



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : APC-22-L40-830-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-L40-830-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	3706
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
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	3919	3871	3910
55	3798	3720	3785
65	3566	3455	3505
75	3124	2919	2967
85	1874	1704	1798

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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	1331.220	1331.220	1331.220	1331.220	1331.220
0.5	1328.635	1331.220	1332.513	1332.513	1332.513
1.0	1328.635	1332.513	1332.513	1332.513	1332.513
1.5	1327.343	1331.220	1331.220	1331.220	1331.220
2.0	1326.051	1331.220	1331.220	1331.220	1329.928
2.5	1326.051	1329.928	1331.220	1331.220	1329.928
3.0	1324.758	1328.635	1329.928	1329.928	1329.928
3.5	1324.758	1328.635	1328.635	1328.635	1328.635
4.0	1323.466	1327.343	1327.343	1327.343	1328.635
4.5	1322.173	1326.051	1326.051	1327.343	1326.051
5.0	1320.881	1323.466	1324.758	1326.051	1326.051
5.5	1318.296	1322.173	1323.466	1324.758	1323.466
6.0	1315.711	1320.881	1322.173	1323.466	1322.173
6.5	1314.419	1318.296	1319.588	1320.881	1322.173
7.0	1313.126	1317.003	1318.296	1319.588	1319.588
7.5	1310.541	1313.126	1315.711	1317.003	1318.296
8.0	1307.956	1311.834	1314.419	1315.711	1315.711
8.5	1305.371	1309.249	1311.834	1313.126	1314.419
9.0	1302.787	1306.664	1309.249	1311.834	1311.834
9.5	1300.202	1305.371	1306.664	1309.249	1309.249
10.0	1297.617	1302.787	1304.079	1306.664	1306.664
10.5	1295.032	1298.909	1301.494	1304.079	1304.079
11.0	1292.059	1296.324	1298.909	1301.494	1302.787
11.5	1289.345	1293.739	1296.324	1298.909	1300.202
12.0	1286.243	1291.025	1292.447	1296.324	1297.617
12.5	1283.658	1287.536	1289.474	1293.739	1295.032
13.0	1280.815	1284.305	1286.889	1290.121	1291.542
13.5	1277.067	1280.039	1283.658	1287.019	1288.053
14.0	1273.060	1276.938	1279.781	1283.271	1284.692
14.5	1268.795	1273.706	1276.291	1279.652	1280.815
15.0	1265.564	1269.700	1272.414	1275.645	1276.938
15.5	1262.591	1265.306	1268.666	1271.897	1273.448
16.0	1258.326	1261.170	1264.789	1267.632	1269.054
16.5	1254.449	1257.292	1260.911	1263.238	1265.176
17.0	1249.279	1253.932	1256.258	1258.843	1260.394
17.5	1245.014	1249.667	1252.123	1253.932	1255.354
18.0	1241.008	1244.756	1247.341	1249.279	1250.572
18.5	1235.967	1240.103	1242.946	1243.851	1245.143
19.0	1231.573	1235.579	1238.035	1238.940	1240.232
19.5	1226.532	1230.797	1232.994	1233.641	1235.838
20.0	1222.396	1226.274	1228.212	1227.954	1230.410
20.5	1217.356	1221.104	1223.172	1222.655	1225.110
21.0	1212.445	1215.805	1217.873	1217.356	1219.553
21.5	1207.275	1210.377	1212.574	1212.186	1213.866
22.0	1201.459	1205.465	1206.758	1206.370	1208.309
22.5	1196.030	1200.166	1200.942	1200.554	1202.880
23.0	1190.731	1194.738	1195.255	1194.867	1197.452
23.5	1185.691	1188.663	1189.827	1188.663	1192.024
24.0	1180.133	1183.494	1183.364	1182.977	1186.337
24.5	1174.188	1178.065	1177.419	1177.419	1180.521
25.0	1168.501	1173.154	1171.086	1171.603	1174.834
25.5	1161.910	1167.209	1165.270	1165.012	1168.631
26.0	1156.740	1161.005	1159.325	1159.325	1162.815
26.5	1150.924	1154.931	1152.992	1153.250	1155.835

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**CANDELA TABULATION - (Cont.)**

27.0	1145.625	1149.502	1146.917	1146.788	1150.278
27.5	1139.034	1143.428	1140.067	1140.584	1144.720
28.0	1133.476	1137.483	1133.864	1134.122	1138.904
28.5	1127.143	1131.537	1127.531	1127.531	1132.701
29.0	1120.939	1125.075	1121.198	1121.456	1126.109
29.5	1114.348	1118.484	1114.348	1114.865	1119.388
30.0	1108.144	1112.538	1107.627	1108.532	1112.538
30.5	1101.165	1106.205	1101.036	1101.682	1106.722
31.0	1094.961	1099.872	1093.927	1094.573	1099.355
31.5	1088.499	1092.635	1087.206	1087.853	1091.988
32.0	1082.424	1085.655	1080.227	1080.615	1085.138
32.5	1075.316	1078.805	1072.989	1073.248	1078.805
33.0	1068.207	1071.568	1065.364	1066.527	1070.922
33.5	1060.840	1064.589	1058.126	1058.643	1063.942
34.0	1053.991	1056.705	1050.372	1051.147	1056.834
34.5	1046.624	1048.562	1042.746	1043.651	1048.562
35.0	1039.127	1040.937	1034.475	1035.638	1040.808
35.5	1031.890	1033.441	1025.944	1026.978	1032.924
36.0	1023.618	1025.169	1017.673	1018.577	1024.652
36.5	1014.959	1016.768	1009.143	1010.177	1016.768
37.0	1007.204	1008.238	1000.612	1001.517	1007.721
37.5	998.803	998.932	991.953	992.729	999.062
38.0	990.014	990.273	983.164	984.069	990.402
38.5	981.355	981.484	973.988	975.151	980.838
39.0	971.920	972.308	964.941	966.363	972.049
39.5	963.648	962.744	955.894	957.315	962.098
40.0	955.118	953.697	946.717	948.139	953.438
40.5	945.166	944.520	937.541	939.092	944.779
41.0	936.249	935.732	928.365	929.786	935.732
41.5	926.814	926.555	919.188	920.481	927.201
42.0	917.637	916.862	909.753	911.692	917.508
42.5	909.366	907.556	900.319	902.645	908.590
43.0	900.060	898.251	891.401	893.339	899.672
43.5	891.530	889.591	882.224	884.163	891.013
44.0	883.517	880.286	873.177	875.116	882.612
44.5	874.857	870.592	864.259	866.069	873.048
45.0	866.069	861.933	855.341	857.280	864.001
45.5	857.539	852.498	846.424	847.845	855.341
46.0	849.008	843.709	837.118	839.315	846.424
46.5	839.703	834.791	827.554	829.751	837.247
47.0	830.397	825.744	819.282	820.833	827.812
47.5	821.350	816.310	809.589	811.915	818.636
48.0	812.820	807.133	801.705	804.419	810.752
48.5	805.194	801.188	795.372	797.569	802.868
49.0	797.698	792.916	785.679	788.263	795.113
49.5	788.651	783.352	776.244	778.570	786.325
50.0	778.958	773.530	766.680	769.135	776.761
50.5	769.394	763.965	756.857	759.442	766.550
51.0	759.313	754.401	747.034	749.619	756.728
51.5	749.619	744.579	737.083	739.797	747.164
52.0	739.538	734.627	727.001	729.845	737.858
52.5	730.103	724.417	717.179	719.893	728.035
53.0	720.668	714.077	707.356	710.200	717.696
53.5	710.717	704.125	697.275	700.119	707.873
54.0	700.894	694.044	687.194	690.296	698.180
54.5	690.554	683.834	676.984	680.086	688.487

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**CANDELA TABULATION - (Cont.)**

55.0	680.861	673.365	666.773	669.875	678.405
55.5	671.038	663.155	656.563	659.536	667.807
56.0	661.087	652.686	646.482	649.455	657.856
56.5	651.393	642.346	635.755	639.115	647.516
57.0	641.054	632.007	625.415	628.388	637.047
57.5	630.456	621.667	615.076	618.048	626.966
58.0	619.858	610.940	604.865	607.709	616.109
58.5	609.518	600.342	594.396	597.369	605.253
59.0	598.920	590.131	583.928	587.029	593.750
59.5	588.451	579.792	573.200	576.561	583.281
60.0	577.853	569.452	562.731	566.221	572.296
60.5	567.126	559.113	552.392	555.623	561.310
61.0	556.786	548.385	541.794	544.766	550.195
61.5	545.930	537.916	531.325	533.781	539.338
62.0	535.073	527.577	520.727	522.795	528.482
62.5	524.087	517.108	510.258	511.809	517.625
63.0	513.101	506.251	499.402	500.823	506.768
63.5	502.762	495.395	488.933	489.837	495.783
64.0	492.293	484.409	478.205	478.852	484.797
64.5	481.695	473.553	467.220	467.737	473.940
65.0	470.968	462.567	456.363	456.622	462.955
65.5	460.111	451.581	445.636	445.248	451.839
66.0	449.384	440.595	434.908	434.004	440.854
66.5	438.657	429.480	423.923	422.889	429.739
67.0	427.671	418.494	412.678	411.774	418.494
67.5	416.943	407.638	401.563	400.529	407.250
68.0	405.828	396.781	390.319	389.027	396.006
68.5	394.972	385.537	379.204	377.911	384.761
69.0	384.374	374.422	367.960	366.667	373.259
69.5	373.517	363.695	356.715	355.552	362.014
70.0	362.402	352.709	345.471	344.566	351.029
70.5	351.287	341.981	334.356	333.451	339.784
71.0	340.043	331.125	323.241	322.336	328.540
71.5	328.799	320.398	312.126	311.350	317.037
72.0	318.071	309.670	301.269	300.365	305.922
72.5	306.827	298.814	290.025	289.508	294.936
73.0	295.583	288.216	279.169	278.393	284.080
73.5	284.855	277.488	268.312	267.537	273.094
74.0	273.999	266.761	257.585	256.938	261.850
74.5	263.401	256.163	246.728	246.340	250.993
75.0	252.673	245.565	236.130	235.613	240.007
75.5	242.075	235.096	225.532	224.886	229.409
76.0	231.606	224.627	214.934	214.158	218.165
76.5	221.267	214.029	204.465	203.302	207.050
77.0	210.927	203.560	194.126	192.316	195.676
77.5	200.459	193.092	183.786	181.460	184.174
78.0	190.377	182.881	173.446	170.603	172.929
78.5	179.909	172.412	163.236	159.746	161.039
79.0	169.698	161.944	153.026	148.761	148.631
79.5	159.229	151.863	142.945	137.516	135.190
80.0	149.148	141.781	132.993	125.626	123.299
80.5	138.938	131.700	122.912	113.735	114.899
81.0	128.857	121.878	113.089	104.300	107.273
81.5	118.647	112.184	103.137	96.675	99.648
82.0	108.566	102.620	93.444	89.308	92.151
82.5	98.743	93.185	83.621	82.070	84.785

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

83.0	88.791	83.880	74.574	74.833	77.547
83.5	78.969	74.703	66.949	67.724	70.309
84.0	69.275	65.786	59.970	60.745	62.942
84.5	59.970	57.255	53.120	53.895	55.963
85.0	51.052	49.242	46.399	47.045	48.984
85.5	43.168	41.875	39.807	40.324	42.134
86.0	36.059	35.155	33.474	33.862	35.284
86.5	29.726	28.951	27.271	27.400	28.434
87.0	24.169	23.006	21.455	21.196	21.842
87.5	19.128	17.707	15.768	14.992	15.122
88.0	14.734	12.924	10.727	8.789	7.884
88.5	10.727	9.047	6.591	4.265	3.231
89.0	6.979	5.816	3.490	2.326	2.068
89.5	3.877	3.360	1.809	1.422	1.422
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-L40-830-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 : APC-22-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 : APC-22-L40-830-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	484.59	N.A.	13.10
0-30	1024.76	N.A.	27.70
0-40	1672.9	N.A.	45.10
0-60	2937.9	N.A.	79.30
0-80	3647.54	N.A.	98.40
0-90	3706.15	N.A.	100.00
10-90	3580.4	N.A.	96.60
20-40	1188.31	N.A.	32.10
20-50	1852.64	N.A.	50.00
40-70	1720.2	N.A.	46.40
60-80	709.65	N.A.	19.10
70-80	254.44	N.A.	6.90
80-90	58.61	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	3706.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	125.76
10-20	358.83
20-30	540.17
30-40	648.14
40-50	664.33
50-60	600.66
60-70	455.21
70-80	254.44
80-90	58.61
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-L40-830-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	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-L40-830-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

X=2H	Y=2H	16.8	18.5	17.2	18.8	19.1	UGR Viewed Endwise			
	3H	18.7	20.2	19.1	20.5	20.8	16.8	18.4	17.2	18.7
	4H	19.4	20.7	19.8	21.1	21.5	18.6	20.1	19.0	20.4
	6H	19.8	21.1	20.3	21.5	21.9	19.2	20.6	19.6	21.0
	8H	20.0	21.2	20.4	21.6	22.0	19.6	20.9	20.0	21.3
	12H	20.0	21.2	20.5	21.6	22.0	19.7	21.0	20.2	21.3

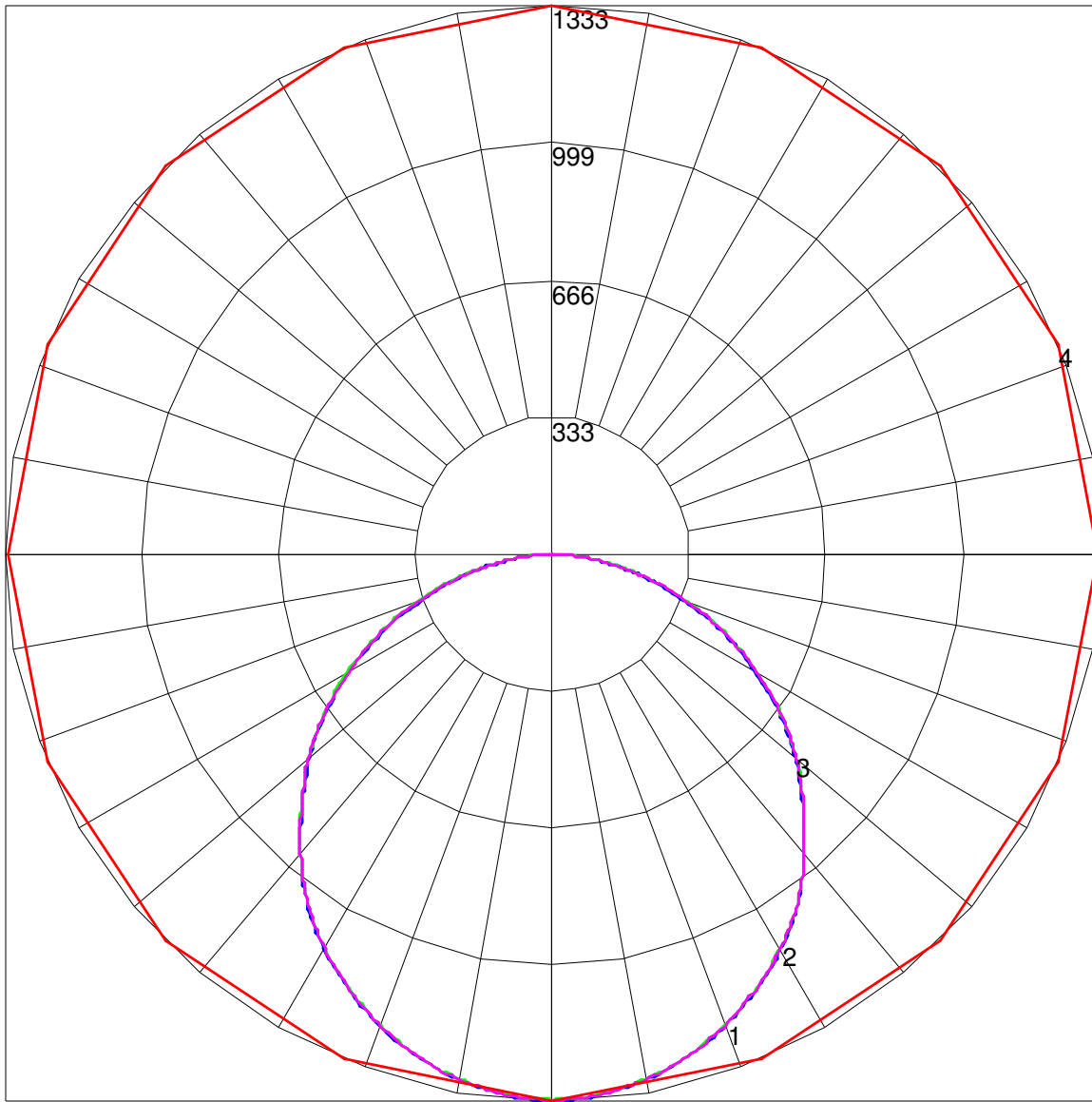
4H	2H	17.5	18.8	17.8	19.2	19.6	19.8	21.0	20.2	21.3
	3H	19.5	20.7	19.9	21.1	21.5	17.4	18.8	17.8	19.2
	4H	20.3	21.4	20.7	21.8	22.2	19.4	20.6	19.8	21.0
	6H	20.9	21.8	21.4	22.3	22.7	20.2	21.2	20.6	21.6
	8H	21.1	22.0	21.5	22.4	22.9	20.7	21.6	21.1	22.0
	12H	21.2	22.0	21.7	22.5	22.9	20.8	21.7	21.3	22.1

8H	4H	20.6	21.4	21.0	21.9	22.3	20.9	21.7	21.4	22.2
	6H	21.3	22.0	21.8	22.5	23.0	20.4	21.3	20.9	21.8
	8H	21.5	22.2	22.0	22.7	23.2	21.1	21.8	21.6	22.3
	12H	21.7	22.3	22.2	22.8	23.3	21.3	21.9	21.8	22.4

12H	4H	20.6	21.4	21.1	21.8	22.3	21.4	22.0	21.9	22.5
	6H	21.3	22.0	21.9	22.4	23.0	20.5	21.3	21.0	21.7
	8H	21.6	22.2	22.1	22.7	23.2	21.1	21.8	21.6	22.2

Maximum UGR = 23.3

## POLAR GRAPH



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Calculations based on published IES Methods and recommendations, values rounded for display purposes.  
Results derived from content of manufacturers photometric file.