

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: METALUX

Report Number: A1707061A001(120V)

Luminaire Tested: **22RTC3440**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: A1707061A001(120V)  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA A1707061A001  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RTC3440  
Description:  
Light Source: -  
Ballast/Driver: -

**Summary**

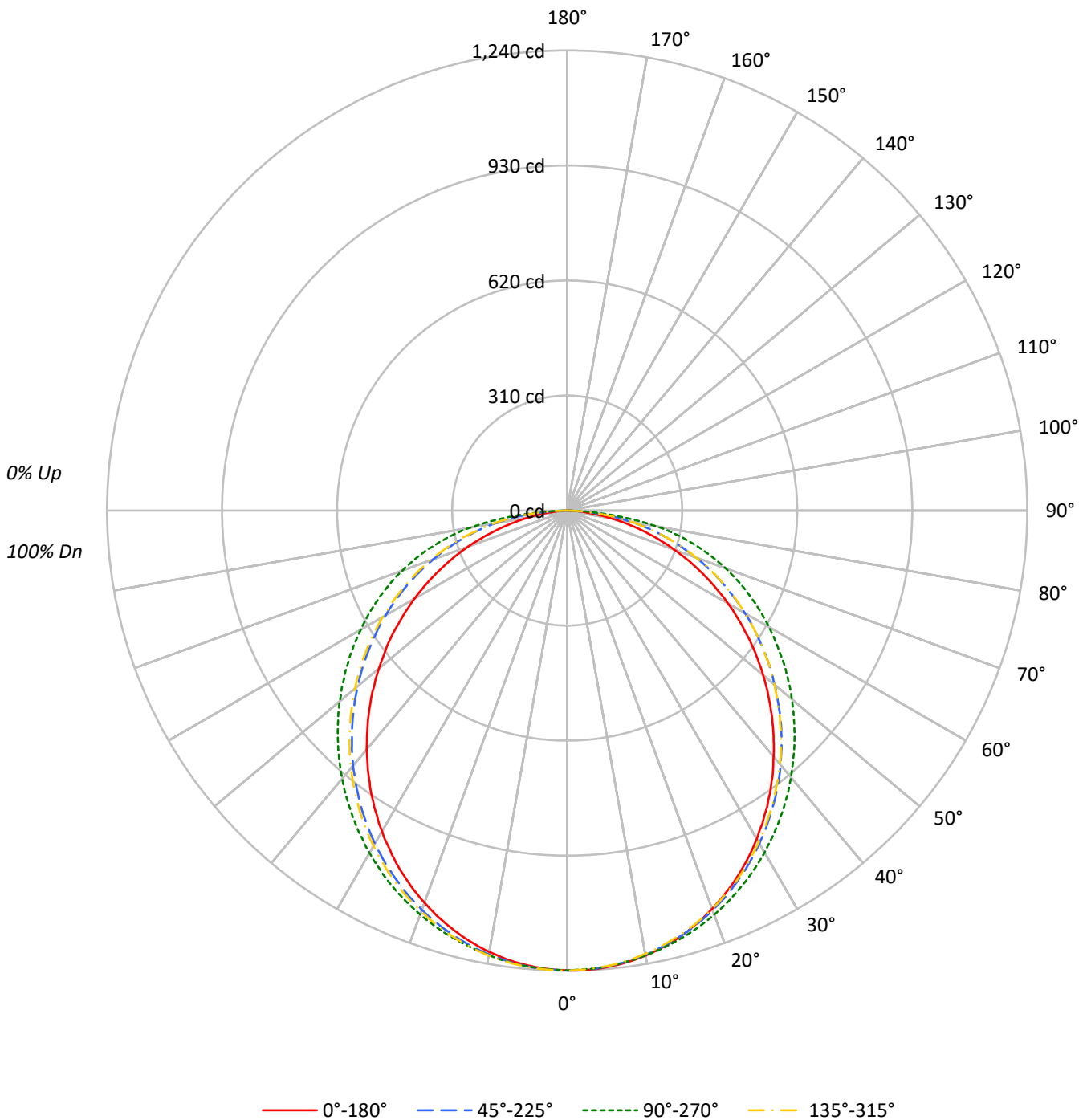
Lumens per Lamp: 3632.079 (1 lamp)  
Luminaire Lumens: 3632.1 lumens  
Efficiency: 100.0%  
Efficacy: 126.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.626  
Input Voltage (V): NR  
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: 25 FT



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### 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	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83																												
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68																												
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57																												
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48																												
5	75	62	53	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42																												
6	69	56	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36																												
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32																												
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29																												
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26																												
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23																												

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

	0°	90°	180°	270°
0°	3983	3983	3983	3983
5°	3985	3979	3968	3978
10°	3974	3972	3943	3972
15°	3946	3968	3900	3965
20°	3907	3963	3846	3962
25°	3855	3955	3782	3958
30°	3793	3950	3702	3952
35°	3715	3939	3622	3952
40°	3632	3936	3525	3958
45°	3543	3940	3424	3972
50°	3447	3954	3308	4002
55°	3343	3987	3199	4046
60°	3213	4039	3053	4131
65°	3070	4134	2886	4260
70°	2886	4266	2670	4443
75°	2629	4435	2332	4677
80°	2217	4513	1875	4920
85°	1608	3751	1195	4389



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	117.1	3.2	3.2	0°	1239	1239	1239	1239	1239	
10°-20°	334.5	9.2	9.2	5°	1235	1233	1230	1233	1235	117
20°-30°	505.0	13.9	13.9	15°	1186	1192	1172	1192	1186	335
30°-40°	607.1	16.7	16.7	25°	1087	1115	1066	1116	1087	501
40°-50°	631.5	17.4	17.4	35°	947	1004	923	1007	947	592
50°-60°	581.1	16.0	16.0	45°	780	867	753	874	780	601
60°-70°	466.4	12.8	12.8	55°	597	712	571	722	597	533
70°-80°	299.3	8.2	8.2	65°	404	544	380	560	404	399
80°-90°	90.0	2.5	2.5	75°	212	357	188	377	212	224
90°-100°	0.0	0.0	0.0	85°	44	102	32	119	44	54
100°-110°	0.0	0.0	0.0	90°	1	0	0	0	1	
110°-120°	0.0	0.0	0.0							
120°-130°	0.0	0.0	0.0							
130°-140°	0.0	0.0	0.0							
140°-150°	0.0	0.0	0.0							
150°-160°	0.0	0.0	0.0							
160°-170°	0.0	0.0	0.0							
170°-180°	0.0	0.0	0.0							
0°-30°	956.7	26.3	26.3							
0°-40°	1563.8	43.1	43.1							
0°-60°	2776.4	76.4	76.4							
0°-90°	3632.1	100.0	100.0							
90°-120°	0.0	0.0	0.0							
90°-150°	0.0	0.0	0.0							
90°-180°	0.0	0.0	0.0							
0°-180°	3632.1	100.0	100.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
0°	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3	1239.3
1°	1239.7	1239.4	1238.8	1238.2	1238.7	1239.3	1238.5	1239.1	1238.9	1238.3	1239.0
2°	1239.3	1238.9	1238.2	1237.6	1237.5	1238.4	1237.4	1237.9	1238.5	1237.6	1238.6
3°	1238.5	1237.6	1236.8	1236.7	1236.2	1236.7	1235.3	1236.8	1237.1	1236.5	1237.6
4°	1237.4	1236.3	1235.3	1235.3	1234.4	1234.9	1233.1	1234.8	1235.4	1235.0	1236.2
5°	1235.1	1233.7	1233.1	1233.2	1232.2	1232.5	1229.9	1232.2	1233.4	1233.0	1234.4
6°	1232.3	1231.4	1230.5	1230.7	1229.2	1229.6	1226.9	1229.4	1230.9	1230.5	1232.1
7°	1229.6	1228.2	1227.5	1228.3	1226.3	1225.8	1222.6	1225.5	1227.9	1227.8	1229.3
8°	1226.3	1224.3	1224.2	1224.8	1222.2	1222.2	1218.4	1221.8	1224.5	1224.6	1226.1
9°	1221.9	1219.9	1219.9	1221.6	1218.3	1217.3	1213.0	1217.3	1220.8	1220.9	1222.7
10°	1217.6	1215.4	1215.6	1217.1	1213.6	1212.3	1208.1	1212.4	1216.6	1217.0	1218.7
11°	1212.7	1210.2	1211.0	1213.4	1208.8	1206.7	1201.6	1206.9	1211.9	1212.5	1214.2
12°	1206.8	1204.3	1205.6	1208.6	1203.6	1201.1	1194.8	1201.0	1206.8	1207.5	1209.4
13°	1200.4	1198.2	1200.2	1203.8	1197.9	1194.3	1187.8	1194.7	1201.4	1202.5	1203.5
14°	1193.6	1191.5	1194.4	1198.3	1191.9	1187.4	1179.9	1187.7	1195.4	1197.2	1198.5
15°	1186.0	1184.4	1187.9	1192.5	1185.6	1180.3	1172.0	1180.5	1189.5	1191.5	1191.8
16°	1179.0	1176.6	1181.5	1186.6	1179.0	1172.4	1163.4	1172.3	1183.1	1185.5	1186.2
17°	1169.8	1168.7	1174.6	1180.2	1171.9	1163.9	1154.3	1164.3	1176.0	1179.4	1179.0
18°	1162.3	1159.7	1167.1	1173.6	1164.5	1154.8	1145.2	1155.2	1167.8	1172.7	1172.4
19°	1151.7	1151.0	1159.2	1166.3	1156.5	1146.0	1134.8	1146.4	1161.3	1165.5	1164.9
20°	1142.2	1141.5	1151.1	1158.7	1148.3	1136.5	1124.5	1136.6	1152.8	1158.3	1156.9
21°	1132.0	1131.7	1141.8	1150.8	1139.6	1126.7	1113.6	1125.5	1145.1	1150.5	1148.8
22°	1121.5	1121.6	1133.4	1142.7	1128.8	1116.3	1102.7	1116.2	1135.6	1142.4	1140.2
23°	1110.5	1111.0	1123.1	1133.7	1119.4	1105.6	1090.8	1104.4	1127.4	1133.9	1131.3
24°	1099.1	1098.4	1114.4	1125.1	1111.3	1094.7	1078.7	1093.1	1117.0	1125.1	1121.9
25°	1087.1	1088.4	1103.3	1115.1	1101.2	1083.3	1066.5	1081.6	1107.0	1116.0	1112.3
26°	1074.8	1075.5	1093.6	1105.9	1090.8	1070.4	1053.9	1069.8	1096.8	1106.7	1102.2
27°	1062.0	1064.5	1081.8	1096.0	1079.9	1059.3	1040.3	1057.8	1086.5	1096.9	1092.0
28°	1049.3	1050.8	1070.8	1085.6	1068.9	1045.7	1025.3	1045.2	1075.6	1085.7	1081.3
29°	1035.7	1039.3	1059.2	1075.0	1056.2	1033.9	1013.1	1032.3	1064.5	1076.4	1070.4
30°	1022.1	1024.9	1047.4	1064.2	1045.4	1019.2	997.4	1019.3	1053.0	1064.8	1059.1
31°	1006.6	1011.4	1035.2	1051.7	1032.1	1005.9	984.0	1005.6	1041.2	1055.0	1047.2
32°	993.2	997.5	1022.9	1041.3	1020.9	992.1	967.9	991.5	1029.1	1042.1	1035.7
33°	977.2	983.1	1009.9	1028.5	1007.2	977.9	954.1	977.8	1016.9	1031.9	1023.4
34°	963.6	968.5	996.9	1017.3	994.0	963.5	937.3	963.5	1004.0	1019.2	1009.8
35°	946.8	953.8	983.6	1003.9	980.9	949.0	923.2	948.9	991.3	1007.1	998.4
36°	932.6	939.1	970.3	992.5	967.6	934.0	905.7	933.9	978.0	994.8	984.1
37°	915.1	923.7	956.5	978.5	953.7	918.7	889.8	917.3	964.8	982.3	972.0
38°	900.5	908.1	942.4	966.5	940.0	903.4	873.3	903.5	951.2	969.6	957.3
39°	882.4	892.2	928.0	951.8	925.5	887.6	856.8	886.5	937.4	956.7	944.9
40°	865.7	876.5	913.3	938.2	911.1	871.6	840.1	872.0	923.2	943.3	929.6
41°	849.0	860.0	897.0	924.1	896.5	858.8	822.9	854.6	909.0	929.8	915.5
42°	831.9	843.8	883.4	910.0	881.5	839.3	805.7	839.8	894.4	916.0	901.1
43°	814.6	827.3	866.9	895.6	866.6	823.0	788.5	822.0	878.4	902.4	886.6
44°	797.2	810.2	852.1	881.2	851.2	806.0	771.1	805.3	864.8	888.2	871.7



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**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
45°	779.5	793.5	835.9	866.7	835.6	787.6	753.3	788.7	848.5	873.8	856.7
46°	761.7	776.1	820.2	851.7	820.1	773.7	735.6	771.7	834.7	859.6	841.6
47°	743.9	757.1	804.4	836.8	804.2	752.0	717.7	754.7	817.7	844.9	826.1
48°	725.8	739.9	788.0	821.6	788.1	736.5	698.1	737.5	803.5	830.2	810.6
49°	707.7	722.1	772.1	806.1	772.1	718.9	681.4	720.2	786.5	815.3	795.1
50°	689.3	704.2	755.5	790.7	754.3	702.8	661.6	702.7	770.5	800.4	779.0
51°	671.0	686.6	739.0	775.1	739.7	683.8	643.5	685.6	754.7	783.7	763.2
52°	652.4	668.8	722.5	759.3	721.6	667.8	624.9	667.6	738.7	769.9	747.2
53°	633.8	650.7	705.7	743.5	706.6	651.6	608.0	650.0	722.3	753.3	731.1
54°	615.2	632.7	688.8	727.5	688.3	630.4	589.4	632.3	706.1	739.1	714.9
55°	596.6	614.2	671.6	711.5	673.1	612.4	570.9	614.3	689.5	722.0	698.3
56°	576.0	596.1	654.6	693.8	654.6	594.3	550.2	596.3	672.8	707.7	681.9
57°	558.8	577.7	637.4	677.5	637.8	576.2	531.6	578.2	656.4	690.6	665.3
58°	538.1	559.4	620.2	661.3	620.4	558.0	512.7	560.3	639.8	675.9	648.6
59°	520.8	541.0	603.0	644.9	603.4	539.8	494.0	542.2	623.1	658.8	630.3
60°	499.8	522.2	585.5	628.3	585.9	521.4	475.0	524.1	606.1	642.6	615.0
61°	482.3	503.7	567.9	611.7	568.6	503.2	456.0	505.8	589.1	626.4	596.4
62°	461.5	485.1	548.8	594.9	551.2	484.7	437.0	485.9	572.0	610.1	580.8
63°	442.2	464.8	532.9	578.0	533.9	466.2	417.9	469.2	553.3	593.7	562.2
64°	423.0	447.7	513.3	560.9	516.0	446.0	398.9	449.3	537.7	577.1	545.0
65°	403.6	427.2	497.1	543.6	498.2	429.2	379.5	432.5	518.7	560.1	527.5
66°	384.4	410.3	477.3	526.1	480.2	410.8	360.3	412.5	501.1	543.1	510.0
67°	365.0	389.8	460.5	508.5	462.2	392.1	341.4	395.7	483.4	526.0	492.1
68°	345.6	372.8	440.6	490.5	443.9	371.8	322.2	375.6	465.4	508.5	474.3
69°	326.3	352.1	422.3	472.3	425.4	354.8	303.3	357.0	447.6	491.0	456.2
70°	307.1	335.0	403.4	453.9	405.0	334.3	284.1	338.4	429.5	472.8	437.9
71°	287.8	314.5	384.4	435.2	387.8	317.4	265.1	320.0	411.2	454.4	419.6
72°	268.5	295.7	365.5	416.1	367.1	296.9	244.5	301.5	392.8	435.9	400.9
73°	249.4	277.1	346.1	396.8	349.5	280.0	225.9	283.0	374.0	417.2	382.0
74°	230.4	258.0	326.8	375.3	328.3	259.7	206.4	264.4	355.4	397.9	363.0
75°	211.7	239.3	307.6	357.1	308.8	241.1	187.8	246.0	336.1	376.6	341.9
76°	193.0	220.7	287.7	334.3	288.9	222.4	171.4	227.7	317.1	356.4	324.1
77°	174.5	202.3	267.7	315.2	268.4	204.1	152.1	208.4	297.7	335.4	302.8
78°	154.8	184.1	247.0	291.9	247.6	185.9	134.6	190.4	278.1	314.1	284.5
79°	138.7	166.2	226.2	271.8	226.5	167.9	117.8	172.7	257.7	291.9	261.7
80°	119.8	148.5	204.3	243.8	203.7	150.2	101.3	155.1	236.9	265.8	242.2
81°	103.7	131.5	180.8	216.1	180.0	131.7	86.3	137.4	213.9	237.9	218.4
82°	87.9	113.6	156.4	188.6	153.4	115.0	71.0	121.3	189.2	206.5	192.3
83°	72.7	97.4	130.5	158.7	129.1	98.3	57.4	104.0	162.8	177.5	163.5
84°	57.6	80.4	106.4	130.8	104.3	80.6	43.8	88.2	134.7	146.2	136.7
85°	43.6	64.5	82.7	101.7	78.8	62.2	32.4	72.0	108.3	119.0	110.0
86°	31.3	53.3	57.6	73.8	54.4	43.8	22.4	52.8	82.7	87.3	83.8
87°	21.7	30.6	37.9	53.1	33.9	27.7	14.2	36.9	57.1	60.0	56.2
88°	13.3	16.8	19.4	26.9	15.7	14.1	7.6	20.8	33.3	34.9	32.5
89°	6.4	5.9	2.7	3.7	0.6	3.2	2.3	8.5	14.7	10.0	11.9



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CATALOG NUMBER: 22RTC3440

**CANDELA DISTRIBUTION (continued):**

	0°	30°	60°	90°	120°	150°	180°	210°	240°	270°	300°
90°	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.1	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	330°	360°
0°	1239.3	1239.3
1°	1239.7	1239.7
2°	1238.9	1239.3
3°	1237.9	1238.5
4°	1236.3	1237.4
5°	1234.3	1235.1
6°	1231.6	1232.3
7°	1228.7	1229.6
8°	1224.9	1226.3
9°	1220.7	1221.9
10°	1216.2	1217.6
11°	1210.9	1212.7
12°	1205.3	1206.8
13°	1199.1	1200.4
14°	1192.5	1193.6
15°	1185.5	1186.0
16°	1178.2	1179.0
17°	1169.4	1169.8
18°	1161.7	1162.3
19°	1151.9	1151.7
20°	1143.1	1142.2
21°	1132.9	1132.0
22°	1123.7	1121.5
23°	1112.4	1110.5
24°	1101.2	1099.1
25°	1090.2	1087.1
26°	1078.5	1074.8
27°	1066.5	1062.0
28°	1053.1	1049.3
29°	1041.6	1035.7
30°	1028.7	1022.1
31°	1015.5	1006.6
32°	1001.8	993.2
33°	988.0	977.2
34°	973.6	963.6
35°	959.2	946.8
36°	943.0	932.6
37°	928.0	915.1
38°	914.2	900.5
39°	897.2	882.4
40°	882.8	865.7
41°	865.4	849.0
42°	850.9	831.9
43°	833.0	814.6
44°	816.4	797.2



TEST NUMBER: A1707061A001(120V)

CATALOG NUMBER: 22RTC3440

**CANDELA DISTRIBUTION (continued):**

	330°	360°
45°	799.6	779.5
46°	782.7	761.7
47°	765.6	743.9
48°	748.6	725.8
49°	731.3	707.7
50°	713.7	689.3
51°	696.2	671.0
52°	678.6	652.4
53°	660.8	633.8
54°	643.0	615.2
55°	625.1	596.6
56°	607.1	576.0
57°	589.1	558.8
58°	570.9	538.1
59°	552.7	520.8
60°	534.4	499.8
61°	512.8	482.3
62°	496.1	461.5
63°	477.8	442.2
64°	459.2	423.0
65°	440.6	403.6
66°	422.2	384.4
67°	403.7	365.0
68°	385.0	345.6
69°	366.3	326.3
70°	347.6	307.1
71°	329.0	287.8
72°	310.3	268.5
73°	291.6	249.4
74°	272.9	230.4
75°	254.1	211.7
76°	235.5	193.0
77°	209.3	174.5
78°	196.0	154.8
79°	179.5	138.7
80°	159.8	119.8
81°	143.3	103.7
82°	126.4	87.9
83°	108.6	72.7
84°	92.2	57.6
85°	74.4	43.6
86°	54.6	31.3
87°	38.2	21.7
88°	21.6	13.3
89°	8.7	6.4



TEST NUMBER: A1707061A001(120V)

CATALOG NUMBER: 22RTC3440

**CANDELA DISTRIBUTION (continued):**

	330°	360°
90°	0.4	1.4

(END OF REPORT)