

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: 19090

Luminaire Tested: **AW-WO-2T5**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 19090  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: AW-WO-2T5  
Description: CLASS A DIRECT/INDIRECT WALL LUMINAIRE WITH WHITE INTERIOR AND WHITE OPAL PLASTIC LENS  
Light Source: TWO SYLVANIA 54 WATT T5 LAMPS  
  
FP54/841HO. LUMEN RATING = 4500 LMS.  
  
Ballast/Driver: -

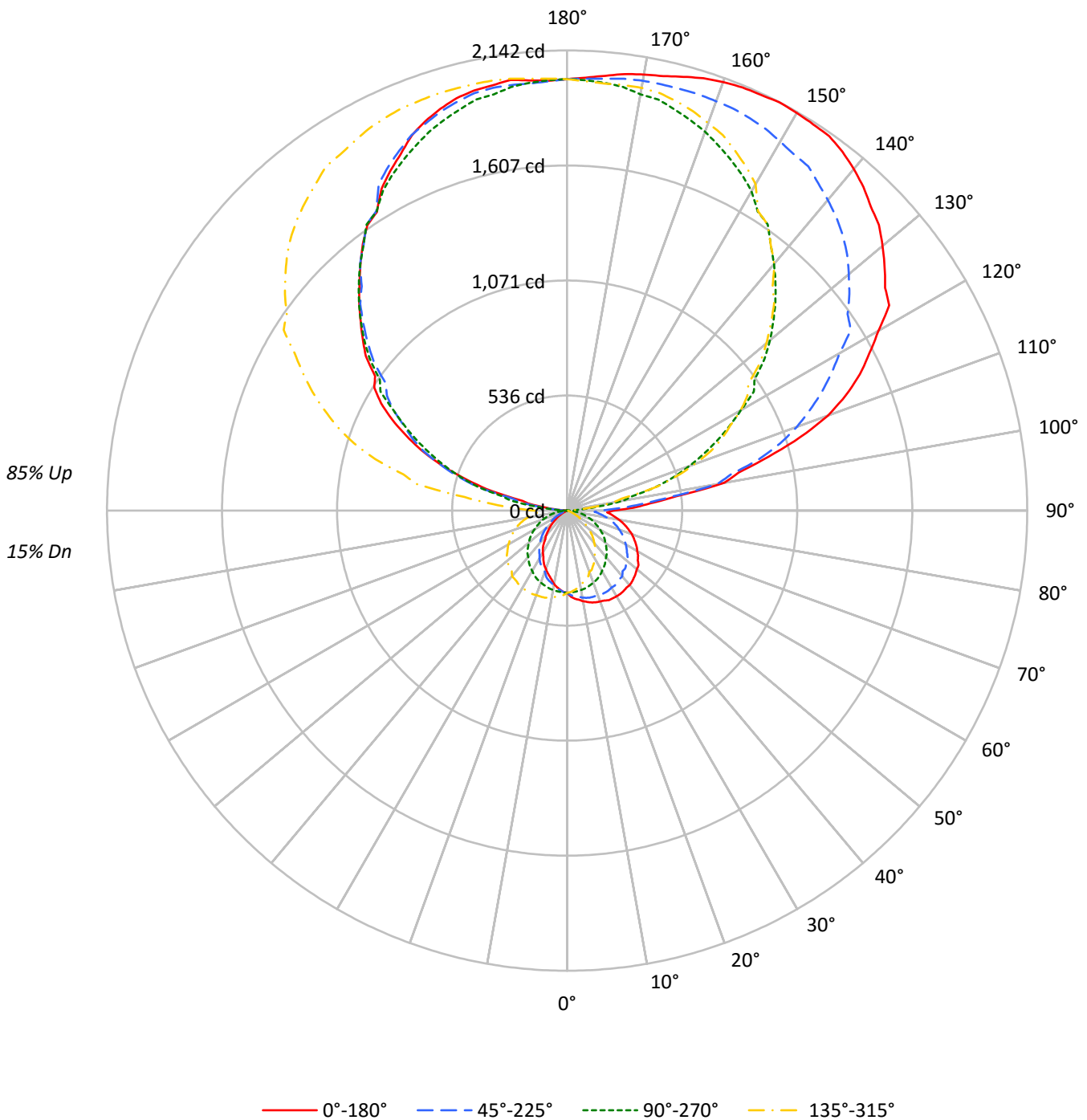
**Summary**

Lumens per Lamp: 4500 (2 lamps)  
Luminaire Lumens: 8271.0 lumens  
Efficiency: 91.9%  
Efficacy: 64.6 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.26 / 1.43  
Luminous Opening: Rectangular w/ Sides (W: 0.19' x L: 3' x H: 0.09')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 128  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 25 FT



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CATALOG NUMBER: AW-WO-2T5

### 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	91	91	91	91	80	80	80	80	59	59	59	40	40	40	22	22	22	14				
1	82	78	75	72	72	69	66	63	51	49	47	34	33	32	19	19	18	11				
2	75	68	63	58	65	60	55	52	44	41	39	30	28	27	17	16	15	9				
3	68	60	53	48	59	53	47	43	39	35	32	26	24	22	15	13	13	8				
4	62	53	46	40	54	46	41	36	34	30	27	23	21	19	13	12	11	6				
5	57	47	40	34	50	41	35	31	31	26	23	21	18	16	12	10	9	5				
6	52	42	35	29	45	37	31	26	27	23	20	19	16	14	10	9	8	5				
7	48	37	30	26	42	33	27	23	25	20	17	17	14	12	9	8	7	4				
8	44	34	27	22	39	30	24	20	22	18	15	15	13	11	9	7	6	4				
9	41	31	24	20	36	27	21	18	20	16	13	14	11	9	8	7	6	3				
10	38	28	21	17	33	25	19	16	18	15	12	13	10	8	7	6	5	3				

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

	0°	90°	180°	270°
0°	7223	7223	7223	7223
5°	7782	6908	6986	6908
10°	8168	6635	6628	6635
15°	8590	6393	6131	6393
20°	8951	6128	5741	6128
25°	9459	5874	5330	5874
30°	9866	5556	4831	5556
35°	10332	5299	4319	5299
40°	10890	4971	3718	4971
45°	11416	4706	3057	4706
50°	12015	4345	2380	4345
55°	12676	4065	1787	4065
60°	13532	3616	977	3616
65°	14702	3236	441	3236
70°	16364	2829	398	2829
75°	18641	2238	341	2238
80°	22742	1599	297	1599
85°	33237	716	81	716



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 CATALOG NUMBER: AW-WO-2T5

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	36.6	0.4	0.4
10°-20°	105.5	1.3	1.2
20°-30°	161.5	2.0	1.8
30°-40°	197.3	2.4	2.2
40°-50°	208.0	2.5	2.3
50°-60°	194.6	2.4	2.2
60°-70°	161.6	2.0	1.8
70°-80°	122.4	1.5	1.4
80°-90°	79.7	1.0	0.9
90°-100°	218.5	2.6	2.4
100°-110°	649.8	7.9	7.2
110°-120°	1000.2	12.1	11.1
120°-130°	1172.0	14.2	13.0
130°-140°	1209.1	14.6	13.4
140°-150°	1110.1	13.4	12.3
150°-160°	886.5	10.7	9.9
160°-170°	565.4	6.8	6.3
170°-180°	192.2	2.3	2.1
0°-30°	303.5	3.7	3.4
0°-40°	500.8	6.1	5.6
0°-60°	903.4	10.9	10.0
0°-90°	1267.1	15.3	14.1
90°-120°	1868.5	22.6	20.8
90°-150°	5359.8	64.8	59.6
90°-180°	7004.0	84.7	77.8
0°-180°	8271.0	100.0	91.9

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	382	382	382	382	382	
5°	412	380	370	380	412	40
15°	443	368	316	368	443	125
25°	460	344	259	344	460	212
35°	458	306	191	306	458	287
45°	440	260	118	260	440	340
55°	402	207	57	207	402	361
65°	350	146	10	146	350	347
75°	284	85	5	85	284	299
85°	206	21	0	21	206	176
90°	215	0	0	0	215	127
95°	387	70	47	70	387	388
105°	971	431	390	431	971	1041
115°	1504	770	827	770	1504	1481
125°	1807	1065	1091	1065	1807	1623
135°	2000	1370	1369	1370	2000	1548
145°	2127	1627	1621	1627	2127	1330
155°	2134	1802	1832	1802	2134	988
165°	2090	1933	1988	1933	2090	594
175°	2032	1999	2010	1999	2032	195
180°	2008	2008	2008	2008	2008	



TEST NUMBER: 19090  
 CATALOG NUMBER: AW-WO-2T5

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	382.5	382.5	382.5	382.5	382.5	382.5	382.5	382.5	382.5	382.5	382.5
2.5°	401.5	394.2	394.2	389.5	382.2	376.9	379.5	376.9	379.5	376.9	379.5
5°	411.6	404.2	401.5	391.5	379.5	374.9	372.2	364.8	369.5	364.8	372.2
7.5°	418.9	411.6	404.2	394.2	378.2	367.5	364.8	357.5	360.2	357.5	364.8
10°	428.2	418.9	411.6	391.5	374.9	362.2	354.8	345.5	347.5	345.5	354.8
12.5°	435.6	426.2	416.2	394.2	372.2	352.8	342.8	330.8	330.8	330.8	342.8
15°	442.9	430.9	418.9	394.2	368.5	345.5	335.5	313.5	316.1	313.5	335.5
17.5°	447.6	438.2	418.9	391.5	362.2	340.2	323.5	306.1	303.5	306.1	323.5
20°	450.3	440.3	418.9	389.5	357.5	328.1	303.5	288.8	288.8	288.8	303.5
22.5°	452.9	445.6	420.9	386.9	351.5	318.1	298.8	272.1	276.8	272.1	298.8
25°	460.3	447.6	420.9	382.2	344.2	310.8	284.1	259.4	259.4	259.4	284.1
27.5°	460.3	447.6	418.9	379.5	335.5	294.1	272.1	242.7	240.1	242.7	272.1
30°	460.3	447.6	413.6	372.2	324.5	286.8	257.4	225.4	225.4	225.4	257.4
32.5°	460.3	445.6	413.6	367.5	316.1	274.1	240.1	213.4	210.7	213.4	240.1
35°	457.6	447.6	406.2	360.2	306.1	257.4	225.4	191.3	191.3	191.3	225.4
37.5°	452.9	442.9	401.5	352.8	293.8	247.4	213.4	176.7	166.7	176.7	213.4
40°	452.9	440.3	398.9	342.8	281.8	232.7	196.0	157.3	154.6	157.3	196.0
42.5°	447.6	430.9	382.2	335.5	273.1	218.0	181.3	137.3	135.3	137.3	181.3
45°	440.3	426.2	382.2	325.5	259.7	203.4	164.7	120.6	117.9	120.6	164.7
47.5°	432.9	418.9	372.2	313.5	246.4	188.7	147.3	103.3	100.6	103.3	147.3
50°	423.6	411.6	360.2	303.5	231.4	174.0	128.0	83.9	83.9	83.9	128.0
52.5°	418.9	401.5	354.8	294.1	220.4	157.3	110.6	71.2	69.2	71.2	110.6
55°	401.5	389.5	340.2	279.4	207.0	142.6	93.3	56.6	56.6	56.6	93.3
57.5°	391.5	382.2	328.1	266.8	192.7	130.0	78.6	41.9	39.9	41.9	78.6
60°	376.9	364.8	316.1	252.1	174.3	110.6	63.9	27.2	27.2	27.2	63.9
62.5°	364.8	352.8	301.5	237.4	162.0	98.6	49.2	15.2	10.5	15.2	49.2
65°	350.2	338.2	288.8	222.7	146.0	76.6	34.5	10.5	10.5	10.5	34.5
67.5°	335.5	323.5	274.1	208.0	132.6	63.9	25.2	7.8	7.8	7.8	25.2
70°	320.8	306.1	257.4	194.0	117.9	47.2	15.2	7.8	7.8	7.8	15.2
72.5°	301.5	288.8	242.7	179.3	100.9	32.5	10.5	7.8	7.8	7.8	10.5
75°	284.1	272.1	225.4	164.7	84.9	22.5	7.8	5.2	5.2	5.2	7.8
77.5°	264.8	254.7	206.0	147.3	71.6	10.5	5.2	5.2	5.2	5.2	5.2
80°	244.7	240.1	186.7	130.0	54.2	3.2	5.2	0.5	3.2	0.5	5.2
82.5°	225.4	218.0	166.7	113.3	38.2	0.5	3.2	3.2	3.2	3.2	3.2
85°	206.0	201.4	147.3	95.9	21.2	0.5	3.2	0.5	0.5	0.5	3.2
87.5°	186.7	181.3	128.0	76.6	5.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	215.4	170.7	150.6	66.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	308.8	269.4	240.1	142.6	22.5	29.9	7.8	10.5	3.2	10.5	7.8
95°	386.9	347.5	345.5	252.1	70.2	93.3	51.9	61.9	47.2	61.9	51.9
97.5°	513.7	469.6	482.3	382.2	151.0	191.3	117.9	122.6	91.3	122.6	117.9
100°	741.2	609.1	709.2	509.0	265.8	288.8	213.4	215.4	176.7	215.4	213.4
102.5°	817.3	758.6	780.6	599.7	310.8	374.9	262.1	320.8	218.0	320.8	262.1
105°	970.8	919.4	924.7	694.5	430.9	445.6	438.2	430.9	389.5	430.9	438.2
107.5°	1139.6	1076.2	1039.5	782.6	521.3	513.7	535.7	550.4	506.3	550.4	535.7
110°	1291.1	1227.7	1136.9	873.3	604.4	587.1	631.1	665.1	626.4	665.1	631.1



TEST NUMBER: 19090  
 CATALOG NUMBER: AW-WO-2T5

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1405.8	1330.4	1223.0	956.1	687.2	667.8	723.9	753.2	736.5	753.2	723.9
115°	1503.9	1423.2	1308.4	1044.2	769.6	753.2	795.3	848.6	826.6	848.6	795.3
117.5°	1586.7	1515.9	1386.5	1124.9	851.3	841.3	856.0	929.4	919.4	929.4	856.0
120°	1672.8	1596.7	1464.6	1195.6	933.1	929.4	932.0	998.1	1000.1	998.1	932.0
122.5°	1777.5	1665.4	1564.6	1267.0	1029.8	1005.5	995.4	1058.8	1064.2	1058.8	995.4
125°	1806.9	1728.8	1594.0	1330.4	1064.8	1093.5	1029.5	1120.2	1090.9	1120.2	1029.5
127.5°	1862.9	1789.5	1655.4	1393.8	1156.9	1173.6	1132.2	1181.0	1181.0	1181.0	1132.2
130°	1917.0	1848.3	1711.5	1455.2	1232.7	1254.4	1210.3	1247.0	1242.3	1247.0	1210.3
132.5°	1968.4	1895.0	1767.5	1513.9	1301.1	1339.8	1286.4	1315.7	1303.7	1315.7	1286.4
135°	1999.7	1939.0	1814.2	1570.0	1370.5	1418.5	1361.8	1381.8	1369.1	1381.8	1361.8
137.5°	2041.8	1980.4	1853.6	1618.7	1435.5	1489.2	1415.8	1449.9	1430.5	1449.9	1415.8
140°	2075.8	2019.7	1887.6	1670.1	1497.9	1555.3	1499.3	1515.9	1496.6	1515.9	1499.3
142.5°	2105.2	2049.1	1919.7	1711.5	1556.3	1616.0	1557.3	1579.3	1562.6	1579.3	1557.3
145°	2127.2	2073.1	1956.4	1758.2	1627.0	1674.8	1626.0	1636.1	1621.4	1636.1	1626.0
147.5°	2131.9	2090.5	1965.7	1796.9	1650.4	1726.1	1652.7	1694.8	1648.1	1694.8	1652.7
150°	2137.2	2100.5	1983.0	1836.2	1716.5	1774.8	1753.5	1750.8	1728.8	1750.8	1753.5
152.5°	2141.9	2102.5	2002.4	1868.3	1761.8	1818.9	1804.2	1802.2	1782.2	1802.2	1804.2
155°	2134.5	2105.2	2014.4	1895.0	1801.9	1860.9	1848.3	1862.9	1831.6	1862.9	1848.3
157.5°	2131.9	2102.5	2024.4	1924.3	1839.9	1895.0	1892.3	1907.0	1890.3	1907.0	1892.3
160°	2122.5	2100.5	2027.1	1949.0	1876.6	1924.3	1919.7	1941.7	1929.0	1941.7	1919.7
162.5°	2109.8	2093.2	2031.8	1968.4	1906.0	1946.3	1949.0	1971.0	1961.0	1971.0	1949.0
165°	2090.5	2083.1	2031.8	1985.0	1932.7	1963.7	1971.0	1992.4	1987.7	1992.4	1971.0
167.5°	2071.1	2068.5	2031.8	1995.1	1959.7	1975.7	1990.4	2009.7	2002.4	2009.7	1990.4
170°	2061.1	2056.4	2031.8	2009.7	1967.0	1985.0	1997.7	2017.1	2009.7	2017.1	1997.7
172.5°	2049.1	2046.4	2027.1	2014.4	1988.7	1997.7	1997.7	2017.1	2021.7	2017.1	1997.7
175°	2031.8	2031.8	2017.1	2017.1	1998.7	2007.1	1995.1	2009.7	2009.7	2009.7	1995.1
177.5°	2017.1	2019.7	2012.4	2019.7	2005.1	2014.4	1999.7	2005.1	2002.4	2005.1	1999.7
180°	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3



TEST NUMBER: 19090  
 CATALOG NUMBER: AW-WO-2T5

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	382.5	382.5	382.5	382.5	382.5	382.5
2.5°	376.9	382.2	389.5	394.2	394.2	401.5
5°	374.9	379.5	391.5	401.5	404.2	411.6
7.5°	367.5	378.2	394.2	404.2	411.6	418.9
10°	362.2	374.9	391.5	411.6	418.9	428.2
12.5°	352.8	372.2	394.2	416.2	426.2	435.6
15°	345.5	368.5	394.2	418.9	430.9	442.9
17.5°	340.2	362.2	391.5	418.9	438.2	447.6
20°	328.1	357.5	389.5	418.9	440.3	450.3
22.5°	318.1	351.5	386.9	420.9	445.6	452.9
25°	310.8	344.2	382.2	420.9	447.6	460.3
27.5°	294.1	335.5	379.5	418.9	447.6	460.3
30°	286.8	324.5	372.2	413.6	447.6	460.3
32.5°	274.1	316.1	367.5	413.6	445.6	460.3
35°	257.4	306.1	360.2	406.2	447.6	457.6
37.5°	247.4	293.8	352.8	401.5	442.9	452.9
40°	232.7	281.8	342.8	398.9	440.3	452.9
42.5°	218.0	273.1	335.5	382.2	430.9	447.6
45°	203.4	259.7	325.5	382.2	426.2	440.3
47.5°	188.7	246.4	313.5	372.2	418.9	432.9
50°	174.0	231.4	303.5	360.2	411.6	423.6
52.5°	157.3	220.4	294.1	354.8	401.5	418.9
55°	142.6	207.0	279.4	340.2	389.5	401.5
57.5°	130.0	192.7	266.8	328.1	382.2	391.5
60°	110.6	174.3	252.1	316.1	364.8	376.9
62.5°	98.6	162.0	237.4	301.5	352.8	364.8
65°	76.6	146.0	222.7	288.8	338.2	350.2
67.5°	63.9	132.6	208.0	274.1	323.5	335.5
70°	47.2	117.9	194.0	257.4	306.1	320.8
72.5°	32.5	100.9	179.3	242.7	288.8	301.5
75°	22.5	84.9	164.7	225.4	272.1	284.1
77.5°	10.5	71.6	147.3	206.0	254.7	264.8
80°	3.2	54.2	130.0	186.7	240.1	244.7
82.5°	0.5	38.2	113.3	166.7	218.0	225.4
85°	0.5	21.2	95.9	147.3	201.4	206.0
87.5°	0.5	5.5	76.6	128.0	181.3	186.7
90°	0.5	0.5	66.6	150.6	170.7	215.4
92.5°	29.9	22.5	142.6	240.1	269.4	308.8
95°	93.3	70.2	252.1	345.5	347.5	386.9
97.5°	191.3	151.0	382.2	482.3	469.6	513.7
100°	288.8	265.8	509.0	709.2	609.1	741.2
102.5°	374.9	310.8	599.7	780.6	758.6	817.3
105°	445.6	430.9	694.5	924.7	919.4	970.8
107.5°	513.7	521.3	782.6	1039.5	1076.2	1139.6
110°	587.1	604.4	873.3	1136.9	1227.7	1291.1





TEST NUMBER: 19090  
 CATALOG NUMBER: AW-WO-2T5

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	667.8	687.2	956.1	1223.0	1330.4	1405.8
115°	753.2	769.6	1044.2	1308.4	1423.2	1503.9
117.5°	841.3	851.3	1124.9	1386.5	1515.9	1586.7
120°	929.4	933.1	1195.6	1464.6	1596.7	1672.8
122.5°	1005.5	1029.8	1267.0	1564.6	1665.4	1777.5
125°	1093.5	1064.8	1330.4	1594.0	1728.8	1806.9
127.5°	1173.6	1156.9	1393.8	1655.4	1789.5	1862.9
130°	1254.4	1232.7	1455.2	1711.5	1848.3	1917.0
132.5°	1339.8	1301.1	1513.9	1767.5	1895.0	1968.4
135°	1418.5	1370.5	1570.0	1814.2	1939.0	1999.7
137.5°	1489.2	1435.5	1618.7	1853.6	1980.4	2041.8
140°	1555.3	1497.9	1670.1	1887.6	2019.7	2075.8
142.5°	1616.0	1556.3	1711.5	1919.7	2049.1	2105.2
145°	1674.8	1627.0	1758.2	1956.4	2073.1	2127.2
147.5°	1726.1	1650.4	1796.9	1965.7	2090.5	2131.9
150°	1774.8	1716.5	1836.2	1983.0	2100.5	2137.2
152.5°	1818.9	1761.8	1868.3	2002.4	2102.5	2141.9
155°	1860.9	1801.9	1895.0	2014.4	2105.2	2134.5
157.5°	1895.0	1839.9	1924.3	2024.4	2102.5	2131.9
160°	1924.3	1876.6	1949.0	2027.1	2100.5	2122.5
162.5°	1946.3	1906.0	1968.4	2031.8	2093.2	2109.8
165°	1963.7	1932.7	1985.0	2031.8	2083.1	2090.5
167.5°	1975.7	1959.7	1995.1	2031.8	2068.5	2071.1
170°	1985.0	1967.0	2009.7	2031.8	2056.4	2061.1
172.5°	1997.7	1988.7	2014.4	2027.1	2046.4	2049.1
175°	2007.1	1998.7	2017.1	2017.1	2031.8	2031.8
177.5°	2014.4	2005.1	2019.7	2012.4	2019.7	2017.1
180°	2008.3	2008.3	2008.3	2008.3	2008.3	2008.3

(END OF REPORT)