

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: P709389

Luminaire Tested: DL2W-WB-M-125U-075D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709389
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-5, 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-125U-075D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8179.0 lumens
Efficiency: N/A
Efficacy: 114.2 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

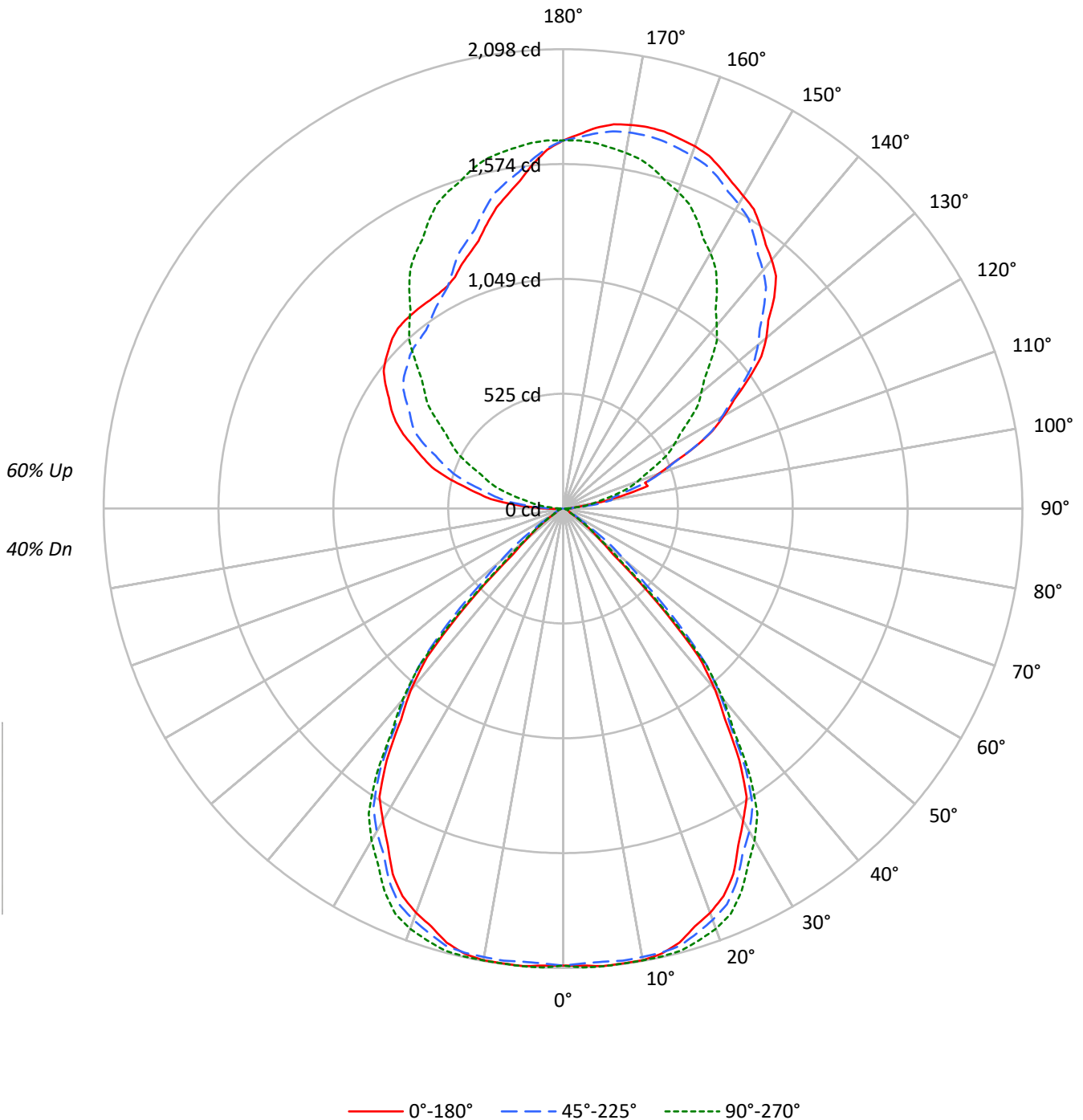
Input Watts (W): 71.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40				
1	97	93	90	87	88	85	82	80	70	68	67	56	55	54	44	43	42	36				
2	89	83	78	73	82	76	72	68	63	60	58	51	49	48	40	39	38	33				
3	83	74	68	63	75	68	63	59	57	53	50	47	44	42	37	36	34	30				
4	76	67	60	55	70	62	56	51	52	48	44	43	40	37	34	32	31	27				
5	71	60	53	48	65	56	50	45	47	43	39	39	36	33	32	30	28	25				
6	66	55	48	42	60	51	44	40	43	38	35	36	33	30	29	27	25	22				
7	61	50	43	38	56	46	40	36	39	35	31	33	30	27	27	25	23	20				
8	57	46	39	34	52	42	36	32	36	32	28	31	27	25	25	23	21	19				
9	53	42	35	30	49	39	33	29	34	29	26	28	25	23	24	21	19	17				
10	50	39	32	28	46	36	30	26	31	26	23	26	23	21	22	20	18	16				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	33700	33700	33700	33700	33700
5°	33990	33669	34007	33669	33990
10°	34334	34101	34351	34101	34334
15°	34302	34550	34922	34550	34302
20°	33747	34343	35087	34343	33747
25°	32797	33456	34367	33456	32797
30°	30667	31725	32608	31725	30667
35°	27670	28706	29325	28706	27670
40°	22776	23639	24040	23639	22776
45°	14118	17022	15034	17022	14118
50°	5378	9315	5880	9315	5378
55°	2874	4322	2902	4322	2874
60°	1227	2101	1356	2101	1227
65°	1146	1287	1223	1287	1146
70°	1133	1223	1180	1223	1133
75°	1061	1179	1185	1179	1061
80°	1023	1125	1116	1125	1023
85°	926	945	1112	945	926

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 17112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.6	2.4
10°-20°	583.5	7.1
20°-30°	862.8	10.5
30°-40°	892.7	10.9
40°-50°	536.9	6.6
50°-60°	128.4	1.6
60°-70°	35.1	0.4
70°-80°	19.6	0.2
80°-90°	13.2	0.2
90°-100°	133.4	1.6
100°-110°	389.5	4.8
110°-120°	636.1	7.8
120°-130°	808.0	9.9
130°-140°	864.6	10.6
140°-150°	807.3	9.9
150°-160°	664.4	8.1
160°-170°	445.7	5.4
170°-180°	158.2	1.9
0°-30°	1645.8	20.1
0°-40°	2538.5	31.0
0°-60°	3203.8	39.2
0°-90°	3271.8	40.0
90°-120°	1159.1	14.2
90°-150°	3638.9	44.5
90°-180°	4907.0	60.0
0°-180°	8179.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2087	2087	2087	2087	2087	
5°	2097	2077	2098	2077	2097	200
15°	2052	2067	2089	2067	2052	577
25°	1841	1878	1929	1878	1841	840
35°	1404	1456	1488	1456	1404	863
45°	618	746	658	746	618	473
55°	102	154	103	154	102	99
65°	30	34	32	34	30	30
75°	17	19	19	19	17	18
85°	5	5	6	5	5	6
90°	36	32	6	46	80	17
95°	39	49	52	172	238	66
105°	400	296	248	446	548	371
115°	664	659	471	704	805	651
125°	1034	1006	703	880	990	924
135°	1364	1296	954	989	1102	1047
145°	1573	1520	1225	1052	1128	984
155°	1711	1670	1451	1194	1167	789
165°	1783	1741	1605	1403	1345	503
175°	1746	1720	1676	1602	1579	168
180°	1681	1681	1681	1681	1681	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2
2.5°	2088.8	2090.5	2092.3	2086.9	2079.1	2078.9	2086.4	2092.6	2095.1	2097.6	2095.1
5°	2097.2	2098.5	2099.8	2090.8	2078.4	2076.4	2084.8	2091.9	2095.1	2098.2	2095.1
7.5°	2095.0	2097.0	2099.1	2092.5	2083.1	2081.6	2088.1	2093.3	2094.6	2096.0	2094.6
10°	2094.2	2095.5	2096.8	2089.8	2080.1	2079.8	2089.2	2096.1	2095.6	2095.2	2095.6
12.5°	2082.2	2085.3	2088.4	2083.4	2075.8	2078.8	2092.4	2101.7	2098.0	2094.4	2098.0
15°	2052.1	2056.6	2061.0	2062.2	2062.2	2071.7	2090.8	2103.4	2096.3	2089.2	2096.3
17.5°	2000.9	2006.3	2011.8	2018.3	2025.1	2041.3	2066.8	2083.9	2075.4	2067.0	2075.4
20°	1964.1	1966.3	1968.5	1977.4	1988.6	2009.0	2038.8	2059.0	2050.6	2042.1	2050.6
22.5°	1916.1	1919.7	1923.4	1933.4	1945.6	1967.7	1999.6	2021.2	2012.1	2002.9	2012.1
25°	1841.0	1845.9	1850.8	1858.7	1867.6	1888.3	1920.7	1943.3	1936.2	1929.1	1936.2
27.5°	1733.0	1739.7	1746.5	1755.8	1765.9	1786.2	1816.6	1838.4	1834.5	1830.6	1834.5
30°	1644.9	1655.6	1666.3	1678.9	1692.3	1711.0	1735.0	1752.5	1750.8	1749.0	1750.8
32.5°	1560.9	1569.4	1577.9	1589.6	1602.2	1619.1	1640.2	1655.7	1653.9	1652.1	1653.9
35°	1403.8	1412.7	1421.6	1434.8	1449.5	1463.3	1476.2	1486.1	1486.9	1487.8	1486.9
37.5°	1215.9	1224.9	1233.8	1244.8	1256.3	1267.2	1277.4	1284.8	1283.6	1282.3	1283.6
40°	1080.6	1082.8	1085.1	1098.3	1115.2	1127.9	1136.3	1142.4	1141.5	1140.6	1141.5
42.5°	918.9	929.3	939.7	952.1	965.0	977.4	989.0	994.4	981.1	967.7	981.1
45°	618.3	661.0	703.7	726.1	741.6	749.4	749.4	739.3	698.8	658.4	698.8
47.5°	311.0	362.8	414.7	462.3	508.6	519.2	494.2	463.9	417.9	371.8	417.9
50°	214.1	231.5	248.8	301.2	365.2	376.5	335.2	296.4	265.3	234.1	265.3
52.5°	157.3	166.4	175.6	218.5	272.5	277.8	234.3	197.8	181.9	166.1	181.9
55°	102.1	105.6	109.2	128.4	152.9	154.2	132.4	114.6	108.8	103.1	108.8
57.5°	62.0	67.6	73.2	81.0	89.6	89.6	81.0	73.2	67.2	61.2	67.2
60°	38.0	42.9	47.8	55.7	64.6	65.5	58.4	51.8	46.9	42.0	46.9
62.5°	34.8	36.5	38.2	44.0	51.1	51.6	45.6	40.5	38.5	36.4	38.5
65°	30.0	30.9	31.8	32.7	33.6	33.8	33.4	32.9	32.5	32.0	32.5
67.5°	26.4	27.2	28.0	28.3	28.4	28.6	28.9	29.1	28.7	28.2	28.7
70°	24.0	24.5	24.9	25.3	25.8	26.0	26.0	25.9	25.5	25.0	25.5
72.5°	20.8	21.6	22.4	22.7	22.8	23.0	23.3	23.5	23.1	22.6	23.1
75°	17.0	17.5	17.9	18.3	18.8	19.0	19.0	19.0	19.0	19.0	19.0
77.5°	13.4	13.9	14.3	14.4	14.4	14.6	15.1	15.3	14.9	14.4	14.9
80°	11.0	11.5	11.9	12.0	12.0	12.2	12.7	12.9	12.5	12.0	12.5
82.5°	8.6	9.0	9.5	9.6	9.6	9.6	9.7	9.8	9.7	9.6	9.7
85°	5.0	5.0	5.0	5.0	5.0	5.2	5.7	6.0	6.0	6.0	6.0
87.5°	8.8	8.8	8.6	8.6	8.0	8.2	7.9	6.5	4.6	2.8	4.4
90°	36.0	36.0	35.0	35.0	32.0	32.0	29.0	21.0	13.0	6.0	12.0
92.5°	43.2	43.2	42.2	41.4	39.2	36.0	29.8	29.8	28.2	18.0	32.8
95°	39.0	39.0	38.0	39.0	43.0	55.0	80.0	88.0	60.0	52.0	75.0
97.5°	91.2	94.0	103.6	121.2	152.6	158.2	150.4	112.0	108.6	104.6	137.2
100°	180.0	186.0	198.0	214.0	251.0	199.0	156.0	156.0	147.0	143.0	178.0
102.5°	289.6	292.4	305.2	306.8	245.4	217.4	206.4	202.4	185.4	183.0	224.4
105°	400.0	379.0	333.0	299.0	296.0	296.0	295.0	277.0	253.0	248.0	291.0
107.5°	392.4	387.0	389.6	393.2	397.8	401.4	391.0	361.2	321.8	315.8	356.8
110°	466.0	459.0	464.0	470.0	473.0	475.0	455.0	414.0	373.0	363.0	400.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	541.2	538.2	538.4	546.8	546.6	546.2	520.6	470.8	421.8	405.4	440.8
115°	664.0	659.0	651.0	661.0	663.0	655.0	620.0	562.0	501.0	471.0	505.0
117.5°	770.0	768.4	770.8	774.8	772.0	759.6	714.6	649.0	581.4	540.6	564.6
120°	850.0	846.0	850.0	854.0	848.0	826.0	781.0	713.0	635.0	587.0	603.0
122.5°	926.8	926.0	925.2	920.4	920.8	895.6	843.4	772.2	691.8	633.4	639.0
125°	1034.0	1038.0	1033.0	1027.0	1020.0	992.0	937.0	864.0	773.0	703.0	696.0
127.5°	1142.4	1143.0	1133.2	1127.4	1115.4	1083.0	1027.4	955.6	857.2	777.6	752.6
130°	1212.0	1211.0	1202.0	1193.0	1177.0	1147.0	1089.0	1014.0	918.0	824.0	791.0
132.5°	1271.2	1272.6	1262.0	1254.6	1234.6	1203.0	1149.8	1075.6	973.2	875.2	832.6
135°	1364.0	1366.0	1353.0	1336.0	1313.0	1280.0	1235.0	1164.0	1062.0	954.0	898.0
137.5°	1439.8	1438.4	1425.6	1410.2	1389.8	1354.4	1313.0	1242.8	1147.0	1039.2	960.6
140°	1483.0	1484.0	1472.0	1455.0	1437.0	1404.0	1361.0	1294.0	1199.0	1092.0	1011.0
142.5°	1519.8	1521.6	1512.8	1498.2	1477.0	1448.0	1409.8	1344.4	1251.0	1144.8	1057.4
145°	1573.0	1577.0	1569.0	1556.0	1536.0	1505.0	1473.0	1409.0	1323.0	1225.0	1130.0
147.5°	1621.6	1623.8	1617.4	1608.6	1588.2	1558.6	1529.0	1470.0	1389.2	1298.2	1201.8
150°	1648.0	1655.0	1647.0	1639.0	1621.0	1589.0	1565.0	1506.0	1434.0	1347.0	1253.0
152.5°	1676.0	1682.2	1674.2	1665.4	1647.4	1617.0	1594.6	1536.4	1470.0	1388.6	1301.8
155°	1711.0	1719.0	1713.0	1703.0	1685.0	1656.0	1634.0	1581.0	1521.0	1451.0	1370.0
157.5°	1743.4	1749.2	1744.0	1734.8	1712.6	1689.0	1666.0	1620.4	1566.4	1505.4	1434.8
160°	1761.0	1766.0	1760.0	1750.0	1727.0	1705.0	1686.0	1642.0	1592.0	1539.0	1474.0
162.5°	1771.4	1778.8	1772.8	1762.0	1739.0	1719.4	1701.2	1660.4	1615.2	1565.4	1509.2
165°	1783.0	1792.0	1785.0	1774.0	1749.0	1733.0	1719.0	1683.0	1644.0	1605.0	1557.0
167.5°	1784.6	1792.8	1786.4	1777.2	1752.4	1738.8	1727.8	1697.8	1664.8	1634.0	1594.2
170°	1779.0	1788.0	1784.0	1774.0	1750.0	1738.0	1731.0	1705.0	1676.0	1650.0	1619.0
172.5°	1770.2	1778.4	1773.6	1766.0	1742.0	1733.2	1728.6	1706.6	1683.2	1662.8	1639.0
175°	1746.0	1755.0	1750.0	1745.0	1723.0	1718.0	1719.0	1706.0	1690.0	1676.0	1661.0
177.5°	1711.4	1717.8	1713.8	1711.4	1697.8	1697.0	1701.8	1695.4	1688.2	1682.6	1676.2
180°	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2
2.5°	2092.6	2086.4	2078.9	2079.1	2086.9	2092.3	2090.5	2088.8
5°	2091.9	2084.8	2076.4	2078.4	2090.8	2099.8	2098.5	2097.2
7.5°	2093.3	2088.1	2081.6	2083.1	2092.5	2099.1	2097.0	2095.0
10°	2096.1	2089.2	2079.8	2080.1	2089.8	2096.8	2095.5	2094.2
12.5°	2101.7	2092.4	2078.8	2075.8	2083.4	2088.4	2085.3	2082.2
15°	2103.4	2090.8	2071.7	2062.2	2062.2	2061.0	2056.6	2052.1
17.5°	2083.9	2066.8	2041.3	2025.1	2018.3	2011.8	2006.3	2000.9
20°	2059.0	2038.8	2009.0	1988.6	1977.4	1968.5	1966.3	1964.1
22.5°	2021.2	1999.6	1967.7	1945.6	1933.4	1923.4	1919.7	1916.1
25°	1943.3	1920.7	1888.3	1867.6	1858.7	1850.8	1845.9	1841.0
27.5°	1838.4	1816.6	1786.2	1765.9	1755.8	1746.5	1739.7	1733.0
30°	1752.5	1735.0	1711.0	1692.3	1678.9	1666.3	1655.6	1644.9
32.5°	1655.7	1640.2	1619.1	1602.2	1589.6	1577.9	1569.4	1560.9
35°	1486.1	1476.2	1463.3	1449.5	1434.8	1421.6	1412.7	1403.8
37.5°	1284.8	1277.4	1267.2	1256.3	1244.8	1233.8	1224.9	1215.9
40°	1142.4	1136.3	1127.9	1115.2	1098.3	1085.1	1082.8	1080.6
42.5°	994.4	989.0	977.4	965.0	952.1	939.7	929.3	918.9
45°	739.3	749.4	749.4	741.6	726.1	703.7	661.0	618.3
47.5°	463.9	494.2	519.2	508.6	462.3	414.7	362.8	311.0
50°	296.4	335.2	376.5	365.2	301.2	248.8	231.5	214.1
52.5°	197.8	234.3	277.8	272.5	218.5	175.6	166.4	157.3
55°	114.6	132.4	154.2	152.9	128.4	109.2	105.6	102.1
57.5°	73.2	81.0	89.6	89.6	81.0	73.2	67.6	62.0
60°	51.8	58.4	65.5	64.6	55.7	47.8	42.9	38.0
62.5°	40.5	45.6	51.6	51.1	44.0	38.2	36.5	34.8
65°	32.9	33.4	33.8	33.6	32.7	31.8	30.9	30.0
67.5°	29.1	28.9	28.6	28.4	28.3	28.0	27.2	26.4
70°	25.9	26.0	26.0	25.8	25.3	24.9	24.5	24.0
72.5°	23.5	23.3	23.0	22.8	22.7	22.4	21.6	20.8
75°	19.0	19.0	19.0	18.8	18.3	17.9	17.5	17.0
77.5°	15.3	15.1	14.6	14.4	14.4	14.3	13.9	13.4
80°	12.9	12.7	12.2	12.0	12.0	11.9	11.5	11.0
82.5°	9.8	9.7	9.6	9.6	9.6	9.5	9.0	8.6
85°	6.0	5.7	5.2	5.0	5.0	5.0	5.0	5.0
87.5°	6.1	7.9	9.8	12.0	14.2	15.4	16.8	17.6
90°	19.0	29.0	40.0	52.0	63.0	69.0	76.0	80.0
92.5°	46.2	61.8	80.8	99.2	115.0	124.2	130.4	132.0
95°	109.0	131.0	157.0	187.0	204.0	222.0	235.0	238.0
97.5°	168.2	207.6	243.8	270.6	297.4	317.0	329.4	333.4
100°	213.0	254.0	299.0	329.0	359.0	377.0	395.0	391.0
102.5°	264.2	302.8	348.6	384.2	419.8	441.8	455.0	461.4
105°	338.0	383.0	422.0	469.0	499.0	525.0	544.0	548.0
107.5°	407.2	458.8	498.0	542.6	578.4	601.4	621.0	627.6
110°	456.0	510.0	558.0	593.0	628.0	655.0	673.0	682.0

TEST NUMBER: P709389

CATALOG NUMBER: DL2W-WB-M-125U-075D-935-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	500.0	554.8	609.2	649.0	686.4	711.0	729.0	738.8
115°	563.0	622.0	675.0	734.0	766.0	787.0	800.0	805.0
117.5°	620.8	680.8	738.0	792.4	831.0	845.0	855.2	861.2
120°	656.0	716.0	774.0	826.0	867.0	889.0	900.0	906.0
122.5°	688.8	749.6	806.8	858.8	899.8	925.0	939.2	943.6
125°	738.0	799.0	856.0	903.0	944.0	972.0	988.0	990.0
127.5°	783.0	835.8	897.8	947.2	985.8	1011.8	1026.4	1032.4
130°	811.0	859.0	921.0	972.0	1009.0	1039.0	1052.0	1058.0
132.5°	839.8	880.6	938.6	992.0	1032.2	1059.0	1072.8	1078.8
135°	887.0	911.0	962.0	1016.0	1056.0	1083.0	1097.0	1102.0
137.5°	939.8	945.6	979.2	1029.8	1072.4	1098.6	1110.0	1116.4
140°	975.0	972.0	992.0	1037.0	1078.0	1105.0	1118.0	1122.0
142.5°	1012.6	1000.8	1010.4	1044.2	1082.0	1107.4	1121.2	1125.2
145°	1072.0	1048.0	1043.0	1062.0	1087.0	1111.0	1124.0	1128.0
147.5°	1137.0	1104.8	1081.6	1087.6	1100.4	1116.2	1128.4	1129.2
150°	1181.0	1144.0	1112.0	1110.0	1114.0	1125.0	1134.0	1134.0
152.5°	1228.2	1182.4	1145.6	1137.2	1134.0	1139.4	1145.2	1144.4
155°	1299.0	1249.0	1203.0	1184.0	1176.0	1170.0	1170.0	1167.0
157.5°	1367.4	1314.4	1266.6	1243.2	1227.6	1219.0	1213.8	1207.8
160°	1413.0	1360.0	1305.0	1284.0	1266.0	1255.0	1249.0	1243.0
162.5°	1453.8	1404.8	1353.0	1322.4	1306.8	1296.6	1289.8	1282.2
165°	1511.0	1468.0	1419.0	1387.0	1371.0	1358.0	1352.0	1345.0
167.5°	1560.4	1526.2	1484.6	1454.0	1442.6	1425.6	1420.8	1407.2
170°	1590.0	1563.0	1523.0	1498.0	1489.0	1476.0	1468.0	1456.0
172.5°	1615.6	1593.4	1561.4	1538.8	1537.8	1523.2	1516.8	1509.6
175°	1649.0	1635.0	1610.0	1593.0	1599.0	1592.0	1591.0	1579.0
177.5°	1670.6	1667.4	1651.4	1644.2	1649.0	1649.8	1649.8	1641.0
180°	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0	1681.0

(END OF REPORT)