

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: P709244

Luminaire Tested: DL2W-BB-M-025U-075D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709244
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-1, 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-025U-075D-930-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3811.9 lumens
Efficiency: N/A
Efficacy: 108.6 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-Direct

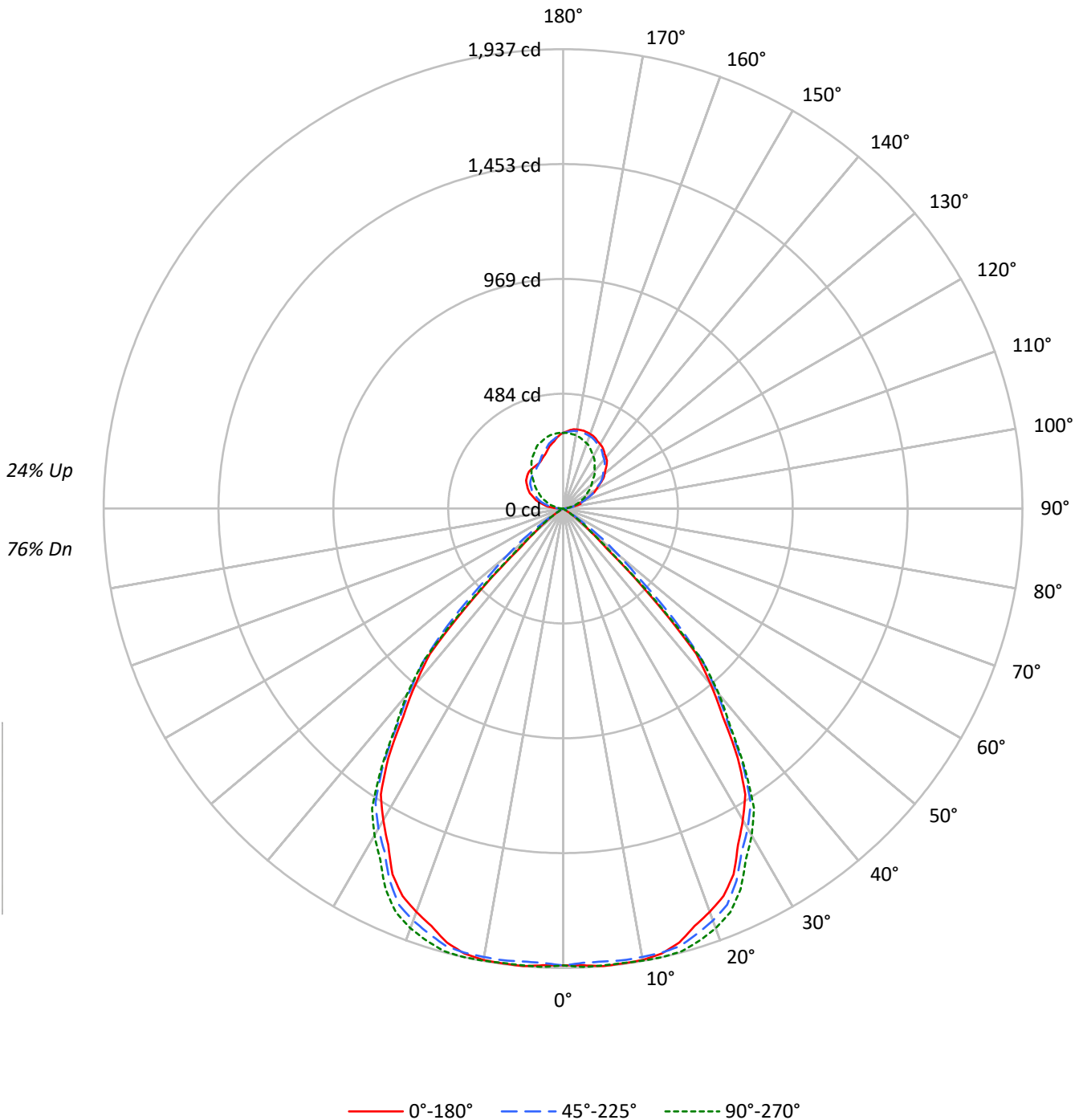
Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80	76		
1	106	103	100	98	101	99	96	94	90	88	86	82	81	79	75	74	73	70		
2	100	94	89	85	95	90	86	82	83	79	77	76	74	71	70	68	66	63		
3	93	85	80	75	89	82	77	73	76	72	69	70	67	64	65	63	60	58		
4	87	78	72	67	83	75	69	65	70	65	62	65	61	58	60	57	55	53		
5	81	71	65	60	78	69	63	58	64	59	55	60	56	53	56	53	50	48		
6	76	66	59	54	73	64	57	53	59	54	50	56	51	48	52	49	46	44		
7	71	60	54	49	68	59	52	48	55	50	46	52	47	44	49	45	42	40		
8	67	56	49	44	64	54	48	43	51	46	42	48	44	40	45	41	39	37		
9	63	52	45	41	60	50	44	40	47	42	38	45	40	37	42	38	36	34		
10	59	48	42	37	57	47	41	37	44	39	35	42	37	34	40	36	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	31095	31095	31095	31095	31095
5°	31386	31071	31339	31071	31386
10°	31685	31477	31732	31477	31685
15°	31661	31911	32304	31911	31661
20°	31087	31758	32345	31758	31087
25°	30310	30827	31547	30827	30310
30°	28271	29032	29655	29032	28271
35°	25332	26102	26319	26102	25332
40°	20428	21217	21585	21217	20428
45°	12077	15012	12869	15012	12077
50°	3800	7676	4016	7676	3800
55°	1520	2700	1520	2700	1520
60°	32	733	94	733	32
65°	0	27	0	27	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: 15066 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.1	4.8
10°-20°	539.4	14.2
20°-30°	793.6	20.8
30°-40°	811.1	21.3
40°-50°	467.2	12.3
50°-60°	80.4	2.1
60°-70°	2.9	0.1
70°-80°	0.0	0.0
80°-90°	1.7	0.0
90°-100°	25.5	0.7
100°-110°	74.1	1.9
110°-120°	120.9	3.2
120°-130°	153.3	4.0
130°-140°	164.1	4.3
140°-150°	153.2	4.0
150°-160°	126.1	3.3
160°-170°	84.6	2.2
170°-180°	30.0	0.8
0°-30°	1517.1	39.8
0°-40°	2328.2	61.1
0°-60°	2875.8	75.4
0°-90°	2880.4	75.6
90°-120°	220.5	5.8
90°-150°	691.1	18.1
90°-180°	932.0	24.4
0°-180°	3811.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1926	1926	1926	1926	1926	
5°	1936	1917	1934	1917	1936	185
15°	1894	1909	1933	1909	1894	532
25°	1701	1730	1771	1730	1701	775
35°	1285	1324	1335	1324	1285	788
45°	529	657	564	657	529	410
55°	54	96	54	96	54	55
65°	0	1	0	1	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	1
90°	7	6	1	9	15	3
95°	8	10	11	32	44	13
105°	77	57	47	85	105	71
115°	125	125	90	134	155	123
125°	197	192	134	167	188	176
135°	260	247	181	187	209	199
145°	299	289	232	199	214	187
155°	326	317	275	226	221	150
165°	340	331	304	265	255	96
175°	332	326	318	303	300	32
180°	319	319	319	319	319	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1925.9	1925.9	1925.9	1925.9	1925.9	1925.9	1925.9	1925.9	1925.9	1925.9	1925.9
2.5°	1927.4	1929.1	1930.8	1925.4	1917.5	1917.0	1923.8	1929.5	1931.9	1934.3	1931.9
5°	1936.5	1937.3	1938.2	1929.7	1918.2	1916.0	1923.3	1929.3	1931.4	1933.6	1931.4
7.5°	1934.2	1936.3	1938.4	1931.8	1922.3	1920.2	1925.3	1929.5	1931.0	1932.4	1931.0
10°	1932.6	1934.8	1936.9	1930.0	1920.2	1919.6	1928.1	1934.6	1935.1	1935.5	1935.1
12.5°	1921.8	1925.7	1929.5	1924.6	1916.9	1919.6	1933.0	1942.4	1939.7	1937.0	1939.7
15°	1894.1	1899.6	1905.2	1905.6	1904.4	1913.8	1933.9	1947.2	1939.9	1932.6	1939.9
17.5°	1845.5	1853.4	1861.3	1866.8	1871.5	1887.2	1914.0	1931.6	1921.3	1911.0	1921.3
20°	1809.3	1816.1	1823.0	1830.8	1838.9	1857.8	1887.3	1906.5	1894.5	1882.5	1894.5
22.5°	1768.4	1773.9	1779.4	1788.4	1798.6	1817.8	1846.0	1864.4	1853.4	1842.4	1853.4
25°	1701.4	1704.4	1707.4	1713.9	1721.6	1739.2	1766.6	1785.3	1778.0	1770.8	1778.0
27.5°	1597.3	1601.2	1605.0	1613.2	1622.8	1637.9	1658.4	1673.3	1671.3	1669.2	1671.3
30°	1516.4	1523.7	1531.0	1540.5	1550.8	1563.6	1579.0	1590.6	1590.6	1590.6	1590.6
32.5°	1430.1	1437.4	1444.7	1454.9	1466.3	1477.4	1488.3	1496.8	1497.9	1498.9	1497.9
35°	1285.2	1291.6	1298.0	1308.0	1319.1	1329.4	1338.8	1344.7	1340.0	1335.3	1340.0
37.5°	1107.2	1112.6	1117.9	1128.3	1140.3	1149.8	1156.9	1161.8	1160.0	1158.2	1160.0
40°	969.2	977.3	985.5	993.9	1002.5	1010.8	1019.0	1025.0	1024.5	1024.1	1024.5
42.5°	831.2	834.6	837.9	849.0	862.7	873.5	881.3	885.0	876.3	867.7	876.3
45°	528.9	573.0	617.1	639.7	655.1	659.8	653.8	639.8	601.7	563.6	601.7
47.5°	249.1	295.8	342.5	387.1	431.0	439.0	411.0	378.1	330.7	283.2	330.7
50°	151.3	167.1	182.9	236.0	301.5	309.7	260.4	216.4	188.2	159.9	188.2
52.5°	101.9	110.9	119.9	158.7	207.4	210.3	167.2	131.8	119.2	106.7	119.2
55°	54.0	56.5	59.1	75.1	95.7	96.1	76.4	60.8	57.4	54.0	57.4
57.5°	20.2	24.4	28.6	35.1	42.4	42.2	34.5	27.6	22.9	18.3	22.9
60°	1.0	4.8	8.7	15.1	22.4	23.0	17.0	11.5	7.2	2.9	7.2
62.5°	0.2	1.3	2.4	7.1	13.0	13.2	7.5	3.0	1.8	0.6	1.8
65°	0.0	0.0	0.0	0.3	0.7	0.7	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°	1.3	1.3	1.3	1.3	1.3	1.2	1.2	0.8	0.6	0.2	0.4
90°	6.7	6.7	6.7	6.7	6.7	5.8	5.8	3.8	2.9	1.0	1.9
92.5°	8.3	8.3	8.3	8.3	7.5	6.5	5.8	5.4	6.0	3.3	6.5
95°	7.7	7.7	7.7	7.7	8.7	11.5	15.4	16.4	11.5	10.6	14.4
97.5°	17.5	18.7	19.8	23.5	29.4	30.6	29.0	20.4	20.2	19.2	26.0
100°	33.7	35.6	37.5	40.4	47.1	37.5	29.8	28.9	27.9	26.9	33.7
102.5°	56.0	57.1	59.8	59.6	46.4	41.4	39.8	38.1	35.6	34.6	42.1
105°	76.9	72.1	63.5	55.8	56.7	56.7	56.7	51.9	48.1	47.1	54.8
107.5°	73.9	72.9	73.9	75.6	76.6	76.4	74.1	67.9	61.2	59.8	67.5
110°	88.5	87.5	88.5	89.4	90.4	89.4	85.6	77.9	71.2	68.3	76.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	101.6	102.1	103.1	104.1	104.3	103.3	98.7	89.4	80.4	76.8	83.7
115°	125.0	125.0	125.0	126.0	126.0	124.1	117.3	106.8	95.2	90.4	95.2
117.5°	147.7	147.0	147.0	147.0	147.0	143.7	135.8	123.1	110.2	103.1	107.5
120°	161.6	161.6	161.6	161.6	161.6	156.8	148.1	134.7	120.2	111.6	114.5
122.5°	176.2	175.4	176.2	175.4	174.7	169.9	159.7	146.2	131.0	120.0	121.4
125°	197.2	197.2	195.2	195.2	194.3	189.5	177.9	163.5	147.2	133.7	132.7
127.5°	216.6	217.4	214.9	213.9	212.4	205.6	195.2	181.8	162.5	146.8	142.3
130°	228.9	228.9	227.9	227.0	223.1	216.4	206.8	193.3	174.1	156.8	150.0
132.5°	242.0	242.0	241.0	238.5	233.9	227.9	218.3	204.9	184.9	166.8	157.7
135°	259.7	258.7	256.8	254.9	250.1	243.3	234.7	221.2	201.0	180.8	170.2
137.5°	274.1	273.2	271.4	267.8	263.9	257.4	248.7	236.0	217.2	196.8	182.2
140°	281.8	280.8	279.9	277.0	273.2	267.4	258.7	245.3	227.9	206.8	191.4
142.5°	288.7	288.5	286.8	284.7	280.8	274.3	267.2	254.5	237.2	217.6	200.6
145°	299.1	299.1	298.2	296.2	292.4	285.7	279.9	268.3	251.0	231.8	214.5
147.5°	308.2	308.4	307.2	305.3	301.6	295.8	290.3	278.7	263.7	246.4	228.3
150°	313.5	314.5	312.6	310.7	307.8	302.0	297.2	285.7	272.2	254.9	237.6
152.5°	318.2	319.9	318.0	316.8	313.2	307.4	302.6	291.8	279.1	264.1	246.8
155°	326.0	327.0	325.1	324.1	319.3	314.5	310.7	300.1	288.5	275.1	260.6
157.5°	331.6	332.6	331.6	329.7	324.9	320.3	316.4	307.8	297.4	286.2	272.2
160°	334.7	335.7	334.7	332.8	328.0	324.1	320.3	311.6	302.0	292.4	279.9
162.5°	337.0	338.0	337.0	335.1	330.3	326.4	323.4	315.5	306.6	297.0	286.0
165°	339.5	340.5	339.5	336.6	332.8	328.9	326.0	319.3	311.6	303.9	296.2
167.5°	339.3	341.2	339.5	338.4	332.8	330.9	328.2	322.4	316.0	309.7	302.4
170°	338.6	340.5	339.5	337.6	332.8	330.9	328.9	323.2	318.4	313.5	307.8
172.5°	337.0	338.2	337.2	336.1	331.2	329.3	328.2	323.9	319.9	315.9	310.9
175°	331.8	333.7	332.8	331.8	327.0	326.0	327.0	323.2	320.3	318.4	315.5
177.5°	324.7	326.2	325.5	324.7	322.4	321.6	323.2	321.6	320.1	319.3	317.8
180°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1925.9	1925.9	1925.9	1925.9	1925.9	1925.9	1925.9	1925.9
2.5°	1929.5	1923.8	1917.0	1917.5	1925.4	1930.8	1929.1	1927.4
5°	1929.3	1923.3	1916.0	1918.2	1929.7	1938.2	1937.3	1936.5
7.5°	1929.5	1925.3	1920.2	1922.3	1931.8	1938.4	1936.3	1934.2
10°	1934.6	1928.1	1919.6	1920.2	1930.0	1936.9	1934.8	1932.6
12.5°	1942.4	1933.0	1919.6	1916.9	1924.6	1929.5	1925.7	1921.8
15°	1947.2	1933.9	1913.8	1904.4	1905.6	1905.2	1899.6	1894.1
17.5°	1931.6	1914.0	1887.2	1871.5	1866.8	1861.3	1853.4	1845.5
20°	1906.5	1887.3	1857.8	1838.9	1830.8	1823.0	1816.1	1809.3
22.5°	1864.4	1846.0	1817.8	1798.6	1788.4	1779.4	1773.9	1768.4
25°	1785.3	1766.6	1739.2	1721.6	1713.9	1707.4	1704.4	1701.4
27.5°	1673.3	1658.4	1637.9	1622.8	1613.2	1605.0	1601.2	1597.3
30°	1590.6	1579.0	1563.6	1550.8	1540.5	1531.0	1523.7	1516.4
32.5°	1496.8	1488.3	1477.4	1466.3	1454.9	1444.7	1437.4	1430.1
35°	1344.7	1338.8	1329.4	1319.1	1308.0	1298.0	1291.6	1285.2
37.5°	1161.8	1156.9	1149.8	1140.3	1128.3	1117.9	1112.6	1107.2
40°	1025.0	1019.0	1010.8	1002.5	993.9	985.5	977.3	969.2
42.5°	885.0	881.3	873.5	862.7	849.0	837.9	834.6	831.2
45°	639.8	653.8	659.8	655.1	639.7	617.1	573.0	528.9
47.5°	378.1	411.0	439.0	431.0	387.1	342.5	295.8	249.1
50°	216.4	260.4	309.7	301.5	236.0	182.9	167.1	151.3
52.5°	131.8	167.2	210.3	207.4	158.7	119.9	110.9	101.9
55°	60.8	76.4	96.1	95.7	75.1	59.1	56.5	54.0
57.5°	27.6	34.5	42.2	42.4	35.1	28.6	24.4	20.2
60°	11.5	17.0	23.0	22.4	15.1	8.7	4.8	1.0
62.5°	3.0	7.5	13.2	13.0	7.1	2.4	1.3	0.2
65°	0.0	0.3	0.7	0.7	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°	0.8	1.2	1.5	1.9	2.5	2.7	2.9	3.1
90°	3.8	5.8	7.7	9.6	12.5	13.5	14.4	15.4
92.5°	8.5	11.9	15.4	18.1	21.7	24.2	24.4	25.4
95°	20.2	25.0	29.8	34.6	39.4	43.3	44.2	44.2
97.5°	32.1	39.6	46.0	51.7	57.3	60.6	62.7	64.6
100°	41.4	48.1	56.7	62.5	67.3	72.1	75.0	76.9
102.5°	50.6	57.3	66.0	73.3	80.4	83.7	87.3	88.5
105°	64.4	72.1	80.8	89.4	95.2	100.0	102.9	104.8
107.5°	77.3	86.9	95.2	103.3	109.3	115.0	118.7	119.8
110°	86.6	96.2	106.8	112.5	119.3	125.0	127.9	129.8

TEST NUMBER: P709244

CATALOG NUMBER: DL2W-BB-M-025U-075D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	95.0	105.4	116.0	123.3	130.0	135.8	138.7	140.6
115°	106.8	117.3	127.9	139.5	146.2	150.0	152.9	154.8
117.5°	117.3	128.9	139.5	149.8	157.5	160.6	162.5	163.7
120°	125.0	136.6	147.2	156.8	164.5	168.3	170.2	172.2
122.5°	131.2	142.7	153.3	162.9	170.6	175.2	177.9	179.1
125°	140.4	151.0	162.5	171.2	178.9	184.7	187.6	188.5
127.5°	147.7	158.7	170.2	179.3	187.0	191.6	194.5	196.2
130°	153.9	162.5	174.1	184.7	192.4	196.2	199.1	200.1
132.5°	160.0	167.2	177.9	188.5	196.2	200.8	203.7	204.7
135°	168.3	172.2	181.8	192.4	200.1	204.9	207.7	208.7
137.5°	178.7	180.0	185.4	195.4	203.3	208.1	210.8	211.8
140°	185.6	184.7	188.5	196.2	204.9	209.7	211.6	212.6
142.5°	191.8	190.1	191.6	197.7	204.9	209.7	212.4	212.6
145°	203.9	199.1	197.2	201.0	205.8	210.6	213.5	213.5
147.5°	215.6	209.7	205.2	206.0	208.5	212.0	213.7	213.9
150°	224.1	217.4	210.6	210.6	211.6	213.5	214.5	215.4
152.5°	233.3	225.1	217.6	216.0	215.4	215.8	217.6	217.0
155°	246.2	236.6	227.9	225.1	223.1	222.2	222.2	221.2
157.5°	258.9	250.1	239.7	235.6	232.6	230.8	229.7	228.7
160°	267.4	257.8	248.1	243.3	239.5	238.5	236.6	235.6
162.5°	275.8	265.5	256.6	251.0	247.2	246.2	245.1	243.3
165°	286.6	278.9	268.3	262.6	260.6	257.8	256.8	254.9
167.5°	296.6	290.3	281.8	276.2	272.6	270.6	269.7	267.8
170°	302.0	297.2	289.5	284.7	281.8	279.9	278.9	277.0
172.5°	306.6	302.6	296.4	292.4	290.3	289.1	287.4	286.2
175°	312.6	310.7	304.9	302.0	303.0	302.0	302.0	300.1
177.5°	317.0	316.2	313.2	311.6	313.9	313.2	313.2	310.9
180°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3

(END OF REPORT)