

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: 19094

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 19094
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AW-WB-2T5
Description: CLASS A DIRECT/INDIRECT WALL LUMINAIRE WITH WHITE INTERIOR AND WHITE
18 CELL PERF BAFFLE
Light Source: TWO SYLVANIA 54 WATT T5 LAMPS

FP54/841HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

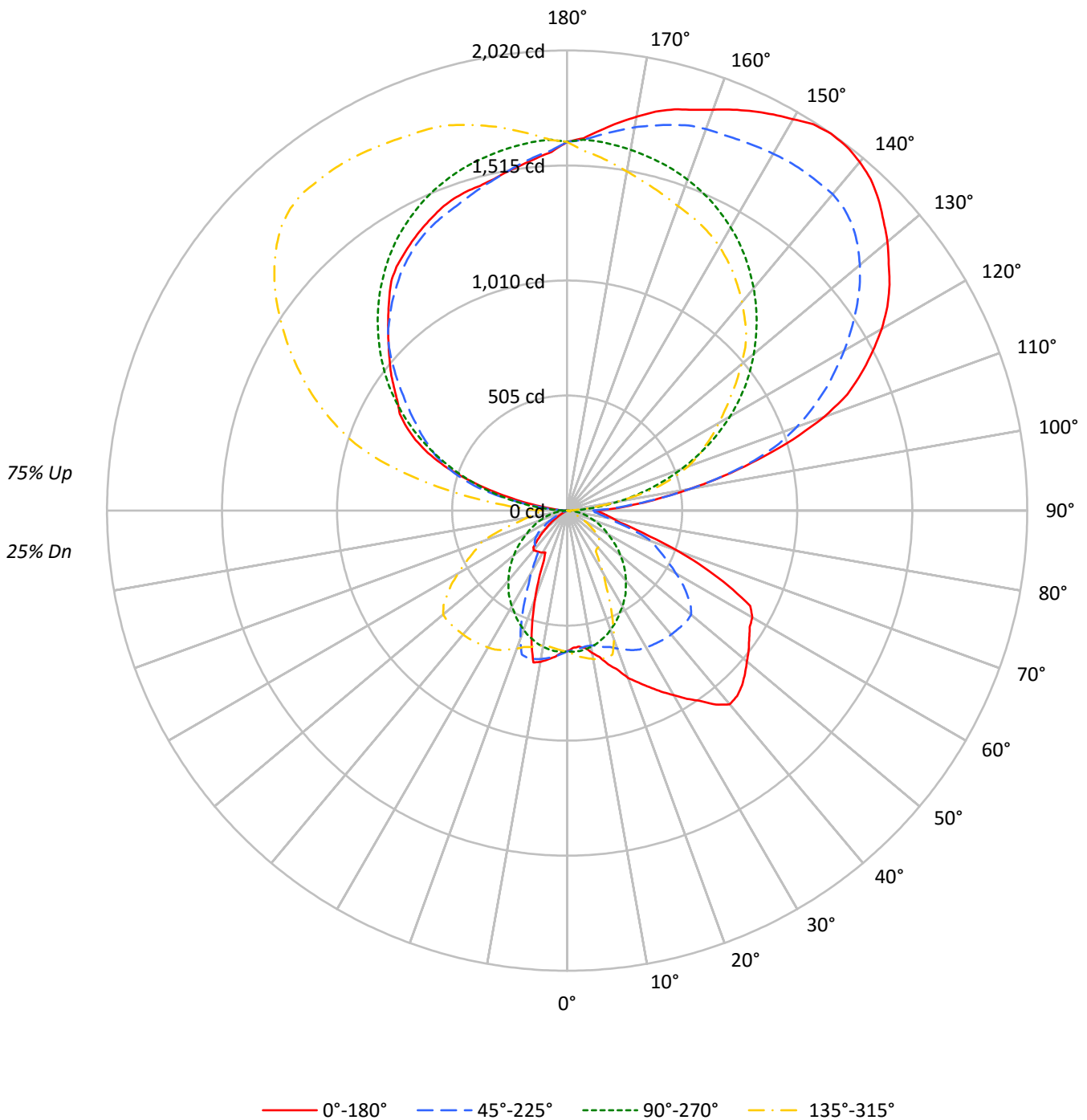
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 8193.0 lumens
Efficiency: 91.0%
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 1.63 / 1.18 / 1.46
Luminous Opening: Rectangular w/ Sides (W: 0.19' x L: 3' x H: 0.09')
CIE Type: Semi-Indirect

Input Watts (W): 128
Input Voltage (V): NR
Input Current (A_{in}): 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



TEST NUMBER: 19094
CATALOG NUMBER: AW-WB-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	0
RCR																		
0	92	92	92	92	82	82	82	82	63	63	63	46	46	46	30	30	30	23
1	84	80	76	73	74	71	68	66	55	53	51	40	39	38	26	26	25	19
2	76	69	64	59	67	62	57	53	48	45	42	35	33	31	23	22	21	15
3	69	61	54	49	61	54	49	44	42	38	35	31	28	26	20	19	17	13
4	63	54	47	41	56	48	42	37	37	33	30	27	24	22	18	16	15	11
5	58	47	40	35	51	42	36	32	33	29	25	24	21	19	16	14	13	9
6	53	42	35	30	47	38	32	27	30	25	22	22	19	16	14	13	11	8
7	49	38	31	26	43	34	28	24	27	22	19	20	17	14	13	11	10	7
8	45	34	27	23	40	31	25	21	24	20	17	18	15	13	12	10	9	6
9	42	31	25	20	37	28	22	18	22	18	15	16	13	11	11	9	8	6
10	39	28	22	18	35	26	20	16	20	16	13	15	12	10	10	8	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11674	11674	11674	11674
5°	11333	11269	12212	11269
10°	12093	10740	12860	10740
15°	13557	10154	11736	10154
20°	15525	9551	8176	9551
25°	17569	8926	4967	8926
30°	20047	8322	4540	8322
35°	23026	7731	4985	7731
40°	26706	7093	5485	7093
45°	28148	6419	4810	6419
50°	29218	5714	3370	5714
55°	30797	5006	2093	5006
60°	33698	4247	797	4247
65°	32755	3644	290	3644
70°	26351	3013	316	3013
75°	19540	2388	249	2388
80°	19173	1711	130	1711
85°	25896	872	81	872



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	59.8	0.7	0.7
10°-20°	180.6	2.2	2.0
20°-30°	259.4	3.2	2.9
30°-40°	321.3	3.9	3.6
40°-50°	381.4	4.7	4.2
50°-60°	360.1	4.4	4.0
60°-70°	272.3	3.3	3.0
70°-80°	140.2	1.7	1.6
80°-90°	70.9	0.9	0.8
90°-100°	184.5	2.3	2.0
100°-110°	592.7	7.2	6.6
110°-120°	919.0	11.2	10.2
120°-130°	1063.6	13.0	11.8
130°-140°	1077.1	13.1	12.0
140°-150°	959.9	11.7	10.7
150°-160°	736.9	9.0	8.2
160°-170°	458.6	5.6	5.1
170°-180°	154.7	1.9	1.7
0°-30°	499.8	6.1	5.6
0°-40°	821.1	10.0	9.1
0°-60°	1562.7	19.1	17.4
0°-90°	2046.0	25.0	22.7
90°-120°	1696.1	20.7	18.8
90°-150°	4796.7	58.5	53.3
90°-180°	6147.0	75.0	68.3
0°-180°	8193.0	100.0	91.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	618	618	618	618	618	
5°	599	619	646	619	599	58
15°	699	585	605	585	699	200
25°	855	523	242	523	855	399
35°	1020	447	221	447	1020	645
45°	1086	354	186	354	1086	835
55°	976	255	66	255	976	877
65°	780	164	7	164	780	757
75°	298	91	4	91	298	336
85°	160	26	0	26	160	140
90°	124	2	0	2	124	82
95°	293	91	41	91	293	293
105°	869	381	354	381	869	920
115°	1425	684	734	684	1425	1403
125°	1728	954	924	954	1728	1543
135°	1933	1176	1111	1176	1933	1490
145°	2020	1362	1306	1362	2020	1262
155°	1934	1498	1414	1498	1934	896
165°	1824	1582	1476	1582	1824	517
175°	1676	1626	1553	1626	1676	162
180°	1618	1618	1618	1618	1618	



TEST NUMBER: 19094
 CATALOG NUMBER: AW-WB-2T5

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2	618.2
2.5°	603.3	601.8	613.8	613.8	620.6	628.3	631.6	624.4	626.8	624.4	631.6
5°	599.4	599.4	607.5	605.7	619.1	639.5	644.3	639.5	645.9	639.5	644.3
7.5°	608.1	605.1	601.8	601.8	614.7	651.6	652.5	654.0	659.7	654.0	652.5
10°	634.0	624.4	600.9	602.6	606.9	660.4	662.1	668.5	674.2	668.5	662.1
12.5°	658.8	649.2	608.1	609.9	598.6	666.9	666.9	681.4	683.0	681.4	666.9
15°	699.0	677.3	619.5	620.2	585.3	670.0	670.0	679.7	605.1	679.7	670.0
17.5°	731.2	708.0	628.3	630.7	573.6	668.5	662.1	598.5	507.0	598.5	662.1
20°	781.0	744.8	644.3	644.3	557.2	640.4	601.8	502.8	411.3	502.8	601.8
22.5°	817.3	771.4	659.7	656.4	540.7	566.4	522.1	412.2	322.0	412.2	522.1
25°	855.0	800.4	675.7	670.9	523.0	488.5	445.1	331.6	241.7	331.6	445.1
27.5°	896.0	827.6	687.8	681.4	502.8	416.1	367.0	252.9	207.0	252.9	367.0
30°	935.3	854.1	694.1	689.3	486.0	351.8	314.7	211.8	211.8	211.8	314.7
32.5°	979.6	884.0	699.0	691.1	465.2	295.4	259.4	213.6	217.5	213.6	259.4
35°	1019.8	912.9	703.1	694.1	446.6	245.0	219.1	219.1	220.8	219.1	219.1
37.5°	1073.6	945.0	708.6	695.9	422.5	216.6	212.7	219.9	223.9	219.9	212.7
40°	1110.6	974.8	710.4	696.6	402.1	212.7	211.8	219.9	228.1	219.9	211.8
42.5°	1104.1	982.7	711.9	695.0	378.4	210.3	207.0	221.5	219.1	221.5	207.0
45°	1085.6	959.5	713.5	694.1	354.2	205.5	201.5	216.6	185.5	216.6	201.5
47.5°	1059.1	925.7	715.2	691.7	331.0	197.6	191.9	187.9	152.4	187.9	191.9
50°	1030.1	887.9	710.4	684.5	304.3	187.0	176.5	154.8	118.8	154.8	176.5
52.5°	1004.4	854.1	683.8	654.0	283.0	171.7	158.1	126.0	96.2	126.0	158.1
55°	975.5	815.5	641.9	611.4	254.9	147.5	128.4	100.1	66.3	100.1	128.4
57.5°	950.7	780.2	601.8	565.6	229.9	121.8	105.8	73.6	45.5	73.6	105.8
60°	938.6	744.0	552.0	518.2	204.7	97.1	80.8	51.2	22.2	51.2	80.8
62.5°	906.3	736.1	507.0	474.1	187.0	71.2	60.0	30.3	6.9	30.3	60.0
65°	780.2	644.3	465.1	430.6	164.4	53.6	40.7	13.4	6.9	13.4	40.7
67.5°	647.6	538.3	425.8	398.3	144.8	34.3	24.6	6.9	6.2	6.9	24.6
70°	516.6	439.4	397.7	363.0	125.6	20.7	14.1	6.9	6.2	6.9	14.1
72.5°	383.9	331.0	329.2	291.5	105.8	10.2	7.7	6.9	3.8	6.9	7.7
75°	297.8	258.6	263.4	232.0	90.6	6.9	5.3	5.3	3.8	5.3	5.3
77.5°	231.1	206.3	207.9	185.5	73.7	5.3	5.3	4.4	2.9	4.4	5.3
80°	206.3	183.7	176.5	158.9	58.0	4.4	2.9	2.9	1.4	2.9	2.9
82.5°	180.7	162.0	151.7	138.7	42.4	3.8	2.0	2.9	1.4	2.9	2.0
85°	160.5	142.0	134.8	121.2	25.8	2.0	0.5	2.0	0.5	2.0	0.5
87.5°	140.3	125.1	114.6	102.5	5.8	0.5	0.5	0.5	0.5	0.5	0.5
90°	124.3	137.2	98.6	124.3	1.7	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	206.3	158.1	188.6	103.4	31.0	35.2	16.5	24.6	11.0	24.6	16.5
95°	293.0	259.4	277.9	190.3	91.3	109.1	48.8	50.3	40.7	50.3	48.8
97.5°	405.6	355.8	404.0	310.8	158.1	203.9	124.3	124.3	71.2	124.3	124.3
100°	547.1	490.9	547.1	442.7	231.2	303.5	219.1	275.5	154.1	275.5	219.1
102.5°	706.2	560.1	702.3	498.8	305.6	331.0	324.4	327.7	247.4	327.7	324.4
105°	868.6	808.3	850.2	648.3	381.1	388.7	421.8	435.4	354.2	435.4	421.8
107.5°	1040.6	970.6	975.5	744.0	458.7	450.6	497.3	540.8	465.1	540.8	497.3
110°	1198.2	1128.2	1072.9	842.1	535.1	516.6	563.1	625.9	573.7	625.9	563.1



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 CATALOG NUMBER: AW-WB-2T5

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	1330.7	1253.7	1162.0	932.9	609.4	579.2	622.0	695.9	660.4	695.9	622.0
115°	1424.9	1347.0	1248.0	1022.9	684.2	650.7	666.9	749.7	734.3	749.7	666.9
117.5°	1511.8	1438.5	1325.3	1112.2	756.5	716.8	719.8	803.4	795.5	803.4	719.8
120°	1594.5	1520.6	1404.7	1191.0	825.3	781.0	768.1	840.5	848.6	840.5	768.1
122.5°	1666.7	1597.6	1478.6	1260.1	891.5	874.3	822.1	912.9	881.5	912.9	822.1
125°	1727.9	1626.5	1551.1	1286.6	954.3	903.3	878.3	935.3	924.1	935.3	878.3
127.5°	1779.3	1714.3	1618.6	1358.2	1013.3	959.5	938.6	981.2	972.4	981.2	938.6
130°	1835.7	1778.6	1677.2	1396.8	1069.9	1012.6	998.9	1029.5	1016.5	1029.5	998.9
132.5°	1883.9	1829.1	1729.5	1431.2	1123.5	1067.2	1060.8	1081.7	1062.4	1081.7	1060.8
135°	1932.9	1883.1	1771.4	1466.6	1176.5	1116.1	1112.2	1133.0	1111.3	1133.0	1112.2
137.5°	1973.0	1920.8	1798.6	1493.1	1226.3	1161.1	1152.3	1187.7	1162.0	1187.7	1152.3
140°	1998.1	1953.1	1813.9	1526.0	1274.1	1202.2	1194.9	1236.8	1215.1	1236.8	1194.9
142.5°	2015.0	1971.5	1813.9	1554.4	1318.3	1241.6	1233.5	1273.0	1268.9	1273.0	1233.5
145°	2019.8	1986.6	1816.4	1583.3	1361.8	1296.3	1272.2	1322.0	1305.9	1322.0	1272.2
147.5°	2010.8	1986.0	1814.6	1595.2	1400.7	1313.2	1305.9	1335.6	1334.9	1335.6	1305.9
150°	1983.6	1959.4	1809.1	1630.7	1435.7	1347.6	1338.0	1364.5	1363.0	1364.5	1338.0
152.5°	1960.1	1939.2	1801.9	1650.0	1467.5	1379.9	1364.5	1392.0	1389.6	1392.0	1364.5
155°	1934.4	1919.3	1793.8	1663.6	1497.6	1409.5	1386.3	1417.6	1414.3	1417.6	1386.3
157.5°	1904.8	1894.3	1786.5	1673.3	1523.7	1436.1	1405.6	1440.2	1438.5	1440.2	1405.6
160°	1872.5	1870.1	1782.6	1678.8	1546.2	1461.7	1422.5	1456.3	1456.9	1456.3	1422.5
162.5°	1844.4	1842.0	1772.9	1682.9	1565.9	1485.2	1443.3	1468.3	1469.0	1468.3	1443.3
165°	1823.6	1821.8	1752.7	1682.1	1582.0	1508.5	1465.9	1482.8	1476.2	1482.8	1465.9
167.5°	1793.8	1795.5	1731.2	1678.8	1595.7	1544.7	1487.6	1514.2	1490.1	1514.2	1487.6
170°	1755.1	1781.0	1708.6	1675.7	1607.8	1554.4	1511.8	1522.1	1510.9	1522.1	1511.8
172.5°	1716.7	1728.8	1681.2	1660.3	1617.8	1576.7	1536.6	1544.7	1530.2	1544.7	1536.6
175°	1675.7	1691.7	1654.9	1648.3	1626.2	1595.2	1561.6	1568.8	1552.6	1568.8	1561.6
177.5°	1636.2	1654.9	1628.3	1637.1	1629.8	1612.9	1582.4	1593.6	1576.1	1593.6	1582.4
180°	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2



TEST NUMBER: 19094
 CATALOG NUMBER: AW-WB-2T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	618.2	618.2	618.2	618.2	618.2	618.2
2.5°	628.3	620.6	613.8	613.8	601.8	603.3
5°	639.5	619.1	605.7	607.5	599.4	599.4
7.5°	651.6	614.7	601.8	601.8	605.1	608.1
10°	660.4	606.9	602.6	600.9	624.4	634.0
12.5°	666.9	598.6	609.9	608.1	649.2	658.8
15°	670.0	585.3	620.2	619.5	677.3	699.0
17.5°	668.5	573.6	630.7	628.3	708.0	731.2
20°	640.4	557.2	644.3	644.3	744.8	781.0
22.5°	566.4	540.7	656.4	659.7	771.4	817.3
25°	488.5	523.0	670.9	675.7	800.4	855.0
27.5°	416.1	502.8	681.4	687.8	827.6	896.0
30°	351.8	486.0	689.3	694.1	854.1	935.3
32.5°	295.4	465.2	691.1	699.0	884.0	979.6
35°	245.0	446.6	694.1	703.1	912.9	1019.8
37.5°	216.6	422.5	695.9	708.6	945.0	1073.6
40°	212.7	402.1	696.6	710.4	974.8	1110.6
42.5°	210.3	378.4	695.0	711.9	982.7	1104.1
45°	205.5	354.2	694.1	713.5	959.5	1085.6
47.5°	197.6	331.0	691.7	715.2	925.7	1059.1
50°	187.0	304.3	684.5	710.4	887.9	1030.1
52.5°	171.7	283.0	654.0	683.8	854.1	1004.4
55°	147.5	254.9	611.4	641.9	815.5	975.5
57.5°	121.8	229.9	565.6	601.8	780.2	950.7
60°	97.1	204.7	518.2	552.0	744.0	938.6
62.5°	71.2	187.0	474.1	507.0	736.1	906.3
65°	53.6	164.4	430.6	465.1	644.3	780.2
67.5°	34.3	144.8	398.3	425.8	538.3	647.6
70°	20.7	125.6	363.0	397.7	439.4	516.6
72.5°	10.2	105.8	291.5	329.2	331.0	383.9
75°	6.9	90.6	232.0	263.4	258.6	297.8
77.5°	5.3	73.7	185.5	207.9	206.3	231.1
80°	4.4	58.0	158.9	176.5	183.7	206.3
82.5°	3.8	42.4	138.7	151.7	162.0	180.7
85°	2.0	25.8	121.2	134.8	142.0	160.5
87.5°	0.5	5.8	102.5	114.6	125.1	140.3
90°	0.5	1.7	124.3	98.6	137.2	124.3
92.5°	35.2	31.0	103.4	188.6	158.1	206.3
95°	109.1	91.3	190.3	277.9	259.4	293.0
97.5°	203.9	158.1	310.8	404.0	355.8	405.6
100°	303.5	231.2	442.7	547.1	490.9	547.1
102.5°	331.0	305.6	498.8	702.3	560.1	706.2
105°	388.7	381.1	648.3	850.2	808.3	868.6
107.5°	450.6	458.7	744.0	975.5	970.6	1040.6
110°	516.6	535.1	842.1	1072.9	1128.2	1198.2



TEST NUMBER: 19094
 CATALOG NUMBER: AW-WB-2T5

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	579.2	609.4	932.9	1162.0	1253.7	1330.7
115°	650.7	684.2	1022.9	1248.0	1347.0	1424.9
117.5°	716.8	756.5	1112.2	1325.3	1438.5	1511.8
120°	781.0	825.3	1191.0	1404.7	1520.6	1594.5
122.5°	874.3	891.5	1260.1	1478.6	1597.6	1666.7
125°	903.3	954.3	1286.6	1551.1	1626.5	1727.9
127.5°	959.5	1013.3	1358.2	1618.6	1714.3	1779.3
130°	1012.6	1069.9	1396.8	1677.2	1778.6	1835.7
132.5°	1067.2	1123.5	1431.2	1729.5	1829.1	1883.9
135°	1116.1	1176.5	1466.6	1771.4	1883.1	1932.9
137.5°	1161.1	1226.3	1493.1	1798.6	1920.8	1973.0
140°	1202.2	1274.1	1526.0	1813.9	1953.1	1998.1
142.5°	1241.6	1318.3	1554.4	1813.9	1971.5	2015.0
145°	1296.3	1361.8	1583.3	1816.4	1986.6	2019.8
147.5°	1313.2	1400.7	1595.2	1814.6	1986.0	2010.8
150°	1347.6	1435.7	1630.7	1809.1	1959.4	1983.6
152.5°	1379.9	1467.5	1650.0	1801.9	1939.2	1960.1
155°	1409.5	1497.6	1663.6	1793.8	1919.3	1934.4
157.5°	1436.1	1523.7	1673.3	1786.5	1894.3	1904.8
160°	1461.7	1546.2	1678.8	1782.6	1870.1	1872.5
162.5°	1485.2	1565.9	1682.9	1772.9	1842.0	1844.4
165°	1508.5	1582.0	1682.1	1752.7	1821.8	1823.6
167.5°	1544.7	1595.7	1678.8	1731.2	1795.5	1793.8
170°	1554.4	1607.8	1675.7	1708.6	1781.0	1755.1
172.5°	1576.7	1617.8	1660.3	1681.2	1728.8	1716.7
175°	1595.2	1626.2	1648.3	1654.9	1691.7	1675.7
177.5°	1612.9	1629.8	1637.1	1628.3	1654.9	1636.2
180°	1618.2	1618.2	1618.2	1618.2	1618.2	1618.2

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