

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : AP-14-L40-835-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15060098.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 29 Nov, 2023

[TEST DATE] 11/20/2023

[MANUFAC] H E Williams Inc

[LUMCAT] AP-14-L40-835-DIM-UNV

[LUMINAIRE] White Recessed 1 X 4 Luminaire with arched center

[LAMP] 168 LEDs

[BALLAST] Advance/ Signify 49w Certadrive X C1049C102V048CDX1

[OTHER] 25.3 C, 120.053 V, 0.343868 A, 40.843 W, 0.989361 PF, 59.9703

[MORE] Hz

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

[OTHER] The reported results were measured in a facility that meets th

[MORE] e requirements of ANSI/IES LM-75-19. The device under test emits no de

[MORE] tectable uplight as defined by ANSI/IES LM-75-19.

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3904
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	129
Total Luminaire Watts	30.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.36
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.81 ft
Luminous Width (90-270)	0.87 ft
Luminous Height	0.00 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4188	4171	4227
55	4032	4014	4064
65	3814	3804	3720
75	3512	3271	3006
85	2827	1462	707

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**CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1394.266	1394.266	1394.266	1394.266	1394.266
0.5	1400.312	1393.511	1389.732	1395.022	1397.289
1.0	1399.556	1394.266	1390.488	1394.266	1398.045
1.5	1399.556	1393.511	1388.977	1395.022	1397.289
2.0	1398.801	1391.999	1388.977	1394.266	1395.022
2.5	1399.556	1391.244	1388.221	1393.511	1394.266
3.0	1398.045	1390.488	1387.465	1392.755	1395.778
3.5	1398.045	1388.977	1386.709	1391.244	1396.534
4.0	1398.045	1388.977	1386.709	1390.488	1395.022
4.5	1394.266	1387.465	1382.175	1389.732	1392.755
5.0	1391.999	1388.221	1382.175	1388.221	1391.999
5.5	1391.244	1385.954	1382.175	1387.465	1391.244
6.0	1389.732	1383.687	1379.152	1385.954	1388.977
6.5	1387.465	1382.175	1377.641	1382.931	1388.221
7.0	1385.954	1379.908	1375.374	1381.420	1385.198
7.5	1385.954	1377.641	1372.351	1378.397	1382.931
8.0	1381.420	1374.618	1372.351	1376.885	1381.420
8.5	1379.908	1373.863	1370.084	1373.863	1379.908
9.0	1375.374	1371.595	1367.061	1371.595	1379.152
9.5	1373.863	1368.573	1365.550	1368.573	1375.374
10.0	1370.084	1365.550	1362.527	1369.328	1370.840
10.5	1367.061	1361.771	1359.504	1365.550	1370.084
11.0	1365.550	1359.504	1357.993	1361.771	1369.328
11.5	1363.283	1355.726	1354.214	1360.260	1364.038
12.0	1358.749	1353.459	1348.924	1357.237	1358.749
12.5	1355.726	1349.680	1346.657	1353.459	1357.237
13.0	1351.192	1344.390	1343.635	1350.436	1352.703
13.5	1348.169	1342.123	1339.100	1347.413	1351.192
14.0	1344.390	1338.345	1335.322	1342.879	1348.169
14.5	1340.612	1333.055	1333.810	1339.100	1344.390
15.0	1337.589	1330.788	1329.276	1334.566	1339.856
15.5	1332.299	1326.253	1323.986	1331.543	1335.322
16.0	1328.521	1323.231	1320.208	1327.009	1331.543
16.5	1323.231	1317.941	1315.674	1321.719	1327.009
17.0	1319.452	1311.895	1311.139	1316.429	1323.231
17.5	1315.674	1308.117	1305.850	1311.895	1317.185
18.0	1308.872	1302.827	1302.071	1308.872	1311.139
18.5	1305.094	1299.804	1296.781	1303.582	1305.094
19.0	1300.560	1294.514	1290.736	1298.293	1301.315
19.5	1296.781	1288.468	1286.957	1294.514	1296.781
20.0	1291.491	1284.690	1280.911	1287.713	1291.491
20.5	1283.934	1279.400	1275.622	1280.911	1286.201
21.0	1277.889	1273.354	1270.332	1277.133	1281.667
21.5	1272.599	1265.797	1264.286	1271.843	1274.110
22.0	1267.309	1261.263	1257.485	1265.042	1268.820
22.5	1262.775	1255.218	1251.439	1260.508	1265.797
23.0	1256.729	1248.416	1246.905	1254.462	1260.508
23.5	1249.172	1243.126	1240.859	1249.928	1252.195
24.0	1243.882	1238.592	1234.814	1243.126	1246.149
24.5	1237.837	1231.791	1231.035	1237.837	1240.859
25.0	1232.547	1225.745	1223.478	1231.035	1234.814
25.5	1225.745	1220.455	1216.677	1224.234	1228.012
26.0	1218.188	1212.898	1211.387	1218.188	1222.723
26.5	1211.387	1205.341	1205.341	1212.143	1216.677

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**CANDELA TABULATION - (Cont.)**

27.0	1206.097	1200.052	1199.296	1206.853	1209.876
27.5	1198.540	1192.495	1192.495	1200.052	1205.341
28.0	1189.472	1185.693	1184.182	1193.250	1195.517
28.5	1184.182	1180.403	1177.381	1186.449	1188.716
29.0	1177.381	1172.846	1171.335	1178.892	1184.938
29.5	1169.824	1166.801	1164.534	1172.091	1175.113
30.0	1160.755	1158.488	1156.977	1163.778	1169.824
30.5	1155.465	1150.931	1149.420	1157.732	1161.511
31.0	1150.175	1143.374	1141.863	1150.175	1152.442
31.5	1141.863	1135.817	1133.550	1142.618	1147.908
32.0	1135.061	1128.260	1126.749	1135.817	1138.840
32.5	1125.237	1119.192	1118.436	1126.749	1130.527
33.0	1118.436	1111.635	1110.879	1118.436	1124.482
33.5	1111.635	1104.078	1103.322	1111.635	1117.680
34.0	1102.566	1097.276	1095.765	1105.589	1108.612
34.5	1091.986	1088.208	1087.452	1096.521	1101.055
35.0	1085.941	1081.407	1079.140	1089.719	1093.498
35.5	1079.140	1073.094	1071.583	1081.407	1085.941
36.0	1071.583	1064.781	1063.270	1072.338	1076.117
36.5	1062.514	1055.713	1055.713	1064.026	1067.804
37.0	1052.690	1046.644	1048.156	1055.713	1058.736
37.5	1044.377	1038.332	1038.332	1046.644	1050.423
38.0	1037.576	1029.263	1030.019	1037.576	1039.843
38.5	1027.752	1021.706	1022.462	1029.263	1032.286
39.0	1017.172	1013.394	1013.394	1020.951	1023.973
39.5	1008.859	1003.570	1004.325	1012.638	1016.416
40.0	999.035	995.257	996.768	1003.570	1008.104
40.5	992.990	986.188	987.700	993.745	1000.547
41.0	982.410	977.120	977.876	986.188	989.211
41.5	973.342	969.563	969.563	977.876	981.654
42.0	965.029	959.739	958.983	967.296	971.830
42.5	955.960	949.159	950.671	957.472	962.006
43.0	944.625	941.602	941.602	949.159	953.693
43.5	936.312	931.778	931.022	939.335	944.625
44.0	927.244	923.465	922.710	930.267	935.557
44.5	918.175	914.397	913.641	921.198	925.732
45.0	908.351	904.573	904.573	912.130	916.664
45.5	898.527	895.504	894.749	902.306	906.084
46.0	889.459	884.169	884.925	893.237	895.504
46.5	880.390	874.345	876.612	884.169	887.192
47.0	869.811	866.032	866.032	874.345	875.856
47.5	859.987	856.208	856.964	863.765	866.032
48.0	850.162	846.384	847.140	853.941	855.452
48.5	840.338	837.316	836.560	844.117	847.140
49.0	832.026	827.491	826.736	835.048	836.560
49.5	820.690	817.667	816.912	824.469	825.980
50.0	811.622	807.088	808.599	814.645	816.912
50.5	801.798	797.263	798.019	804.820	806.332
51.0	790.462	786.684	787.439	794.241	796.508
51.5	780.638	776.860	776.860	785.928	786.684
52.0	770.814	766.280	767.791	774.592	775.348
52.5	760.990	756.456	757.211	764.013	766.280
53.0	750.486	746.405	746.254	753.735	755.700
53.5	739.075	736.354	736.581	743.307	745.422
54.0	729.402	726.832	726.908	733.785	734.994
54.5	719.880	715.799	716.252	723.583	725.548

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**CANDELA TABULATION - (Cont.)**

55.0	709.224	705.673	706.051	713.381	714.968
55.5	698.267	694.942	695.622	702.952	704.993
56.0	688.896	684.060	685.193	691.919	694.715
56.5	677.938	673.782	674.991	681.339	682.851
57.0	666.981	663.051	664.185	671.213	671.439
57.5	656.628	653.378	653.756	660.104	659.953
58.0	646.728	642.269	643.403	649.071	649.146
58.5	635.619	631.387	632.445	637.660	638.189
59.0	624.586	621.110	622.092	626.853	625.191
59.5	614.762	609.850	611.286	615.820	613.099
60.0	603.578	599.875	601.008	604.182	603.049
60.5	591.789	588.690	589.899	592.998	590.806
61.0	581.360	577.506	579.168	581.662	578.488
61.5	570.705	567.077	568.740	569.722	566.548
62.0	559.596	556.271	557.555	557.631	555.515
62.5	548.563	545.238	546.900	545.389	542.593
63.0	537.454	534.129	536.094	533.373	530.426
63.5	527.705	523.398	524.909	521.357	518.712
64.0	516.143	512.969	514.405	509.871	506.924
64.5	505.261	502.314	503.372	498.309	494.681
65.0	494.303	490.752	493.094	486.142	482.137
65.5	483.195	480.398	481.608	474.051	469.970
66.0	473.295	470.272	470.726	462.413	458.181
66.5	463.169	459.617	459.466	449.944	445.183
67.0	451.531	448.961	447.903	438.230	433.847
67.5	440.498	438.684	436.643	426.744	422.965
68.0	429.918	427.877	425.006	415.106	411.176
68.5	419.187	416.844	413.897	403.166	398.556
69.0	408.985	406.340	403.166	390.621	386.994
69.5	398.556	395.760	391.377	378.530	374.827
70.0	388.279	385.331	379.513	366.741	362.283
70.5	377.321	374.525	367.346	354.272	350.191
71.0	365.457	363.870	355.330	342.257	337.873
71.5	354.499	352.761	343.315	329.787	324.951
72.0	343.617	341.728	331.677	317.394	312.558
72.5	332.206	330.921	319.661	304.623	300.088
73.0	321.399	320.115	307.494	292.456	287.922
73.5	310.517	309.535	295.328	280.591	275.377
74.0	300.013	299.106	283.614	268.576	262.984
74.5	289.735	288.602	271.599	256.333	251.119
75.0	278.778	277.266	259.659	244.167	238.650
75.5	268.425	266.233	247.567	232.000	225.954
76.0	257.694	255.049	235.854	219.682	213.485
76.5	246.736	244.620	224.216	207.817	201.545
77.0	236.232	234.040	212.352	196.029	189.303
77.5	226.332	223.007	200.487	183.862	177.136
78.0	216.055	211.596	188.849	171.997	164.969
78.5	205.853	200.336	177.665	160.208	152.727
79.0	195.651	189.303	165.952	148.419	140.787
79.5	184.920	178.118	154.616	136.631	129.149
80.0	175.020	167.010	143.205	125.144	117.814
80.5	164.969	155.825	132.021	113.808	106.780
81.0	154.843	144.943	121.063	103.606	95.520
81.5	145.170	133.986	109.879	92.800	85.016
82.0	135.195	122.952	98.921	81.087	74.361
82.5	125.068	112.070	88.039	70.507	64.386

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**CANDELA TABULATION - (Cont.)**

83.0	114.791	101.113	78.291	60.532	54.410
83.5	104.740	90.533	67.711	51.236	44.813
84.0	94.916	80.482	57.660	42.017	35.745
84.5	85.167	70.356	48.214	33.100	26.827
85.0	75.570	60.229	39.070	24.711	18.892
85.5	65.821	50.707	30.379	17.683	13.225
86.0	56.451	41.639	22.973	12.393	9.975
86.5	47.534	32.571	16.928	9.068	7.179
87.0	38.994	25.014	11.940	7.104	6.121
87.5	31.286	18.892	8.388	5.819	5.441
88.0	24.334	13.754	6.272	5.743	4.836
88.5	18.061	8.993	5.970	6.046	4.232
89.0	13.149	5.441	3.854	5.668	3.627
89.5	8.766	3.325	2.872	4.761	2.494
90.0	0.000	0.000	0.000	0.000	0.000
90.5	0.000	0.000	0.000	0.000	0.000
91.0	0.000	0.000	0.000	0.000	0.000
91.5	0.000	0.000	0.000	0.000	0.000
92.0	0.000	0.000	0.000	0.000	0.000
92.5	0.000	0.000	0.000	0.000	0.000
93.0	0.000	0.000	0.000	0.000	0.000
93.5	0.000	0.000	0.000	0.000	0.000
94.0	0.000	0.000	0.000	0.000	0.000
94.5	0.000	0.000	0.000	0.000	0.000
95.0	0.000	0.000	0.000	0.000	0.000
95.5	0.000	0.000	0.000	0.000	0.000
96.0	0.000	0.000	0.000	0.000	0.000
96.5	0.000	0.000	0.000	0.000	0.000
97.0	0.000	0.000	0.000	0.000	0.000
97.5	0.000	0.000	0.000	0.000	0.000
98.0	0.000	0.000	0.000	0.000	0.000
98.5	0.000	0.000	0.000	0.000	0.000
99.0	0.000	0.000	0.000	0.000	0.000
99.5	0.000	0.000	0.000	0.000	0.000
100.0	0.000	0.000	0.000	0.000	0.000
100.5	0.000	0.000	0.000	0.000	0.000
101.0	0.000	0.000	0.000	0.000	0.000
101.5	0.000	0.000	0.000	0.000	0.000
102.0	0.000	0.000	0.000	0.000	0.000
102.5	0.000	0.000	0.000	0.000	0.000
103.0	0.000	0.000	0.000	0.000	0.000
103.5	0.000	0.000	0.000	0.000	0.000
104.0	0.000	0.000	0.000	0.000	0.000
104.5	0.000	0.000	0.000	0.000	0.000
105.0	0.000	0.000	0.000	0.000	0.000
105.5	0.000	0.000	0.000	0.000	0.000
106.0	0.000	0.000	0.000	0.000	0.000
106.5	0.000	0.000	0.000	0.000	0.000
107.0	0.000	0.000	0.000	0.000	0.000
107.5	0.000	0.000	0.000	0.000	0.000
108.0	0.000	0.000	0.000	0.000	0.000
108.5	0.000	0.000	0.000	0.000	0.000
109.0	0.000	0.000	0.000	0.000	0.000
109.5	0.000	0.000	0.000	0.000	0.000
110.0	0.000	0.000	0.000	0.000	0.000
110.5	0.000	0.000	0.000	0.000	0.000

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CANDELA TABULATION - (Cont.)

111.0	0.000	0.000	0.000	0.000	0.000
111.5	0.000	0.000	0.000	0.000	0.000
112.0	0.000	0.000	0.000	0.000	0.000
112.5	0.000	0.000	0.000	0.000	0.000
113.0	0.000	0.000	0.000	0.000	0.000
113.5	0.000	0.000	0.000	0.000	0.000
114.0	0.000	0.000	0.000	0.000	0.000
114.5	0.000	0.000	0.000	0.000	0.000
115.0	0.000	0.000	0.000	0.000	0.000
115.5	0.000	0.000	0.000	0.000	0.000
116.0	0.000	0.000	0.000	0.000	0.000
116.5	0.000	0.000	0.000	0.000	0.000
117.0	0.000	0.000	0.000	0.000	0.000
117.5	0.000	0.000	0.000	0.000	0.000
118.0	0.000	0.000	0.000	0.000	0.000
118.5	0.000	0.000	0.000	0.000	0.000
119.0	0.000	0.000	0.000	0.000	0.000
119.5	0.000	0.000	0.000	0.000	0.000
120.0	0.000	0.000	0.000	0.000	0.000
120.5	0.000	0.000	0.000	0.000	0.000
121.0	0.000	0.000	0.000	0.000	0.000
121.5	0.000	0.000	0.000	0.000	0.000
122.0	0.000	0.000	0.000	0.000	0.000
122.5	0.000	0.000	0.000	0.000	0.000
123.0	0.000	0.000	0.000	0.000	0.000
123.5	0.000	0.000	0.000	0.000	0.000
124.0	0.000	0.000	0.000	0.000	0.000
124.5	0.000	0.000	0.000	0.000	0.000
125.0	0.000	0.000	0.000	0.000	0.000
125.5	0.000	0.000	0.000	0.000	0.000
126.0	0.000	0.000	0.000	0.000	0.000
126.5	0.000	0.000	0.000	0.000	0.000
127.0	0.000	0.000	0.000	0.000	0.000
127.5	0.000	0.000	0.000	0.000	0.000
128.0	0.000	0.000	0.000	0.000	0.000
128.5	0.000	0.000	0.000	0.000	0.000
129.0	0.000	0.000	0.000	0.000	0.000
129.5	0.000	0.000	0.000	0.000	0.000
130.0	0.000	0.000	0.000	0.000	0.000
130.5	0.000	0.000	0.000	0.000	0.000
131.0	0.000	0.000	0.000	0.000	0.000
131.5	0.000	0.000	0.000	0.000	0.000
132.0	0.000	0.000	0.000	0.000	0.000
132.5	0.000	0.000	0.000	0.000	0.000
133.0	0.000	0.000	0.000	0.000	0.000
133.5	0.000	0.000	0.000	0.000	0.000
134.0	0.000	0.000	0.000	0.000	0.000
134.5	0.000	0.000	0.000	0.000	0.000
135.0	0.000	0.000	0.000	0.000	0.000
135.5	0.000	0.000	0.000	0.000	0.000
136.0	0.000	0.000	0.000	0.000	0.000
136.5	0.000	0.000	0.000	0.000	0.000
137.0	0.000	0.000	0.000	0.000	0.000
137.5	0.000	0.000	0.000	0.000	0.000
138.0	0.000	0.000	0.000	0.000	0.000
138.5	0.000	0.000	0.000	0.000	0.000

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : AP-14-L40-835-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

139.0	0.000	0.000	0.000	0.000	0.000
139.5	0.000	0.000	0.000	0.000	0.000
140.0	0.000	0.000	0.000	0.000	0.000
140.5	0.000	0.000	0.000	0.000	0.000
141.0	0.000	0.000	0.000	0.000	0.000
141.5	0.000	0.000	0.000	0.000	0.000
142.0	0.000	0.000	0.000	0.000	0.000
142.5	0.000	0.000	0.000	0.000	0.000
143.0	0.000	0.000	0.000	0.000	0.000
143.5	0.000	0.000	0.000	0.000	0.000
144.0	0.000	0.000	0.000	0.000	0.000
144.5	0.000	0.000	0.000	0.000	0.000
145.0	0.000	0.000	0.000	0.000	0.000
145.5	0.000	0.000	0.000	0.000	0.000
146.0	0.000	0.000	0.000	0.000	0.000
146.5	0.000	0.000	0.000	0.000	0.000
147.0	0.000	0.000	0.000	0.000	0.000
147.5	0.000	0.000	0.000	0.000	0.000
148.0	0.000	0.000	0.000	0.000	0.000
148.5	0.000	0.000	0.000	0.000	0.000
149.0	0.000	0.000	0.000	0.000	0.000
149.5	0.000	0.000	0.000	0.000	0.000
150.0	0.000	0.000	0.000	0.000	0.000
150.5	0.000	0.000	0.000	0.000	0.000
151.0	0.000	0.000	0.000	0.000	0.000
151.5	0.000	0.000	0.000	0.000	0.000
152.0	0.000	0.000	0.000	0.000	0.000
152.5	0.000	0.000	0.000	0.000	0.000
153.0	0.000	0.000	0.000	0.000	0.000
153.5	0.000	0.000	0.000	0.000	0.000
154.0	0.000	0.000	0.000	0.000	0.000
154.5	0.000	0.000	0.000	0.000	0.000
155.0	0.000	0.000	0.000	0.000	0.000
155.5	0.000	0.000	0.000	0.000	0.000
156.0	0.000	0.000	0.000	0.000	0.000
156.5	0.000	0.000	0.000	0.000	0.000
157.0	0.000	0.000	0.000	0.000	0.000
157.5	0.000	0.000	0.000	0.000	0.000
158.0	0.000	0.000	0.000	0.000	0.000
158.5	0.000	0.000	0.000	0.000	0.000
159.0	0.000	0.000	0.000	0.000	0.000
159.5	0.000	0.000	0.000	0.000	0.000
160.0	0.000	0.000	0.000	0.000	0.000
160.5	0.000	0.000	0.000	0.000	0.000
161.0	0.000	0.000	0.000	0.000	0.000
161.5	0.000	0.000	0.000	0.000	0.000
162.0	0.000	0.000	0.000	0.000	0.000
162.5	0.000	0.000	0.000	0.000	0.000
163.0	0.000	0.000	0.000	0.000	0.000
163.5	0.000	0.000	0.000	0.000	0.000
164.0	0.000	0.000	0.000	0.000	0.000
164.5	0.000	0.000	0.000	0.000	0.000
165.0	0.000	0.000	0.000	0.000	0.000
165.5	0.000	0.000	0.000	0.000	0.000
166.0	0.000	0.000	0.000	0.000	0.000
166.5	0.000	0.000	0.000	0.000	0.000



IES INDOOR REPORT  
PHOTOMETRIC FILENAME : AP-14-L40-835-DIM-UNV\_.IES

CANDELA TABULATION - (Cont.)

167.0	0.000	0.000	0.000	0.000	0.000
167.5	0.000	0.000	0.000	0.000	0.000
168.0	0.000	0.000	0.000	0.000	0.000
168.5	0.000	0.000	0.000	0.000	0.000
169.0	0.000	0.000	0.000	0.000	0.000
169.5	0.000	0.000	0.000	0.000	0.000
170.0	0.000	0.000	0.000	0.000	0.000
170.5	0.000	0.000	0.000	0.000	0.000
171.0	0.000	0.000	0.000	0.000	0.000
171.5	0.000	0.000	0.000	0.000	0.000
172.0	0.000	0.000	0.000	0.000	0.000
172.5	0.000	0.000	0.000	0.000	0.000
173.0	0.000	0.000	0.000	0.000	0.000
173.5	0.000	0.000	0.000	0.000	0.000
174.0	0.000	0.000	0.000	0.000	0.000
174.5	0.000	0.000	0.000	0.000	0.000
175.0	0.000	0.000	0.000	0.000	0.000
175.5	0.000	0.000	0.000	0.000	0.000
176.0	0.000	0.000	0.000	0.000	0.000
176.5	0.000	0.000	0.000	0.000	0.000
177.0	0.000	0.000	0.000	0.000	0.000
177.5	0.000	0.000	0.000	0.000	0.000
178.0	0.000	0.000	0.000	0.000	0.000
178.5	0.000	0.000	0.000	0.000	0.000
179.0	0.000	0.000	0.000	0.000	0.000
179.5	0.000	0.000	0.000	0.000	0.000
180.0	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AP-14-L40-835-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	507.76	N.A.	13.00
0-30	1073.79	N.A.	27.50
0-40	1752.12	N.A.	44.90
0-60	3085.93	N.A.	79.00
0-80	3844.72	N.A.	98.50
0-90	3903.78	N.A.	100.00
10-90	3772.00	N.A.	96.60
20-40	1244.36	N.A.	31.90
20-50	1944.77	N.A.	49.80
40-70	1818.25	N.A.	46.60
60-80	758.79	N.A.	19.40
70-80	274.35	N.A.	7.00
80-90	59.06	N.A.	1.50
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3903.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	131.78
10-20	375.98
20-30	566.03
30-40	678.33
40-50	700.41
50-60	633.41
60-70	484.43
70-80	274.35
80-90	59.06
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AP-14-L40-835-DIM-UNV\_.IES**

**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

Effective Floor Cavity Reflectance 0.20

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
0	83	83	83	83	81	81	81	81	78	78	78	74	74	74	71	71	71	70
1	76	73	70	67	74	71	68	66	68	66	64	65	64	62	63	61	60	59
2	69	63	59	55	67	62	58	54	60	56	53	57	54	51	55	53	50	49
3	63	56	50	45	61	55	49	45	52	48	44	50	47	43	49	45	43	41
4	58	49	43	38	56	48	43	38	47	42	38	45	41	37	43	40	37	35
5	53	44	38	33	52	43	37	33	42	36	32	40	36	32	39	35	32	30
6	49	40	33	29	48	39	33	29	38	32	28	36	32	28	35	31	28	26
7	45	36	30	25	44	35	29	25	34	29	25	33	28	25	32	28	25	23
8	42	33	27	23	41	32	27	23	31	26	22	30	26	22	30	25	22	21
9	39	30	24	20	38	30	24	20	29	24	20	28	23	20	27	23	20	19
10	37	28	22	18	36	27	22	18	27	22	18	26	21	18	25	21	18	17

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : AP-14-L40-835-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

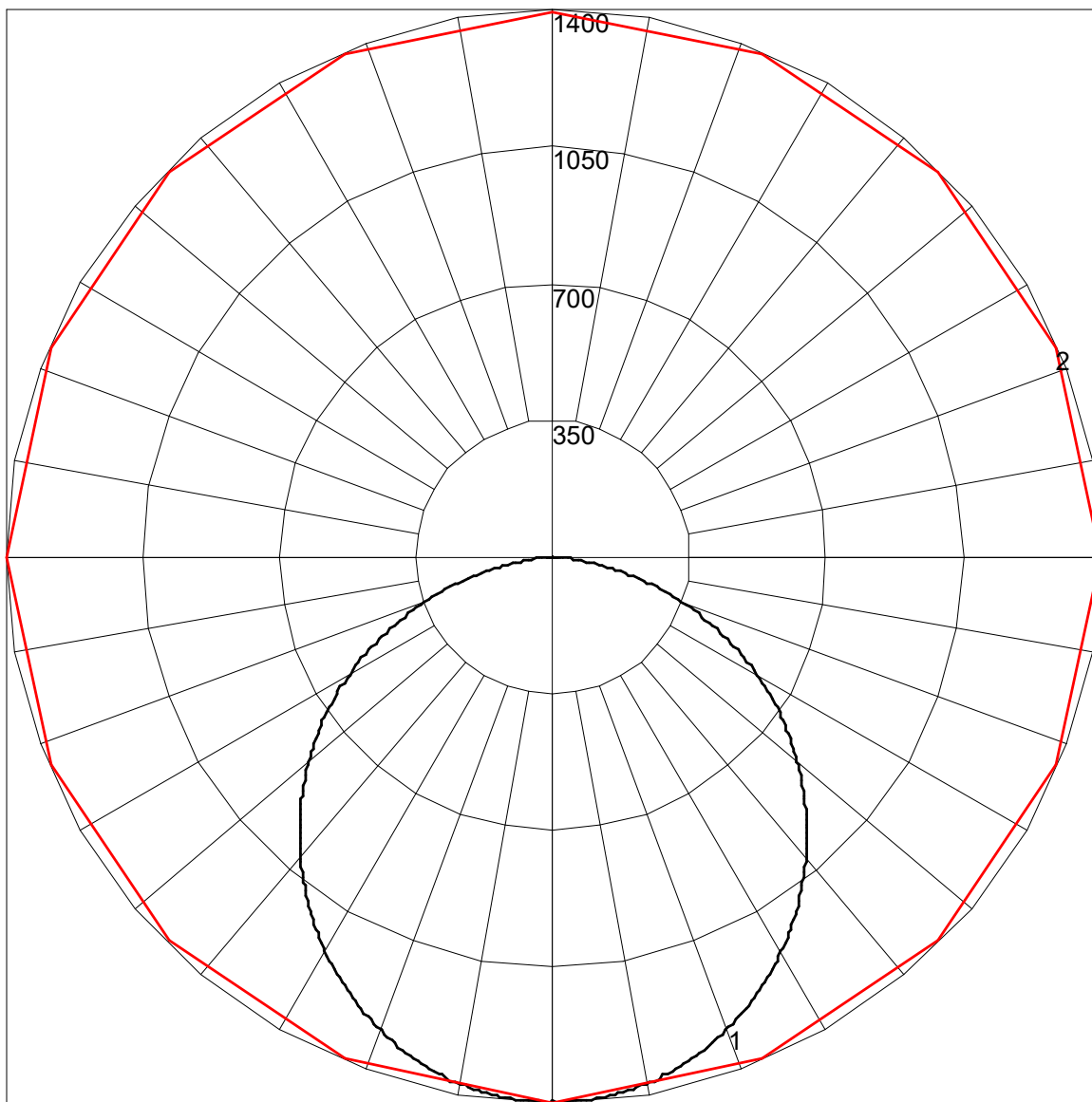
Reflectances

Ceiling Cavity	70	70	50	50	30	70	70	50	50	30
Walls	50	30	50	30	30	50	30	50	30	30
Floor Cavity	20	20	20	20	20	20	20	20	20	20

Room Size		UGR Viewed Crosswise					UGR Viewed Endwise				
X=2H	Y=2H	18.3	19.9	18.6	20.2	20.5	18.3	20.0	18.7	20.3	20.6
	3H	20.2	21.7	20.5	22.0	22.3	20.1	21.6	20.5	21.9	22.3
	4H	20.9	22.3	21.3	22.7	23.0	20.7	22.1	21.1	22.4	22.8
	6H	21.5	22.8	21.9	23.1	23.5	21.0	22.3	21.4	22.7	23.1
	8H	21.7	22.9	22.1	23.3	23.7	21.1	22.3	21.5	22.7	23.1
	12H	21.8	23.0	22.2	23.4	23.8	21.1	22.3	21.5	22.6	23.1
4H	2H	18.9	20.3	19.3	20.7	21.0	19.0	20.4	19.4	20.7	21.1
	3H	21.1	22.2	21.5	22.6	23.0	21.0	22.1	21.4	22.5	22.9
	4H	21.9	23.0	22.4	23.4	23.8	21.6	22.7	22.1	23.1	23.6
	6H	22.6	23.5	23.1	24.0	24.4	22.1	23.0	22.5	23.5	23.9
	8H	22.8	23.7	23.3	24.2	24.6	22.2	23.0	22.6	23.5	23.9
	12H	23.0	23.8	23.5	24.3	24.7	22.2	23.0	22.7	23.4	23.9
8H	4H	22.2	23.1	22.7	23.5	24.0	22.0	22.8	22.4	23.3	23.7
	6H	23.0	23.7	23.5	24.2	24.7	22.5	23.2	23.0	23.7	24.2
	8H	23.3	24.0	23.8	24.5	25.0	22.6	23.3	23.1	23.8	24.2
	12H	23.6	24.1	24.1	24.6	25.2	22.7	23.2	23.2	23.7	24.3
12H	4H	22.2	23.0	22.7	23.5	23.9	22.0	22.8	22.5	23.3	23.7
	6H	23.1	23.7	23.6	24.2	24.7	22.6	23.2	23.1	23.7	24.2
	8H	23.4	24.0	23.9	24.5	25.0	22.7	23.3	23.2	23.8	24.3

Maximum UGR = 25.2

POLAR GRAPH



Maximum Candela = 1400.312 Located At Horizontal Angle = 0, Vertical Angle = .5  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)