

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: P709407

Luminaire Tested: DL2W-WB-M-150U-125D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709407
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-6, G3-2104-222-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-150U-125D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11267.5 lumens
Efficiency: N/A
Efficacy: 107.5 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: General Diffuse

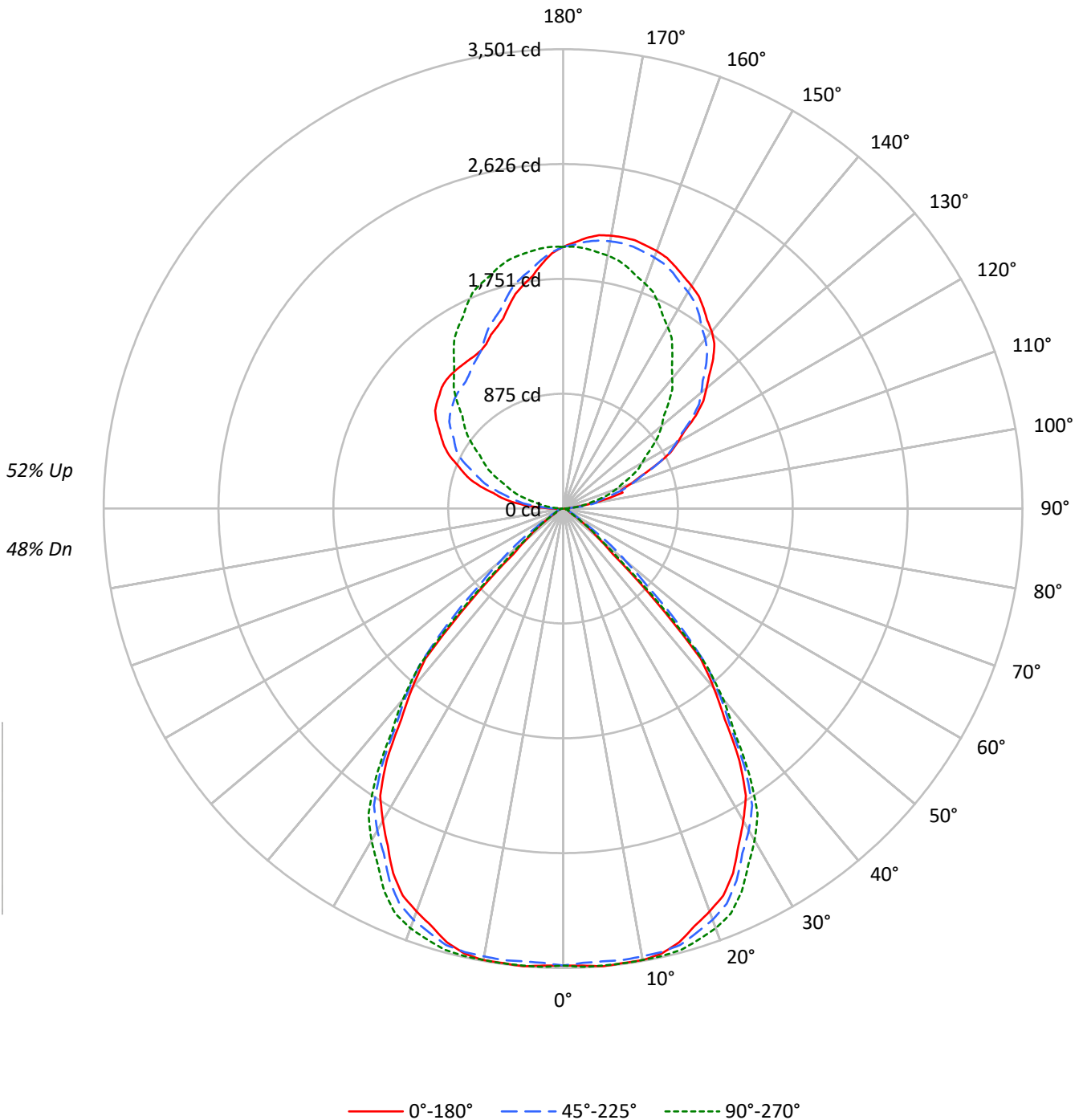
Input Watts (W): 104.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48				
1	99	95	92	89	91	88	85	83	75	73	71	62	61	60	51	50	49	44				
2	92	85	80	76	85	79	75	71	68	65	62	57	55	53	47	46	44	40				
3	85	77	71	66	78	72	66	62	61	58	54	52	49	47	43	42	40	36				
4	79	69	62	57	73	65	59	54	56	51	48	48	45	42	40	38	36	33				
5	73	63	56	50	67	59	52	48	51	46	43	44	40	38	37	35	33	30				
6	68	57	50	45	63	53	47	43	47	42	38	40	37	34	34	32	30	27				
7	63	52	45	40	59	49	43	38	43	38	34	37	34	31	32	29	27	25				
8	59	48	41	36	55	45	39	34	40	35	31	34	31	28	30	27	25	23				
9	55	44	37	33	51	41	35	31	37	32	28	32	28	26	28	25	23	21				
10	52	41	34	30	48	38	32	28	34	29	26	30	26	24	26	23	21	19				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	56225	56225	56225	56225	56225
5°	56747	56131	56666	56131	56747
10°	57289	56814	57272	56814	57289
15°	57190	57561	58191	57561	57190
20°	56127	57286	58477	57286	56127
25°	54619	55726	57377	55726	54619
30°	51220	52799	54441	52799	51220
35°	46180	47671	48817	47671	46180
40°	37761	39190	40078	39190	37761
45°	22735	28303	25060	28303	22735
50°	8854	15723	9909	15723	8854
55°	4752	7125	4808	7125	4752
60°	2063	3523	2257	3523	2063
65°	1945	2153	2021	2153	1945
70°	1836	2028	1978	2028	1836
75°	1747	1937	1934	1937	1747
80°	1674	1869	1860	1869	1674
85°	1667	1686	1667	1686	1667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 28503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.7	3.0
10°-20°	972.6	8.6
20°-30°	1437.8	12.8
30°-40°	1485.7	13.2
40°-50°	893.9	7.9
50°-60°	214.6	1.9
60°-70°	58.7	0.5
70°-80°	32.7	0.3
80°-90°	18.5	0.2
90°-100°	157.8	1.4
100°-110°	461.0	4.1
110°-120°	754.4	6.7
120°-130°	958.3	8.5
130°-140°	1025.8	9.1
140°-150°	958.0	8.5
150°-160°	788.4	7.0
160°-170°	528.8	4.7
170°-180°	187.7	1.7
0°-30°	2743.1	24.3
0°-40°	4228.8	37.5
0°-60°	5337.4	47.4
0°-90°	5447.2	48.3
90°-120°	1373.2	12.2
90°-150°	4315.3	38.3
90°-180°	5820.0	51.7
0°-180°	11267.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3482	3482	3482	3482	3482	
5°	3501	3463	3496	3463	3501	334
15°	3421	3444	3481	3444	3421	961
25°	3066	3128	3221	3128	3066	1400
35°	2343	2419	2477	2419	2343	1437
45°	996	1240	1098	1240	996	783
55°	169	253	171	253	169	164
65°	51	56	53	56	51	50
75°	28	31	31	31	28	30
85°	9	9	9	9	9	10
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°	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3
2.5°	3485.5	3488.0	3490.5	3480.5	3466.3	3465.2	3477.3	3487.3	3491.2	3495.1	3491.2
5°	3501.3	3502.2	3503.1	3487.0	3465.2	3461.3	3475.0	3486.5	3491.4	3496.3	3491.4
7.5°	3493.5	3497.0	3500.4	3488.7	3471.9	3469.4	3481.1	3490.6	3493.1	3495.7	3493.1
10°	3494.3	3495.6	3497.0	3483.7	3465.5	3465.2	3483.0	3496.0	3494.6	3493.3	3494.6
12.5°	3473.5	3477.0	3480.5	3471.7	3458.8	3464.1	3487.5	3503.6	3497.7	3491.7	3497.7
15°	3421.4	3428.1	3434.7	3436.1	3435.6	3451.6	3484.0	3505.3	3493.3	3481.3	3493.3
17.5°	3335.3	3343.8	3352.2	3363.4	3375.6	3402.7	3444.7	3472.5	3457.9	3443.4	3457.9
20°	3266.6	3275.1	3283.5	3299.2	3317.4	3350.7	3399.1	3431.8	3417.6	3403.4	3417.6
22.5°	3192.3	3199.3	3206.3	3222.0	3240.6	3276.7	3330.4	3367.4	3354.3	3341.1	3354.3
25°	3065.9	3069.9	3073.9	3089.5	3109.1	3147.0	3203.4	3242.9	3231.8	3220.7	3231.8
27.5°	2894.3	2901.2	2908.0	2924.0	2943.1	2978.5	3030.1	3067.7	3063.0	3058.3	3063.0
30°	2747.3	2760.2	2773.1	2793.3	2815.9	2848.1	2889.8	2921.0	2920.5	2920.1	2920.5
32.5°	2593.1	2609.2	2625.3	2646.3	2668.9	2696.3	2728.4	2753.3	2756.4	2759.5	2756.4
35°	2342.9	2355.7	2368.6	2387.1	2407.6	2429.5	2453.0	2471.4	2474.0	2476.7	2474.0
37.5°	2024.1	2037.0	2050.0	2066.4	2084.0	2104.0	2126.5	2143.4	2143.9	2144.3	2143.9
40°	1791.6	1799.6	1807.6	1826.2	1848.4	1870.4	1892.1	1907.7	1904.6	1901.5	1904.6
42.5°	1553.5	1558.7	1563.8	1583.3	1607.7	1629.3	1648.2	1656.6	1633.6	1610.6	1633.6
45°	995.7	1078.7	1161.7	1203.7	1232.1	1247.0	1248.3	1232.5	1165.0	1097.5	1165.0
47.5°	515.5	596.8	678.1	764.6	852.9	873.6	826.7	773.3	700.5	627.8	700.5
50°	352.5	384.5	416.4	506.3	615.5	636.4	568.9	504.5	449.5	394.5	449.5
52.5°	263.0	278.7	294.3	364.1	452.0	461.5	392.6	334.2	307.2	280.2	307.2
55°	168.8	175.4	182.1	213.0	252.1	254.1	219.0	190.3	180.5	170.8	180.5
57.5°	103.9	112.6	121.3	134.8	149.8	150.0	135.2	121.7	112.6	103.5	112.6
60°	63.9	71.9	79.9	93.2	108.3	109.9	97.9	86.8	78.3	69.9	78.3
62.5°	57.5	60.5	63.6	73.2	85.1	86.2	76.3	68.1	65.0	61.9	65.0
65°	50.9	51.8	52.7	54.3	56.0	56.7	56.3	55.6	54.3	52.9	54.3
67.5°	43.7	45.1	46.4	47.1	47.5	48.0	48.4	48.5	47.6	46.7	47.6
70°	38.9	40.3	41.6	42.3	42.7	43.2	43.6	43.7	42.8	41.9	42.8
72.5°	35.0	35.9	36.9	37.5	37.9	38.4	38.8	38.9	38.0	37.2	38.0
75°	28.0	28.9	29.7	30.3	30.7	31.4	32.3	32.7	31.8	31.0	31.8
77.5°	22.0	22.9	23.7	24.2	24.6	25.0	25.4	25.6	24.8	24.0	24.8
80°	18.0	18.9	19.8	20.0	20.0	20.2	20.6	20.9	20.4	20.0	20.4
82.5°	14.0	14.5	15.0	15.2	15.2	15.4	15.8	16.2	16.1	16.0	16.1
85°	9.0	9.0	9.0	9.0	9.0	9.2	9.7	9.9	9.4	9.0	9.4
87.5°	10.8	11.4	11.5	11.2	11.0	10.8	9.6	8.0	6.2	4.6	6.2
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°	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3
2.5°	3487.3	3477.3	3465.2	3466.3	3480.5	3490.5	3488.0	3485.5
5°	3486.5	3475.0	3461.3	3465.2	3487.0	3503.1	3502.2	3501.3
7.5°	3490.6	3481.1	3469.4	3471.9	3488.7	3500.4	3497.0	3493.5
10°	3496.0	3483.0	3465.2	3465.5	3483.7	3497.0	3495.6	3494.3
12.5°	3503.6	3487.5	3464.1	3458.8	3471.7	3480.5	3477.0	3473.5
15°	3505.3	3484.0	3451.6	3435.6	3436.1	3434.7	3428.1	3421.4
17.5°	3472.5	3444.7	3402.7	3375.6	3363.4	3352.2	3343.8	3335.3
20°	3431.8	3399.1	3350.7	3317.4	3299.2	3283.5	3275.1	3266.6
22.5°	3367.4	3330.4	3276.7	3240.6	3222.0	3206.3	3199.3	3192.3
25°	3242.9	3203.4	3147.0	3109.1	3089.5	3073.9	3069.9	3065.9
27.5°	3067.7	3030.1	2978.5	2943.1	2924.0	2908.0	2901.2	2894.3
30°	2921.0	2889.8	2848.1	2815.9	2793.3	2773.1	2760.2	2747.3
32.5°	2753.3	2728.4	2696.3	2668.9	2646.3	2625.3	2609.2	2593.1
35°	2471.4	2453.0	2429.5	2407.6	2387.1	2368.6	2355.7	2342.9
37.5°	2143.4	2126.5	2104.0	2084.0	2066.4	2050.0	2037.0	2024.1
40°	1907.7	1892.1	1870.4	1848.4	1826.2	1807.6	1799.6	1791.6
42.5°	1656.6	1648.2	1629.3	1607.7	1583.3	1563.8	1558.7	1553.5
45°	1232.5	1248.3	1247.0	1232.1	1203.7	1161.7	1078.7	995.7
47.5°	773.3	826.7	873.6	852.9	764.6	678.1	596.8	515.5
50°	504.5	568.9	636.4	615.5	506.3	416.4	384.5	352.5
52.5°	334.2	392.6	461.5	452.0	364.1	294.3	278.7	263.0
55°	190.3	219.0	254.1	252.1	213.0	182.1	175.4	168.8
57.5°	121.7	135.2	150.0	149.8	134.8	121.3	112.6	103.9
60°	86.8	97.9	109.9	108.3	93.2	79.9	71.9	63.9
62.5°	68.1	76.3	86.2	85.1	73.2	63.6	60.5	57.5
65°	55.6	56.3	56.7	56.0	54.3	52.7	51.8	50.9
67.5°	48.5	48.4	48.0	47.5	47.1	46.4	45.1	43.7
70°	43.7	43.6	43.2	42.7	42.3	41.6	40.3	38.9
72.5°	38.9	38.8	38.4	37.9	37.5	36.9	35.9	35.0
75°	32.7	32.3	31.4	30.7	30.3	29.7	28.9	28.0
77.5°	25.6	25.4	25.0	24.6	24.2	23.7	22.9	22.0
80°	20.9	20.6	20.2	20.0	20.0	19.8	18.9	18.0
82.5°	16.2	15.8	15.4	15.2	15.2	15.0	14.5	14.0
85°	9.9	9.7	9.2	9.0	9.0	9.0	9.0	9.0
87.5°	8.0	10.0	12.8	15.0	17.8	20.1	20.8	20.0
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: P709407

CATALOG NUMBER: DL2W-WB-M-150U-125D-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)