

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: P709400

Luminaire Tested: DL2W-WB-M-150U-075D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709400  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-6, G3-2104-222-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-WB-M-150U-075D-930-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8745.9 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

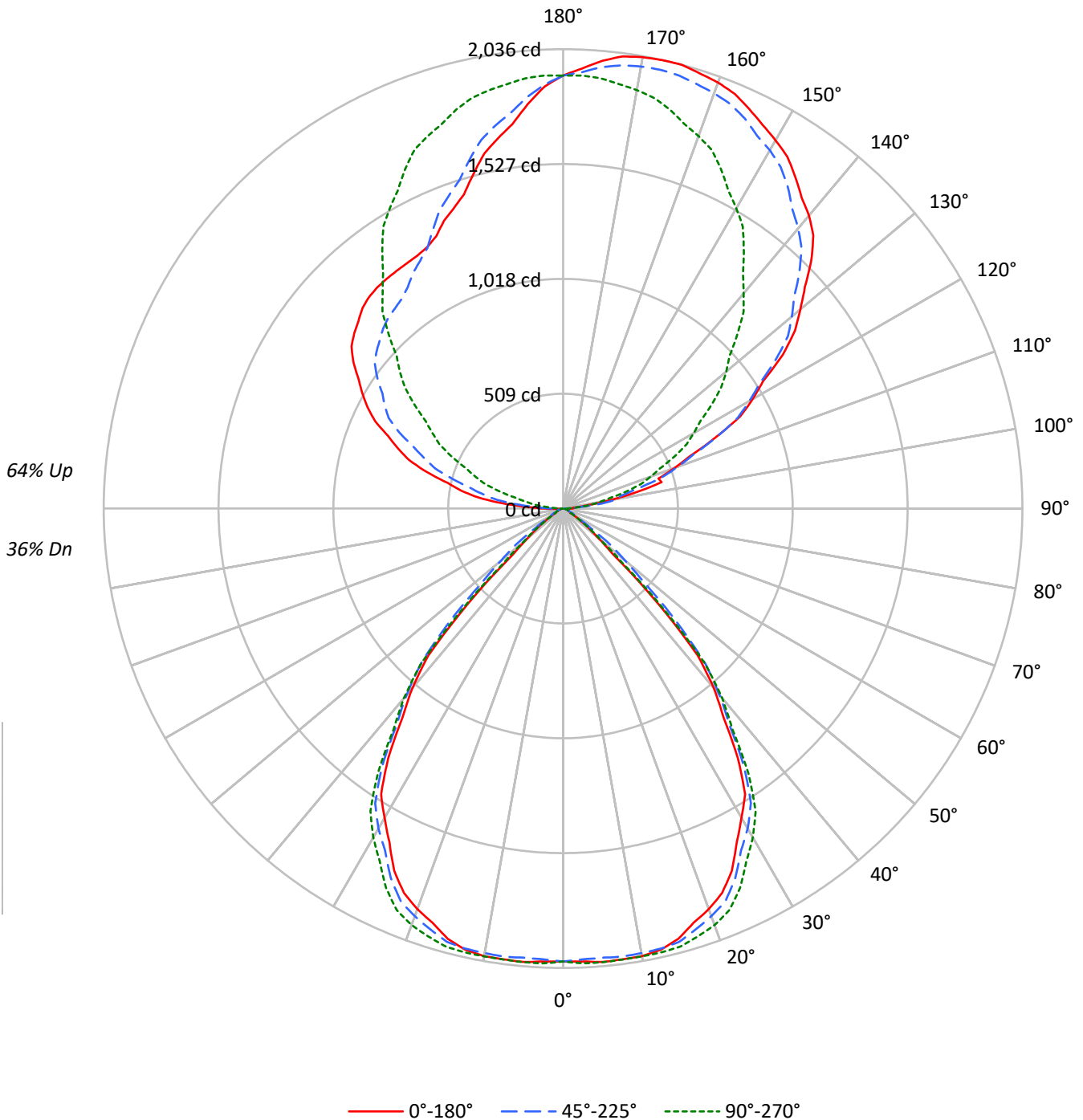
Input Watts (W): 82.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36		
1	96	92	89	86	87	84	81	78	68	66	64	53	52	51	40	39	39	33		
2	88	82	77	72	80	75	70	67	61	58	56	49	47	45	37	36	35	30		
3	82	73	67	62	74	67	62	57	55	51	48	44	42	40	34	33	31	27		
4	75	66	59	54	68	60	54	50	50	46	42	40	38	35	31	30	28	24		
5	70	59	52	47	63	54	48	44	45	41	37	37	34	31	29	27	26	22		
6	64	54	46	41	59	49	43	39	41	37	33	34	31	28	27	25	23	20		
7	60	49	42	37	55	45	39	34	38	33	30	31	28	25	25	23	21	18		
8	56	45	38	33	51	41	35	31	35	30	27	29	25	23	23	21	19	17		
9	52	41	34	29	47	38	32	28	32	28	24	27	23	21	22	19	18	16		
10	49	38	31	27	44	35	29	25	30	25	22	25	21	19	20	18	16	14		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	32411	32411	32411	32411	32411
5°	32692	32383	32707	32383	32692
10°	33023	32798	33037	32798	33023
15°	32991	33230	33588	33230	32991
20°	32459	33032	33747	33032	32459
25°	31545	32177	33054	32177	31545
30°	29496	30512	31362	30512	29496
35°	26613	27609	28206	27609	26613
40°	21905	22736	23123	22736	21905
45°	13579	16373	14458	16373	13579
50°	5172	8961	5657	8961	5172
55°	2764	4156	2790	4156	2764
60°	1182	2020	1305	2020	1182
65°	1104	1238	1177	1238	1104
70°	1090	1175	1138	1175	1090
75°	1023	1135	1142	1135	1023
80°	986	1083	1069	1083	986
85°	889	908	1074	908	889

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 50°  
 Vertical Angle: 45°  
 Luminance: 16459 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.9	2.2
10°-20°	561.2	6.4
20°-30°	829.8	9.5
30°-40°	858.6	9.8
40°-50°	516.4	5.9
50°-60°	123.5	1.4
60°-70°	33.8	0.4
70°-80°	18.9	0.2
80°-90°	13.9	0.2
90°-100°	151.8	1.7
100°-110°	443.3	5.1
110°-120°	725.6	8.3
120°-130°	921.7	10.5
130°-140°	986.6	11.3
140°-150°	921.4	10.5
150°-160°	758.3	8.7
160°-170°	508.6	5.8
170°-180°	180.6	2.1
0°-30°	1583.0	18.1
0°-40°	2441.5	27.9
0°-60°	3081.4	35.2
0°-90°	3148.0	36.0
90°-120°	1320.7	15.1
90°-150°	4150.5	47.5
90°-180°	5598.0	64.0
0°-180°	8745.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2007	2007	2007	2007	2007	
5°	2017	1998	2018	1998	2017	192
15°	1974	1988	2009	1988	1974	554
25°	1771	1806	1855	1806	1771	807
35°	1350	1401	1431	1401	1350	830
45°	595	717	633	717	595	454
55°	98	148	99	148	98	95
65°	29	32	31	32	29	29
75°	16	18	18	18	16	17
85°	5	5	6	5	5	6
90°	40	37	7	51	85	19
95°	44	60	62	196	272	75
105°	452	338	286	505	624	419
115°	746	752	542	803	920	739
125°	1189	1151	804	1004	1135	1052
135°	1556	1481	1093	1128	1257	1194
145°	1795	1738	1396	1199	1286	1124
155°	1953	1907	1658	1364	1331	901
165°	2036	1987	1830	1601	1535	575
175°	1992	1964	1914	1830	1799	191
180°	1919	1919	1919	1919	1919	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4
2.5°	2009.0	2010.7	2012.4	2007.2	1999.6	1999.5	2006.7	2012.6	2015.0	2017.4	2015.0
5°	2017.1	2018.3	2019.6	2011.0	1999.0	1997.1	2005.2	2012.0	2015.0	2018.0	2015.0
7.5°	2014.9	2016.9	2018.9	2012.6	2003.5	2002.1	2008.3	2013.3	2014.6	2015.9	2014.6
10°	2014.2	2015.5	2016.7	2010.0	2000.6	2000.4	2009.4	2016.0	2015.6	2015.1	2015.6
12.5°	2002.6	2005.6	2008.6	2003.8	1996.5	1999.3	2012.4	2021.4	2017.9	2014.4	2017.9
15°	1973.7	1978.0	1982.3	1983.4	1983.4	1992.6	2011.0	2023.0	2016.2	2009.4	2016.2
17.5°	1924.5	1929.7	1934.9	1941.2	1947.7	1963.3	1987.9	2004.2	1996.1	1988.0	1996.1
20°	1889.1	1891.2	1893.3	1901.9	1912.6	1932.3	1960.9	1980.4	1972.3	1964.1	1972.3
22.5°	1842.9	1846.4	1849.9	1859.6	1871.3	1892.5	1923.2	1944.0	1935.2	1926.4	1935.2
25°	1770.7	1775.4	1780.1	1787.7	1796.3	1816.1	1847.4	1869.1	1862.2	1855.4	1862.2
27.5°	1666.8	1673.3	1679.8	1688.7	1698.5	1718.0	1747.2	1768.2	1764.5	1760.7	1764.5
30°	1582.1	1592.3	1602.6	1614.8	1627.6	1645.6	1668.7	1685.6	1683.9	1682.2	1683.9
32.5°	1501.2	1509.5	1517.7	1528.8	1541.0	1557.2	1577.6	1592.4	1590.7	1589.0	1590.7
35°	1350.2	1358.7	1367.3	1380.0	1394.1	1407.4	1419.8	1429.3	1430.1	1431.0	1430.1
37.5°	1169.4	1178.1	1186.7	1197.2	1208.3	1218.8	1228.6	1235.7	1234.5	1233.3	1234.5
40°	1039.3	1041.5	1043.6	1056.3	1072.6	1084.8	1092.9	1098.8	1097.9	1097.1	1097.9
42.5°	883.8	893.8	903.8	915.7	928.2	940.0	951.2	956.4	943.6	930.8	943.6
45°	594.7	635.8	676.8	698.3	713.3	720.8	720.8	711.1	672.1	633.2	672.1
47.5°	299.1	349.0	398.8	444.7	489.1	499.4	475.3	446.2	401.9	357.6	401.9
50°	205.9	222.6	239.3	289.7	351.3	362.2	322.4	285.1	255.1	225.2	255.1
52.5°	151.3	160.1	168.9	210.1	262.1	267.2	225.4	190.2	175.0	159.7	175.0
55°	98.2	101.6	105.0	123.5	147.0	148.3	127.3	110.2	104.7	99.1	104.7
57.5°	59.7	65.1	70.4	77.9	86.2	86.2	77.9	70.4	64.6	58.9	64.6
60°	36.6	41.3	46.0	53.6	62.1	63.0	56.1	49.8	45.1	40.4	45.1
62.5°	33.5	35.1	36.7	42.3	49.1	49.6	43.8	39.0	37.0	35.0	37.0
65°	28.9	29.7	30.6	31.4	32.3	32.5	32.1	31.7	31.2	30.8	31.2
67.5°	25.4	26.2	26.9	27.2	27.3	27.5	27.8	28.0	27.6	27.1	27.6
70°	23.1	23.5	24.0	24.4	24.8	25.0	25.0	24.9	24.5	24.1	24.5
72.5°	20.0	20.8	21.6	21.8	21.9	22.1	22.5	22.6	22.2	21.7	22.2
75°	16.4	16.8	17.2	17.6	18.1	18.3	18.3	18.3	18.3	18.3	18.3
77.5°	12.9	13.3	13.8	13.9	13.9	14.1	14.5	14.7	14.3	13.9	14.3
80°	10.6	11.0	11.4	11.5	11.5	11.8	12.2	12.4	12.0	11.5	12.0
82.5°	8.3	8.7	9.1	9.2	9.2	9.3	9.4	9.4	9.3	9.2	9.3
85°	4.8	4.8	4.8	4.8	4.8	5.0	5.5	5.8	5.8	5.8	5.8
87.5°	9.6	9.8	9.6	9.2	9.0	9.0	8.2	6.8	4.8	2.9	4.8
90°	40.4	41.4	40.4	38.5	37.5	36.5	30.8	23.1	14.4	6.7	14.4
92.5°	49.6	49.1	48.9	46.9	45.2	40.4	33.1	33.1	33.7	21.4	36.0
95°	44.2	44.2	43.3	43.3	51.0	68.3	94.3	93.3	67.3	61.6	86.6
97.5°	102.7	102.9	116.2	144.1	167.5	179.9	167.7	126.0	123.7	118.9	155.2
100°	205.8	202.9	223.1	247.2	272.2	222.2	177.0	176.0	168.3	159.7	206.8
102.5°	327.4	339.1	347.0	347.2	276.0	246.8	237.8	229.9	213.7	208.1	254.5
105°	452.0	432.8	373.2	338.6	333.7	341.4	342.4	313.5	288.5	285.7	331.8
107.5°	443.6	436.8	441.3	449.9	457.6	458.4	446.5	404.7	366.6	361.1	401.5
110°	525.1	522.3	529.0	533.8	541.5	537.6	520.3	473.2	425.1	412.6	453.0

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	609.8	615.4	615.2	623.8	626.1	621.5	593.4	540.1	484.4	464.9	503.8
115°	746.4	744.4	751.2	753.1	757.9	745.4	703.1	641.5	571.3	542.5	577.1
117.5°	885.0	879.3	879.3	890.0	886.4	860.2	817.1	744.0	665.2	617.5	643.8
120°	970.5	968.5	968.5	972.4	969.5	938.7	892.5	811.8	725.2	667.5	687.7
122.5°	1051.2	1058.6	1052.4	1054.7	1048.7	1018.7	961.0	879.5	785.2	722.1	730.0
125°	1188.8	1181.1	1176.3	1174.4	1167.6	1134.0	1071.4	983.0	881.0	804.1	793.5
127.5°	1295.5	1298.8	1292.8	1285.9	1272.8	1239.4	1175.5	1086.3	979.9	882.9	859.7
130°	1372.5	1375.4	1370.6	1362.9	1343.6	1303.2	1245.5	1157.0	1048.4	944.5	905.1
132.5°	1454.0	1451.5	1445.2	1428.3	1408.3	1370.2	1308.6	1225.5	1109.9	999.9	951.2
135°	1556.2	1557.1	1542.7	1525.4	1502.3	1460.0	1409.0	1327.3	1211.9	1092.6	1022.4
137.5°	1641.8	1640.2	1626.0	1611.6	1582.9	1546.2	1497.1	1419.6	1306.9	1184.5	1096.6
140°	1695.6	1695.6	1682.2	1663.9	1639.9	1602.4	1553.3	1477.3	1371.5	1244.6	1151.3
142.5°	1737.2	1738.0	1724.5	1710.8	1686.8	1653.9	1605.6	1532.7	1426.9	1310.0	1205.1
145°	1794.7	1798.6	1788.0	1776.4	1753.4	1721.6	1683.1	1608.1	1513.9	1396.5	1290.7
147.5°	1849.5	1853.4	1847.0	1835.1	1812.0	1778.9	1743.9	1675.8	1586.8	1482.1	1374.4
150°	1884.2	1888.0	1879.4	1869.7	1850.5	1815.9	1783.2	1715.8	1632.2	1536.0	1432.1
152.5°	1916.5	1920.3	1913.2	1902.1	1879.7	1845.9	1817.8	1752.8	1675.3	1587.5	1486.7
155°	1953.4	1962.1	1955.3	1944.8	1922.6	1890.9	1864.9	1805.3	1735.1	1658.1	1564.8
157.5°	1989.2	1998.6	1989.2	1979.2	1953.2	1926.5	1902.2	1847.4	1786.8	1720.8	1636.4
160°	2009.2	2017.9	2009.2	1997.7	1971.7	1945.7	1924.6	1873.6	1816.8	1756.2	1684.1
162.5°	2021.5	2030.9	2023.8	2010.7	1984.0	1960.3	1940.7	1894.4	1842.2	1787.0	1721.0
165°	2036.1	2046.7	2038.0	2022.7	1996.7	1977.5	1961.1	1919.7	1875.5	1830.3	1777.4
167.5°	2035.9	2048.1	2039.2	2029.0	1999.6	1984.8	1970.7	1937.1	1899.9	1864.0	1821.6
170°	2031.3	2041.9	2036.1	2027.5	1995.7	1983.2	1974.6	1944.8	1913.0	1883.2	1848.6
172.5°	2021.3	2031.1	2024.6	2015.9	1986.5	1976.3	1972.3	1947.8	1920.7	1897.8	1868.6
175°	1991.9	2005.3	2000.5	1992.8	1966.9	1961.1	1962.1	1945.7	1928.4	1914.0	1896.7
177.5°	1952.6	1961.1	1960.3	1953.4	1935.7	1937.3	1943.4	1933.4	1926.5	1921.1	1912.6
180°	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8

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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4	2007.4
2.5°	2012.6	2006.7	1999.5	1999.6	2007.2	2012.4	2010.7	2009.0
5°	2012.0	2005.2	1997.1	1999.0	2011.0	2019.6	2018.3	2017.1
7.5°	2013.3	2008.3	2002.1	2003.5	2012.6	2018.9	2016.9	2014.9
10°	2016.0	2009.4	2000.4	2000.6	2010.0	2016.7	2015.5	2014.2
12.5°	2021.4	2012.4	1999.3	1996.5	2003.8	2008.6	2005.6	2002.6
15°	2023.0	2011.0	1992.6	1983.4	1983.4	1982.3	1978.0	1973.7
17.5°	2004.2	1987.9	1963.3	1947.7	1941.2	1934.9	1929.7	1924.5
20°	1980.4	1960.9	1932.3	1912.6	1901.9	1893.3	1891.2	1889.1
22.5°	1944.0	1923.2	1892.5	1871.3	1859.6	1849.9	1846.4	1842.9
25°	1869.1	1847.4	1816.1	1796.3	1787.7	1780.1	1775.4	1770.7
27.5°	1768.2	1747.2	1718.0	1698.5	1688.7	1679.8	1673.3	1666.8
30°	1685.6	1668.7	1645.6	1627.6	1614.8	1602.6	1592.3	1582.1
32.5°	1592.4	1577.6	1557.2	1541.0	1528.8	1517.7	1509.5	1501.2
35°	1429.3	1419.8	1407.4	1394.1	1380.0	1367.3	1358.7	1350.2
37.5°	1235.7	1228.6	1218.8	1208.3	1197.2	1186.7	1178.1	1169.4
40°	1098.8	1092.9	1084.8	1072.6	1056.3	1043.6	1041.5	1039.3
42.5°	956.4	951.2	940.0	928.2	915.7	903.8	893.8	883.8
45°	711.1	720.8	720.8	713.3	698.3	676.8	635.8	594.7
47.5°	446.2	475.3	499.4	489.1	444.7	398.8	349.0	299.1
50°	285.1	322.4	362.2	351.3	289.7	239.3	222.6	205.9
52.5°	190.2	225.4	267.2	262.1	210.1	168.9	160.1	151.3
55°	110.2	127.3	148.3	147.0	123.5	105.0	101.6	98.2
57.5°	70.4	77.9	86.2	86.2	77.9	70.4	65.1	59.7
60°	49.8	56.1	63.0	62.1	53.6	46.0	41.3	36.6
62.5°	39.0	43.8	49.6	49.1	42.3	36.7	35.1	33.5
65°	31.7	32.1	32.5	32.3	31.4	30.6	29.7	28.9
67.5°	28.0	27.8	27.5	27.3	27.2	26.9	26.2	25.4
70°	24.9	25.0	25.0	24.8	24.4	24.0	23.5	23.1
72.5°	22.6	22.5	22.1	21.9	21.8	21.6	20.8	20.0
75°	18.3	18.3	18.3	18.1	17.6	17.2	16.8	16.4
77.5°	14.7	14.5	14.1	13.9	13.9	13.8	13.3	12.9
80°	12.4	12.2	11.8	11.5	11.5	11.4	11.0	10.6
82.5°	9.4	9.4	9.3	9.2	9.2	9.1	8.7	8.3
85°	5.8	5.5	5.0	4.8	4.8	4.8	4.8	4.8
87.5°	6.8	8.6	10.9	12.9	15.6	17.9	18.9	18.5
90°	23.1	32.7	46.2	56.7	70.2	81.8	86.6	84.6
92.5°	52.3	71.9	92.3	111.4	131.8	143.3	148.1	149.3
95°	121.2	149.1	181.8	210.6	235.6	253.9	258.7	272.2
97.5°	190.2	239.1	278.0	311.2	342.6	363.0	374.7	379.3
100°	243.3	291.4	339.5	375.1	412.6	429.9	446.3	457.8
102.5°	300.3	343.0	396.5	441.3	478.0	502.3	512.4	522.4
105°	385.7	434.7	480.9	530.0	568.4	599.2	620.4	624.2
107.5°	465.5	523.4	570.9	620.4	658.3	686.5	707.7	715.0
110°	519.4	578.0	634.8	674.2	717.5	747.3	764.6	778.1



TEST NUMBER: P709400

CATALOG NUMBER: DL2W-WB-M-150U-075D-930-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	568.6	631.1	693.3	743.5	782.1	811.9	831.6	838.9
115°	643.4	706.0	771.4	833.9	875.2	896.4	910.8	919.5
117.5°	709.8	777.9	839.5	902.9	945.6	967.8	972.0	978.9
120°	748.3	819.5	884.9	940.6	988.7	1014.7	1024.3	1028.2
122.5°	788.3	856.4	920.2	977.6	1024.1	1055.5	1071.2	1075.9
125°	843.5	910.8	974.3	1033.9	1077.2	1109.0	1126.3	1134.9
127.5°	891.8	955.1	1021.8	1080.7	1123.2	1154.0	1172.6	1181.9
130°	927.2	982.0	1050.3	1109.9	1153.2	1184.0	1200.3	1208.0
132.5°	961.0	1005.1	1072.6	1132.2	1177.8	1207.8	1224.2	1230.3
135°	1014.7	1040.7	1096.4	1159.9	1206.1	1234.9	1251.3	1257.1
137.5°	1072.8	1078.8	1116.8	1176.3	1223.6	1253.4	1267.6	1272.5
140°	1112.8	1108.0	1133.0	1184.0	1232.1	1261.9	1275.3	1280.2
142.5°	1156.7	1142.6	1153.8	1192.4	1235.1	1265.0	1279.2	1284.0
145°	1223.4	1197.4	1188.8	1209.9	1241.7	1266.7	1282.1	1285.9
147.5°	1299.6	1261.7	1234.2	1240.3	1256.1	1274.0	1286.7	1289.0
150°	1350.4	1303.2	1269.6	1265.7	1271.5	1284.0	1293.6	1293.6
152.5°	1401.1	1350.9	1308.0	1296.5	1294.6	1299.4	1305.9	1305.2
155°	1482.1	1423.5	1374.4	1353.2	1340.7	1336.9	1335.0	1331.1
157.5°	1560.2	1499.4	1444.4	1415.6	1399.8	1390.2	1385.6	1379.6
160°	1614.9	1549.5	1493.7	1461.0	1447.5	1430.2	1426.3	1415.8
162.5°	1657.9	1602.5	1542.9	1510.2	1492.1	1477.9	1472.5	1460.4
165°	1724.5	1676.4	1616.8	1585.0	1562.9	1550.4	1539.8	1535.0
167.5°	1783.6	1742.4	1690.6	1658.1	1646.8	1627.9	1619.1	1612.0
170°	1815.9	1783.2	1739.9	1708.2	1697.6	1684.1	1674.5	1665.8
172.5°	1843.6	1820.9	1780.7	1758.9	1749.1	1737.2	1729.9	1718.2
175°	1880.3	1865.9	1839.9	1820.7	1825.5	1813.9	1812.0	1798.6
177.5°	1906.5	1901.9	1884.2	1876.5	1885.7	1881.9	1881.1	1872.6
180°	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8	1918.8

(END OF REPORT)