



IES INDOOR REPORT

PHOTOMETRIC FILENAME : APC-22-L50-830-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] GEN FROM 14972499.01
 [TESTLAB] UL Verification Services Inc.
 [ISSUEDATE] 2023-10-24
 [TESTDATE] 9/20/2023
 [MANUFAC] WILLIAMS INDOOR
 [OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
 [LUMCAT] APC-22-L50-830-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	4662
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	45.7
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	4930	4869	4918
55	4778	4679	4760
65	4485	4346	4409
75	3929	3672	3732
85	2358	2143	2262

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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	1674.441	1674.441	1674.441	1674.441	1674.441
0.5	1671.190	1674.441	1676.067	1676.067	1676.067
1.0	1671.190	1676.067	1676.067	1676.067	1676.067
1.5	1669.564	1674.441	1674.441	1674.441	1674.441
2.0	1667.938	1674.441	1674.441	1674.441	1672.815
2.5	1667.938	1672.815	1674.441	1674.441	1672.815
3.0	1666.313	1671.190	1672.815	1672.815	1672.815
3.5	1666.313	1671.190	1671.190	1671.190	1671.190
4.0	1664.687	1669.564	1669.564	1669.564	1671.190
4.5	1663.061	1667.938	1667.938	1669.564	1667.938
5.0	1661.436	1664.687	1666.313	1667.938	1667.938
5.5	1658.184	1663.061	1664.687	1666.313	1664.687
6.0	1654.933	1661.436	1663.061	1664.687	1663.061
6.5	1653.307	1658.184	1659.810	1661.436	1663.061
7.0	1651.682	1656.559	1658.184	1659.810	1659.810
7.5	1648.430	1651.682	1654.933	1656.559	1658.184
8.0	1645.179	1650.056	1653.307	1654.933	1654.933
8.5	1641.928	1646.805	1650.056	1651.682	1653.307
9.0	1638.676	1643.553	1646.805	1650.056	1650.056
9.5	1635.425	1641.928	1643.553	1646.805	1646.805
10.0	1632.174	1638.676	1640.302	1643.553	1643.553
10.5	1628.922	1633.799	1637.051	1640.302	1640.302
11.0	1625.183	1630.548	1633.799	1637.051	1638.676
11.5	1621.769	1627.297	1630.548	1633.799	1635.425
12.0	1617.868	1623.883	1625.671	1630.548	1632.174
12.5	1614.616	1619.493	1621.932	1627.297	1628.922
13.0	1611.040	1615.429	1618.681	1622.745	1624.533
13.5	1606.326	1610.065	1614.616	1618.843	1620.144
14.0	1601.286	1606.163	1609.739	1614.129	1615.917
14.5	1595.921	1602.099	1605.350	1609.577	1611.040
15.0	1591.857	1597.059	1600.473	1604.537	1606.163
15.5	1588.118	1591.532	1595.759	1599.823	1601.774
16.0	1582.753	1586.330	1590.882	1594.458	1596.246
16.5	1577.876	1581.453	1586.005	1588.931	1591.369
17.0	1571.374	1577.226	1580.152	1583.404	1585.354
17.5	1566.009	1571.861	1574.950	1577.226	1579.014
18.0	1560.969	1565.684	1568.935	1571.374	1572.999
18.5	1554.629	1559.831	1563.408	1564.546	1566.171
19.0	1549.102	1554.142	1557.230	1558.368	1559.994
19.5	1542.762	1548.127	1550.890	1551.703	1554.467
20.0	1537.560	1542.437	1544.875	1544.550	1547.639
20.5	1531.220	1535.934	1538.535	1537.885	1540.974
21.0	1525.042	1529.269	1531.870	1531.220	1533.983
21.5	1518.539	1522.441	1525.205	1524.717	1526.830
22.0	1511.224	1516.263	1517.889	1517.401	1519.840
22.5	1504.396	1509.598	1510.574	1510.086	1513.012
23.0	1497.731	1502.770	1503.421	1502.933	1506.184
23.5	1491.391	1495.130	1496.593	1495.130	1499.356
24.0	1484.400	1488.627	1488.464	1487.977	1492.203
24.5	1476.922	1481.799	1480.986	1480.986	1484.888
25.0	1469.769	1475.622	1473.021	1473.671	1477.735
25.5	1461.478	1468.144	1465.705	1465.380	1469.932
26.0	1454.976	1460.340	1458.227	1458.227	1462.616
26.5	1447.660	1452.700	1450.261	1450.586	1453.838

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CANDELA TABULATION - (Cont.)

27.0	1440.995	1445.872	1442.620	1442.458	1446.847
27.5	1432.704	1438.231	1434.004	1434.655	1439.857
28.0	1425.713	1430.753	1426.201	1426.526	1432.541
28.5	1417.748	1423.275	1418.235	1418.235	1424.738
29.0	1409.944	1415.147	1410.270	1410.595	1416.447
29.5	1401.654	1406.856	1401.654	1402.304	1407.994
30.0	1393.850	1399.378	1393.200	1394.338	1399.378
30.5	1385.072	1391.412	1384.909	1385.722	1392.062
31.0	1377.268	1383.446	1375.968	1376.781	1382.796
31.5	1369.140	1374.342	1367.514	1368.327	1373.529
32.0	1361.499	1365.564	1358.736	1359.224	1364.913
32.5	1352.558	1356.948	1349.632	1349.957	1356.948
33.0	1343.617	1347.844	1340.041	1341.504	1347.031
33.5	1334.351	1339.065	1330.937	1331.587	1338.252
34.0	1325.735	1329.149	1321.183	1322.158	1329.311
34.5	1316.468	1318.907	1311.591	1312.729	1318.907
35.0	1307.040	1309.315	1301.187	1302.650	1309.153
35.5	1297.936	1299.887	1290.458	1291.758	1299.236
36.0	1287.531	1289.482	1280.053	1281.191	1288.832
36.5	1276.639	1278.915	1269.324	1270.624	1278.915
37.0	1266.885	1268.186	1258.595	1259.732	1267.536
37.5	1256.319	1256.481	1247.703	1248.678	1256.644
38.0	1245.264	1245.589	1236.648	1237.786	1245.752
38.5	1234.372	1234.535	1225.106	1226.569	1233.722
39.0	1222.505	1222.992	1213.726	1215.514	1222.667
39.5	1212.100	1210.962	1202.346	1204.135	1210.150
40.0	1201.371	1199.583	1190.804	1192.592	1199.258
40.5	1188.853	1188.040	1179.262	1181.213	1188.366
41.0	1177.636	1176.986	1167.720	1169.508	1176.986
41.5	1165.769	1165.444	1156.177	1157.803	1166.256
42.0	1154.226	1153.251	1144.310	1146.748	1154.064
42.5	1143.822	1141.546	1132.442	1135.369	1142.847
43.0	1132.117	1129.841	1121.225	1123.664	1131.630
43.5	1121.388	1118.949	1109.683	1112.122	1120.738
44.0	1111.309	1107.245	1098.303	1100.742	1110.171
44.5	1100.417	1095.052	1087.086	1089.362	1098.141
45.0	1089.362	1084.160	1075.869	1078.308	1086.761
45.5	1078.633	1072.293	1064.652	1066.440	1075.869
46.0	1067.903	1061.238	1052.947	1055.711	1064.652
46.5	1056.198	1050.021	1040.917	1043.681	1053.110
47.0	1044.494	1038.641	1030.513	1032.464	1041.242
47.5	1033.114	1026.774	1018.320	1021.247	1029.700
48.0	1022.385	1015.232	1008.404	1011.818	1019.783
48.5	1012.793	1007.753	1000.438	1003.202	1009.867
49.0	1003.364	997.349	988.245	991.497	1000.113
49.5	991.984	985.319	976.378	979.304	989.058
50.0	979.792	972.964	964.348	967.437	977.028
50.5	967.762	960.934	951.993	955.244	964.185
51.0	955.082	948.904	939.638	942.889	951.830
51.5	942.889	936.549	927.120	930.534	939.800
52.0	930.209	924.031	914.440	918.016	928.096
52.5	918.342	911.189	902.085	905.499	915.740
53.0	906.474	898.183	889.730	893.306	902.735
53.5	893.956	885.666	877.050	880.626	890.380
54.0	881.601	872.985	864.369	868.271	878.187
54.5	868.596	860.143	851.526	855.428	865.995

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CANDELA TABULATION - (Cont.)

55.0	856.403	846.975	838.684	842.585	853.315
55.5	844.048	834.132	825.841	829.580	839.984
56.0	831.531	820.964	813.161	816.900	827.467
56.5	819.338	807.959	799.668	803.894	814.461
57.0	806.333	794.953	786.662	790.401	801.293
57.5	793.002	781.948	773.657	777.396	788.613
58.0	779.672	768.455	760.814	764.391	774.957
58.5	766.666	755.124	747.646	751.385	761.302
59.0	753.336	742.281	734.478	738.380	746.833
59.5	740.168	729.276	720.985	725.212	733.665
60.0	726.838	716.271	707.817	712.206	719.847
60.5	713.344	703.265	694.812	698.876	706.029
61.0	700.339	689.772	681.481	685.220	692.048
61.5	686.683	676.604	668.313	671.402	678.393
62.0	673.028	663.599	654.983	657.584	664.737
62.5	659.210	650.431	641.815	643.766	651.081
63.0	645.391	636.775	628.159	629.948	637.426
63.5	632.386	623.120	614.991	616.129	623.607
64.0	619.218	609.302	601.498	602.311	609.789
64.5	605.888	595.646	587.680	588.330	596.134
65.0	592.395	581.828	574.024	574.350	582.315
65.5	578.739	568.009	560.531	560.044	568.335
66.0	565.246	554.191	547.038	545.900	554.516
66.5	551.753	540.210	533.220	531.920	540.536
67.0	537.935	526.392	519.077	517.939	526.392
67.5	524.441	512.737	505.096	503.795	512.249
68.0	510.461	499.081	490.953	489.327	498.106
68.5	496.805	484.938	476.972	475.346	483.962
69.0	483.475	470.957	462.829	461.203	469.494
69.5	469.819	457.464	448.685	447.222	455.350
70.0	455.838	443.646	434.542	433.404	441.532
70.5	441.857	430.153	420.561	419.423	427.389
71.0	427.714	416.497	406.580	405.442	413.246
71.5	413.571	403.004	392.600	391.624	398.777
72.0	400.078	389.511	378.944	377.806	384.796
72.5	385.934	375.855	364.801	364.150	370.978
73.0	371.791	362.525	351.145	350.170	357.322
73.5	358.298	349.032	337.489	336.514	343.504
74.0	344.642	335.539	323.996	323.183	329.361
74.5	331.312	322.208	310.341	309.853	315.705
75.0	317.819	308.877	297.010	296.360	301.887
75.5	304.488	295.710	283.680	282.867	288.557
76.0	291.320	282.542	270.349	269.374	274.413
76.5	278.315	269.211	257.181	255.718	260.432
77.0	265.310	256.043	244.176	241.900	246.127
77.5	252.142	242.875	231.170	228.244	231.658
78.0	239.461	230.032	218.165	214.589	217.515
78.5	226.293	216.865	205.322	200.933	202.559
79.0	213.451	203.697	192.479	187.115	186.952
79.5	200.283	191.016	179.799	172.971	170.045
80.0	187.602	178.336	167.282	158.015	155.089
80.5	174.760	165.656	154.601	143.059	144.522
81.0	162.079	153.301	142.246	131.192	134.931
81.5	149.237	141.108	129.729	121.600	125.339
82.0	136.556	129.078	117.536	112.334	115.910
82.5	124.201	117.211	105.181	103.230	106.644

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CANDELA TABULATION - (Cont.)

83.0	111.684	105.506	93.801	94.126	97.540
83.5	99.328	93.964	84.210	85.185	88.437
84.0	87.136	82.747	75.431	76.407	79.170
84.5	75.431	72.017	66.815	67.790	70.392
85.0	64.214	61.938	58.362	59.174	61.613
85.5	54.297	52.672	50.071	50.721	52.997
86.0	45.356	44.218	42.105	42.593	44.381
86.5	37.390	36.415	34.302	34.464	35.765
87.0	30.400	28.937	26.986	26.661	27.474
87.5	24.060	22.272	19.833	18.858	19.020
88.0	18.533	16.257	13.493	11.055	9.917
88.5	13.493	11.380	8.291	5.365	4.064
89.0	8.779	7.316	4.389	2.926	2.601
89.5	4.877	4.227	2.276	1.788	1.788
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-L50-830-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-L50-830-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-L50-830-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	609.53	N.A.	13.10
0-30	1288.97	N.A.	27.70
0-40	2104.22	N.A.	45.10
0-60	3695.36	N.A.	79.30
0-80	4587.97	N.A.	98.40
0-90	4661.69	N.A.	100.00
10-90	4503.51	N.A.	96.60
20-40	1494.69	N.A.	32.10
20-50	2330.3	N.A.	50.00
40-70	2163.71	N.A.	46.40
60-80	892.61	N.A.	19.10
70-80	320.04	N.A.	6.90
80-90	73.73	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	4661.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	158.18
10-20	451.35
20-30	679.43
30-40	815.25
40-50	835.61
50-60	755.53
60-70	572.57
70-80	320.04
80-90	73.73
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-L50-830-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-L50-830-DIM-UNV_.IES

UGR TABLE - CORRECTED

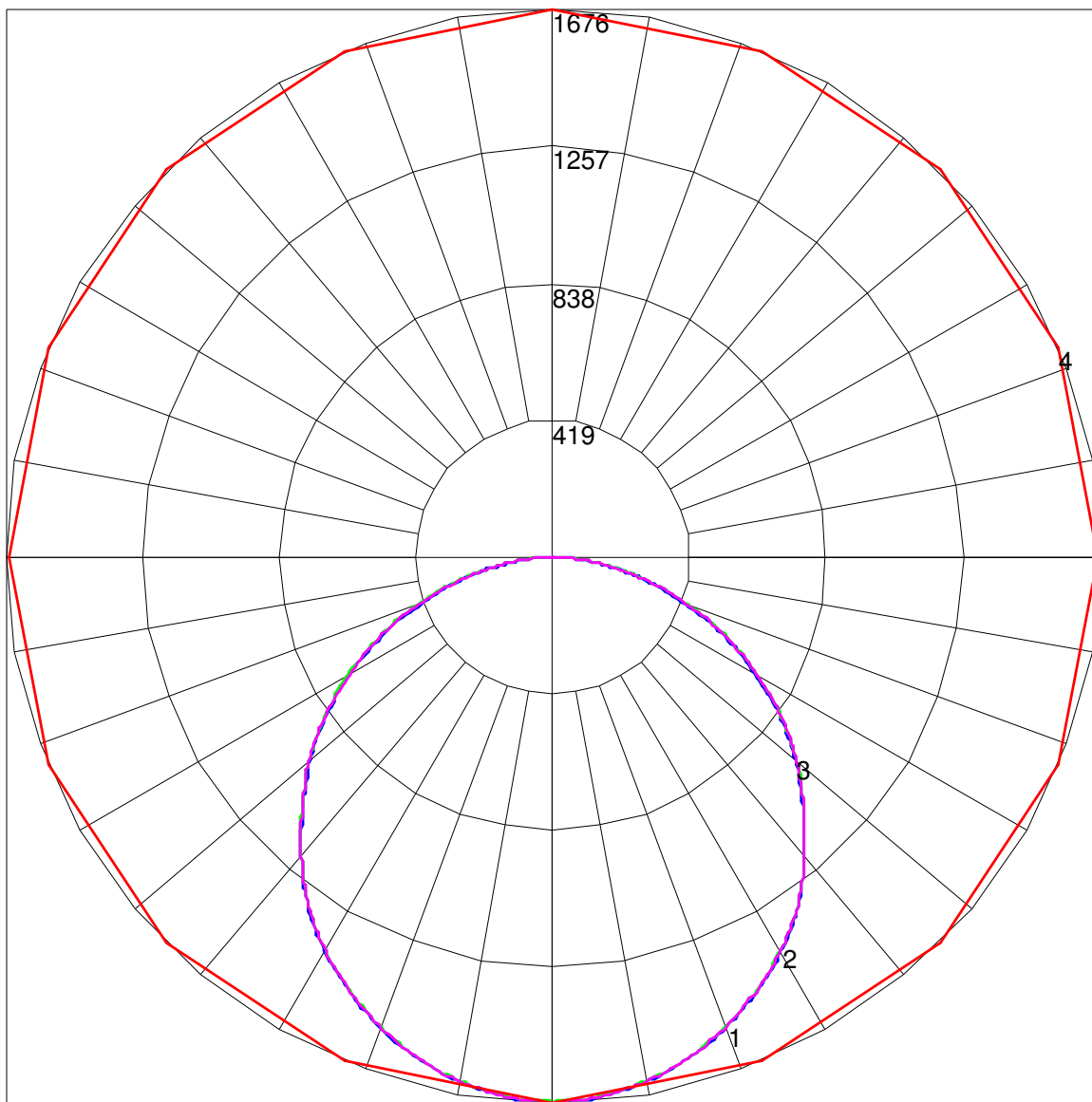
Reflectances

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	17.6	19.3	18.0	19.6	19.9	17.6	19.2	18.0	19.5	19.9
	3H	19.5	21.0	19.9	21.3	21.6	19.4	20.9	19.8	21.2	21.6
	4H	20.2	21.5	20.6	21.9	22.3	20.0	21.4	20.4	21.8	22.1
	6H	20.6	21.9	21.1	22.3	22.7	20.4	21.7	20.8	22.1	22.5
	8H	20.8	22.0	21.2	22.4	22.8	20.5	21.8	21.0	22.1	22.5
	12H	20.8	22.0	21.3	22.4	22.8	20.6	21.8	21.0	22.1	22.6
4H	2H	18.3	19.6	18.6	20.0	20.4	18.2	19.6	18.6	20.0	20.3
	3H	20.3	21.5	20.7	21.9	22.3	20.2	21.4	20.6	21.8	22.2
	4H	21.1	22.2	21.5	22.6	23.0	21.0	22.0	21.4	22.4	22.9
	6H	21.7	22.6	22.2	23.1	23.5	21.5	22.4	21.9	22.8	23.3
	8H	21.9	22.8	22.3	23.2	23.7	21.6	22.5	22.1	22.9	23.4
	12H	22.0	22.8	22.5	23.3	23.7	21.7	22.5	22.2	23.0	23.4
8H	4H	21.4	22.2	21.8	22.7	23.1	21.2	22.1	21.7	22.6	23.0
	6H	22.1	22.8	22.6	23.3	23.8	21.9	22.6	22.4	23.1	23.5
	8H	22.3	23.0	22.8	23.5	24.0	22.1	22.7	22.6	23.2	23.7
	12H	22.5	23.1	23.0	23.6	24.1	22.2	22.8	22.7	23.3	23.8
12H	4H	21.4	22.2	21.9	22.7	23.1	21.3	22.1	21.8	22.5	23.0
	6H	22.1	22.8	22.7	23.2	23.8	21.9	22.6	22.4	23.0	23.6
	8H	22.4	23.0	22.9	23.5	24.0	22.2	22.7	22.7	23.2	23.8

Maximum UGR = 24.1

POLAR GRAPH



Maximum Candela = 1676.067 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.)