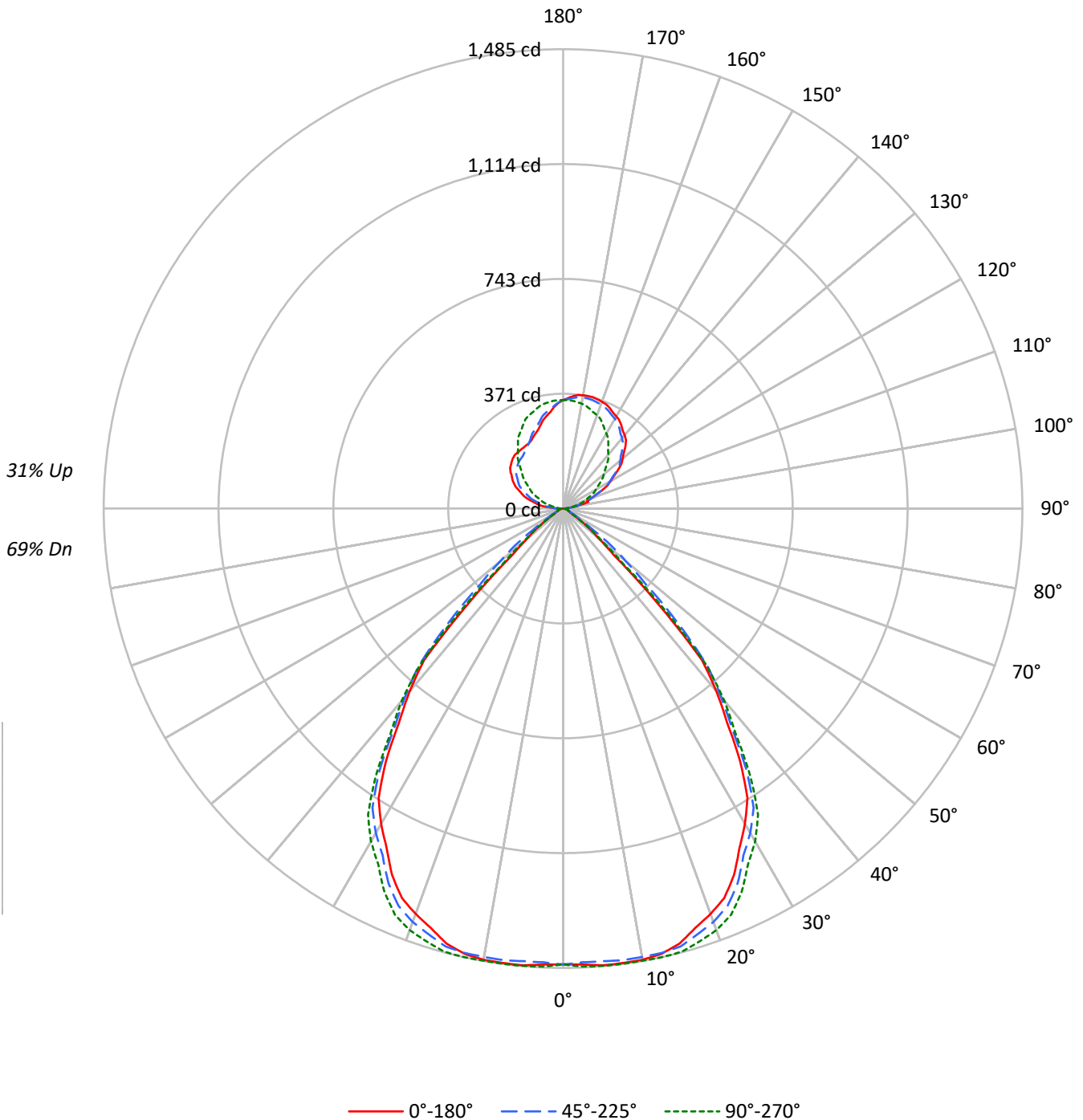
Input Watts (W): 25.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69				
1	105	101	98	95	99	96	93	91	86	84	82	77	76	75	69	68	67	63				
2	97	91	86	82	92	87	83	79	79	75	73	71	69	67	64	62	61	57				
3	91	83	77	72	86	79	74	69	72	68	64	65	62	60	59	57	55	52				
4	84	75	69	63	80	72	66	61	66	61	57	60	57	54	55	52	50	47				
5	79	69	62	57	75	66	60	55	61	55	52	56	52	48	51	48	45	43				
6	73	63	56	51	70	60	54	49	56	50	47	51	47	44	47	44	41	39				
7	69	58	51	46	65	56	49	45	51	46	42	48	43	40	44	40	38	36				
8	64	53	46	41	61	51	45	40	48	42	38	44	40	37	41	37	35	33				
9	60	49	42	38	58	47	41	37	44	39	35	41	37	34	38	35	32	30				
10	57	46	39	35	54	44	38	34	41	36	32	38	34	31	36	32	29	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	23791	23791	23791	23791	23791
5°	24018	23803	24052	23803	24018
10°	24279	24128	24330	24128	24279
15°	24329	24495	24789	24495	24329
20°	23953	24430	24917	24430	23953
25°	23291	23802	24346	23802	23291
30°	21929	22565	23152	22565	21929
35°	19681	20408	20808	20408	19681
40°	16252	16737	17100	16737	16252
45°	9757	12085	10821	12085	9757
50°	3853	6664	4197	6664	3853
55°	2055	3023	2024	3023	2055
60°	888	1506	956	1506	888
65°	810	917	848	917	810
70°	798	854	850	854	798
75°	724	852	792	852	724
80°	688	790	790	790	688
85°	593	778	778	778	593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 12166 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	4.2
10°-20°	414.0	12.4
20°-30°	613.0	18.3
30°-40°	635.0	19.0
40°-50°	381.7	11.4
50°-60°	91.1	2.7
60°-70°	24.9	0.7
70°-80°	13.9	0.4
80°-90°	5.9	0.2
90°-100°	28.0	0.8
100°-110°	81.5	2.4
110°-120°	132.8	4.0
120°-130°	168.5	5.0
130°-140°	180.3	5.4
140°-150°	168.3	5.0
150°-160°	138.6	4.1
160°-170°	93.0	2.8
170°-180°	33.0	1.0
0°-30°	1168.1	34.9
0°-40°	1803.1	53.9
0°-60°	2275.9	68.0
0°-90°	2320.5	69.4
90°-120°	242.2	7.2
90°-150°	759.4	22.7
90°-180°	1024.0	30.6
0°-180°	3344.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1474	1474	1474	1474	1474	
5°	1482	1469	1484	1469	1482	141
15°	1456	1465	1483	1465	1456	409
25°	1307	1336	1367	1336	1307	597
35°	998	1035	1056	1035	998	615
45°	427	529	474	529	427	337
55°	73	107	72	107	73	70
65°	21	24	22	24	21	22
75°	12	14	13	14	12	13
85°	3	4	4	4	3	4
90°	7	7	1	10	17	4
95°	8	11	12	35	49	14
105°	84	62	52	94	115	78
115°	137	137	99	147	170	136
125°	217	211	147	183	207	193
135°	285	271	199	206	229	219
145°	329	318	255	219	235	206
155°	358	348	302	249	243	165
165°	373	364	334	292	280	105
175°	365	359	350	333	330	35
180°	351	351	351	351	351	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1475.2	1476.7	1478.2	1474.0	1468.0	1467.6	1472.9	1477.4	1479.7	1481.9	1479.7
5°	1481.9	1482.9	1483.8	1477.7	1469.2	1468.1	1474.2	1479.3	1481.7	1484.0	1481.7
7.5°	1481.7	1483.1	1484.5	1479.6	1472.6	1471.6	1476.8	1481.0	1482.5	1484.0	1482.5
10°	1480.9	1482.3	1483.7	1478.8	1471.7	1471.7	1478.8	1484.0	1484.0	1484.0	1484.0
12.5°	1474.1	1476.3	1478.4	1475.1	1469.9	1472.2	1481.9	1488.7	1486.8	1484.9	1486.8
15°	1455.5	1458.8	1462.1	1462.5	1462.1	1468.7	1482.3	1491.5	1487.2	1483.0	1487.2
17.5°	1421.2	1425.7	1430.2	1434.1	1437.8	1449.0	1467.8	1480.3	1473.7	1467.1	1473.7
20°	1394.1	1397.9	1401.7	1407.9	1414.9	1428.8	1449.5	1463.4	1456.8	1450.2	1456.8
22.5°	1362.0	1366.1	1370.3	1376.3	1383.0	1397.4	1419.6	1434.5	1427.5	1420.6	1427.5
25°	1307.4	1311.2	1314.9	1321.5	1329.0	1343.1	1363.8	1377.9	1372.3	1366.6	1372.3
27.5°	1235.5	1239.6	1243.7	1250.1	1257.1	1269.6	1287.4	1300.2	1297.7	1295.1	1297.7
30°	1176.2	1181.9	1187.5	1195.6	1204.6	1216.1	1230.2	1240.9	1241.3	1241.8	1241.3
32.5°	1109.4	1116.9	1124.4	1132.7	1141.3	1152.0	1165.0	1174.6	1173.9	1173.3	1173.9
35°	998.5	1006.5	1014.5	1022.9	1031.3	1039.5	1047.5	1053.8	1054.7	1055.7	1054.7
37.5°	870.1	873.2	876.3	883.9	893.1	901.9	910.5	916.7	916.0	915.4	916.0
40°	771.1	771.6	772.1	779.6	789.4	798.8	807.8	814.1	812.7	811.3	812.7
42.5°	665.3	667.3	669.3	677.5	687.7	696.2	702.9	705.2	694.8	684.4	694.8
45°	427.3	462.1	496.9	514.4	526.2	532.3	532.8	526.5	500.2	473.9	500.2
47.5°	223.6	257.9	292.2	327.0	361.9	370.1	351.5	329.4	296.5	263.6	296.5
50°	153.4	165.1	176.9	214.7	261.3	269.3	238.7	210.4	188.8	167.1	188.8
52.5°	111.9	119.2	126.4	155.8	192.5	195.8	165.6	140.3	129.6	118.9	129.6
55°	73.0	74.9	76.7	89.9	106.8	108.0	93.4	81.3	76.6	71.9	76.6
57.5°	43.6	47.5	51.5	57.5	64.1	64.3	58.0	52.3	48.1	44.0	48.1
60°	27.5	30.3	33.1	39.1	46.2	47.1	42.0	37.1	33.4	29.6	33.4
62.5°	25.0	25.9	26.8	31.0	36.1	36.5	32.1	28.5	27.4	26.2	27.4
65°	21.2	21.6	22.1	22.9	23.9	24.1	23.6	23.2	22.7	22.2	22.7
67.5°	18.6	19.1	19.6	20.0	20.3	20.6	20.7	20.6	20.1	19.7	20.1
70°	16.9	17.4	17.9	18.0	18.0	18.2	18.7	18.9	18.5	18.0	18.5
72.5°	15.2	15.3	15.4	15.7	16.1	16.3	16.4	16.5	16.4	16.3	16.4
75°	11.6	12.1	12.6	13.0	13.5	13.8	13.8	13.6	13.2	12.7	13.2
77.5°	9.1	9.6	10.0	10.2	10.2	10.3	10.7	10.9	10.5	10.2	10.5
80°	7.4	7.9	8.3	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
82.5°	5.7	6.2	6.7	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
85°	3.2	3.6	4.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
87.5°	2.3	2.3	2.3	2.6	3.0	3.0	3.0	2.5	2.3	1.9	2.1
90°	7.4	7.4	7.4	7.4	7.4	6.3	6.3	4.2	3.2	1.1	2.1
92.5°	9.1	9.1	9.1	9.1	8.2	7.2	6.3	5.9	6.6	3.6	7.2
95°	8.5	8.5	8.5	8.5	9.5	12.7	16.9	18.0	12.7	11.6	15.9
97.5°	19.2	20.5	21.8	25.8	32.3	33.6	31.9	22.4	22.2	21.1	28.5
100°	37.0	39.1	41.2	44.4	51.8	41.2	32.8	31.7	30.6	29.6	37.0
102.5°	61.5	62.8	65.7	65.5	50.9	45.4	43.8	41.8	39.1	38.0	46.3
105°	84.5	79.3	69.7	61.3	62.4	62.4	62.4	57.1	52.8	51.8	60.2
107.5°	81.2	80.1	81.2	83.1	84.1	83.9	81.4	74.6	67.2	65.7	74.2
110°	97.2	96.2	97.2	98.3	99.3	98.3	94.1	85.6	78.2	75.0	83.5

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	111.6	112.2	113.3	114.3	114.6	113.5	108.4	98.3	88.3	84.3	91.9
115°	137.4	137.4	137.4	138.4	138.4	136.3	128.9	117.3	104.6	99.3	104.6
117.5°	162.3	161.5	161.5	161.5	161.5	157.9	149.2	135.3	121.1	113.3	118.2
120°	177.5	177.5	177.5	177.5	177.5	172.3	162.7	148.0	132.1	122.6	125.8
122.5°	193.6	192.8	193.6	192.8	191.9	186.6	175.4	160.6	143.9	131.9	133.4
125°	216.6	216.6	214.5	214.5	213.5	208.2	195.5	179.7	161.7	146.9	145.8
127.5°	238.0	238.8	236.1	235.0	233.3	225.9	214.5	199.7	178.6	161.3	156.4
130°	251.5	251.5	250.5	249.4	245.2	237.8	227.2	212.4	191.3	172.3	164.9
132.5°	265.9	265.9	264.8	262.1	257.0	250.5	239.9	225.1	203.1	183.3	173.3
135°	285.3	284.3	282.2	280.1	274.8	267.4	257.9	243.1	220.9	198.7	187.1
137.5°	301.2	300.1	298.2	294.2	290.0	282.8	273.3	259.3	238.6	216.2	200.2
140°	309.6	308.6	307.5	304.4	300.1	293.8	284.3	269.5	250.5	227.2	210.3
142.5°	317.3	317.0	315.1	312.8	308.6	301.4	293.6	279.6	260.6	239.1	220.5
145°	328.7	328.7	327.6	325.5	321.3	313.9	307.5	294.9	275.8	254.7	235.7
147.5°	338.6	338.8	337.5	335.4	331.4	325.1	318.9	306.3	289.8	270.8	250.9
150°	344.5	345.6	343.5	341.4	338.2	331.8	326.6	313.9	299.1	280.1	261.0
152.5°	349.6	351.5	349.4	348.1	344.1	337.8	332.5	320.6	306.7	290.2	271.2
155°	358.3	359.3	357.2	356.1	350.9	345.6	341.4	329.7	317.0	302.2	286.4
157.5°	364.4	365.4	364.4	362.3	357.0	351.9	347.7	338.2	326.8	314.5	299.1
160°	367.8	368.8	367.8	365.7	360.4	356.1	351.9	342.4	331.8	321.3	307.5
162.5°	370.3	371.4	370.3	368.2	362.9	358.7	355.3	346.6	336.9	326.3	314.3
165°	373.1	374.1	373.1	369.9	365.7	361.4	358.3	350.9	342.4	334.0	325.5
167.5°	372.8	375.0	373.1	371.8	365.7	363.5	360.6	354.2	347.3	340.3	332.3
170°	372.0	374.1	373.1	370.9	365.7	363.5	361.4	355.1	349.8	344.5	338.2
172.5°	370.3	371.6	370.5	369.3	364.0	361.9	360.6	355.9	351.5	347.1	341.6
175°	364.6	366.7	365.7	364.6	359.3	358.3	359.3	355.1	351.9	349.8	346.6
177.5°	356.8	358.5	357.6	356.8	354.2	353.4	355.1	353.4	351.7	350.9	349.2
180°	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5	1473.5
2.5°	1477.4	1472.9	1467.6	1468.0	1474.0	1478.2	1476.7	1475.2
5°	1479.3	1474.2	1468.1	1469.2	1477.7	1483.8	1482.9	1481.9
7.5°	1481.0	1476.8	1471.6	1472.6	1479.6	1484.5	1483.1	1481.7
10°	1484.0	1478.8	1471.7	1471.7	1478.8	1483.7	1482.3	1480.9
12.5°	1488.7	1481.9	1472.2	1469.9	1475.1	1478.4	1476.3	1474.1
15°	1491.5	1482.3	1468.7	1462.1	1462.5	1462.1	1458.8	1455.5
17.5°	1480.3	1467.8	1449.0	1437.8	1434.1	1430.2	1425.7	1421.2
20°	1463.4	1449.5	1428.8	1414.9	1407.9	1401.7	1397.9	1394.1
22.5°	1434.5	1419.6	1397.4	1383.0	1376.3	1370.3	1366.1	1362.0
25°	1377.9	1363.8	1343.1	1329.0	1321.5	1314.9	1311.2	1307.4
27.5°	1300.2	1287.4	1269.6	1257.1	1250.1	1243.7	1239.6	1235.5
30°	1240.9	1230.2	1216.1	1204.6	1195.6	1187.5	1181.9	1176.2
32.5°	1174.6	1165.0	1152.0	1141.3	1132.7	1124.4	1116.9	1109.4
35°	1053.8	1047.5	1039.5	1031.3	1022.9	1014.5	1006.5	998.5
37.5°	916.7	910.5	901.9	893.1	883.9	876.3	873.2	870.1
40°	814.1	807.8	798.8	789.4	779.6	772.1	771.6	771.1
42.5°	705.2	702.9	696.2	687.7	677.5	669.3	667.3	665.3
45°	526.5	532.8	532.3	526.2	514.4	496.9	462.1	427.3
47.5°	329.4	351.5	370.1	361.9	327.0	292.2	257.9	223.6
50°	210.4	238.7	269.3	261.3	214.7	176.9	165.1	153.4
52.5°	140.3	165.6	195.8	192.5	155.8	126.4	119.2	111.9
55°	81.3	93.4	108.0	106.8	89.9	76.7	74.9	73.0
57.5°	52.3	58.0	64.3	64.1	57.5	51.5	47.5	43.6
60°	37.1	42.0	47.1	46.2	39.1	33.1	30.3	27.5
62.5°	28.5	32.1	36.5	36.1	31.0	26.8	25.9	25.0
65°	23.2	23.6	24.1	23.9	22.9	22.1	21.6	21.2
67.5°	20.6	20.7	20.6	20.3	20.0	19.6	19.1	18.6
70°	18.9	18.7	18.2	18.0	18.0	17.9	17.4	16.9
72.5°	16.5	16.4	16.3	16.1	15.7	15.4	15.3	15.2
75°	13.6	13.8	13.8	13.5	13.0	12.6	12.1	11.6
77.5°	10.9	10.7	10.3	10.2	10.2	10.0	9.6	9.1
80°	8.5	8.5	8.5	8.5	8.5	8.3	7.9	7.4
82.5°	6.8	6.8	6.8	6.8	6.8	6.7	6.2	5.7
85°	4.2	4.2	4.2	4.2	4.2	4.1	3.6	3.2
87.5°	2.5	3.0	3.4	3.6	3.9	3.8	4.0	4.2
90°	4.2	6.3	8.5	10.6	13.7	14.8	15.9	16.9
92.5°	9.3	13.1	16.9	19.9	23.9	26.6	26.8	27.9
95°	22.2	27.5	32.8	38.0	43.3	47.6	48.6	48.6
97.5°	35.3	43.5	50.5	56.9	63.0	66.6	68.9	71.0
100°	45.4	52.8	62.4	68.7	74.0	79.3	82.4	84.5
102.5°	55.6	63.0	72.5	80.5	88.3	91.9	96.0	97.2
105°	70.8	79.3	88.8	98.3	104.6	109.9	113.1	115.2
107.5°	85.0	95.5	104.6	113.5	120.1	126.4	130.4	131.7
110°	95.1	105.7	117.3	123.6	131.0	137.4	140.6	142.7

TEST NUMBER: P709327

CATALOG NUMBER: DL2W-WB-M-025U-050D-940-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	104.4	115.8	127.5	135.5	142.9	149.2	152.4	154.5
115°	117.3	128.9	140.6	153.2	160.6	164.9	168.0	170.1
117.5°	128.9	141.6	153.2	164.7	173.1	176.5	178.6	179.9
120°	137.4	150.1	161.7	172.3	180.7	184.9	187.1	189.2
122.5°	144.1	156.8	168.5	179.0	187.5	192.6	195.5	196.8
125°	154.3	165.9	178.6	188.1	196.6	202.9	206.1	207.1
127.5°	162.3	174.4	187.1	197.0	205.4	210.5	213.7	215.6
130°	169.1	178.6	191.3	202.9	211.4	215.6	218.8	219.8
132.5°	175.9	183.7	195.5	207.1	215.6	220.7	223.8	224.9
135°	184.9	189.2	199.7	211.4	219.8	225.1	228.3	229.3
137.5°	196.4	197.8	203.8	214.7	223.4	228.7	231.7	232.7
140°	204.0	202.9	207.1	215.6	225.1	230.4	232.5	233.6
142.5°	210.7	208.8	210.5	217.3	225.1	230.4	233.3	233.6
145°	224.0	218.8	216.6	220.9	226.2	231.4	234.6	234.6
147.5°	236.9	230.4	225.5	226.4	229.1	232.9	234.8	235.0
150°	246.2	238.8	231.4	231.4	232.5	234.6	235.7	236.7
152.5°	256.4	247.3	239.1	237.4	236.7	237.1	239.1	238.4
155°	270.5	260.0	250.5	247.3	245.2	244.1	244.1	243.1
157.5°	284.5	274.8	263.4	258.9	255.5	253.6	252.4	251.3
160°	293.8	283.2	272.7	267.4	263.1	262.1	260.0	258.9
162.5°	303.1	291.7	282.0	275.8	271.6	270.5	269.3	267.4
165°	314.9	306.5	294.9	288.5	286.4	283.2	282.2	280.1
167.5°	325.9	318.9	309.6	303.5	299.5	297.4	296.3	294.2
170°	331.8	326.6	318.1	312.8	309.6	307.5	306.5	304.4
172.5°	336.9	332.5	325.7	321.3	318.9	317.7	315.8	314.5
175°	343.5	341.4	335.0	331.8	332.9	331.8	331.8	329.7
177.5°	348.3	347.5	344.1	342.4	344.9	344.1	344.1	341.6
180°	350.9	350.9	350.9	350.9	350.9	350.9	350.9	350.9

(END OF REPORT)