

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AP-14-L40-840-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-L40-840-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	4021
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	133
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	4314	4296	4354
55	4153	4134	4186
65	3928	3918	3831
75	3617	3369	3097
85	2912	1505	728

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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	1436.148	1436.148	1436.148	1436.148	1436.148
0.5	1442.375	1435.370	1431.478	1436.926	1439.262
1.0	1441.597	1436.148	1432.256	1436.148	1440.040
1.5	1441.597	1435.370	1430.699	1436.926	1439.262
2.0	1440.818	1433.813	1430.699	1436.148	1436.926
2.5	1441.597	1433.034	1429.921	1435.370	1436.148
3.0	1440.040	1432.256	1429.142	1434.591	1437.705
3.5	1440.040	1430.699	1428.364	1433.034	1438.483
4.0	1440.040	1430.699	1428.364	1432.256	1436.926
4.5	1436.148	1429.142	1423.694	1431.478	1434.591
5.0	1433.813	1429.921	1423.694	1429.921	1433.813
5.5	1433.034	1427.586	1423.694	1429.142	1433.034
6.0	1431.478	1425.250	1420.580	1427.586	1430.699
6.5	1429.142	1423.694	1419.023	1424.472	1429.921
7.0	1427.586	1421.358	1416.688	1422.915	1426.807
7.5	1427.586	1419.023	1413.574	1419.802	1424.472
8.0	1422.915	1415.910	1413.574	1418.245	1422.915
8.5	1421.358	1415.131	1411.239	1415.131	1421.358
9.0	1416.688	1412.796	1408.126	1412.796	1420.580
9.5	1415.131	1409.682	1406.569	1409.682	1416.688
10.0	1411.239	1406.569	1403.455	1410.461	1412.018
10.5	1408.126	1402.677	1400.342	1406.569	1411.239
11.0	1406.569	1400.342	1398.785	1402.677	1410.461
11.5	1404.234	1396.450	1394.893	1401.120	1405.012
12.0	1399.563	1394.114	1389.444	1398.006	1399.563
12.5	1396.450	1390.222	1387.109	1394.114	1398.006
13.0	1391.779	1384.774	1383.995	1391.001	1393.336
13.5	1388.666	1382.438	1379.325	1387.887	1391.779
14.0	1384.774	1378.546	1375.433	1383.217	1388.666
14.5	1380.882	1373.098	1373.876	1379.325	1384.774
15.0	1377.768	1370.762	1369.206	1374.654	1380.103
15.5	1372.319	1366.092	1363.757	1371.541	1375.433
16.0	1368.427	1362.978	1359.865	1366.870	1371.541
16.5	1362.978	1357.530	1355.194	1361.422	1366.870
17.0	1359.086	1351.302	1350.524	1355.973	1362.978
17.5	1355.194	1347.410	1345.075	1351.302	1356.751
18.0	1348.189	1341.962	1341.183	1348.189	1350.524
18.5	1344.297	1338.848	1335.734	1342.740	1344.297
19.0	1339.626	1333.399	1329.507	1337.291	1340.405
19.5	1335.734	1327.172	1325.615	1333.399	1335.734
20.0	1330.286	1323.280	1319.388	1326.394	1330.286
20.5	1322.502	1317.831	1313.939	1319.388	1324.837
21.0	1316.274	1311.604	1308.490	1315.496	1320.166
21.5	1310.826	1303.820	1302.263	1310.047	1312.382
22.0	1305.377	1299.150	1295.258	1303.042	1306.934
22.5	1300.706	1292.922	1289.030	1298.371	1303.820
23.0	1294.479	1285.917	1284.360	1292.144	1298.371
23.5	1286.695	1280.468	1278.133	1287.474	1289.809
24.0	1281.246	1275.798	1271.906	1280.468	1283.582
24.5	1275.019	1268.792	1268.014	1275.019	1278.133
25.0	1269.570	1262.565	1260.230	1268.014	1271.906
25.5	1262.565	1257.116	1253.224	1261.008	1264.900
26.0	1254.781	1249.332	1247.775	1254.781	1259.451
26.5	1247.775	1241.548	1241.548	1248.554	1253.224

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27.0	1242.326	1236.099	1235.321	1243.105	1246.218
27.5	1234.542	1228.315	1228.315	1236.099	1241.548
28.0	1225.202	1221.310	1219.753	1229.094	1231.429
28.5	1219.753	1215.861	1212.747	1222.088	1224.423
29.0	1212.747	1208.077	1206.520	1214.304	1220.531
29.5	1204.963	1201.850	1199.514	1207.298	1210.412
30.0	1195.622	1193.287	1191.730	1198.736	1204.963
30.5	1190.174	1185.503	1183.946	1192.509	1196.401
31.0	1184.725	1177.719	1176.162	1184.725	1187.060
31.5	1176.162	1169.935	1167.600	1176.941	1182.390
32.0	1169.157	1162.151	1160.594	1169.935	1173.049
32.5	1159.038	1152.810	1152.032	1160.594	1164.486
33.0	1152.032	1145.026	1144.248	1152.032	1158.259
33.5	1145.026	1137.242	1136.464	1145.026	1151.254
34.0	1135.686	1130.237	1128.680	1138.799	1141.913
34.5	1124.788	1120.896	1120.118	1129.458	1134.129
35.0	1118.561	1113.890	1111.555	1122.453	1126.345
35.5	1111.555	1105.328	1103.771	1113.890	1118.561
36.0	1103.771	1096.766	1095.209	1104.550	1108.442
36.5	1094.430	1087.425	1087.425	1095.987	1099.879
37.0	1084.311	1078.084	1079.641	1087.425	1090.538
37.5	1075.749	1069.522	1069.522	1078.084	1081.976
38.0	1068.743	1060.181	1060.959	1068.743	1071.078
38.5	1058.624	1052.397	1053.175	1060.181	1063.294
39.0	1047.726	1043.834	1043.834	1051.618	1054.732
39.5	1039.164	1033.715	1034.494	1043.056	1046.948
40.0	1029.045	1025.153	1026.710	1033.715	1038.386
40.5	1022.818	1015.812	1017.369	1023.596	1030.602
41.0	1011.920	1006.471	1007.250	1015.812	1018.926
41.5	1002.579	998.687	998.687	1007.250	1011.142
42.0	994.017	988.568	987.790	996.352	1001.022
42.5	984.676	977.670	979.227	986.233	990.903
43.0	973.000	969.886	969.886	977.670	982.341
43.5	964.438	959.767	958.989	967.551	973.000
44.0	955.097	951.205	950.426	958.210	963.659
44.5	945.756	941.864	941.086	948.870	953.540
45.0	935.637	931.745	931.745	939.529	944.199
45.5	925.518	922.404	921.626	929.410	933.302
46.0	916.177	910.728	911.506	920.069	922.404
46.5	906.836	900.609	902.944	910.728	913.842
47.0	895.938	892.046	892.046	900.609	902.166
47.5	885.819	881.927	882.706	889.711	892.046
48.0	875.700	871.808	872.586	879.592	881.149
48.5	865.581	862.467	861.689	869.473	872.586
49.0	857.018	852.348	851.570	860.132	861.689
49.5	845.342	842.229	841.450	849.234	850.791
50.0	836.002	831.331	832.888	839.115	841.450
50.5	825.882	821.212	821.990	828.996	830.553
51.0	814.206	810.314	811.093	818.098	820.434
51.5	804.087	800.195	800.195	809.536	810.314
52.0	793.968	789.298	790.854	797.860	798.638
52.5	783.849	779.178	779.957	786.962	789.298
53.0	773.029	768.826	768.670	776.376	778.400
53.5	761.275	758.473	758.706	765.634	767.814
54.0	751.312	748.665	748.743	755.826	757.072
54.5	741.504	737.300	737.768	745.318	747.342

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55.0	730.528	726.870	727.259	734.810	736.444
55.5	719.242	715.817	716.517	724.068	726.169
56.0	709.589	704.608	705.775	712.703	715.583
56.5	698.303	694.021	695.267	701.805	703.362
57.0	687.016	682.968	684.136	691.375	691.608
57.5	676.352	673.005	673.394	679.932	679.777
58.0	666.155	661.562	662.730	668.568	668.646
58.5	654.712	650.353	651.443	656.814	657.359
59.0	643.348	639.767	640.779	645.683	643.970
59.5	633.228	628.169	629.648	634.318	631.516
60.0	621.708	617.894	619.062	622.331	621.163
60.5	609.565	606.374	607.619	610.810	608.553
61.0	598.823	594.853	596.566	599.134	595.865
61.5	587.848	584.111	585.824	586.836	583.566
62.0	576.405	572.980	574.304	574.381	572.202
62.5	565.041	561.616	563.328	561.771	558.891
63.0	553.598	550.173	552.197	549.395	546.359
63.5	543.557	539.120	540.677	537.018	534.294
64.0	531.647	528.378	529.857	525.186	522.151
64.5	520.438	517.402	518.492	513.277	509.541
65.0	509.151	505.493	507.906	500.745	496.619
65.5	497.709	494.829	496.074	488.290	484.087
66.0	487.512	484.398	484.865	476.303	471.944
66.5	477.081	473.423	473.267	463.459	458.555
67.0	465.094	462.447	461.358	451.394	446.879
67.5	453.729	451.861	449.760	439.562	435.670
68.0	442.832	440.730	437.772	427.575	423.527
68.5	431.778	429.365	426.330	415.276	410.528
69.0	421.270	418.546	415.276	402.355	398.619
69.5	410.528	407.648	403.133	389.901	386.086
70.0	399.942	396.906	390.912	377.758	373.165
70.5	388.655	385.775	378.380	364.914	360.711
71.0	376.434	374.800	366.004	352.537	348.023
71.5	365.147	363.357	353.627	339.694	334.712
72.0	353.938	351.992	341.640	326.928	321.946
72.5	342.185	340.861	329.263	313.773	309.103
73.0	331.054	329.730	316.731	301.241	296.570
73.5	319.845	318.833	304.199	289.020	283.649
74.0	309.025	308.091	292.134	276.643	270.883
74.5	298.439	297.271	279.757	264.033	258.662
75.0	287.152	285.595	267.458	251.501	245.819
75.5	276.488	274.230	255.004	238.969	232.742
76.0	265.434	262.710	242.939	226.281	219.898
76.5	254.148	251.968	230.951	214.060	207.599
77.0	243.328	241.070	218.730	201.917	194.989
77.5	233.131	229.706	206.510	189.385	182.457
78.0	222.545	217.952	194.522	177.164	169.925
78.5	212.036	206.354	183.002	165.021	157.315
79.0	201.528	194.989	170.937	152.878	145.016
79.5	190.474	183.469	159.261	140.735	133.029
80.0	180.277	172.026	147.507	128.903	121.353
80.5	169.925	160.506	135.986	117.227	109.988
81.0	159.494	149.297	124.700	106.719	98.390
81.5	149.531	138.010	113.179	95.588	87.570
82.0	139.256	126.646	101.893	83.522	76.595
82.5	128.825	115.437	90.684	72.625	66.320

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CANDELA TABULATION - (Cont.)

83.0	118.239	104.150	80.642	62.350	56.045
83.5	107.886	93.252	69.745	52.776	46.159
84.0	97.767	82.900	59.392	43.279	36.818
84.5	87.726	72.469	49.662	34.094	27.633
85.0	77.840	62.038	40.243	25.454	19.460
85.5	67.799	52.231	31.292	18.215	13.622
86.0	58.146	42.890	23.663	12.766	10.275
86.5	48.961	33.549	17.436	9.341	7.395
87.0	40.165	25.765	12.299	7.317	6.305
87.5	32.226	19.460	8.640	5.994	5.604
88.0	25.064	14.167	6.461	5.916	4.982
88.5	18.604	9.263	6.149	6.227	4.359
89.0	13.544	5.604	3.970	5.838	3.736
89.5	9.029	3.425	2.958	4.904	2.569
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-L40-840-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
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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-L40-840-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	523.01	N.A.	13.00
0-30	1106.05	N.A.	27.50
0-40	1804.75	N.A.	44.90
0-60	3178.63	N.A.	79.00
0-80	3960.21	N.A.	98.50
0-90	4021.04	N.A.	100.00
10-90	3885.3	N.A.	96.60
20-40	1281.74	N.A.	31.90
20-50	2003.18	N.A.	49.80
40-70	1872.87	N.A.	46.60
60-80	781.58	N.A.	19.40
70-80	282.59	N.A.	7.00
80-90	60.83	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	4021.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	135.74
10-20	387.27
20-30	583.04
30-40	698.70
40-50	721.44
50-60	652.44
60-70	498.98
70-80	282.59
80-90	60.83
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-L40-840-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	123	123	123	123	120	120	120	120	114	114	114	110	110	110	105	105	105	103
1	112	107	103	99	109	105	101	97	100	97	94	96	94	91	93	91	89	86
2	102	93	86	80	99	91	85	79	88	82	78	84	80	76	81	77	74	72
3	93	82	73	67	90	80	72	66	77	71	65	74	69	64	72	67	63	60
4	85	73	63	57	83	71	63	56	69	61	55	66	60	55	64	58	54	52
5	78	65	55	49	76	64	55	48	61	54	48	59	53	47	57	52	47	45
6	72	58	49	42	70	57	49	42	55	48	42	54	47	41	52	46	41	39
7	67	53	44	37	65	52	43	37	50	43	37	49	42	37	48	41	36	34
8	62	48	39	33	61	48	39	33	46	39	33	45	38	33	44	37	33	31
9	58	44	36	30	57	44	36	30	42	35	30	41	35	30	40	34	29	28
10	54	41	33	27	53	40	32	27	39	32	27	38	32	27	37	31	27	25

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AP-14-L40-840-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

X=2H	Y=2H	17.0	18.6	17.3	18.9	19.2	UGR Viewed Endwise			
	3H	18.9	20.4	19.2	20.7	21.0	17.0	18.7	17.4	19.0
	4H	19.6	21.0	20.0	21.4	21.7	18.8	20.3	19.2	20.6
	6H	20.2	21.5	20.6	21.8	22.2	19.4	20.8	19.8	21.1
	8H	20.4	21.6	20.8	22.0	22.4	19.7	21.0	20.1	21.4
	12H	20.5	21.7	20.9	22.1	22.5	19.8	21.0	20.2	21.4

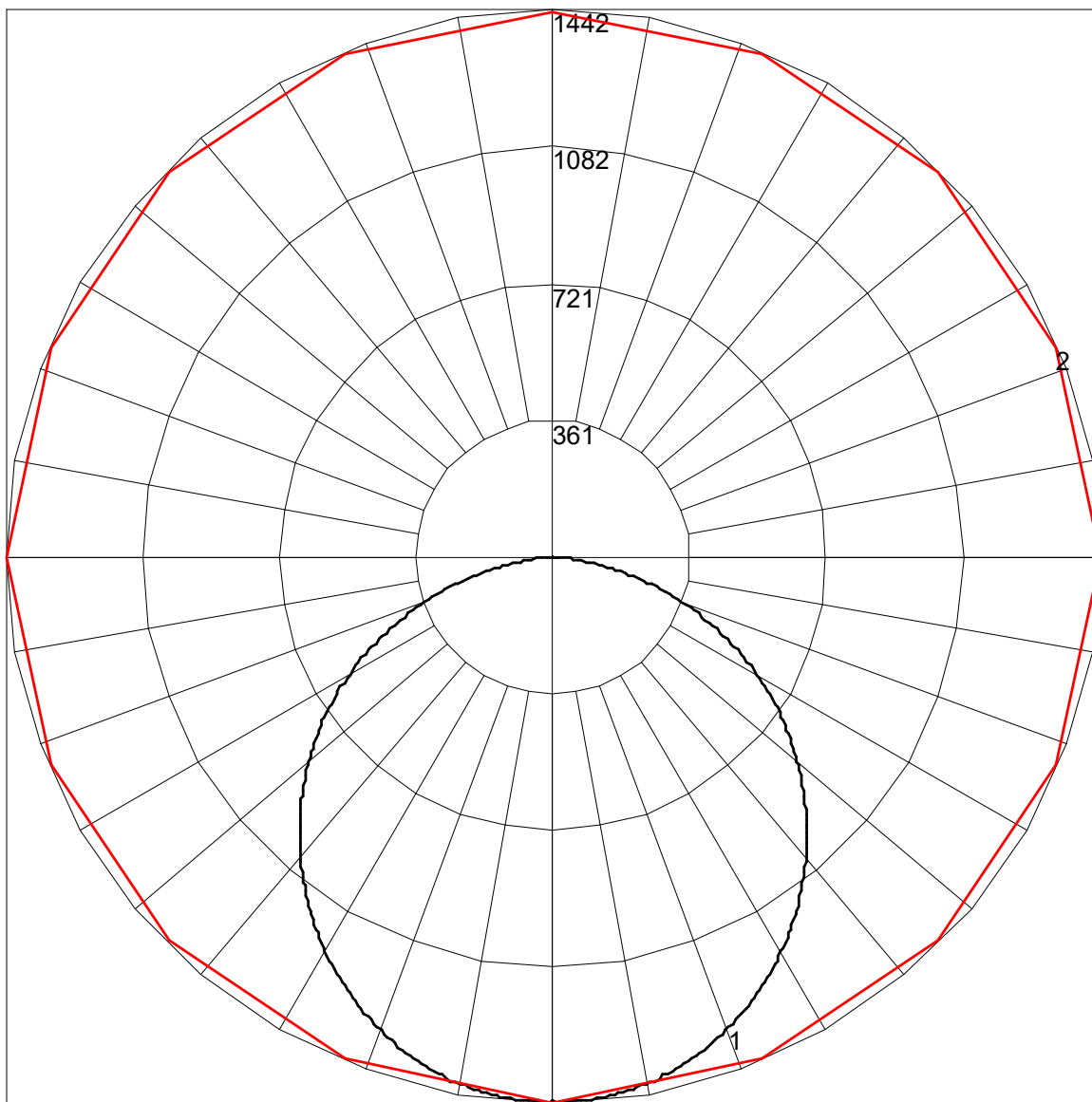
4H	2H	17.6	19.0	18.0	19.4	19.7	17.7	19.1	18.1	19.4
	3H	19.8	20.9	20.2	21.3	21.7	19.6	20.8	20.1	21.2
	4H	20.6	21.7	21.1	22.1	22.5	20.3	21.4	20.8	21.8
	6H	21.3	22.2	21.8	22.7	23.1	20.8	21.7	21.2	22.2
	8H	21.5	22.4	22.0	22.9	23.3	20.9	21.7	21.3	22.2
	12H	21.7	22.5	22.2	23.0	23.4	20.9	21.7	21.4	22.2

8H	4H	20.9	21.8	21.4	22.2	22.7	20.7	21.5	21.1	22.0
	6H	21.7	22.4	22.2	22.9	23.4	21.2	21.9	21.7	22.4
	8H	22.0	22.7	22.5	23.2	23.7	21.3	22.0	21.8	22.5
	12H	22.3	22.8	22.8	23.3	23.9	21.4	21.9	21.9	22.5

12H	4H	20.9	21.7	21.4	22.2	22.6	20.7	21.5	21.2	22.0
	6H	21.8	22.4	22.3	22.9	23.4	21.3	21.9	21.8	22.4
	8H	22.1	22.7	22.6	23.2	23.7	21.4	22.0	21.9	22.5

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 1442.375 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.)