

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: P709270

Luminaire Tested: DL2W-BB-M-075U-075D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P709270  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-3, G3-2104-222-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: DL2W-BB-M-075U-075D-940-UNV-STD-W-WM-4  
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6222.0 lumens  
Efficiency: N/A  
Efficacy: 121.5 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

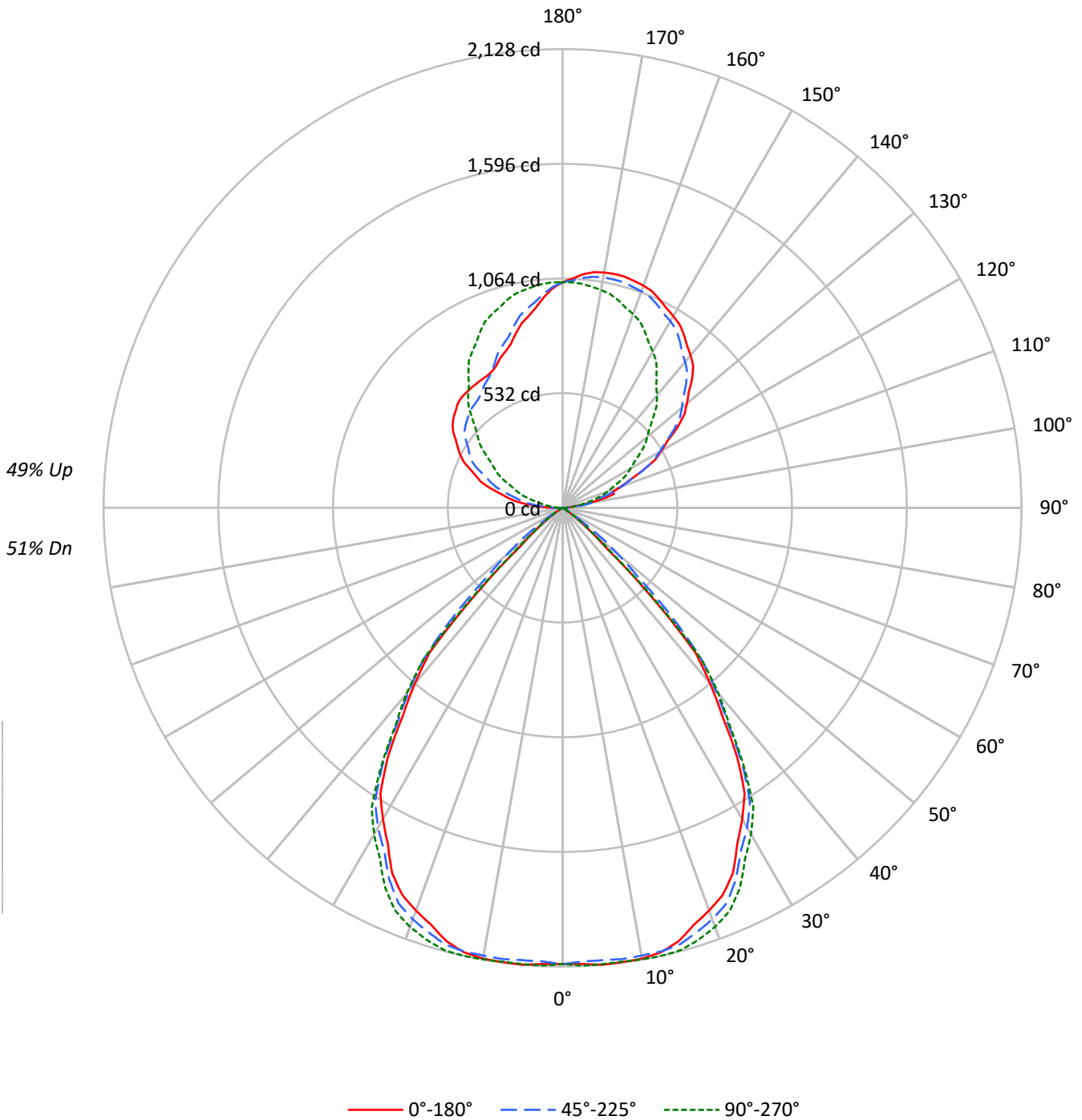
Input Watts (W): 51.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51		
1	100	96	93	90	92	89	87	84	76	75	73	64	63	62	53	53	52	47		
2	93	87	82	77	86	81	76	73	70	66	64	59	57	55	50	48	47	43		
3	86	78	72	67	80	73	68	63	63	59	56	54	52	49	46	44	43	39		
4	80	71	64	59	74	66	60	56	58	53	50	50	47	44	43	40	39	35		
5	74	64	57	52	69	60	54	50	53	48	45	46	43	40	40	37	35	32		
6	69	59	51	46	64	55	49	44	49	44	40	42	39	36	37	34	32	29		
7	64	54	46	42	60	50	44	40	45	40	36	39	36	33	34	31	29	27		
8	60	49	42	37	56	46	40	36	41	36	33	36	33	30	32	29	27	25		
9	56	45	39	34	53	43	37	33	38	33	30	34	30	27	30	27	25	23		
10	53	42	35	31	49	40	34	30	35	31	27	32	28	25	28	25	23	21		

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

	0°	45°	90°	135°	180°
0°	34165	34165	34165	34165	34165
5°	34483	34138	34431	34138	34483
10°	34813	34583	34864	34583	34813
15°	34785	35061	35493	35061	34785
20°	34156	34894	35538	34894	34156
25°	33302	33869	34659	33869	33302
30°	31062	31897	32582	31897	31062
35°	27831	28678	28917	28678	27831
40°	22445	23311	23716	23311	22445
45°	13269	16495	14139	16495	13269
50°	4175	8435	4413	8435	4175
55°	1669	2966	1669	2966	1669
60°	36	806	103	806	36
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: 16554 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.3	3.3
10°-20°	592.6	9.5
20°-30°	871.9	14.0
30°-40°	891.1	14.3
40°-50°	513.4	8.3
50°-60°	88.3	1.4
60°-70°	3.2	0.1
70°-80°	0.0	0.0
80°-90°	5.5	0.1
90°-100°	83.3	1.3
100°-110°	242.8	3.9
110°-120°	396.3	6.4
120°-130°	502.8	8.1
130°-140°	538.1	8.6
140°-150°	502.4	8.1
150°-160°	413.4	6.6
160°-170°	277.3	4.5
170°-180°	98.4	1.6
0°-30°	1666.8	26.8
0°-40°	2558.0	41.1
0°-60°	3159.6	50.8
0°-90°	3168.4	50.9
90°-120°	722.4	11.6
90°-150°	2265.7	36.4
90°-180°	3055.0	49.1
0°-180°	6222.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2116	2116	2116	2116	2116	
5°	2128	2106	2124	2106	2128	203
15°	2081	2098	2123	2098	2081	584
25°	1869	1901	1946	1901	1869	851
35°	1412	1455	1467	1455	1412	866
45°	581	722	619	722	581	450
55°	59	105	59	105	59	61
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	2
90°	23	21	3	28	45	11
95°	24	32	33	106	143	41
105°	247	186	154	276	340	231
115°	410	411	296	439	505	405
125°	650	629	438	547	619	576
135°	851	810	595	615	686	652
145°	981	947	760	654	701	613
155°	1065	1039	902	742	727	492
165°	1111	1084	998	872	837	314
175°	1088	1071	1043	997	982	104
180°	1046	1046	1046	1046	1046	

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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2116.0	2116.0	2116.0	2116.0	2116.0	2116.0	2116.0	2116.0	2116.0	2116.0	2116.0
2.5°	2117.6	2119.5	2121.4	2115.4	2106.7	2106.2	2113.7	2120.0	2122.6	2125.3	2122.6
5°	2127.6	2128.5	2129.5	2120.2	2107.5	2105.1	2113.1	2119.7	2122.1	2124.4	2122.1
7.5°	2125.1	2127.4	2129.8	2122.5	2112.1	2109.7	2115.3	2120.0	2121.6	2123.2	2121.6
10°	2123.4	2125.7	2128.1	2120.5	2109.7	2109.0	2118.4	2125.6	2126.1	2126.5	2126.1
12.5°	2111.5	2115.7	2120.0	2114.6	2106.1	2109.1	2123.8	2134.1	2131.1	2128.2	2131.1
15°	2081.0	2087.1	2093.3	2093.7	2092.3	2102.7	2124.8	2139.4	2131.4	2123.4	2131.4
17.5°	2027.7	2036.3	2045.0	2051.0	2056.2	2073.5	2103.0	2122.2	2110.9	2099.7	2110.9
20°	1987.9	1995.4	2002.9	2011.5	2020.5	2041.2	2073.6	2094.7	2081.5	2068.3	2081.5
22.5°	1943.0	1949.0	1955.0	1964.9	1976.1	1997.2	2028.2	2048.4	2036.3	2024.3	2036.3
25°	1869.3	1872.6	1875.9	1883.1	1891.5	1910.8	1940.9	1961.5	1953.5	1945.5	1953.5
27.5°	1755.0	1759.2	1763.5	1772.4	1783.0	1799.5	1822.1	1838.5	1836.2	1834.0	1836.2
30°	1666.1	1674.1	1682.1	1692.6	1703.8	1718.0	1734.9	1747.6	1747.6	1747.6	1747.6
32.5°	1571.2	1579.2	1587.2	1598.6	1611.0	1623.2	1635.3	1644.6	1645.7	1646.8	1645.7
35°	1412.0	1419.1	1426.2	1437.1	1449.3	1460.6	1471.0	1477.4	1472.3	1467.1	1472.3
37.5°	1216.4	1222.4	1228.3	1239.7	1252.8	1263.3	1271.1	1276.5	1274.5	1272.5	1274.5
40°	1064.9	1073.8	1082.7	1092.0	1101.4	1110.6	1119.5	1126.1	1125.7	1125.2	1125.7
42.5°	913.3	916.9	920.6	932.8	947.9	959.7	968.3	972.3	962.8	953.3	962.8
45°	581.1	629.6	678.0	702.8	719.8	725.0	718.4	703.0	661.1	619.2	661.1
47.5°	273.7	325.0	376.3	425.3	473.6	482.3	451.6	415.5	363.3	311.2	363.3
50°	166.2	183.6	201.0	259.3	331.3	340.3	286.1	237.8	206.8	175.7	206.8
52.5°	112.0	121.9	131.7	174.4	227.9	231.0	183.7	144.8	131.0	117.3	131.0
55°	59.3	62.1	64.9	82.6	105.1	105.6	84.0	66.8	63.0	59.3	63.0
57.5°	22.2	26.8	31.4	38.6	46.6	46.4	37.9	30.3	25.2	20.1	25.2
60°	1.1	5.3	9.5	16.6	24.6	25.3	18.7	12.6	7.9	3.2	7.9
62.5°	0.2	1.4	2.7	7.8	14.3	14.5	8.3	3.3	2.0	0.6	2.0
65°	0.0	0.0	0.0	0.4	0.8	0.8	0.4	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°	4.6	4.6	4.4	4.2	4.2	4.0	3.4	2.5	1.5	0.6	1.5
90°	23.2	23.2	22.2	21.1	21.1	20.1	16.9	12.7	7.4	3.2	7.4
92.5°	27.5	27.5	26.4	26.2	24.5	22.6	18.6	18.6	18.4	11.6	20.1
95°	24.3	24.3	24.3	24.3	28.5	35.9	52.8	53.9	35.9	32.8	46.5
97.5°	55.6	58.8	65.7	78.2	96.0	99.3	94.1	70.2	67.2	62.6	85.2
100°	113.1	116.2	121.5	137.4	150.1	124.7	98.3	97.2	90.9	88.8	113.1
102.5°	185.8	186.4	190.0	194.9	150.9	136.5	130.4	126.0	116.2	115.0	139.3
105°	247.3	239.9	206.1	184.9	186.0	186.0	181.8	173.3	155.4	154.3	181.8
107.5°	242.0	241.2	242.4	245.6	251.1	249.8	245.0	222.4	201.2	196.4	221.1
110°	288.5	288.5	290.6	293.8	295.9	293.8	286.4	257.9	232.5	225.1	247.3

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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	336.7	335.0	337.1	339.4	344.1	337.8	325.3	292.5	263.8	253.0	275.2
115°	410.0	410.0	411.1	411.1	412.2	409.0	383.6	349.8	311.8	295.9	314.9
117.5°	484.7	482.5	483.8	485.1	480.9	472.4	443.0	403.7	361.0	335.6	350.7
120°	529.5	531.6	529.5	531.6	527.4	514.7	486.1	441.7	393.1	363.5	375.2
122.5°	576.0	577.2	576.8	576.4	571.3	556.9	523.3	477.3	429.5	393.1	398.0
125°	649.9	644.7	642.5	641.5	637.3	620.4	585.5	537.9	481.9	437.5	431.2
127.5°	711.9	709.5	705.1	702.8	696.2	675.7	640.0	594.1	532.6	482.3	468.2
130°	752.5	753.5	748.2	745.1	733.4	711.2	676.4	633.0	570.7	513.6	493.5
132.5°	793.0	791.6	789.7	780.6	770.6	746.7	714.4	669.4	606.2	546.6	518.9
135°	850.7	847.6	842.3	833.8	821.1	797.9	767.2	722.9	659.5	595.0	556.9
137.5°	896.6	894.1	888.6	879.7	865.3	845.2	814.4	774.9	714.0	645.9	597.9
140°	923.7	923.7	917.3	906.7	894.1	874.0	846.5	805.3	746.1	680.6	626.7
142.5°	948.2	948.2	941.0	933.0	919.4	901.0	876.9	835.7	778.2	713.6	656.3
145°	980.7	980.7	976.5	970.2	955.4	938.5	918.4	877.2	824.3	759.9	702.8
147.5°	1009.5	1011.8	1006.5	1001.4	989.8	969.9	953.0	913.5	865.3	808.3	749.7
150°	1027.2	1030.4	1025.1	1020.9	1009.3	990.2	973.3	936.3	889.8	837.0	781.0
152.5°	1044.1	1046.5	1042.9	1038.6	1025.3	1006.3	991.9	957.5	915.2	864.9	808.0
155°	1065.3	1070.6	1066.3	1061.0	1048.4	1030.4	1017.7	986.0	946.9	902.5	853.9
157.5°	1086.8	1089.2	1084.9	1078.4	1066.5	1051.1	1037.6	1008.4	974.4	936.1	893.6
160°	1097.0	1100.1	1095.9	1088.5	1075.8	1062.1	1049.4	1021.9	991.3	956.4	917.3
162.5°	1103.7	1107.8	1103.5	1097.0	1081.8	1069.7	1058.7	1033.8	1004.8	973.3	938.5
165°	1110.7	1114.9	1111.8	1104.4	1088.5	1079.0	1069.5	1048.4	1023.0	997.6	968.0
167.5°	1111.1	1116.4	1112.4	1106.3	1090.4	1081.1	1074.1	1056.0	1035.5	1016.0	993.0
170°	1108.6	1113.9	1110.7	1105.4	1089.6	1081.1	1075.8	1061.0	1043.1	1026.2	1008.2
172.5°	1102.7	1107.1	1104.8	1099.5	1084.5	1077.7	1075.0	1061.9	1047.3	1034.6	1019.2
175°	1087.5	1093.8	1089.6	1085.4	1072.7	1068.4	1069.5	1061.0	1050.5	1043.1	1033.6
177.5°	1064.8	1068.2	1067.4	1064.8	1055.5	1055.5	1058.9	1053.9	1050.5	1047.1	1042.9
180°	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2

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**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2116.0	2116.0	2116.0	2116.0	2116.0	2116.0	2116.0	2116.0
2.5°	2120.0	2113.7	2106.2	2106.7	2115.4	2121.4	2119.5	2117.6
5°	2119.7	2113.1	2105.1	2107.5	2120.2	2129.5	2128.5	2127.6
7.5°	2120.0	2115.3	2109.7	2112.1	2122.5	2129.8	2127.4	2125.1
10°	2125.6	2118.4	2109.0	2109.7	2120.5	2128.1	2125.7	2123.4
12.5°	2134.1	2123.8	2109.1	2106.1	2114.6	2120.0	2115.7	2111.5
15°	2139.4	2124.8	2102.7	2092.3	2093.7	2093.3	2087.1	2081.0
17.5°	2122.2	2103.0	2073.5	2056.2	2051.0	2045.0	2036.3	2027.7
20°	2094.7	2073.6	2041.2	2020.5	2011.5	2002.9	1995.4	1987.9
22.5°	2048.4	2028.2	1997.2	1976.1	1964.9	1955.0	1949.0	1943.0
25°	1961.5	1940.9	1910.8	1891.5	1883.1	1875.9	1872.6	1869.3
27.5°	1838.5	1822.1	1799.5	1783.0	1772.4	1763.5	1759.2	1755.0
30°	1747.6	1734.9	1718.0	1703.8	1692.6	1682.1	1674.1	1666.1
32.5°	1644.6	1635.3	1623.2	1611.0	1598.6	1587.2	1579.2	1571.2
35°	1477.4	1471.0	1460.6	1449.3	1437.1	1426.2	1419.1	1412.0
37.5°	1276.5	1271.1	1263.3	1252.8	1239.7	1228.3	1222.4	1216.4
40°	1126.1	1119.5	1110.6	1101.4	1092.0	1082.7	1073.8	1064.9
42.5°	972.3	968.3	959.7	947.9	932.8	920.6	916.9	913.3
45°	703.0	718.4	725.0	719.8	702.8	678.0	629.6	581.1
47.5°	415.5	451.6	482.3	473.6	425.3	376.3	325.0	273.7
50°	237.8	286.1	340.3	331.3	259.3	201.0	183.6	166.2
52.5°	144.8	183.7	231.0	227.9	174.4	131.7	121.9	112.0
55°	66.8	84.0	105.6	105.1	82.6	64.9	62.1	59.3
57.5°	30.3	37.9	46.4	46.6	38.6	31.4	26.8	22.2
60°	12.6	18.7	25.3	24.6	16.6	9.5	5.3	1.1
62.5°	3.3	8.3	14.5	14.3	7.8	2.7	1.4	0.2
65°	0.0	0.4	0.8	0.8	0.4	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°	2.3	3.8	4.9	6.3	7.8	8.7	9.5	9.1
90°	11.6	19.0	24.3	31.7	39.1	43.3	47.6	45.4
92.5°	28.5	41.0	48.8	61.3	70.4	78.0	81.4	81.0
95°	65.5	82.4	98.3	113.1	127.9	138.4	144.8	142.7
97.5°	104.0	131.3	151.5	171.4	187.9	197.8	204.2	208.4
100°	131.0	157.5	187.1	206.1	225.1	236.7	247.3	251.5
102.5°	164.0	186.2	215.8	240.7	261.5	273.9	282.8	287.0
105°	210.3	237.8	263.1	289.6	311.8	327.6	337.1	340.3
107.5°	255.3	285.6	310.5	337.8	358.3	375.8	387.4	394.2
110°	283.2	316.0	347.7	369.9	392.1	407.9	419.6	423.8



TEST NUMBER: P709270

CATALOG NUMBER: DL2W-BB-M-075U-075D-940-UNV-STD-W-WM-4

**CANDELA DISTRIBUTION (continued):**

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	312.0	345.6	379.0	403.7	425.9	441.7	455.1	461.0
115°	348.7	385.7	422.7	455.5	475.6	490.4	499.9	505.2
117.5°	386.4	424.4	459.1	493.3	515.3	526.7	531.2	535.0
120°	410.0	448.1	481.9	513.6	539.0	553.8	559.1	561.2
122.5°	430.3	467.5	503.0	533.1	557.6	575.8	584.4	586.5
125°	458.7	496.7	532.6	561.2	586.5	604.5	614.0	619.3
127.5°	485.5	520.4	558.4	589.3	612.5	628.8	638.1	642.3
130°	504.1	534.7	572.8	604.5	627.7	645.7	654.2	658.4
132.5°	523.5	547.4	583.8	617.2	641.3	657.6	666.9	671.1
135°	552.7	566.5	597.1	632.0	657.3	673.2	681.6	685.9
137.5°	583.8	589.1	608.7	640.4	666.9	683.5	691.2	693.9
140°	606.6	603.4	617.2	644.7	671.1	686.9	695.4	696.4
142.5°	630.3	622.9	628.2	649.7	672.8	688.6	697.1	699.0
145°	669.0	653.1	647.8	660.5	676.4	691.2	698.6	700.7
147.5°	707.9	687.4	672.6	676.6	684.8	694.5	701.7	703.2
150°	736.6	710.2	691.2	690.1	693.3	699.6	706.0	704.9
152.5°	763.7	736.4	712.3	706.2	706.0	708.9	711.9	711.7
155°	807.4	776.8	748.2	736.6	730.3	728.1	728.1	727.1
157.5°	849.3	818.0	787.8	771.5	762.0	756.9	755.4	753.1
160°	877.2	843.3	814.8	796.8	787.3	778.9	775.7	772.5
162.5°	903.4	872.1	840.2	823.0	812.7	805.1	801.9	797.1
165°	939.5	914.1	881.4	863.4	851.8	845.5	841.2	837.0
167.5°	970.6	949.4	922.6	902.9	895.3	888.1	884.1	876.5
170°	989.2	972.3	948.0	930.0	925.8	919.4	912.0	903.6
172.5°	1005.2	991.7	969.9	957.9	953.7	947.3	945.0	938.2
175°	1025.1	1017.7	1001.9	992.4	992.4	991.3	988.1	981.8
177.5°	1040.3	1037.8	1028.5	1023.4	1026.8	1026.8	1026.0	1020.0
180°	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2

(END OF REPORT)