

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: P709308

Luminaire Tested: DL2W-BB-M-125U-100D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709308
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-5, G3-2104-222-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-125U-100D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8907.7 lumens
Efficiency: N/A
Efficacy: 108.5 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: General Diffuse

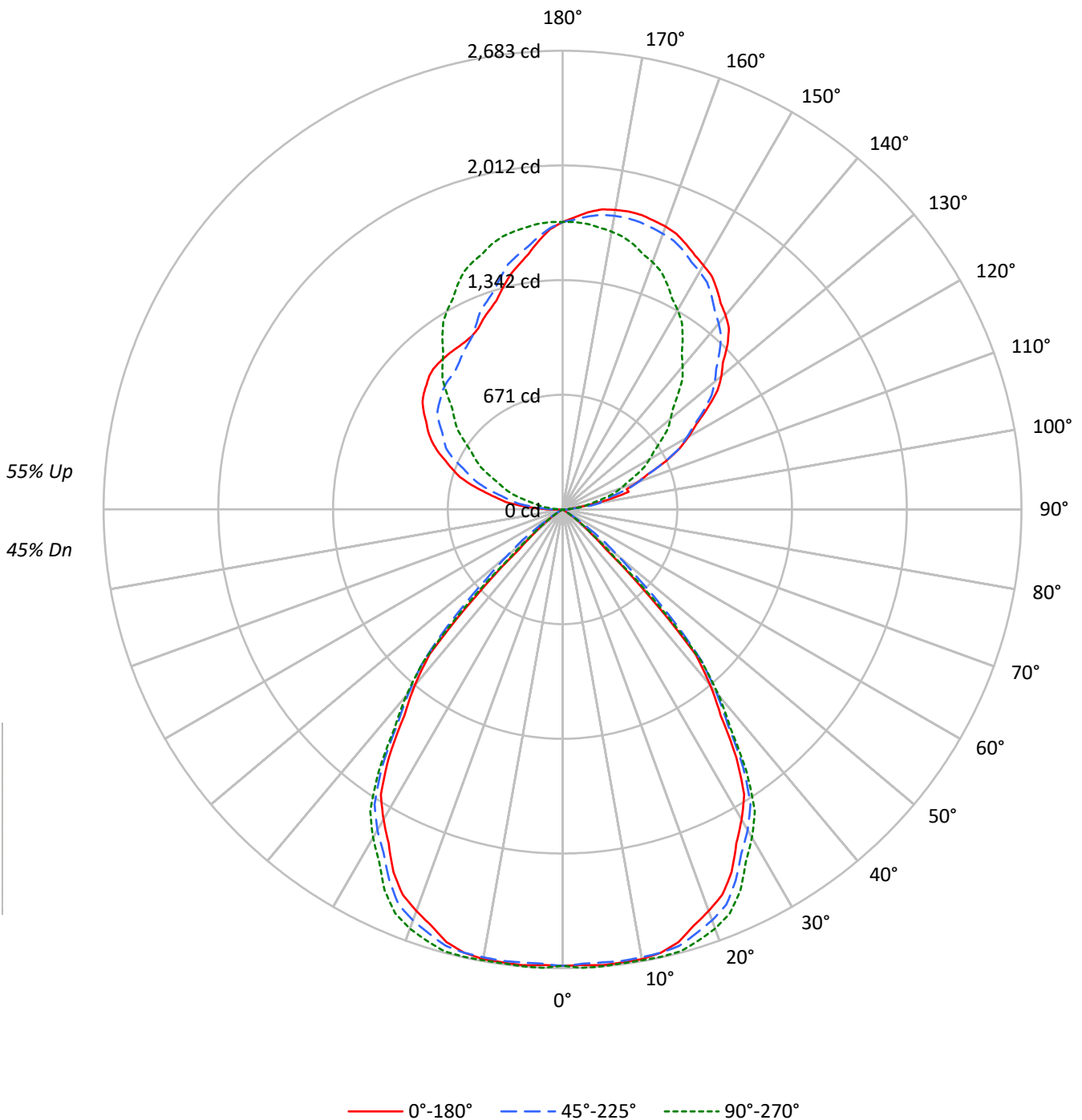
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	51	51	51	45		
1	98	95	92	89	90	87	85	82	73	71	70	60	59	58	48	47	47	41		
2	91	85	80	76	84	78	74	70	66	63	61	55	53	51	45	43	42	38		
3	84	76	70	65	78	71	65	61	60	56	53	50	48	46	41	40	38	34		
4	78	69	62	57	72	64	58	54	55	51	47	46	43	41	38	36	35	31		
5	73	62	55	50	67	58	52	47	50	45	42	43	39	37	35	33	32	28		
6	67	57	50	45	62	53	47	42	46	41	38	39	36	33	33	31	29	26		
7	63	52	45	40	58	48	42	38	42	37	34	36	33	30	31	28	26	24		
8	59	47	41	36	54	45	38	34	39	34	31	33	30	27	28	26	24	22		
9	55	44	37	32	51	41	35	31	36	31	28	31	28	25	27	24	22	20		
10	51	40	34	29	48	38	32	28	33	29	26	29	25	23	25	22	20	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	43100	43100	43100	43100	43100
5°	43362	43104	43475	43104	43362
10°	43781	43602	43896	43602	43781
15°	43784	44165	44704	44165	43784
20°	42928	43933	44818	43933	42928
25°	41675	42653	43814	42653	41675
30°	39027	40357	41301	40357	39027
35°	34893	36304	37002	36304	34893
40°	28353	29483	30018	29483	28353
45°	16397	20581	18269	20581	16397
50°	5325	10761	5827	10761	5325
55°	2083	3835	2027	3835	2083
60°	32	1058	161	1058	32
65°	0	69	0	69	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: 20662 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.1	2.9
10°-20°	746.0	8.4
20°-30°	1099.6	12.3
30°-40°	1126.0	12.6
40°-50°	648.8	7.3
50°-60°	113.5	1.3
60°-70°	4.3	0.0
70°-80°	0.0	0.0
80°-90°	9.0	0.1
90°-100°	133.4	1.5
100°-110°	389.5	4.4
110°-120°	636.1	7.1
120°-130°	808.0	9.1
130°-140°	864.6	9.7
140°-150°	807.3	9.1
150°-160°	664.4	7.5
160°-170°	445.7	5.0
170°-180°	158.2	1.8
0°-30°	2100.8	23.6
0°-40°	3226.8	36.2
0°-60°	3989.1	44.8
0°-90°	4002.4	44.9
90°-120°	1159.1	13.0
90°-150°	3638.9	40.9
90°-180°	4907.0	55.1
0°-180°	8907.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2669	2669	2669	2669	2669	
5°	2675	2660	2682	2660	2675	255
15°	2619	2642	2674	2642	2619	735
25°	2339	2394	2459	2394	2339	1068
35°	1770	1842	1877	1842	1770	1087
45°	718	901	800	901	718	565
55°	74	136	72	136	74	76
65°	0	2	0	2	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	3
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°	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4
2.5°	2667.0	2671.2	2675.5	2669.4	2659.8	2659.6	2668.8	2676.6	2679.8	2683.0	2679.8
5°	2675.4	2679.8	2684.3	2674.7	2660.5	2658.5	2668.7	2677.1	2679.7	2682.4	2679.7
7.5°	2672.0	2677.1	2682.1	2675.0	2663.8	2662.1	2670.0	2676.1	2676.8	2677.4	2676.8
10°	2670.4	2674.4	2678.4	2670.7	2659.2	2659.8	2672.7	2681.8	2679.6	2677.4	2679.6
12.5°	2656.0	2661.8	2667.5	2662.2	2653.1	2657.9	2676.5	2689.1	2684.1	2679.0	2684.1
15°	2619.4	2626.5	2633.6	2635.4	2635.4	2648.9	2676.1	2693.9	2684.2	2674.4	2684.2
17.5°	2552.0	2561.5	2571.0	2580.1	2589.1	2610.6	2644.8	2667.5	2655.9	2644.4	2655.9
20°	2498.4	2508.6	2518.8	2531.0	2543.9	2569.9	2609.0	2635.0	2621.7	2608.4	2621.7
22.5°	2439.9	2450.2	2460.4	2474.0	2488.6	2515.9	2555.7	2582.3	2569.3	2556.4	2569.3
25°	2339.3	2350.9	2362.4	2372.3	2381.7	2406.8	2447.7	2476.2	2467.8	2459.4	2467.8
27.5°	2201.3	2211.7	2222.1	2237.0	2253.3	2277.4	2309.1	2331.7	2326.7	2321.7	2326.7
30°	2093.3	2106.2	2119.1	2135.6	2153.4	2175.9	2203.0	2222.4	2218.9	2215.3	2218.9
32.5°	1976.5	1988.7	2000.8	2017.5	2035.6	2054.5	2074.2	2089.3	2090.7	2092.1	2090.7
35°	1770.3	1783.6	1796.9	1814.9	1834.5	1849.2	1858.9	1867.5	1872.4	1877.3	1872.4
37.5°	1519.6	1533.6	1547.5	1563.7	1580.6	1593.9	1603.7	1611.3	1612.1	1613.0	1612.1
40°	1345.2	1354.5	1363.9	1377.5	1392.6	1405.1	1414.9	1422.4	1423.3	1424.2	1423.3
42.5°	1151.6	1157.3	1163.1	1178.6	1197.2	1212.5	1224.4	1229.2	1212.3	1195.4	1212.3
45°	718.1	783.4	848.8	879.1	897.8	904.9	900.5	886.3	843.2	800.1	843.2
47.5°	340.8	409.6	478.3	540.9	601.4	611.9	572.2	528.1	470.5	412.9	470.5
50°	212.0	235.6	259.1	332.0	421.4	435.4	374.1	317.4	274.7	232.0	274.7
52.5°	142.4	154.2	166.1	221.1	290.5	296.9	240.2	192.5	171.8	151.2	171.8
55°	74.0	77.6	81.1	105.0	135.7	136.8	108.3	85.3	78.7	72.0	78.7
57.5°	25.0	32.0	39.1	49.2	60.4	60.3	48.8	38.6	32.2	25.8	32.2
60°	1.0	5.9	10.8	20.7	32.2	33.3	24.0	15.7	10.3	5.0	10.3
62.5°	1.0	2.0	3.0	9.5	17.8	18.2	10.7	4.6	3.2	1.8	3.2
65°	0.0	0.4	0.9	1.3	1.8	1.8	1.3	0.9	0.4	0.0	0.4
67.5°	0.0	0.0	0.0	0.3	0.6	0.8	0.8	0.7	0.4	0.0	0.4
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°	7.2	7.2	7.0	7.0	6.4	6.4	5.8	4.2	2.6	1.2	2.4
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°	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4	2669.4
2.5°	2676.6	2668.8	2659.6	2659.8	2669.4	2675.5	2671.2	2667.0
5°	2677.1	2668.7	2658.5	2660.5	2674.7	2684.3	2679.8	2675.4
7.5°	2676.1	2670.0	2662.1	2663.8	2675.0	2682.1	2677.1	2672.0
10°	2681.8	2672.7	2659.8	2659.2	2670.7	2678.4	2674.4	2670.4
12.5°	2689.1	2676.5	2657.9	2653.1	2662.2	2667.5	2661.8	2656.0
15°	2693.9	2676.1	2648.9	2635.4	2635.4	2633.6	2626.5	2619.4
17.5°	2667.5	2644.8	2610.6	2589.1	2580.1	2571.0	2561.5	2552.0
20°	2635.0	2609.0	2569.9	2543.9	2531.0	2518.8	2508.6	2498.4
22.5°	2582.3	2555.7	2515.9	2488.6	2474.0	2460.4	2450.2	2439.9
25°	2476.2	2447.7	2406.8	2381.7	2372.3	2362.4	2350.9	2339.3
27.5°	2331.7	2309.1	2277.4	2253.3	2237.0	2222.1	2211.7	2201.3
30°	2222.4	2203.0	2175.9	2153.4	2135.6	2119.1	2106.2	2093.3
32.5°	2089.3	2074.2	2054.5	2035.6	2017.5	2000.8	1988.7	1976.5
35°	1867.5	1858.9	1849.2	1834.5	1814.9	1796.9	1783.6	1770.3
37.5°	1611.3	1603.7	1593.9	1580.6	1563.7	1547.5	1533.6	1519.6
40°	1422.4	1414.9	1405.1	1392.6	1377.5	1363.9	1354.5	1345.2
42.5°	1229.2	1224.4	1212.5	1197.2	1178.6	1163.1	1157.3	1151.6
45°	886.3	900.5	904.9	897.8	879.1	848.8	783.4	718.1
47.5°	528.1	572.2	611.9	601.4	540.9	478.3	409.6	340.8
50°	317.4	374.1	435.4	421.4	332.0	259.1	235.6	212.0
52.5°	192.5	240.2	296.9	290.5	221.1	166.1	154.2	142.4
55°	85.3	108.3	136.8	135.7	105.0	81.1	77.6	74.0
57.5°	38.6	48.8	60.3	60.4	49.2	39.1	32.0	25.0
60°	15.7	24.0	33.3	32.2	20.7	10.8	5.9	1.0
62.5°	4.6	10.7	18.2	17.8	9.5	3.0	2.0	1.0
65°	0.9	1.3	1.8	1.8	1.3	0.9	0.4	0.0
67.5°	0.7	0.8	0.8	0.6	0.3	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°	3.8	5.8	8.0	10.4	12.6	13.8	15.2	16.0
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: P709308

CATALOG NUMBER: DL2W-BB-M-125U-100D-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)