

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: P709302

Luminaire Tested: DL2W-BB-M-125U-050D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

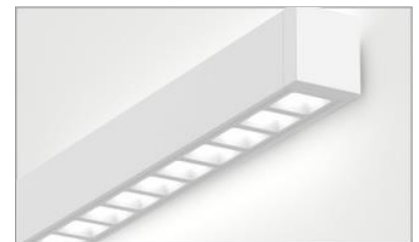
Test Information

Test Method: LM-79-2019
Report Number: P709302
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-5, 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-125U-050D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6922.7 lumens
Efficiency: N/A
Efficacy: 111.5 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: Semi-Indirect

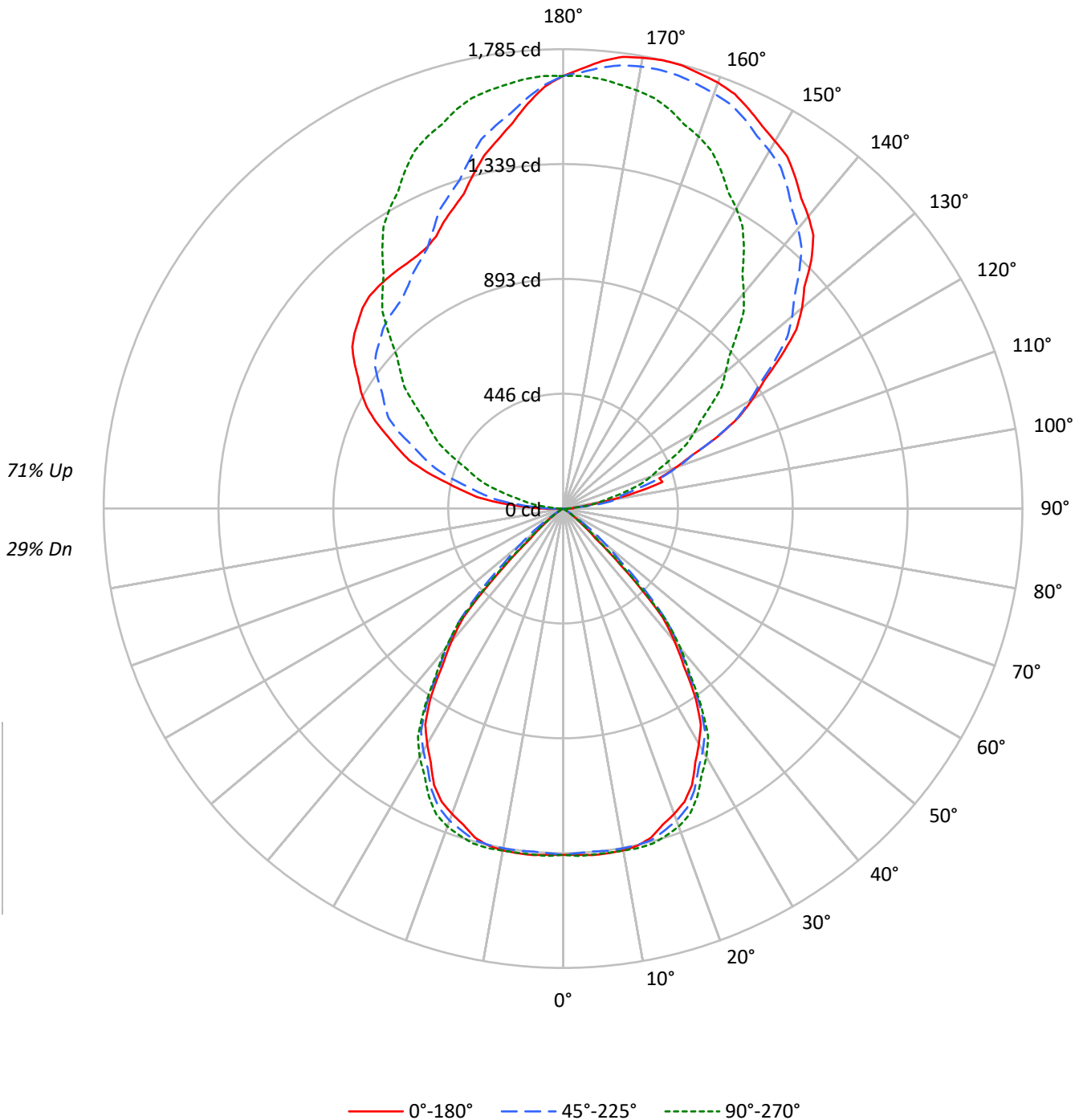
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29
1	94	90	87	84	84	81	79	76	64	63	61	49	48	47	34	34	33	27
2	87	80	75	71	78	73	68	64	58	55	52	44	42	41	32	31	30	24
3	80	72	65	60	72	65	60	55	52	48	45	40	38	36	29	28	27	22
4	74	64	57	52	66	58	52	48	47	43	40	37	34	32	27	26	24	20
5	68	58	51	45	61	53	46	42	43	38	35	33	31	28	25	23	22	18
6	63	52	45	40	57	48	41	37	39	34	31	31	28	25	23	21	20	17
7	58	47	40	35	53	43	37	33	35	31	28	28	25	23	21	20	18	15
8	54	43	36	31	49	40	33	29	33	28	25	26	23	21	20	18	17	14
9	51	40	33	28	46	36	30	26	30	26	23	24	21	19	18	17	15	13
10	47	36	30	25	43	33	28	24	28	23	20	22	19	17	17	15	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21723	21723	21723	21723	21723
5°	21903	21683	21870	21683	21903
10°	22107	21976	22123	21976	22107
15°	22121	22279	22522	22279	22121
20°	21691	22160	22584	22160	21691
25°	21116	21512	21991	21512	21116
30°	19675	20247	20775	20247	19675
35°	17686	18200	18415	18200	17686
40°	14231	14812	15032	14812	14231
45°	8245	10392	8862	10392	8245
50°	2663	5360	2989	5360	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°	128.6	1.9
10°-20°	376.3	5.4
20°-30°	553.8	8.0
30°-40°	565.8	8.2
40°-50°	325.3	4.7
50°-60°	56.8	0.8
60°-70°	2.0	0.0
70°-80°	0.0	0.0
80°-90°	9.0	0.1
90°-100°	133.4	1.9
100°-110°	389.5	5.6
110°-120°	636.1	9.2
120°-130°	808.0	11.7
130°-140°	864.6	12.5
140°-150°	807.3	11.7
150°-160°	664.4	9.6
160°-170°	445.7	6.4
170°-180°	158.2	2.3
0°-30°	1058.6	15.3
0°-40°	1624.4	23.5
0°-60°	2006.5	29.0
0°-90°	2017.5	29.1
90°-120°	1159.1	16.7
90°-150°	3638.9	52.6
90°-180°	4907.0	70.9
0°-180°	6922.7	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	1208	1234	1208	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°	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°	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4
2.5°	1346.2	1347.6	1349.0	1345.4	1340.1	1339.7	1344.3	1348.1	1349.6	1351.0	1349.6
5°	1351.4	1352.3	1353.2	1347.1	1338.6	1337.1	1342.4	1346.7	1348.1	1349.4	1348.1
7.5°	1350.8	1352.6	1354.3	1349.3	1341.9	1340.0	1343.5	1346.5	1347.5	1348.6	1347.5
10°	1348.4	1350.2	1351.9	1347.4	1340.7	1340.1	1345.4	1349.4	1349.4	1349.4	1349.4
12.5°	1341.2	1343.7	1346.2	1342.9	1337.6	1339.4	1348.3	1354.5	1352.8	1351.0	1352.8
15°	1323.4	1326.5	1329.6	1330.0	1329.6	1336.1	1349.4	1358.1	1352.7	1347.4	1352.7
17.5°	1288.0	1292.7	1297.4	1301.7	1305.9	1317.1	1335.3	1347.2	1340.0	1332.8	1340.0
20°	1262.4	1266.4	1270.4	1276.4	1283.0	1296.4	1316.4	1329.5	1321.9	1314.4	1321.9
22.5°	1232.8	1237.1	1241.5	1246.8	1252.4	1265.7	1286.8	1300.8	1293.6	1286.4	1293.6
25°	1185.3	1188.0	1190.7	1195.7	1201.5	1213.5	1231.7	1244.1	1239.2	1234.4	1239.2
27.5°	1112.9	1117.4	1121.8	1127.4	1133.3	1144.2	1160.1	1171.3	1168.8	1166.3	1168.8
30°	1055.3	1061.5	1067.8	1074.3	1081.0	1091.0	1104.3	1114.3	1114.3	1114.3	1114.3
32.5°	996.1	1002.0	1007.8	1015.1	1022.8	1031.1	1039.8	1046.7	1048.1	1049.5	1048.1
35°	897.3	902.1	907.0	913.3	919.9	926.8	933.9	938.7	936.5	934.3	936.5
37.5°	770.4	773.8	777.2	783.8	791.4	798.9	806.2	811.1	809.0	806.8	809.0
40°	675.2	679.6	684.1	691.2	699.2	706.3	712.5	716.8	715.0	713.2	715.0
42.5°	573.6	579.4	585.3	593.3	602.0	609.3	615.2	617.2	607.6	598.0	607.6
45°	361.1	394.4	427.8	443.5	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	307.2	286.1	262.7	232.5	202.3	232.5
50°	106.0	118.0	130.0	166.0	210.1	216.7	186.1	158.2	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	19.5	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°	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°	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4	1345.4
2.5°	1348.1	1344.3	1339.7	1340.1	1345.4	1349.0	1347.6	1346.2
5°	1346.7	1342.4	1337.1	1338.6	1347.1	1353.2	1352.3	1351.4
7.5°	1346.5	1343.5	1340.0	1341.9	1349.3	1354.3	1352.6	1350.8
10°	1349.4	1345.4	1340.1	1340.7	1347.4	1351.9	1350.2	1348.4
12.5°	1354.5	1348.3	1339.4	1337.6	1342.9	1346.2	1343.7	1341.2
15°	1358.1	1349.4	1336.1	1329.6	1330.0	1329.6	1326.5	1323.4
17.5°	1347.2	1335.3	1317.1	1305.9	1301.7	1297.4	1292.7	1288.0
20°	1329.5	1316.4	1296.4	1283.0	1276.4	1270.4	1266.4	1262.4
22.5°	1300.8	1286.8	1265.7	1252.4	1246.8	1241.5	1237.1	1232.8
25°	1244.1	1231.7	1213.5	1201.5	1195.7	1190.7	1188.0	1185.3
27.5°	1171.3	1160.1	1144.2	1133.3	1127.4	1121.8	1117.4	1112.9
30°	1114.3	1104.3	1091.0	1081.0	1074.3	1067.8	1061.5	1055.3
32.5°	1046.7	1039.8	1031.1	1022.8	1015.1	1007.8	1002.0	996.1
35°	938.7	933.9	926.8	919.9	913.3	907.0	902.1	897.3
37.5°	811.1	806.2	798.9	791.4	783.8	777.2	773.8	770.4
40°	716.8	712.5	706.3	699.2	691.2	684.1	679.6	675.2
42.5°	617.2	615.2	609.3	602.0	593.3	585.3	579.4	573.6
45°	445.9	454.8	457.0	453.2	443.5	427.8	394.4	361.1
47.5°	262.7	286.1	307.2	301.4	268.7	236.0	203.0	170.0
50°	158.2	186.1	216.7	210.1	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°	19.5	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°	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: P709302

CATALOG NUMBER: DL2W-BB-M-125U-050D-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)