

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: 19100

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 19100
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: AW-WB-2T5-ALL
Description: CLASS A DIRECT/INDIRECT WALL LUMINAIRE WITH WHITE INTERIOR AND WHITE
18 CELL PERF BAFFLE WITH WHITE LAMP ISOLATOR
Light Source: TWO SYLVANIA 54 WATT T5 LAMPS

FP54/841HO. LUMEN RATING = 4500 LMS.

Ballast/Driver: -

Summary

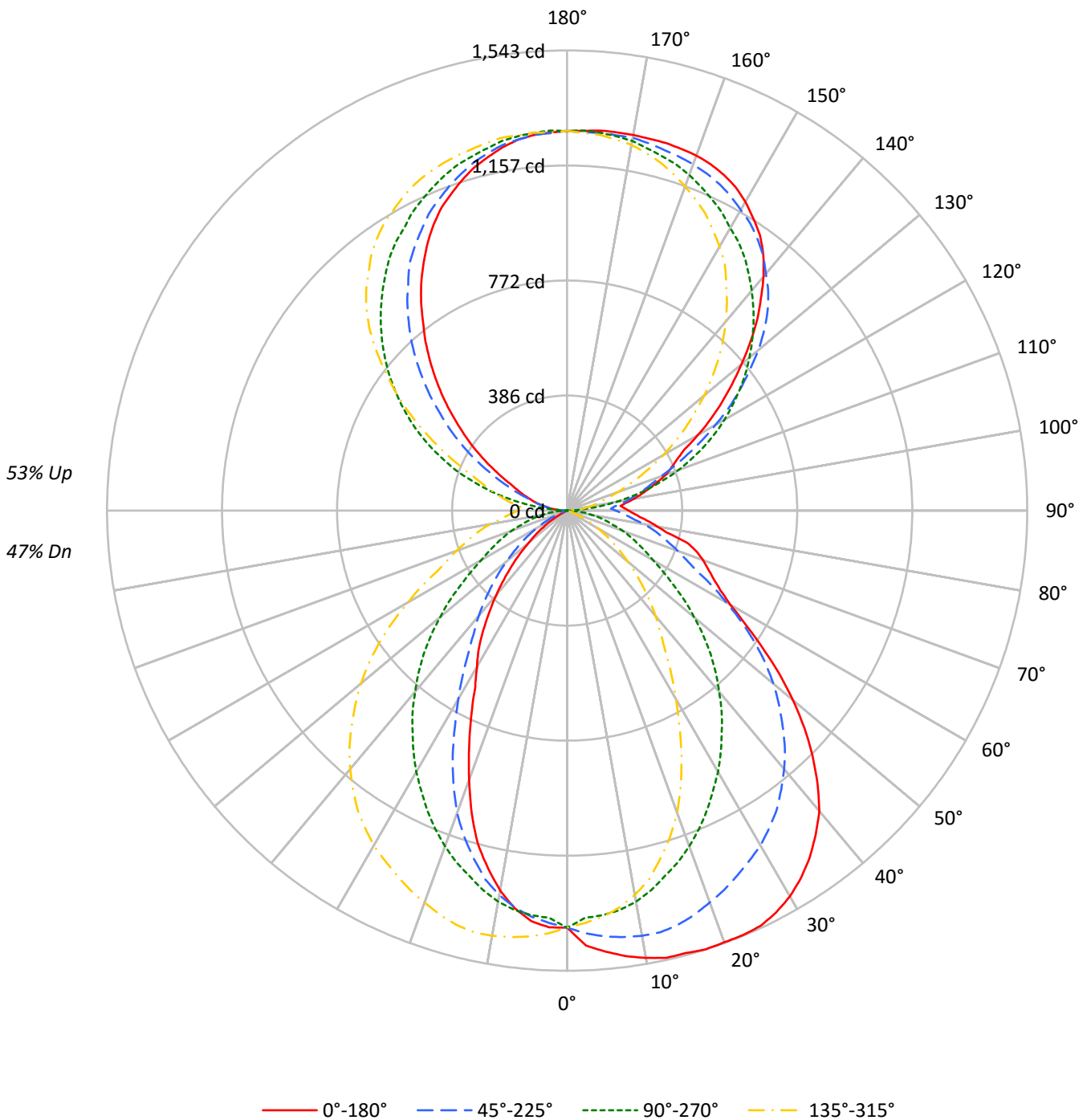
Lumens per Lamp: 4500 (2 lamps)
Luminaire Lumens: 6623.3 lumens
Efficiency: 73.6%
Efficacy: 51.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.1 / 1.21
Luminous Opening: Rectangular w/ Sides (W: 0.19' x L: 3' x H: 0.09')
CIE Type: General Diffuse

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: 19100
CATALOG NUMBER: AW-WB-2T5-ALL

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	78	78	78	78	72	72	72	72	60	60	60	49	49	49	39	39	39	34
1	71	68	65	63	65	63	60	58	53	51	49	43	42	41	35	34	33	29
2	65	60	55	52	60	55	51	48	46	43	41	38	36	34	31	29	28	25
3	60	53	47	43	55	49	44	40	41	38	35	34	31	29	27	26	24	21
4	55	47	41	37	50	43	38	34	37	33	30	30	28	25	25	23	21	18
5	50	42	36	32	46	39	34	30	33	29	26	27	25	22	22	20	19	16
6	46	38	32	28	43	35	30	26	30	26	23	25	22	20	20	18	16	14
7	43	34	28	24	39	32	27	23	27	23	20	23	20	17	19	16	15	13
8	40	31	25	22	37	29	24	20	25	21	18	21	18	16	17	15	13	12
9	37	28	23	19	34	26	22	18	23	19	16	19	16	14	16	14	12	10
10	35	26	21	17	32	24	20	16	21	17	15	18	15	13	15	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	26404	26404	26404	26404
5°	28069	24793	26125	24793
10°	29056	23562	24677	23562
15°	29790	21998	22437	21998
20°	30625	20523	19112	20523
25°	31563	18925	15629	18925
30°	32021	17320	12955	17320
35°	32028	15644	11055	15644
40°	31637	13981	8885	13981
45°	30188	12325	6796	12325
50°	28027	10429	4728	10429
55°	25171	8535	3113	8535
60°	22658	6904	1433	6904
65°	22713	5788	134	5788
70°	24704	4767	26	4767
75°	27309	3627	33	3627
80°	28448	2475	46	2475
85°	39481	1334	81	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	132.5	2.0	1.5
10°-20°	369.0	5.6	4.1
20°-30°	518.0	7.8	5.8
30°-40°	573.0	8.7	6.4
40°-50°	533.8	8.1	5.9
50°-60°	414.9	6.3	4.6
60°-70°	275.3	4.2	3.1
70°-80°	179.2	2.7	2.0
80°-90°	104.5	1.6	1.2
90°-100°	104.6	1.6	1.2
100°-110°	224.4	3.4	2.5
110°-120°	380.9	5.8	4.2
120°-130°	542.0	8.2	6.0
130°-140°	637.7	9.6	7.1
140°-150°	634.8	9.6	7.1
150°-160°	530.3	8.0	5.9
160°-170°	347.9	5.3	3.9
170°-180°	120.7	1.8	1.3
0°-30°	1019.4	15.4	11.3
0°-40°	1592.4	24.0	17.7
0°-60°	2541.0	38.4	28.2
0°-90°	3100.0	46.8	34.4
90°-120°	709.9	10.7	7.9
90°-150°	2524.4	38.1	28.0
90°-180°	3523.0	53.2	39.1
0°-180°	6623.3	100.0	73.6

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1398	1398	1398	1398	1398	
5°	1485	1362	1382	1362	1485	143
15°	1536	1268	1157	1268	1536	436
25°	1536	1109	761	1109	1536	707
35°	1418	904	490	904	1418	885
45°	1164	680	262	680	1164	894
55°	797	435	99	435	797	717
65°	541	261	3	261	541	543
75°	416	138	0	138	416	425
85°	245	40	0	40	245	213
90°	206	0	0	0	206	113
95°	179	58	34	58	179	160
105°	284	281	113	281	284	302
115°	406	505	208	505	406	411
125°	634	706	399	706	634	567
135°	900	884	622	884	900	692
145°	1128	1037	854	1037	1128	702
155°	1242	1151	1059	1151	1242	572
165°	1276	1230	1194	1230	1276	361
175°	1279	1272	1264	1272	1279	122
180°	1273	1273	1273	1273	1273	



TEST NUMBER: 19100

CATALOG NUMBER: AW-WB-2T5-ALL

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2
2.5°	1459.9	1430.5	1418.5	1393.8	1367.1	1376.5	1383.8	1386.5	1398.5	1386.5	1383.8
5°	1484.6	1455.2	1433.2	1401.2	1362.1	1367.1	1367.1	1354.5	1381.8	1354.5	1367.1
7.5°	1506.6	1474.6	1442.5	1396.5	1351.1	1347.1	1342.4	1323.1	1345.1	1323.1	1342.4
10°	1523.3	1493.9	1447.9	1389.2	1331.4	1325.1	1308.4	1269.0	1293.7	1269.0	1308.4
12.5°	1536.0	1503.9	1447.9	1376.5	1303.4	1293.7	1267.0	1210.3	1227.7	1210.3	1267.0
15°	1536.0	1506.6	1437.9	1352.4	1268.0	1247.0	1208.3	1139.6	1156.9	1139.6	1208.3
17.5°	1542.6	1503.9	1420.5	1330.4	1236.3	1201.0	1146.9	1051.5	1064.2	1051.5	1146.9
20°	1540.6	1499.3	1398.5	1303.7	1197.3	1146.9	1078.9	954.1	961.4	954.1	1078.9
22.5°	1540.6	1493.9	1376.5	1269.0	1155.3	1086.2	995.4	856.0	858.6	856.0	995.4
25°	1536.0	1481.9	1349.8	1232.3	1108.9	1017.5	907.4	753.2	760.6	753.2	907.4
27.5°	1518.6	1467.2	1323.1	1198.3	1059.2	954.1	814.6	663.1	667.8	663.1	814.6
30°	1493.9	1445.2	1296.4	1158.9	1011.5	890.0	729.2	592.4	604.4	592.4	729.2
32.5°	1459.9	1413.2	1261.7	1114.9	958.7	821.9	650.4	543.0	553.0	543.0	650.4
35°	1418.5	1379.1	1225.0	1073.5	903.7	751.2	572.4	487.0	489.6	487.0	572.4
37.5°	1369.1	1330.4	1179.0	1020.1	851.3	672.5	511.7	426.2	428.2	426.2	511.7
40°	1315.7	1281.7	1132.2	976.1	792.6	604.4	462.3	369.5	369.5	369.5	462.3
42.5°	1242.3	1217.7	1080.9	932.0	737.5	538.3	408.9	313.5	313.5	313.5	408.9
45°	1164.3	1149.6	1022.1	878.0	680.1	477.0	357.5	266.8	262.1	266.8	357.5
47.5°	1078.9	1073.5	963.4	824.6	619.1	418.9	310.8	218.0	215.4	218.0	310.8
50°	988.1	990.8	902.7	773.2	555.4	360.2	264.8	174.0	166.7	174.0	264.8
52.5°	895.3	910.0	836.6	723.9	498.0	316.1	222.7	140.0	135.3	140.0	222.7
55°	797.3	824.6	765.9	663.1	434.6	266.8	186.7	103.3	98.6	103.3	186.7
57.5°	707.2	745.9	692.5	614.4	381.9	232.7	152.0	76.6	69.2	76.6	152.0
60°	631.1	650.4	616.4	548.4	332.8	198.7	120.6	47.2	39.9	47.2	120.6
62.5°	579.7	589.7	550.4	491.6	295.1	166.7	88.6	25.2	12.5	25.2	88.6
65°	541.0	531.0	479.6	428.2	261.1	137.3	61.9	5.2	3.2	5.2	61.9
67.5°	511.7	491.6	432.9	374.9	229.1	110.6	37.2	3.2	0.5	3.2	37.2
70°	484.3	462.3	394.2	325.5	198.7	83.9	17.8	0.5	0.5	0.5	17.8
72.5°	454.9	428.2	357.5	286.8	163.3	59.2	7.8	0.5	0.5	0.5	7.8
75°	416.2	401.5	325.5	252.1	137.6	34.5	3.2	0.5	0.5	0.5	3.2
77.5°	342.8	360.2	294.1	220.7	112.9	10.5	0.5	0.5	0.5	0.5	0.5
80°	306.1	308.8	262.1	196.0	83.9	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	274.1	276.8	225.4	169.3	62.9	0.5	0.5	0.5	0.5	0.5	0.5
85°	244.7	254.7	203.4	140.0	39.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	222.7	228.0	181.3	115.3	11.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	206.0	200.7	162.7	90.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	191.3	176.7	147.3	93.3	12.8	3.2	17.8	12.5	19.9	12.5	17.8
95°	179.3	179.3	159.3	117.9	57.9	22.5	32.5	27.2	34.5	27.2	32.5
97.5°	198.7	208.0	184.0	154.6	111.9	41.9	54.6	44.5	54.6	44.5	54.6
100°	228.0	250.1	210.7	203.4	164.7	69.2	73.9	66.6	69.2	66.6	73.9
102.5°	254.7	264.8	235.4	232.7	222.7	76.6	95.9	73.9	91.3	73.9	95.9
105°	284.1	291.4	266.8	286.8	281.4	135.3	115.3	105.9	113.3	105.9	115.3
107.5°	316.1	325.5	296.1	350.2	337.8	188.7	142.6	125.3	132.6	125.3	142.6
110°	352.8	354.8	335.5	413.6	397.9	240.1	179.3	150.0	157.3	150.0	179.3



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CATALOG NUMBER: AW-WB-2T5-ALL

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	379.5	379.5	386.9	479.6	450.3	294.1	218.0	174.0	179.3	174.0	218.0
115°	406.2	426.2	445.6	543.0	505.3	350.2	266.8	203.4	208.0	203.4	266.8
117.5°	442.9	484.3	509.0	604.4	558.0	411.6	316.1	250.1	250.1	250.1	316.1
120°	506.3	545.7	575.0	663.1	609.1	472.3	372.2	298.8	296.1	298.8	372.2
122.5°	570.4	643.8	643.8	743.9	657.8	531.0	428.2	350.2	345.5	350.2	428.2
125°	633.8	677.8	707.2	765.9	705.8	560.4	484.3	374.9	398.9	374.9	484.3
127.5°	697.2	741.2	770.6	817.3	753.2	648.4	538.3	462.3	450.3	462.3	538.3
130°	763.2	807.3	836.6	861.3	797.6	704.5	599.7	509.0	506.3	509.0	599.7
132.5°	832.0	878.0	897.4	902.7	841.3	753.2	657.8	565.0	565.0	565.0	657.8
135°	900.0	936.7	951.4	944.1	884.0	804.6	716.5	626.4	621.8	626.4	716.5
137.5°	961.4	1002.8	998.1	983.4	924.4	851.3	773.2	682.5	679.8	682.5	773.2
140°	1024.8	1056.8	1036.8	1020.1	962.4	897.4	826.6	743.9	738.5	743.9	826.6
142.5°	1080.9	1100.2	1078.9	1054.2	1000.4	939.4	880.7	802.6	792.6	802.6	880.7
145°	1127.6	1156.9	1112.9	1098.2	1037.1	985.4	929.4	858.6	854.0	858.6	929.4
147.5°	1161.6	1171.6	1142.2	1110.2	1068.8	1005.5	983.4	882.7	910.0	882.7	983.4
150°	1195.6	1203.0	1164.3	1134.9	1093.2	1058.8	1022.1	966.1	961.4	966.1	1022.1
152.5°	1223.0	1220.3	1188.3	1158.9	1125.9	1093.5	1058.8	1014.8	1012.8	1014.8	1058.8
155°	1242.3	1239.7	1208.3	1181.0	1150.6	1127.6	1098.2	1064.2	1058.8	1064.2	1098.2
157.5°	1257.0	1252.4	1223.0	1201.0	1174.9	1156.9	1127.6	1098.2	1100.2	1098.2	1127.6
160°	1267.0	1261.7	1235.0	1217.7	1197.0	1179.0	1156.9	1132.2	1132.2	1132.2	1156.9
162.5°	1271.7	1269.0	1245.0	1235.0	1216.7	1201.0	1183.6	1166.3	1164.3	1166.3	1183.6
165°	1276.4	1271.7	1252.4	1249.7	1230.0	1220.3	1208.3	1188.3	1193.6	1188.3	1208.3
167.5°	1276.4	1274.4	1261.7	1261.7	1243.7	1237.7	1227.7	1213.0	1215.7	1213.0	1227.7
170°	1279.0	1276.4	1269.0	1267.0	1258.4	1242.3	1245.0	1225.0	1237.7	1225.0	1245.0
172.5°	1279.0	1274.4	1269.0	1269.0	1265.7	1259.7	1254.4	1249.7	1254.4	1249.7	1254.4
175°	1279.0	1274.4	1271.7	1271.7	1271.7	1269.0	1264.4	1261.7	1264.4	1261.7	1264.4
177.5°	1274.4	1271.7	1269.0	1274.4	1275.4	1271.7	1267.0	1269.0	1269.0	1269.0	1267.0
180°	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1398.2	1398.2	1398.2	1398.2	1398.2	1398.2
2.5°	1376.5	1367.1	1393.8	1418.5	1430.5	1459.9
5°	1367.1	1362.1	1401.2	1433.2	1455.2	1484.6
7.5°	1347.1	1351.1	1396.5	1442.5	1474.6	1506.6
10°	1325.1	1331.4	1389.2	1447.9	1493.9	1523.3
12.5°	1293.7	1303.4	1376.5	1447.9	1503.9	1536.0
15°	1247.0	1268.0	1352.4	1437.9	1506.6	1536.0
17.5°	1201.0	1236.3	1330.4	1420.5	1503.9	1542.6
20°	1146.9	1197.3	1303.7	1398.5	1499.3	1540.6
22.5°	1086.2	1155.3	1269.0	1376.5	1493.9	1540.6
25°	1017.5	1108.9	1232.3	1349.8	1481.9	1536.0
27.5°	954.1	1059.2	1198.3	1323.1	1467.2	1518.6
30°	890.0	1011.5	1158.9	1296.4	1445.2	1493.9
32.5°	821.9	958.7	1114.9	1261.7	1413.2	1459.9
35°	751.2	903.7	1073.5	1225.0	1379.1	1418.5
37.5°	672.5	851.3	1020.1	1179.0	1330.4	1369.1
40°	604.4	792.6	976.1	1132.2	1281.7	1315.7
42.5°	538.3	737.5	932.0	1080.9	1217.7	1242.3
45°	477.0	680.1	878.0	1022.1	1149.6	1164.3
47.5°	418.9	619.1	824.6	963.4	1073.5	1078.9
50°	360.2	555.4	773.2	902.7	990.8	988.1
52.5°	316.1	498.0	723.9	836.6	910.0	895.3
55°	266.8	434.6	663.1	765.9	824.6	797.3
57.5°	232.7	381.9	614.4	692.5	745.9	707.2
60°	198.7	332.8	548.4	616.4	650.4	631.1
62.5°	166.7	295.1	491.6	550.4	589.7	579.7
65°	137.3	261.1	428.2	479.6	531.0	541.0
67.5°	110.6	229.1	374.9	432.9	491.6	511.7
70°	83.9	198.7	325.5	394.2	462.3	484.3
72.5°	59.2	163.3	286.8	357.5	428.2	454.9
75°	34.5	137.6	252.1	325.5	401.5	416.2
77.5°	10.5	112.9	220.7	294.1	360.2	342.8
80°	0.5	83.9	196.0	262.1	308.8	306.1
82.5°	0.5	62.9	169.3	225.4	276.8	274.1
85°	0.5	39.5	140.0	203.4	254.7	244.7
87.5°	0.5	11.5	115.3	181.3	228.0	222.7
90°	0.5	0.5	90.6	162.7	200.7	206.0
92.5°	3.2	12.8	93.3	147.3	176.7	191.3
95°	22.5	57.9	117.9	159.3	179.3	179.3
97.5°	41.9	111.9	154.6	184.0	208.0	198.7
100°	69.2	164.7	203.4	210.7	250.1	228.0
102.5°	76.6	222.7	232.7	235.4	264.8	254.7
105°	135.3	281.4	286.8	266.8	291.4	284.1
107.5°	188.7	337.8	350.2	296.1	325.5	316.1
110°	240.1	397.9	413.6	335.5	354.8	352.8



TEST NUMBER: 19100

CATALOG NUMBER: AW-WB-2T5-ALL

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	294.1	450.3	479.6	386.9	379.5	379.5
115°	350.2	505.3	543.0	445.6	426.2	406.2
117.5°	411.6	558.0	604.4	509.0	484.3	442.9
120°	472.3	609.1	663.1	575.0	545.7	506.3
122.5°	531.0	657.8	743.9	643.8	643.8	570.4
125°	560.4	705.8	765.9	707.2	677.8	633.8
127.5°	648.4	753.2	817.3	770.6	741.2	697.2
130°	704.5	797.6	861.3	836.6	807.3	763.2
132.5°	753.2	841.3	902.7	897.4	878.0	832.0
135°	804.6	884.0	944.1	951.4	936.7	900.0
137.5°	851.3	924.4	983.4	998.1	1002.8	961.4
140°	897.4	962.4	1020.1	1036.8	1056.8	1024.8
142.5°	939.4	1000.4	1054.2	1078.9	1100.2	1080.9
145°	985.4	1037.1	1098.2	1112.9	1156.9	1127.6
147.5°	1005.5	1068.8	1110.2	1142.2	1171.6	1161.6
150°	1058.8	1093.2	1134.9	1164.3	1203.0	1195.6
152.5°	1093.5	1125.9	1158.9	1188.3	1220.3	1223.0
155°	1127.6	1150.6	1181.0	1208.3	1239.7	1242.3
157.5°	1156.9	1174.9	1201.0	1223.0	1252.4	1257.0
160°	1179.0	1197.0	1217.7	1235.0	1261.7	1267.0
162.5°	1201.0	1216.7	1235.0	1245.0	1269.0	1271.7
165°	1220.3	1230.0	1249.7	1252.4	1271.7	1276.4
167.5°	1237.7	1243.7	1261.7	1261.7	1274.4	1276.4
170°	1242.3	1258.4	1267.0	1269.0	1276.4	1279.0
172.5°	1259.7	1265.7	1269.0	1269.0	1274.4	1279.0
175°	1269.0	1271.7	1271.7	1271.7	1274.4	1279.0
177.5°	1271.7	1275.4	1274.4	1269.0	1271.7	1274.4
180°	1272.8	1272.8	1272.8	1272.8	1272.8	1272.8

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