



IES INDOOR REPORT

PHOTOMETRIC FILENAME : APC-22-L40-835-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-L40-835-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	3744
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	104
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	3959	3910	3949
55	3837	3757	3823
65	3602	3490	3541
75	3155	2949	2997
85	1893	1721	1817

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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	1344.667	1344.667	1344.667	1344.667	1344.667
0.5	1342.056	1344.667	1345.973	1345.973	1345.973
1.0	1342.056	1345.973	1345.973	1345.973	1345.973
1.5	1340.751	1344.667	1344.667	1344.667	1344.667
2.0	1339.445	1344.667	1344.667	1344.667	1343.362
2.5	1339.445	1343.362	1344.667	1344.667	1343.362
3.0	1338.140	1342.056	1343.362	1343.362	1343.362
3.5	1338.140	1342.056	1342.056	1342.056	1342.056
4.0	1336.834	1340.751	1340.751	1340.751	1342.056
4.5	1335.529	1339.445	1339.445	1340.751	1339.445
5.0	1334.223	1336.834	1338.140	1339.445	1339.445
5.5	1331.612	1335.529	1336.834	1338.140	1336.834
6.0	1329.001	1334.223	1335.529	1336.834	1335.529
6.5	1327.696	1331.612	1332.918	1334.223	1335.529
7.0	1326.390	1330.307	1331.612	1332.918	1332.918
7.5	1323.779	1326.390	1329.001	1330.307	1331.612
8.0	1321.168	1325.085	1327.696	1329.001	1329.001
8.5	1318.557	1322.474	1325.085	1326.390	1327.696
9.0	1315.946	1319.863	1322.474	1325.085	1325.085
9.5	1313.335	1318.557	1319.863	1322.474	1322.474
10.0	1310.724	1315.946	1317.252	1319.863	1319.863
10.5	1308.113	1312.030	1314.641	1317.252	1317.252
11.0	1305.110	1309.419	1312.030	1314.641	1315.946
11.5	1302.369	1306.808	1309.419	1312.030	1313.335
12.0	1299.236	1304.066	1305.502	1309.419	1310.724
12.5	1296.625	1300.541	1302.499	1306.808	1308.113
13.0	1293.753	1297.277	1299.888	1303.152	1304.588
13.5	1289.967	1292.969	1296.625	1300.019	1301.063
14.0	1285.920	1289.836	1292.708	1296.233	1297.669
14.5	1281.611	1286.572	1289.183	1292.578	1293.753
15.0	1278.348	1282.525	1285.267	1288.531	1289.836
15.5	1275.345	1278.087	1281.481	1284.745	1286.311
16.0	1271.037	1273.909	1277.564	1280.436	1281.872
16.5	1267.120	1269.992	1273.648	1275.998	1277.956
17.0	1261.898	1266.598	1268.948	1271.559	1273.126
17.5	1257.590	1262.290	1264.770	1266.598	1268.034
18.0	1253.543	1257.329	1259.940	1261.898	1263.204
18.5	1248.452	1252.629	1255.501	1256.415	1257.721
19.0	1244.013	1248.060	1250.540	1251.454	1252.760
19.5	1238.921	1243.230	1245.449	1246.102	1248.321
20.0	1234.744	1238.660	1240.619	1240.358	1242.838
20.5	1229.652	1233.438	1235.527	1235.005	1237.485
21.0	1224.691	1228.086	1230.175	1229.652	1231.872
21.5	1219.469	1222.603	1224.822	1224.430	1226.128
22.0	1213.595	1217.642	1218.947	1218.556	1220.514
22.5	1208.112	1212.289	1213.073	1212.681	1215.031
23.0	1202.759	1206.806	1207.328	1206.937	1209.548
23.5	1197.668	1200.670	1201.845	1200.670	1204.065
24.0	1192.054	1195.448	1195.318	1194.926	1198.320
24.5	1186.049	1189.965	1189.312	1189.312	1192.446
25.0	1180.304	1185.004	1182.915	1183.438	1186.701
25.5	1173.646	1178.999	1177.041	1176.780	1180.435
26.0	1168.424	1172.732	1171.035	1171.035	1174.560
26.5	1162.550	1166.597	1164.638	1164.899	1167.510

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CANDELA TABULATION - (Cont.)

27.0	1157.197	1161.114	1158.503	1158.372	1161.897
27.5	1150.539	1154.978	1151.583	1152.106	1156.283
28.0	1144.925	1148.972	1145.317	1145.578	1150.408
28.5	1138.528	1142.967	1138.920	1138.920	1144.142
29.0	1132.262	1136.440	1132.523	1132.784	1137.484
29.5	1125.604	1129.781	1125.604	1126.126	1130.695
30.0	1119.337	1123.776	1118.815	1119.729	1123.776
30.5	1112.288	1117.379	1112.157	1112.810	1117.901
31.0	1106.021	1110.982	1104.977	1105.630	1110.460
31.5	1099.494	1103.671	1098.188	1098.841	1103.019
32.0	1093.358	1096.622	1091.139	1091.530	1096.100
32.5	1086.178	1089.703	1083.828	1084.089	1089.703
33.0	1078.997	1082.392	1076.125	1077.300	1081.739
33.5	1071.556	1075.342	1068.815	1069.337	1074.689
34.0	1064.637	1067.378	1060.982	1061.765	1067.509
34.5	1057.196	1059.154	1053.279	1054.193	1059.154
35.0	1049.624	1051.451	1044.924	1046.099	1051.321
35.5	1042.313	1043.879	1036.308	1037.352	1043.357
36.0	1033.958	1035.524	1027.952	1028.866	1035.002
36.5	1025.211	1027.038	1019.336	1020.380	1027.038
37.0	1017.378	1018.422	1010.720	1011.634	1017.900
37.5	1008.892	1009.023	1001.973	1002.756	1009.153
38.0	1000.015	1000.276	993.095	994.009	1000.406
38.5	991.268	991.398	983.826	985.001	990.746
39.0	981.738	982.129	974.688	976.124	981.868
39.5	973.382	972.468	965.549	966.985	971.816
40.0	964.766	963.330	956.280	957.716	963.069
40.5	954.714	954.061	947.011	948.578	954.322
41.0	945.706	945.183	937.742	939.178	945.183
41.5	936.176	935.914	928.473	929.779	936.567
42.0	926.906	926.123	918.943	920.901	926.776
42.5	918.551	916.724	909.413	911.763	917.768
43.0	909.152	907.324	900.405	902.363	908.760
43.5	900.535	898.577	891.136	893.094	900.013
44.0	892.441	889.177	881.997	883.955	891.527
44.5	883.694	879.386	872.989	874.817	881.867
45.0	874.817	870.639	863.981	865.940	872.728
45.5	866.201	861.109	854.973	856.409	863.981
46.0	857.584	852.232	845.574	847.793	854.973
46.5	848.185	843.224	835.913	838.132	845.704
47.0	838.785	834.085	827.558	829.124	836.174
47.5	829.647	824.555	817.766	820.116	826.905
48.0	821.030	815.286	809.803	812.544	818.941
48.5	813.328	809.281	803.406	805.625	810.978
49.0	805.756	800.926	793.615	796.226	803.145
49.5	796.617	791.265	784.085	786.434	794.267
50.0	786.826	781.343	774.424	776.904	784.607
50.5	777.165	771.682	764.502	767.113	774.293
51.0	766.982	762.022	754.580	757.191	764.371
51.5	757.191	752.100	744.528	747.269	754.711
52.0	747.008	742.047	734.345	737.217	745.311
52.5	737.478	731.734	724.423	727.165	735.389
53.0	727.948	721.290	714.501	717.373	724.945
53.5	717.896	711.238	704.318	707.190	715.023
54.0	707.974	701.055	694.135	697.269	705.232
54.5	697.530	690.741	683.822	686.955	695.441

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CANDELA TABULATION - (Cont.)

55.0	687.738	680.167	673.509	676.642	685.258
55.5	677.817	669.853	663.195	666.198	674.553
56.0	667.764	659.279	653.012	656.015	664.501
56.5	657.973	648.835	642.176	645.571	654.057
57.0	647.529	638.391	631.732	634.735	643.482
57.5	636.824	627.946	621.288	624.291	633.299
58.0	626.119	617.111	610.975	613.847	622.333
58.5	615.675	606.406	600.400	603.403	611.367
59.0	604.970	596.092	589.826	592.959	599.748
59.5	594.395	585.648	578.990	582.384	589.173
60.0	583.690	575.204	568.416	571.940	578.076
60.5	572.854	564.760	557.972	561.235	566.980
61.0	562.410	553.925	547.266	550.269	555.752
61.5	551.444	543.350	536.692	539.172	544.786
62.0	540.478	532.906	525.987	528.076	533.820
62.5	529.381	522.331	515.412	516.979	522.854
63.0	518.284	511.365	504.446	505.882	511.887
63.5	507.840	500.399	493.871	494.785	500.791
64.0	497.266	489.302	483.036	483.689	489.694
64.5	486.561	478.336	471.939	472.461	478.728
65.0	475.725	467.239	460.973	461.234	467.631
65.5	464.759	456.142	450.137	449.745	456.404
66.0	453.923	445.046	439.301	438.388	445.307
66.5	443.087	433.818	428.205	427.160	434.079
67.0	431.991	422.722	416.847	415.933	422.722
67.5	421.155	411.755	405.619	404.575	411.364
68.0	409.928	400.789	394.262	392.956	400.006
68.5	398.961	389.431	383.034	381.729	388.648
69.0	388.256	378.204	371.676	370.371	377.029
69.5	377.290	367.368	360.319	359.144	365.671
70.0	366.063	356.272	348.961	348.047	354.574
70.5	354.835	345.436	337.733	336.820	343.216
71.0	343.478	334.470	326.506	325.592	331.859
71.5	332.120	323.634	315.279	314.495	320.240
72.0	321.284	312.798	304.313	303.399	309.012
72.5	309.926	301.832	292.955	292.432	297.916
73.0	298.568	291.127	281.988	281.205	286.949
73.5	287.733	280.291	271.022	270.239	275.853
74.0	276.766	269.456	260.187	259.534	264.495
74.5	266.061	258.751	249.220	248.829	253.528
75.0	255.226	248.045	238.515	237.993	242.432
75.5	244.521	237.471	227.810	227.157	231.727
76.0	233.946	226.896	217.105	216.322	220.369
76.5	223.502	216.191	206.530	205.355	209.141
77.0	213.058	205.617	196.086	194.259	197.653
77.5	202.483	195.042	185.642	183.292	186.034
78.0	192.300	184.729	175.198	172.326	174.676
78.5	181.726	174.154	164.885	161.360	162.666
79.0	171.412	163.579	154.571	150.263	150.133
79.5	160.838	153.396	144.389	138.905	136.556
80.0	150.655	143.214	134.336	126.895	124.545
80.5	140.341	133.031	124.153	114.884	116.059
81.0	130.159	123.109	114.231	105.354	108.357
81.5	119.845	113.318	104.179	97.652	100.654
82.0	109.662	103.657	94.388	90.210	93.082
82.5	99.740	94.127	84.466	82.899	85.641

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CANDELA TABULATION - (Cont.)

83.0	89.688	84.727	75.327	75.589	78.330
83.5	79.766	75.458	67.625	68.408	71.019
84.0	69.975	66.450	60.575	61.359	63.578
84.5	60.575	57.834	53.656	54.439	56.528
85.0	51.567	49.740	46.868	47.520	49.479
85.5	43.604	42.298	40.209	40.732	42.559
86.0	36.424	35.510	33.813	34.204	35.640
86.5	30.027	29.243	27.546	27.677	28.721
87.0	24.413	23.238	21.671	21.410	22.063
87.5	19.321	17.885	15.927	15.144	15.274
88.0	14.883	13.055	10.836	8.877	7.964
88.5	10.836	9.139	6.658	4.308	3.264
89.0	7.050	5.875	3.525	2.350	2.089
89.5	3.917	3.394	1.828	1.436	1.436
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-L40-835-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 : APC-22-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 : APC-22-L40-835-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	489.49	N.A.	13.10
0-30	1035.11	N.A.	27.70
0-40	1689.8	N.A.	45.10
0-60	2967.57	N.A.	79.30
0-80	3684.39	N.A.	98.40
0-90	3743.59	N.A.	100.00
10-90	3616.56	N.A.	96.60
20-40	1200.31	N.A.	32.10
20-50	1871.36	N.A.	50.00
40-70	1737.58	N.A.	46.40
60-80	716.81	N.A.	19.10
70-80	257.01	N.A.	6.90
80-90	59.21	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	3743.59	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	127.03
10-20	362.46
20-30	545.62
30-40	654.69
40-50	671.04
50-60	606.73
60-70	459.81
70-80	257.01
80-90	59.21
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-L40-835-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	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-L40-835-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

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	21.4

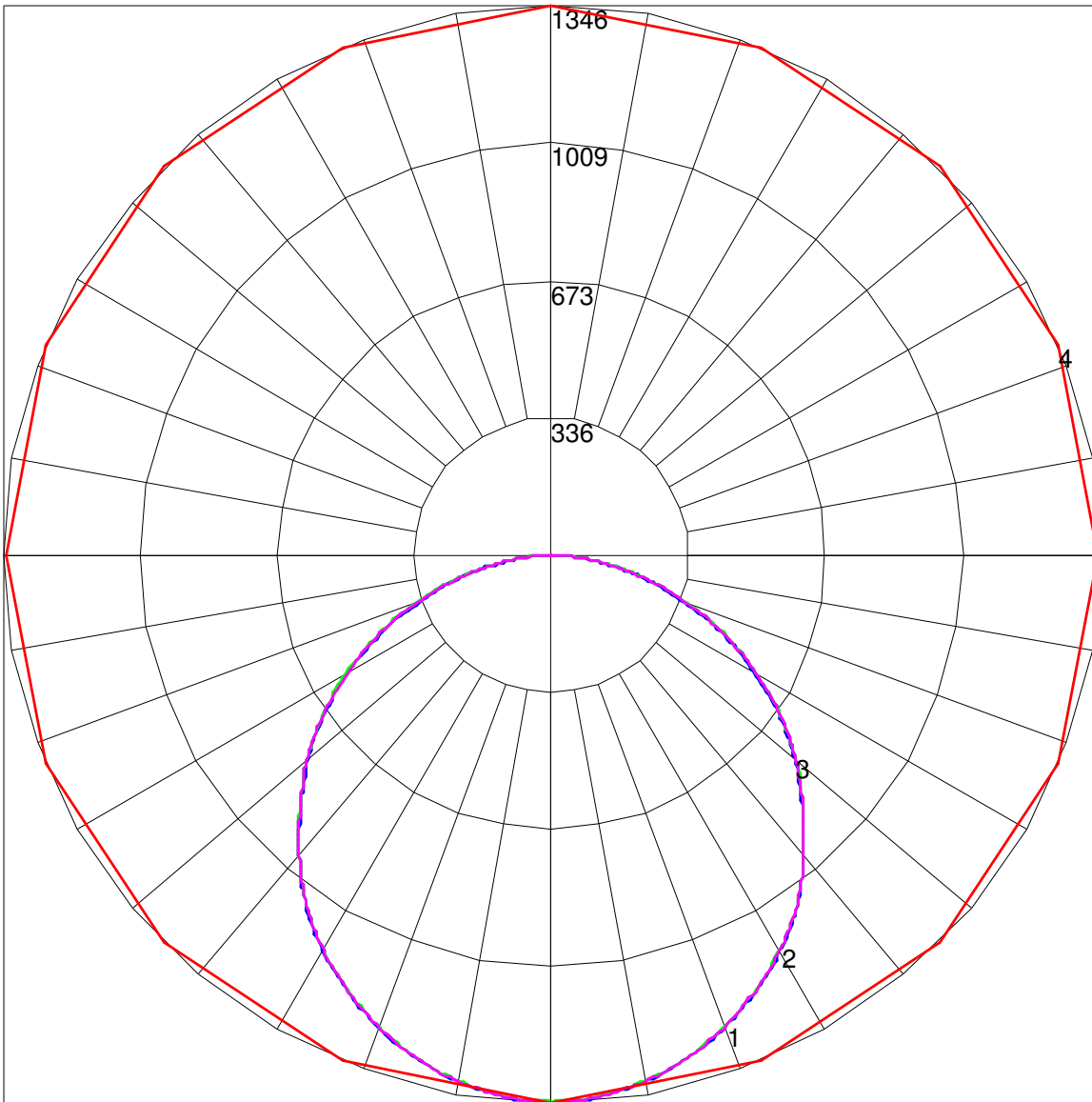
4H	2H	17.5	18.8	17.8	19.2	19.6	19.8	21.0	20.2	21.4
	3H	19.5	20.7	19.9	21.1	21.5	17.4	18.8	17.8	19.2
	4H	20.3	21.4	20.7	21.8	22.2	19.4	20.6	19.8	21.0
	6H	20.9	21.8	21.4	22.3	22.7	20.2	21.2	20.6	21.6
	8H	21.1	22.0	21.5	22.4	22.9	20.7	21.6	21.1	22.0
	12H	21.2	22.0	21.7	22.5	22.9	20.8	21.7	21.3	22.1

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	21.9	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



Maximum Candela = 1345.973 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.)