



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : APC-22-L40-850-DIM-UNV\_.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] GEN FROM 14972499.01  
 [TESTLAB] UL Verification Services Inc.  
 [ISSUE DATE] 2023-10-24  
 [TEST DATE] 9/20/2023  
 [MANUFAC] WILLIAMS INDOOR  
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.  
 [LUMCAT] APC-22-L40-850-DIM-UNV  
 [LUMINAIRE] RECESSED 2X2 ARCH LED LUMINAIRE  
 [MORE] W/CENTER FIN  
 [LAMP] LED  
 [\_SEARCH\_SOURCETYPE] LED  
 [\_SEARCH\_APPLICATION] Indoor, Architectural, Direct-Indirect  
 [\_SEARCH\_MOUNTING] Recessed

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3968
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
Total Luminaire Watts	36.1
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)	1.80 ft
Luminous Width (90-270)	1.87 ft
Luminous Height	0.00 ft

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4196	4144	4186
55	4067	3983	4052
65	3818	3700	3753
75	3345	3126	3177
85	2007	1824	1926

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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	1425.347	1425.347	1425.347	1425.347	1425.347
0.5	1422.579	1425.347	1426.731	1426.731	1426.731
1.0	1422.579	1426.731	1426.731	1426.731	1426.731
1.5	1421.195	1425.347	1425.347	1425.347	1425.347
2.0	1419.812	1425.347	1425.347	1425.347	1423.963
2.5	1419.812	1423.963	1425.347	1425.347	1423.963
3.0	1418.428	1422.579	1423.963	1423.963	1423.963
3.5	1418.428	1422.579	1422.579	1422.579	1422.579
4.0	1417.044	1421.195	1421.195	1421.195	1422.579
4.5	1415.660	1419.812	1419.812	1421.195	1419.812
5.0	1414.276	1417.044	1418.428	1419.812	1419.812
5.5	1411.509	1415.660	1417.044	1418.428	1417.044
6.0	1408.741	1414.276	1415.660	1417.044	1415.660
6.5	1407.357	1411.509	1412.892	1414.276	1415.660
7.0	1405.973	1410.125	1411.509	1412.892	1412.892
7.5	1403.206	1405.973	1408.741	1410.125	1411.509
8.0	1400.438	1404.589	1407.357	1408.741	1408.741
8.5	1397.670	1401.822	1404.589	1405.973	1407.357
9.0	1394.903	1399.054	1401.822	1404.589	1404.589
9.5	1392.135	1397.670	1399.054	1401.822	1401.822
10.0	1389.367	1394.903	1396.286	1399.054	1399.054
10.5	1386.600	1390.751	1393.519	1396.286	1396.286
11.0	1383.417	1387.983	1390.751	1393.519	1394.903
11.5	1380.511	1385.216	1387.983	1390.751	1392.135
12.0	1377.190	1382.310	1383.832	1387.983	1389.367
12.5	1374.422	1378.573	1380.649	1385.216	1386.600
13.0	1371.377	1375.114	1377.882	1381.341	1382.863
13.5	1367.364	1370.547	1374.422	1378.020	1379.127
14.0	1363.074	1367.226	1370.270	1374.007	1375.529
14.5	1358.508	1363.766	1366.534	1370.132	1371.377
15.0	1355.048	1359.477	1362.383	1365.842	1367.226
15.5	1351.865	1354.772	1358.369	1361.829	1363.490
16.0	1347.299	1350.343	1354.218	1357.262	1358.785
16.5	1343.147	1346.192	1350.066	1352.557	1354.633
17.0	1337.612	1342.594	1345.085	1347.852	1349.513
17.5	1333.045	1338.027	1340.656	1342.594	1344.116
18.0	1328.755	1332.769	1335.536	1337.612	1338.996
18.5	1323.359	1327.787	1330.831	1331.800	1333.184
19.0	1318.653	1322.943	1325.573	1326.541	1327.925
19.5	1313.257	1317.823	1320.176	1320.868	1323.220
20.0	1308.828	1312.980	1315.056	1314.779	1317.408
20.5	1303.431	1307.444	1309.659	1309.105	1311.734
21.0	1298.173	1301.771	1303.985	1303.431	1305.784
21.5	1292.637	1295.959	1298.311	1297.896	1299.695
22.0	1286.410	1290.700	1292.084	1291.669	1293.745
22.5	1280.598	1285.026	1285.857	1285.442	1287.932
23.0	1274.924	1279.214	1279.768	1279.353	1282.120
23.5	1269.527	1272.710	1273.956	1272.710	1276.308
24.0	1263.577	1267.175	1267.037	1266.621	1270.219
24.5	1257.211	1261.363	1260.671	1260.671	1263.992
25.0	1251.122	1256.104	1253.890	1254.444	1257.903
25.5	1244.065	1249.739	1247.663	1247.386	1251.261
26.0	1238.530	1243.096	1241.297	1241.297	1245.034
26.5	1232.302	1236.592	1234.517	1234.793	1237.561

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**CANDELA TABULATION - (Cont.)**

27.0	1226.629	1230.780	1228.012	1227.874	1231.610
27.5	1219.571	1224.276	1220.678	1221.232	1225.660
28.0	1213.621	1217.911	1214.036	1214.313	1219.433
28.5	1206.840	1211.545	1207.255	1207.255	1212.790
29.0	1200.197	1204.626	1200.474	1200.751	1205.733
29.5	1193.140	1197.568	1193.140	1193.693	1198.537
30.0	1186.498	1191.203	1185.944	1186.913	1191.203
30.5	1179.025	1184.422	1178.886	1179.578	1184.975
31.0	1172.382	1177.641	1171.275	1171.967	1177.087
31.5	1165.463	1169.892	1164.079	1164.771	1169.200
32.0	1158.959	1162.419	1156.607	1157.022	1161.865
32.5	1151.348	1155.085	1148.857	1149.134	1155.085
33.0	1143.737	1147.335	1140.693	1141.938	1146.643
33.5	1135.849	1139.862	1132.943	1133.497	1139.170
34.0	1128.515	1131.421	1124.640	1125.471	1131.559
34.5	1120.627	1122.703	1116.476	1117.444	1122.703
35.0	1112.601	1114.538	1107.619	1108.865	1114.400
35.5	1104.851	1106.512	1098.486	1099.593	1105.959
36.0	1095.995	1097.656	1089.629	1090.598	1097.102
36.5	1086.723	1088.661	1080.496	1081.603	1088.661
37.0	1078.420	1079.527	1071.363	1072.331	1078.974
37.5	1069.425	1069.564	1062.091	1062.921	1069.702
38.0	1060.015	1060.292	1052.681	1053.650	1060.430
38.5	1050.744	1050.882	1042.856	1044.101	1050.190
39.0	1040.642	1041.057	1033.169	1034.691	1040.780
39.5	1031.785	1030.816	1023.482	1025.004	1030.125
40.0	1022.652	1021.130	1013.657	1015.179	1020.853
40.5	1011.996	1011.304	1003.832	1005.492	1011.581
41.0	1002.448	1001.894	994.007	995.529	1001.894
41.5	992.346	992.069	984.181	985.565	992.761
42.0	982.521	981.690	974.079	976.155	982.382
42.5	973.664	971.727	963.977	966.468	972.834
43.0	963.701	961.763	954.429	956.505	963.285
43.5	954.567	952.492	944.604	946.679	954.014
44.0	945.988	942.528	934.917	936.993	945.019
44.5	936.716	932.149	925.368	927.306	934.779
45.0	927.306	922.878	915.820	917.896	925.092
45.5	918.173	912.776	906.272	907.794	915.820
46.0	909.039	903.366	896.308	898.660	906.272
46.5	899.076	893.817	886.068	888.420	896.446
47.0	889.112	884.130	877.211	878.872	886.344
47.5	879.425	874.028	866.832	869.323	876.519
48.0	870.292	864.203	858.391	861.297	868.078
48.5	862.127	857.837	851.610	853.963	859.636
49.0	854.101	848.981	841.231	843.999	851.333
49.5	844.414	838.741	831.129	833.620	841.923
50.0	834.036	828.223	820.889	823.518	831.683
50.5	823.795	817.983	810.372	813.140	820.751
51.0	813.001	807.743	799.855	802.623	810.234
51.5	802.623	797.226	789.199	792.105	799.993
52.0	791.829	786.570	778.405	781.450	790.030
52.5	781.727	775.638	767.888	770.794	779.513
53.0	771.625	764.567	757.371	760.416	768.442
53.5	760.969	753.912	746.577	749.622	757.925
54.0	750.452	743.118	735.783	739.105	747.546
54.5	739.381	732.185	724.851	728.172	737.167

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**CANDELA TABULATION - (Cont.)**

55.0	729.003	720.976	713.919	717.240	726.373
55.5	718.486	710.044	702.987	706.169	715.026
56.0	707.830	698.835	692.193	695.376	704.370
56.5	697.451	687.764	680.707	684.305	693.300
57.0	686.381	676.694	669.636	672.819	682.091
57.5	675.033	665.623	658.566	661.748	671.297
58.0	663.686	654.137	647.633	650.678	659.673
58.5	652.615	642.790	636.424	639.607	648.049
59.0	641.268	631.858	625.215	628.536	635.732
59.5	630.059	620.787	613.729	617.327	624.523
60.0	618.711	609.716	602.520	606.257	612.761
60.5	607.225	598.646	591.450	594.909	600.998
61.0	596.155	587.160	580.102	583.285	589.097
61.5	584.531	575.951	568.893	571.523	577.473
62.0	572.906	564.880	557.546	559.760	565.849
62.5	561.144	553.671	546.337	547.997	554.225
63.0	549.381	542.047	534.713	536.235	542.601
63.5	538.311	530.423	523.504	524.472	530.838
64.0	527.102	518.660	512.018	512.710	519.075
64.5	515.754	507.036	500.255	500.809	507.451
65.0	504.268	495.273	488.631	488.908	495.689
65.5	492.644	483.511	477.145	476.730	483.788
66.0	481.158	471.748	465.659	464.691	472.025
66.5	469.673	459.847	453.897	452.790	460.124
67.0	457.910	448.085	441.858	440.889	448.085
67.5	446.424	436.461	429.957	428.850	436.045
68.0	434.523	424.836	417.917	416.533	424.006
68.5	422.899	412.797	406.016	404.632	411.967
69.0	411.552	400.896	393.977	392.593	399.651
69.5	399.927	389.410	381.938	380.692	387.611
70.0	388.026	377.648	369.898	368.930	375.849
70.5	376.126	366.162	357.997	357.029	363.809
71.0	364.086	354.538	346.096	345.128	351.770
71.5	352.047	343.052	334.195	333.365	339.454
72.0	340.561	331.566	322.571	321.603	327.553
72.5	328.522	319.942	310.532	309.978	315.790
73.0	316.482	308.595	298.908	298.077	304.166
73.5	304.997	297.109	287.284	286.453	292.404
74.0	293.372	285.623	275.798	275.106	280.364
74.5	282.025	274.275	264.174	263.758	268.740
75.0	270.539	262.928	252.826	252.273	256.978
75.5	259.192	251.719	241.479	240.787	245.630
76.0	247.983	240.510	230.131	229.301	233.591
76.5	236.912	229.163	218.922	217.677	221.690
77.0	225.841	217.954	207.852	205.914	209.512
77.5	214.632	206.744	196.781	194.290	197.196
78.0	203.838	195.812	185.710	182.666	185.157
78.5	192.629	184.603	174.778	171.042	172.425
79.0	181.697	173.394	163.846	159.279	159.141
79.5	170.488	162.600	153.052	147.240	144.749
80.0	159.694	151.806	142.396	134.508	132.018
80.5	148.762	141.012	131.602	121.777	123.023
81.0	137.968	130.495	121.085	111.675	114.858
81.5	127.036	120.117	110.430	103.511	106.693
82.0	116.242	109.876	100.051	95.623	98.667
82.5	105.725	99.774	89.534	87.873	90.779

**IES INDOOR REPORT**  
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**CANDELA TABULATION - (Cont.)**

83.0	95.069	89.811	79.847	80.124	83.030
83.5	84.552	79.985	71.682	72.513	75.280
84.0	74.173	70.437	64.210	65.040	67.393
84.5	64.210	61.304	56.875	57.706	59.920
85.0	54.661	52.724	49.680	50.371	52.447
85.5	46.220	44.836	42.622	43.176	45.113
86.0	38.609	37.640	35.841	36.256	37.779
86.5	31.828	30.998	29.199	29.337	30.444
87.0	25.878	24.632	22.972	22.695	23.387
87.5	20.481	18.958	16.883	16.052	16.191
88.0	15.776	13.838	11.486	9.410	8.441
88.5	11.486	9.687	7.058	4.567	3.460
89.0	7.473	6.227	3.736	2.491	2.214
89.5	4.151	3.598	1.937	1.522	1.522
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 : APC-22-L40-850-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 : APC-22-L40-850-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 : APC-22-L40-850-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	518.86	N.A.	13.10
0-30	1097.22	N.A.	27.70
0-40	1791.19	N.A.	45.10
0-60	3145.63	N.A.	79.30
0-80	3905.45	N.A.	98.40
0-90	3968.21	N.A.	100.00
10-90	3833.56	N.A.	96.60
20-40	1272.33	N.A.	32.10
20-50	1983.64	N.A.	50.00
40-70	1841.83	N.A.	46.40
60-80	759.82	N.A.	19.10
70-80	272.43	N.A.	6.90
80-90	62.76	N.A.	1.60
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	3968.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	134.65
10-20	384.21
20-30	578.36
30-40	693.97
40-50	711.30
50-60	643.13
60-70	487.40
70-80	272.43
80-90	62.76
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 : APC-22-L40-850-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	71	65	88	78	70	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43
6	70	57	48	41	68	56	47	41	54	46	41	52	46	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	47	38	33	59	46	38	32	45	38	32	44	37	32	42	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : APC-22-L40-850-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	18.7	17.4	19.0	19.3	UGR Viewed Endwise			
	3H	18.9	20.4	19.3	20.7	21.0	17.0	18.6	17.4	18.9
	4H	19.6	20.9	20.0	21.3	21.7	18.8	20.3	19.2	20.6
	6H	20.0	21.3	20.5	21.7	22.1	19.4	20.8	19.8	21.2
	8H	20.2	21.4	20.6	21.8	22.2	19.8	21.1	20.2	21.5
	12H	20.2	21.4	20.7	21.8	22.2	19.9	21.2	20.4	21.6

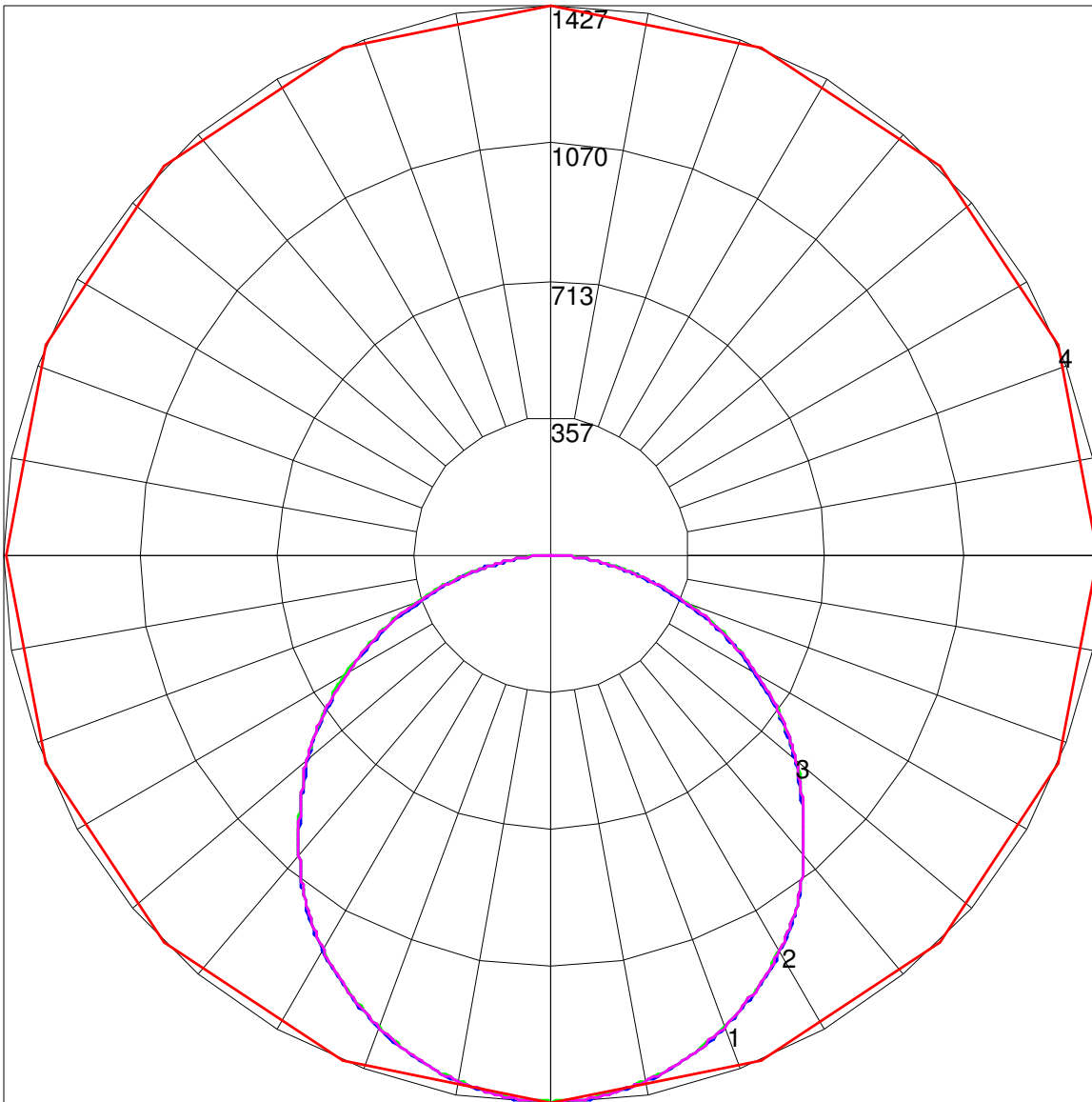
4H	2H	17.7	19.0	18.0	19.4	19.8	17.0	18.6	17.4	18.9
	3H	19.7	20.9	20.1	21.3	21.7	18.8	20.3	19.2	20.6
	4H	20.5	21.6	20.9	22.0	22.4	19.4	20.8	19.8	21.2
	6H	21.1	22.0	21.6	22.5	22.9	19.8	21.1	20.2	21.5
	8H	21.3	22.2	21.7	22.6	23.1	19.9	21.2	20.4	21.6
	12H	21.4	22.2	21.9	22.7	23.1	20.0	21.2	20.4	21.6

8H	4H	20.8	21.6	21.2	22.1	22.5	17.6	19.0	18.0	19.4
	6H	21.5	22.2	22.0	22.7	23.2	17.6	19.0	18.0	19.4
	8H	21.7	22.4	22.2	22.9	23.4	19.6	20.8	20.0	21.2
	12H	21.9	22.5	22.4	23.0	23.5	20.4	21.4	20.8	21.8

12H	4H	20.8	21.6	21.3	22.1	22.5	20.9	21.8	21.3	22.2
	6H	21.5	22.2	22.1	22.6	23.2	20.9	21.8	21.3	22.2
	8H	21.8	22.4	22.3	22.9	23.4	21.0	21.9	21.5	22.3

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 1426.731 Located At Horizontal Angle = 22.5, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)  
# 2 - Vertical Plane Through Horizontal Angles (5 - 185)  
# 3 - Vertical Plane Through Horizontal Angles (10 - 190)  
# 4 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)