

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AP-14-L40-830-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-L40-830-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	3865
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	128
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	4147	4130	4185
55	3992	3974	4024
65	3776	3766	3683
75	3477	3239	2977
85	2799	1447	700

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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	1380.429	1380.429	1380.429	1380.429	1380.429
0.5	1386.415	1379.681	1375.940	1381.177	1383.422
1.0	1385.666	1380.429	1376.688	1380.429	1384.170
1.5	1385.666	1379.681	1375.192	1381.177	1383.422
2.0	1384.918	1378.184	1375.192	1380.429	1381.177
2.5	1385.666	1377.436	1374.443	1379.681	1380.429
3.0	1384.170	1376.688	1373.695	1378.933	1381.925
3.5	1384.170	1375.192	1372.947	1377.436	1382.674
4.0	1384.170	1375.192	1372.947	1376.688	1381.177
4.5	1380.429	1373.695	1368.458	1375.940	1378.933
5.0	1378.184	1374.443	1368.458	1374.443	1378.184
5.5	1377.436	1372.199	1368.458	1373.695	1377.436
6.0	1375.940	1369.954	1365.465	1372.199	1375.192
6.5	1373.695	1368.458	1363.969	1369.206	1374.443
7.0	1372.199	1366.213	1361.724	1367.710	1371.451
7.5	1372.199	1363.969	1358.731	1364.717	1369.206
8.0	1367.710	1360.976	1358.731	1363.220	1367.710
8.5	1366.213	1360.228	1356.487	1360.228	1366.213
9.0	1361.724	1357.983	1353.494	1357.983	1365.465
9.5	1360.228	1354.990	1351.997	1354.990	1361.724
10.0	1356.487	1351.997	1349.005	1355.738	1357.235
10.5	1353.494	1348.256	1346.012	1351.997	1356.487
11.0	1351.997	1346.012	1344.515	1348.256	1355.738
11.5	1349.753	1342.271	1340.774	1346.760	1350.501
12.0	1345.264	1340.026	1335.537	1343.767	1345.264
12.5	1342.271	1336.285	1333.292	1340.026	1343.767
13.0	1337.782	1331.048	1330.300	1337.033	1339.278
13.5	1334.789	1328.803	1325.810	1334.041	1337.782
14.0	1331.048	1325.062	1322.069	1329.551	1334.789
14.5	1327.307	1319.825	1320.573	1325.810	1331.048
15.0	1324.314	1317.580	1316.084	1321.321	1326.559
15.5	1319.077	1313.091	1310.846	1318.328	1322.069
16.0	1315.336	1310.098	1307.105	1313.839	1318.328
16.5	1310.098	1304.861	1302.616	1308.602	1313.839
17.0	1306.357	1298.875	1298.127	1303.364	1310.098
17.5	1302.616	1295.134	1292.890	1298.875	1304.113
18.0	1295.882	1289.897	1289.149	1295.882	1298.127
18.5	1292.141	1286.904	1283.911	1290.645	1292.141
19.0	1287.652	1281.667	1277.926	1285.408	1288.400
19.5	1283.911	1275.681	1274.185	1281.667	1283.911
20.0	1278.674	1271.940	1268.199	1274.933	1278.674
20.5	1271.192	1266.703	1262.962	1268.199	1273.436
21.0	1265.206	1260.717	1257.724	1264.458	1268.947
21.5	1259.969	1253.235	1251.739	1259.221	1261.465
22.0	1254.731	1248.746	1245.005	1252.487	1256.228
22.5	1250.242	1242.760	1239.019	1247.998	1253.235
23.0	1244.257	1236.026	1234.530	1242.012	1247.998
23.5	1236.775	1230.789	1228.544	1237.523	1239.767
24.0	1231.537	1226.300	1222.559	1230.789	1233.782
24.5	1225.552	1219.566	1218.818	1225.552	1228.544
25.0	1220.314	1213.580	1211.336	1218.818	1222.559
25.5	1213.580	1208.343	1204.602	1212.084	1215.825
26.0	1206.098	1200.861	1199.365	1206.098	1210.588
26.5	1199.365	1193.379	1193.379	1200.113	1204.602

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CANDELA TABULATION - (Cont.)

27.0	1194.127	1188.142	1187.393	1194.875	1197.868
27.5	1186.645	1180.660	1180.660	1188.142	1193.379
28.0	1177.667	1173.926	1172.429	1181.408	1183.652
28.5	1172.429	1168.688	1165.696	1174.674	1176.919
29.0	1165.696	1161.206	1159.710	1167.192	1173.178
29.5	1158.214	1155.221	1152.976	1160.458	1163.451
30.0	1149.235	1146.991	1145.494	1152.228	1158.214
30.5	1143.998	1139.509	1138.012	1146.242	1149.983
31.0	1138.760	1132.027	1130.530	1138.760	1141.005
31.5	1130.530	1124.545	1122.300	1131.278	1136.516
32.0	1123.796	1117.063	1115.566	1124.545	1127.537
32.5	1114.070	1108.084	1107.336	1115.566	1119.307
33.0	1107.336	1100.602	1099.854	1107.336	1113.322
33.5	1100.602	1093.120	1092.372	1100.602	1106.588
34.0	1091.624	1086.386	1084.890	1094.617	1097.609
34.5	1081.149	1077.408	1076.660	1085.638	1090.127
35.0	1075.163	1070.674	1068.430	1078.904	1082.645
35.5	1068.430	1062.444	1060.948	1070.674	1075.163
36.0	1060.948	1054.214	1052.717	1061.696	1065.437
36.5	1051.969	1045.235	1045.235	1053.466	1057.207
37.0	1042.243	1036.257	1037.753	1045.235	1048.228
37.5	1034.012	1028.027	1028.027	1036.257	1039.998
38.0	1027.279	1019.048	1019.797	1027.279	1029.523
38.5	1017.552	1011.566	1012.315	1019.048	1022.041
39.0	1007.077	1003.336	1003.336	1010.818	1013.811
39.5	998.847	993.610	994.358	1002.588	1006.329
40.0	989.120	985.379	986.876	993.610	998.099
40.5	983.135	976.401	977.897	983.883	990.617
41.0	972.660	967.423	968.171	976.401	979.394
41.5	963.682	959.941	959.941	968.171	971.912
42.0	955.451	950.214	949.466	957.696	962.185
42.5	946.473	939.739	941.236	947.969	952.459
43.0	935.250	932.257	932.257	939.739	944.228
43.5	927.020	922.531	921.782	930.013	935.250
44.0	918.041	914.300	913.552	921.034	926.272
44.5	909.063	905.322	904.574	912.056	916.545
45.0	899.336	895.595	895.595	903.077	907.567
45.5	889.610	886.617	885.869	893.351	897.092
46.0	880.631	875.394	876.142	884.372	886.617
46.5	871.653	865.667	867.912	875.394	878.387
47.0	861.178	857.437	857.437	865.667	867.164
47.5	851.452	847.711	848.459	855.193	857.437
48.0	841.725	837.984	838.732	845.466	846.962
48.5	831.998	829.006	828.257	835.739	838.732
49.0	823.768	819.279	818.531	826.761	828.257
49.5	812.545	809.552	808.804	816.286	817.783
50.0	803.567	799.078	800.574	806.560	808.804
50.5	793.840	789.351	790.099	796.833	798.329
51.0	782.617	778.876	779.624	786.358	788.603
51.5	772.891	769.150	769.150	778.128	778.876
52.0	763.164	758.675	760.171	766.905	767.653
52.5	753.437	748.948	749.696	756.430	758.675
53.0	743.037	738.997	738.847	746.255	748.200
53.5	731.740	729.046	729.271	735.930	738.024
54.0	722.163	719.619	719.694	726.502	727.699
54.5	712.735	708.695	709.144	716.401	718.347

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55.0	702.186	698.669	699.043	706.301	707.872
55.5	691.337	688.045	688.718	695.976	697.996
56.0	682.059	677.271	678.393	685.052	687.820
56.5	671.210	667.095	668.292	674.577	676.074
57.0	660.361	656.471	657.593	664.551	664.776
57.5	650.111	646.894	647.268	653.553	653.403
58.0	640.310	635.895	637.017	642.629	642.704
58.5	629.311	625.121	626.169	631.331	631.855
59.0	618.387	614.946	615.918	620.632	618.986
59.5	608.661	603.797	605.219	609.708	607.015
60.0	597.587	593.921	595.043	598.186	597.064
60.5	585.915	582.848	584.045	587.113	584.943
61.0	575.590	571.774	573.420	575.890	572.747
61.5	565.041	561.449	563.095	564.068	560.926
62.0	554.042	550.750	552.022	552.097	550.002
62.5	543.118	539.826	541.472	539.976	537.208
63.0	532.120	528.828	530.773	528.080	525.162
63.5	522.468	518.203	519.700	516.183	513.564
64.0	511.021	507.878	509.300	504.811	501.893
64.5	500.247	497.329	498.376	493.363	489.772
65.0	489.398	485.881	488.200	481.317	477.352
65.5	478.399	475.631	476.828	469.346	465.306
66.0	468.598	465.605	466.054	457.824	453.634
66.5	458.572	455.055	454.906	445.478	440.765
67.0	447.049	444.506	443.458	433.881	429.542
67.5	436.126	434.330	432.310	422.509	418.768
68.0	425.651	423.631	420.788	410.986	407.096
68.5	415.027	412.707	409.789	399.165	394.601
69.0	404.926	402.307	399.165	386.745	383.153
69.5	394.601	391.832	387.493	374.773	371.107
70.0	384.425	381.507	375.746	363.101	358.687
70.5	373.576	370.808	363.700	350.756	346.716
71.0	361.830	360.258	351.804	338.860	334.520
71.5	350.981	349.260	339.907	326.514	321.726
72.0	340.207	338.336	328.385	314.244	309.456
72.5	328.909	327.637	316.489	301.599	297.110
73.0	318.209	316.938	304.443	289.553	285.064
73.5	307.435	306.463	292.397	277.807	272.644
74.0	297.035	296.138	280.799	265.910	260.374
74.5	286.860	285.738	268.903	253.789	248.627
75.0	276.011	274.515	257.082	241.743	236.282
75.5	265.761	263.591	245.110	229.697	223.712
76.0	255.136	252.517	233.513	217.502	211.366
76.5	244.287	242.192	221.991	205.755	199.545
77.0	233.887	231.718	210.244	194.083	187.424
77.5	224.086	220.794	198.497	182.037	175.378
78.0	213.910	209.496	186.975	170.290	163.332
78.5	203.810	198.348	175.902	158.618	151.211
79.0	193.709	187.424	164.305	146.946	139.390
79.5	183.085	176.351	153.082	135.275	127.867
80.0	173.283	165.352	141.784	123.902	116.644
80.5	163.332	154.279	130.711	112.679	105.721
81.0	153.306	143.505	119.862	102.578	94.572
81.5	143.729	132.656	108.788	91.879	84.172
82.0	133.853	121.732	97.939	80.282	73.623
82.5	123.827	110.958	87.165	69.807	63.747

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CANDELA TABULATION - (Cont.)

83.0	113.652	100.109	77.514	59.931	53.870
83.5	103.701	89.634	67.039	50.728	44.368
84.0	93.974	79.683	57.088	41.600	35.390
84.5	84.322	69.657	47.735	32.771	26.561
85.0	74.820	59.632	38.682	24.466	18.705
85.5	65.168	50.204	30.078	17.508	13.093
86.0	55.891	41.226	22.745	12.270	9.876
86.5	47.062	32.247	16.760	8.978	7.108
87.0	38.607	24.765	11.822	7.033	6.060
87.5	30.975	18.705	8.305	5.761	5.387
88.0	24.092	13.617	6.210	5.686	4.788
88.5	17.882	8.904	5.911	5.986	4.190
89.0	13.019	5.387	3.816	5.611	3.591
89.5	8.679	3.292	2.843	4.714	2.469
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-L40-830-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-L40-830-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-L40-830-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	502.72	N.A.	13.00
0-30	1063.13	N.A.	27.50
0-40	1734.73	N.A.	44.90
0-60	3055.31	N.A.	79.10
0-80	3806.56	N.A.	98.50
0-90	3865.03	N.A.	100.00
10-90	3734.56	N.A.	96.60
20-40	1232.01	N.A.	31.90
20-50	1925.47	N.A.	49.80
40-70	1800.2	N.A.	46.60
60-80	751.26	N.A.	19.40
70-80	271.63	N.A.	7.00
80-90	58.47	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	3865.03	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	130.47
10-20	372.25
20-30	560.42
30-40	671.59
40-50	693.45
50-60	627.12
60-70	479.62
70-80	271.63
80-90	58.47
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-L40-830-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	118	118	118	118	115	115	115	115	110	110	110	105	105	105	101	101	101	99
1	108	103	99	95	105	101	97	93	97	93	91	93	90	88	89	87	85	83
2	98	90	83	77	95	88	82	76	84	79	75	81	77	73	78	74	71	69
3	89	79	71	64	87	77	70	64	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	54	66	59	53	64	57	52	61	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	69	56	47	41	67	55	47	41	53	46	40	52	45	40	50	44	40	37
7	64	51	42	36	63	50	42	36	48	41	36	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	54	42	34	29	41	34	29	40	33	28	39	33	28	27
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

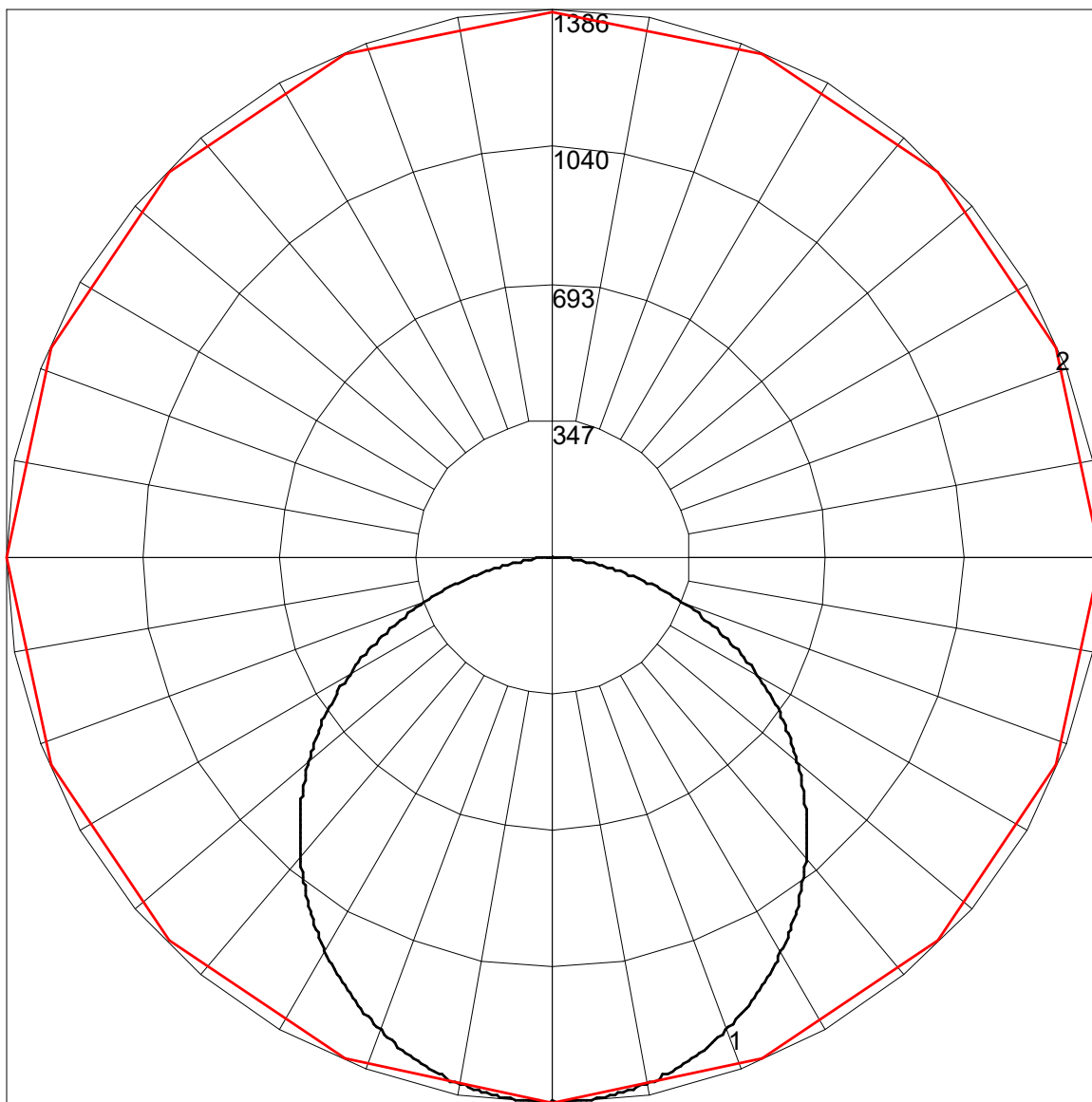
IES INDOOR REPORT
PHOTOMETRIC FILENAME : AP-14-L40-830-DIM-UNV_.IES

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	17.0	18.6	17.3	18.9	19.2	17.0	18.7	17.4	19.0	19.3
	3H	18.9	20.4	19.2	20.7	21.0	18.8	20.3	19.2	20.6	21.0
	4H	19.6	21.0	20.0	21.4	21.7	19.4	20.8	19.8	21.1	21.5
	6H	20.2	21.5	20.6	21.8	22.2	19.7	21.0	20.1	21.4	21.8
	8H	20.4	21.6	20.8	22.0	22.4	19.8	21.0	20.2	21.4	21.8
	12H	20.5	21.7	20.9	22.1	22.5	19.8	21.0	20.2	21.3	21.8
4H	2H	17.6	19.0	18.0	19.4	19.7	17.7	19.1	18.1	19.4	19.8
	3H	19.8	20.9	20.2	21.3	21.7	19.6	20.8	20.1	21.2	21.6
	4H	20.6	21.7	21.1	22.1	22.5	20.3	21.4	20.8	21.8	22.3
	6H	21.3	22.2	21.8	22.7	23.1	20.8	21.7	21.2	22.2	22.6
	8H	21.5	22.4	22.0	22.9	23.3	20.9	21.7	21.3	22.2	22.6
	12H	21.7	22.5	22.2	23.0	23.4	20.9	21.7	21.4	22.1	22.6
8H	4H	20.9	21.8	21.4	22.2	22.7	20.7	21.5	21.1	22.0	22.4
	6H	21.7	22.4	22.2	22.9	23.4	21.2	21.9	21.7	22.4	22.9
	8H	22.0	22.7	22.5	23.2	23.7	21.3	22.0	21.8	22.5	22.9
	12H	22.3	22.8	22.8	23.3	23.9	21.4	21.9	21.9	22.4	23.0
12H	4H	20.9	21.7	21.4	22.2	22.6	20.7	21.5	21.2	22.0	22.4
	6H	21.8	22.4	22.3	22.9	23.4	21.3	21.9	21.8	22.4	22.9
	8H	22.1	22.7	22.6	23.2	23.7	21.4	22.0	21.9	22.5	23.0

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 1386.415 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.)