

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: P709314

Luminaire Tested: DL2W-BB-M-150U-050D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

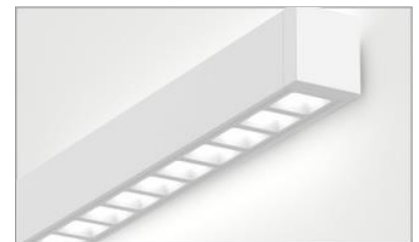
Test Information

Test Method: LM-79-2019
Report Number: P709314
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-6, 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-150U-050D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7836.9 lumens
Efficiency: N/A
Efficacy: 107.1 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: Semi-Indirect

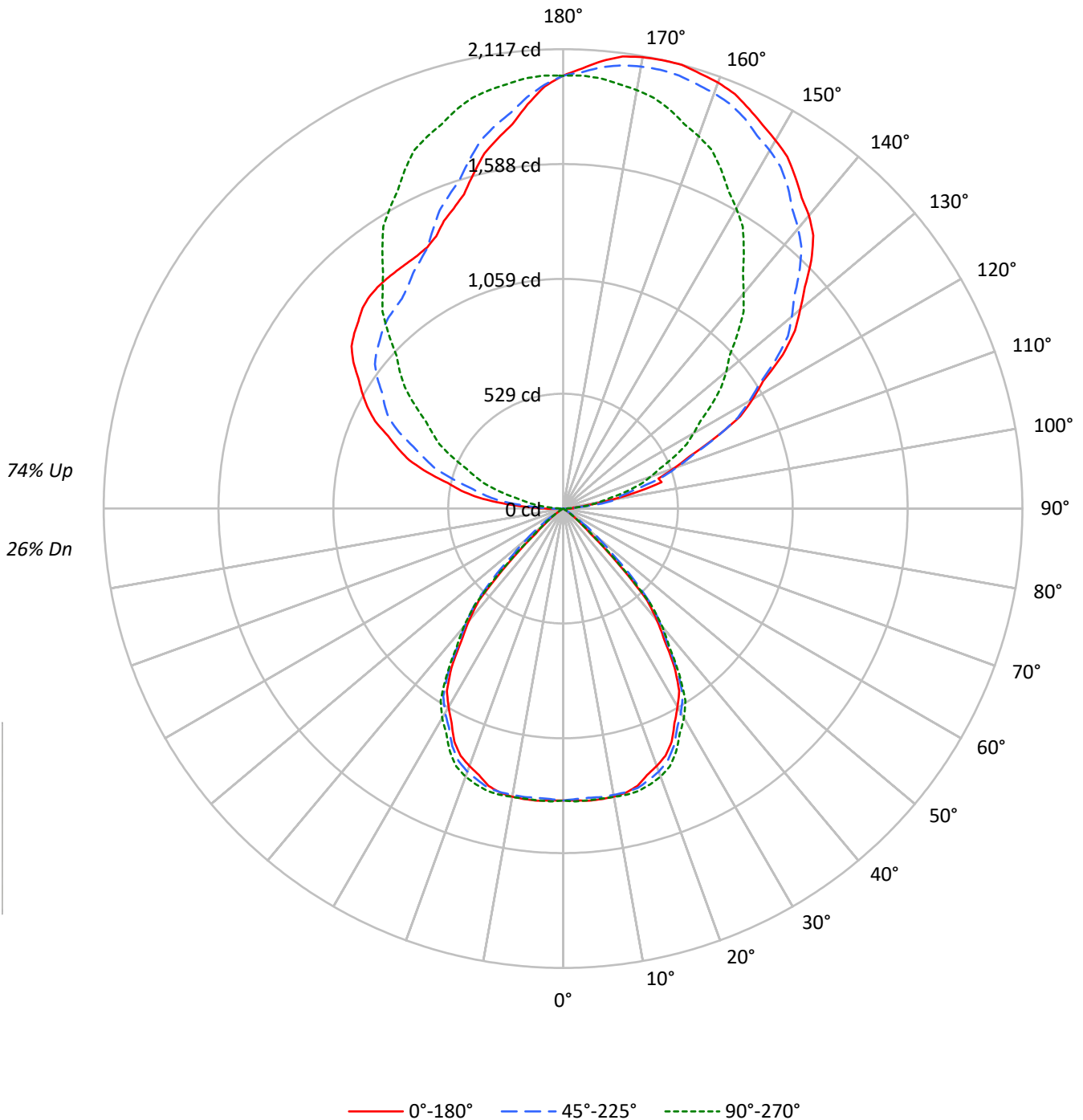
Input Watts (W): 73.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	93	90	86	83	83	80	77	75	62	61	59	46	45	44	31	31	30	24
2	86	79	74	70	77	71	67	63	56	53	51	42	40	39	29	28	27	22
3	79	71	64	59	70	64	58	54	50	47	44	38	36	34	27	25	24	20
4	73	63	56	51	65	57	51	47	45	41	38	35	32	30	25	23	22	18
5	67	57	50	44	60	51	45	41	41	37	34	32	29	27	23	21	20	16
6	62	51	44	39	55	46	40	36	37	33	30	29	26	24	21	19	18	15
7	57	46	39	34	51	42	36	32	34	30	26	26	24	21	19	18	16	14
8	53	42	35	30	48	38	32	28	31	27	24	24	21	19	18	16	15	12
9	50	39	32	27	45	35	29	25	29	24	21	23	20	18	17	15	14	12
10	46	35	29	24	42	32	27	23	26	22	19	21	18	16	16	14	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21721	21721	21721	21721	21721
5°	21901	21682	21869	21682	21901
10°	22105	21974	22122	21974	22105
15°	22119	22277	22521	22277	22119
20°	21689	22158	22582	22158	21689
25°	21116	21510	21989	21510	21116
30°	19673	20245	20773	20245	19673
35°	17684	18200	18413	18200	17684
40°	14229	14812	15032	14812	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	1.6
10°-20°	376.3	4.8
20°-30°	553.7	7.1
30°-40°	565.7	7.2
40°-50°	325.2	4.2
50°-60°	56.8	0.7
60°-70°	2.0	0.0
70°-80°	0.0	0.0
80°-90°	10.6	0.1
90°-100°	157.8	2.0
100°-110°	461.0	5.9
110°-120°	754.4	9.6
120°-130°	958.3	12.2
130°-140°	1025.8	13.1
140°-150°	958.0	12.2
150°-160°	788.4	10.1
160°-170°	528.8	6.7
170°-180°	187.7	2.4
0°-30°	1058.6	13.5
0°-40°	1624.3	20.7
0°-60°	2006.3	25.6
0°-90°	2018.9	25.8
90°-120°	1373.2	17.5
90°-150°	4315.3	55.1
90°-180°	5820.0	74.3
0°-180°	7836.9	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	3
90°	42	38	7	54	88	20
95°	46	62	64	204	283	78
105°	470	351	297	526	649	436
115°	776	782	564	834	956	768
125°	1236	1196	836	1044	1180	1094
135°	1618	1540	1136	1173	1307	1241
145°	1866	1806	1452	1247	1337	1168
155°	2031	1982	1724	1418	1384	937
165°	2117	2066	1903	1664	1596	597
175°	2071	2042	1990	1903	1870	199
180°	1995	1995	1995	1995	1995	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3
2.5°	1346.1	1347.5	1348.9	1345.3	1340.0	1339.6	1344.2	1348.0	1349.5	1350.9	1349.5
5°	1351.3	1352.2	1353.1	1347.0	1338.5	1337.0	1342.3	1346.6	1348.0	1349.3	1348.0
7.5°	1350.7	1352.5	1354.3	1349.2	1341.8	1339.9	1343.4	1346.4	1347.4	1348.5	1347.4
10°	1348.3	1350.1	1351.9	1347.3	1340.6	1340.0	1345.3	1349.3	1349.3	1349.3	1349.3
12.5°	1341.1	1343.6	1346.1	1342.8	1337.5	1339.3	1348.2	1354.5	1352.7	1350.9	1352.7
15°	1323.3	1326.4	1329.5	1330.0	1329.5	1336.0	1349.3	1358.0	1352.6	1347.3	1352.6
17.5°	1287.9	1292.6	1297.3	1301.6	1305.8	1317.0	1335.2	1347.1	1339.9	1332.7	1339.9
20°	1262.3	1266.3	1270.3	1276.3	1282.9	1296.3	1316.3	1329.4	1321.8	1314.3	1321.8
22.5°	1232.7	1237.0	1241.4	1246.7	1252.3	1265.6	1286.7	1300.7	1293.5	1286.3	1293.5
25°	1185.3	1187.9	1190.6	1195.6	1201.4	1213.4	1231.6	1244.0	1239.2	1234.3	1239.2
27.5°	1112.8	1117.3	1121.7	1127.3	1133.3	1144.2	1160.0	1171.2	1168.7	1166.3	1168.7
30°	1055.2	1061.5	1067.7	1074.2	1080.9	1090.9	1104.2	1114.2	1114.2	1114.2	1114.2
32.5°	996.0	1001.9	1007.8	1015.0	1022.8	1031.0	1039.7	1046.6	1048.0	1049.4	1048.0
35°	897.2	902.1	907.0	913.2	919.9	926.8	933.9	938.6	936.4	934.2	936.4
37.5°	770.4	773.7	777.1	783.7	791.4	798.8	806.1	811.0	808.9	806.8	808.9
40°	675.1	679.6	684.0	691.2	699.2	706.3	712.5	716.7	714.9	713.2	714.9
42.5°	573.5	579.4	585.3	593.3	602.0	609.3	615.1	617.1	607.5	597.9	607.5
45°	361.1	394.4	427.8	443.4	453.2	457.0	454.8	445.9	417.0	388.1	417.0
47.5°	170.0	203.0	236.0	268.7	301.4	307.1	286.1	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	145.9	148.3	118.3	93.7	85.2	76.6	85.2
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°	8.4	8.6	8.4	8.0	7.8	7.6	6.4	4.8	3.0	1.4	3.0
90°	42.0	43.0	42.0	40.0	39.0	38.0	32.0	24.0	15.0	7.0	15.0
92.5°	51.6	51.0	50.8	48.8	47.0	42.0	34.4	34.4	35.0	22.2	37.4
95°	46.0	46.0	45.0	45.0	53.0	71.0	98.0	97.0	70.0	64.0	90.0
97.5°	106.8	107.0	120.8	149.8	174.2	187.0	174.4	131.0	128.6	123.6	161.4
100°	214.0	211.0	232.0	257.0	283.0	231.0	184.0	183.0	175.0	166.0	215.0
102.5°	340.4	352.6	360.8	361.0	287.0	256.6	247.2	239.0	222.2	216.4	264.6
105°	470.0	450.0	388.0	352.0	347.0	355.0	356.0	326.0	300.0	297.0	345.0
107.5°	461.2	454.2	458.8	467.8	475.8	476.6	464.2	420.8	381.2	375.4	417.4
110°	546.0	543.0	550.0	555.0	563.0	559.0	541.0	492.0	442.0	429.0	471.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	634.0	639.8	639.6	648.6	651.0	646.2	617.0	561.6	503.6	483.4	523.8
115°	776.0	774.0	781.0	783.0	788.0	775.0	731.0	667.0	594.0	564.0	600.0
117.5°	920.2	914.2	914.2	925.4	921.6	894.4	849.6	773.6	691.6	642.0	669.4
120°	1009.0	1007.0	1007.0	1011.0	1008.0	976.0	928.0	844.0	754.0	694.0	715.0
122.5°	1093.0	1100.6	1094.2	1096.6	1090.4	1059.2	999.2	914.4	816.4	750.8	759.0
125°	1236.0	1228.0	1223.0	1221.0	1214.0	1179.0	1114.0	1022.0	916.0	836.0	825.0
127.5°	1347.0	1350.0	1344.2	1337.0	1323.4	1288.6	1222.2	1129.4	1018.8	918.0	893.8
130°	1427.0	1430.0	1425.0	1417.0	1397.0	1355.0	1295.0	1203.0	1090.0	982.0	941.0
132.5°	1511.8	1509.2	1502.6	1485.0	1464.2	1424.6	1360.6	1274.2	1154.0	1039.6	989.0
135°	1618.0	1619.0	1604.0	1586.0	1562.0	1518.0	1465.0	1380.0	1260.0	1136.0	1063.0
137.5°	1707.0	1705.4	1690.6	1675.6	1645.8	1607.6	1556.6	1476.0	1358.8	1231.6	1140.2
140°	1763.0	1763.0	1749.0	1730.0	1705.0	1666.0	1615.0	1536.0	1426.0	1294.0	1197.0
142.5°	1806.2	1807.0	1793.0	1778.8	1753.8	1719.6	1669.4	1593.6	1483.6	1362.0	1253.0
145°	1866.0	1870.0	1859.0	1847.0	1823.0	1790.0	1750.0	1672.0	1574.0	1452.0	1342.0
147.5°	1923.0	1927.0	1920.4	1908.0	1884.0	1849.6	1813.2	1742.4	1649.8	1541.0	1429.0
150°	1959.0	1963.0	1954.0	1944.0	1924.0	1888.0	1854.0	1784.0	1697.0	1597.0	1489.0
152.5°	1992.6	1996.6	1989.2	1977.6	1954.4	1919.2	1890.0	1822.4	1741.8	1650.6	1545.8
155°	2031.0	2040.0	2033.0	2022.0	1999.0	1966.0	1939.0	1877.0	1804.0	1724.0	1627.0
157.5°	2068.2	2078.0	2068.2	2057.8	2030.8	2003.0	1977.8	1920.8	1857.8	1789.2	1701.4
160°	2089.0	2098.0	2089.0	2077.0	2050.0	2023.0	2001.0	1948.0	1889.0	1826.0	1751.0
162.5°	2101.8	2111.6	2104.2	2090.6	2062.8	2038.2	2017.8	1969.6	1915.4	1858.0	1789.4
165°	2117.0	2128.0	2119.0	2103.0	2076.0	2056.0	2039.0	1996.0	1950.0	1903.0	1848.0
167.5°	2116.8	2129.4	2120.2	2109.6	2079.0	2063.6	2049.0	2014.0	1975.4	1938.0	1894.0
170°	2112.0	2123.0	2117.0	2108.0	2075.0	2062.0	2053.0	2022.0	1989.0	1958.0	1922.0
172.5°	2101.6	2111.8	2105.0	2096.0	2065.4	2054.8	2050.6	2025.2	1997.0	1973.2	1942.8
175°	2071.0	2085.0	2080.0	2072.0	2045.0	2039.0	2040.0	2023.0	2005.0	1990.0	1972.0
177.5°	2030.2	2039.0	2038.2	2031.0	2012.6	2014.2	2020.6	2010.2	2003.0	1997.4	1988.6
180°	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3	1345.3
2.5°	1348.0	1344.2	1339.6	1340.0	1345.3	1348.9	1347.5	1346.1
5°	1346.6	1342.3	1337.0	1338.5	1347.0	1353.1	1352.2	1351.3
7.5°	1346.4	1343.4	1339.9	1341.8	1349.2	1354.3	1352.5	1350.7
10°	1349.3	1345.3	1340.0	1340.6	1347.3	1351.9	1350.1	1348.3
12.5°	1354.5	1348.2	1339.3	1337.5	1342.8	1346.1	1343.6	1341.1
15°	1358.0	1349.3	1336.0	1329.5	1330.0	1329.5	1326.4	1323.3
17.5°	1347.1	1335.2	1317.0	1305.8	1301.6	1297.3	1292.6	1287.9
20°	1329.4	1316.3	1296.3	1282.9	1276.3	1270.3	1266.3	1262.3
22.5°	1300.7	1286.7	1265.6	1252.3	1246.7	1241.4	1237.0	1232.7
25°	1244.0	1231.6	1213.4	1201.4	1195.6	1190.6	1187.9	1185.3
27.5°	1171.2	1160.0	1144.2	1133.3	1127.3	1121.7	1117.3	1112.8
30°	1114.2	1104.2	1090.9	1080.9	1074.2	1067.7	1061.5	1055.2
32.5°	1046.6	1039.7	1031.0	1022.8	1015.0	1007.8	1001.9	996.0
35°	938.6	933.9	926.8	919.9	913.2	907.0	902.1	897.2
37.5°	811.0	806.1	798.8	791.4	783.7	777.1	773.7	770.4
40°	716.7	712.5	706.3	699.2	691.2	684.0	679.6	675.1
42.5°	617.1	615.1	609.3	602.0	593.3	585.3	579.4	573.5
45°	445.9	454.8	457.0	453.2	443.4	427.8	394.4	361.1
47.5°	262.7	286.1	307.1	301.4	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	148.3	145.9	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°	4.8	6.8	9.6	11.8	14.6	17.0	18.0	17.6
90°	24.0	34.0	48.0	59.0	73.0	85.0	90.0	88.0
92.5°	54.4	74.8	96.0	115.8	137.0	149.0	154.0	155.2
95°	126.0	155.0	189.0	219.0	245.0	264.0	269.0	283.0
97.5°	197.8	248.6	289.0	323.6	356.2	377.4	389.6	394.4
100°	253.0	303.0	353.0	390.0	429.0	447.0	464.0	476.0
102.5°	312.2	356.6	412.2	458.8	497.0	522.2	532.8	543.2
105°	401.0	452.0	500.0	551.0	591.0	623.0	645.0	649.0
107.5°	484.0	544.2	593.6	645.0	684.4	713.8	735.8	743.4
110°	540.0	601.0	660.0	701.0	746.0	777.0	795.0	809.0

TEST NUMBER: P709314

CATALOG NUMBER: DL2W-BB-M-150U-050D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	591.2	656.2	720.8	773.0	813.2	844.2	864.6	872.2
115°	669.0	734.0	802.0	867.0	910.0	932.0	947.0	956.0
117.5°	738.0	808.8	872.8	938.8	983.2	1006.2	1010.6	1017.8
120°	778.0	852.0	920.0	978.0	1028.0	1055.0	1065.0	1069.0
122.5°	819.6	890.4	956.8	1016.4	1064.8	1097.4	1113.8	1118.6
125°	877.0	947.0	1013.0	1075.0	1120.0	1153.0	1171.0	1180.0
127.5°	927.2	993.0	1062.4	1123.6	1167.8	1199.8	1219.2	1228.8
130°	964.0	1021.0	1092.0	1154.0	1199.0	1231.0	1248.0	1256.0
132.5°	999.2	1045.0	1115.2	1177.2	1224.6	1255.8	1272.8	1279.2
135°	1055.0	1082.0	1140.0	1206.0	1254.0	1284.0	1301.0	1307.0
137.5°	1115.4	1121.6	1161.2	1223.0	1272.2	1303.2	1318.0	1323.0
140°	1157.0	1152.0	1178.0	1231.0	1281.0	1312.0	1326.0	1331.0
142.5°	1202.6	1188.0	1199.6	1239.8	1284.2	1315.2	1330.0	1335.0
145°	1272.0	1245.0	1236.0	1258.0	1291.0	1317.0	1333.0	1337.0
147.5°	1351.2	1311.8	1283.2	1289.6	1306.0	1324.6	1337.8	1340.2
150°	1404.0	1355.0	1320.0	1316.0	1322.0	1335.0	1345.0	1345.0
152.5°	1456.8	1404.6	1360.0	1348.0	1346.0	1351.0	1357.8	1357.0
155°	1541.0	1480.0	1429.0	1407.0	1394.0	1390.0	1388.0	1384.0
157.5°	1622.2	1559.0	1501.8	1471.8	1455.4	1445.4	1440.6	1434.4
160°	1679.0	1611.0	1553.0	1519.0	1505.0	1487.0	1483.0	1472.0
162.5°	1723.8	1666.2	1604.2	1570.2	1551.4	1536.6	1531.0	1518.4
165°	1793.0	1743.0	1681.0	1648.0	1625.0	1612.0	1601.0	1596.0
167.5°	1854.4	1811.6	1757.8	1724.0	1712.2	1692.6	1683.4	1676.0
170°	1888.0	1854.0	1809.0	1776.0	1765.0	1751.0	1741.0	1732.0
172.5°	1916.8	1893.2	1851.4	1828.8	1818.6	1806.2	1798.6	1786.4
175°	1955.0	1940.0	1913.0	1893.0	1898.0	1886.0	1884.0	1870.0
177.5°	1982.2	1977.4	1959.0	1951.0	1960.6	1956.6	1955.8	1947.0
180°	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0	1995.0

(END OF REPORT)