



IES INDOOR REPORT

PHOTOMETRIC FILENAME : APC-24-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-24-L50-830-DIM-UNV
 [LUMINAIRE] RECESSED 2X4 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	4658
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	45.3
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)	3.80 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	2335	2306	2329
55	2263	2216	2254
65	2124	2058	2088
75	1861	1739	1768
85	1117	1015	1071

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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	1673.119	1673.119	1673.119	1673.119	1673.119
0.5	1669.870	1673.119	1674.743	1674.743	1674.743
1.0	1669.870	1674.743	1674.743	1674.743	1674.743
1.5	1668.245	1673.119	1673.119	1673.119	1673.119
2.0	1666.621	1673.119	1673.119	1673.119	1671.494
2.5	1666.621	1671.494	1673.119	1673.119	1671.494
3.0	1664.997	1669.870	1671.494	1671.494	1671.494
3.5	1664.997	1669.870	1669.870	1669.870	1669.870
4.0	1663.372	1668.245	1668.245	1668.245	1669.870
4.5	1661.748	1666.621	1666.621	1668.245	1666.621
5.0	1660.124	1663.372	1664.997	1666.621	1666.621
5.5	1656.875	1661.748	1663.372	1664.997	1663.372
6.0	1653.626	1660.124	1661.748	1663.372	1661.748
6.5	1652.002	1656.875	1658.499	1660.124	1661.748
7.0	1650.377	1655.250	1656.875	1658.499	1658.499
7.5	1647.128	1650.377	1653.626	1655.250	1656.875
8.0	1643.880	1648.753	1652.002	1653.626	1653.626
8.5	1640.631	1645.504	1648.753	1650.377	1652.002
9.0	1637.382	1642.255	1645.504	1648.753	1648.753
9.5	1634.133	1640.631	1642.255	1645.504	1645.504
10.0	1630.885	1637.382	1639.007	1642.255	1642.255
10.5	1627.636	1632.509	1635.758	1639.007	1639.007
11.0	1623.900	1629.260	1632.509	1635.758	1637.382
11.5	1620.488	1626.011	1629.260	1632.509	1634.133
12.0	1616.590	1622.600	1624.387	1629.260	1630.885
12.5	1613.341	1618.214	1620.651	1626.011	1627.636
13.0	1609.768	1614.153	1617.402	1621.463	1623.250
13.5	1605.057	1608.793	1613.341	1617.565	1618.864
14.0	1600.021	1604.894	1608.468	1612.854	1614.641
14.5	1594.661	1600.833	1604.082	1608.306	1609.768
15.0	1590.600	1595.798	1599.209	1603.270	1604.894
15.5	1586.864	1590.275	1594.498	1598.559	1600.509
16.0	1581.503	1585.077	1589.625	1593.199	1594.986
16.5	1576.630	1580.204	1584.752	1587.676	1590.112
17.0	1570.132	1575.980	1578.904	1582.153	1584.102
17.5	1564.772	1570.620	1573.706	1575.980	1577.767
18.0	1559.736	1564.447	1567.696	1570.132	1571.757
18.5	1553.401	1558.599	1562.173	1563.310	1564.934
19.0	1547.878	1552.914	1556.000	1557.137	1558.762
19.5	1541.543	1546.904	1549.665	1550.477	1553.239
20.0	1536.345	1541.218	1543.655	1543.330	1546.416
20.5	1530.010	1534.721	1537.320	1536.670	1539.756
21.0	1523.837	1528.061	1530.660	1530.010	1532.772
21.5	1517.340	1521.238	1524.000	1523.513	1525.624
22.0	1510.030	1515.066	1516.690	1516.203	1518.639
22.5	1503.208	1508.406	1509.380	1508.893	1511.817
23.0	1496.548	1501.583	1502.233	1501.746	1504.995
23.5	1490.213	1493.949	1495.411	1493.949	1498.172
24.0	1483.228	1487.451	1487.289	1486.801	1491.025
24.5	1475.756	1480.629	1479.817	1479.817	1483.715
25.0	1468.608	1474.456	1471.857	1472.507	1476.568
25.5	1460.324	1466.984	1464.547	1464.222	1468.771
26.0	1453.826	1459.187	1457.075	1457.075	1461.461
26.5	1446.517	1451.552	1449.116	1449.441	1452.689

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CANDELA TABULATION - (Cont.)

27.0	1439.857	1444.730	1441.481	1441.319	1445.704
27.5	1431.572	1437.095	1432.872	1433.522	1438.720
28.0	1424.587	1429.623	1425.075	1425.400	1431.410
28.5	1416.628	1422.151	1417.115	1417.115	1423.613
29.0	1408.831	1414.029	1409.156	1409.481	1415.328
29.5	1400.546	1405.745	1400.546	1401.196	1406.882
30.0	1392.749	1398.272	1392.100	1393.237	1398.272
30.5	1383.978	1390.313	1383.815	1384.628	1390.963
31.0	1376.181	1382.353	1374.881	1375.693	1381.704
31.5	1368.059	1373.257	1366.434	1367.247	1372.445
32.0	1360.424	1364.485	1357.663	1358.150	1363.835
32.5	1351.490	1355.876	1348.566	1348.891	1355.876
33.0	1342.556	1346.779	1338.982	1340.444	1345.967
33.5	1333.297	1338.008	1329.886	1330.535	1337.195
34.0	1324.688	1328.099	1320.139	1321.114	1328.261
34.5	1315.429	1317.865	1310.555	1311.693	1317.865
35.0	1306.007	1308.281	1300.159	1301.621	1308.119
35.5	1296.911	1298.860	1289.438	1290.738	1298.210
36.0	1286.515	1288.464	1279.042	1280.179	1287.814
36.5	1275.631	1277.905	1268.321	1269.621	1277.905
37.0	1265.885	1267.184	1257.600	1258.738	1266.535
37.5	1255.326	1255.489	1246.717	1247.692	1255.651
38.0	1244.280	1244.605	1235.671	1236.808	1244.768
38.5	1233.397	1233.560	1224.138	1225.600	1232.747
39.0	1221.539	1222.026	1212.767	1214.554	1221.701
39.5	1211.143	1210.006	1201.397	1203.183	1209.194
40.0	1200.422	1198.635	1189.863	1191.650	1198.310
40.5	1187.914	1187.102	1178.330	1180.280	1187.427
41.0	1176.706	1176.056	1166.797	1168.584	1176.056
41.5	1164.848	1164.523	1155.264	1156.888	1165.335
42.0	1153.315	1152.340	1143.406	1145.843	1153.152
42.5	1142.919	1140.645	1131.548	1134.472	1141.944
43.0	1131.223	1128.949	1120.340	1122.776	1130.736
43.5	1120.502	1118.066	1108.807	1111.243	1119.852
44.0	1110.431	1106.370	1097.436	1099.872	1109.294
44.5	1099.548	1094.187	1086.228	1088.502	1097.273
45.0	1088.502	1083.304	1075.019	1077.456	1085.903
45.5	1077.781	1071.446	1063.811	1065.598	1075.019
46.0	1067.060	1060.400	1052.115	1054.877	1063.811
46.5	1055.364	1049.192	1040.095	1042.856	1052.278
47.0	1043.669	1037.821	1029.699	1031.648	1040.420
47.5	1032.298	1025.963	1017.516	1020.440	1028.887
48.0	1021.577	1014.430	1007.607	1011.018	1018.978
48.5	1011.993	1006.958	999.648	1002.409	1009.069
49.0	1002.572	996.561	987.465	990.714	999.323
49.5	991.201	984.541	975.607	978.531	988.277
50.0	979.018	972.196	963.586	966.673	976.257
50.5	966.998	960.175	951.241	954.490	963.424
51.0	954.327	948.155	938.896	942.144	951.079
51.5	942.144	935.809	926.388	929.799	939.058
52.0	929.474	923.302	913.718	917.291	927.363
52.5	917.616	910.469	901.372	904.784	915.017
53.0	905.758	897.474	889.027	892.601	902.022
53.5	893.250	884.966	876.357	879.930	889.677
54.0	880.905	872.296	863.687	867.585	877.494
54.5	867.910	859.463	850.854	854.752	865.311

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CANDELA TABULATION - (Cont.)

55.0	855.727	846.306	838.021	841.920	852.641
55.5	843.382	833.473	825.189	828.925	839.321
56.0	830.874	820.315	812.518	816.254	826.813
56.5	818.691	807.320	799.036	803.259	813.818
57.0	805.696	794.325	786.041	789.777	800.660
57.5	792.376	781.330	773.046	776.782	787.990
58.0	779.056	767.848	760.213	763.787	774.345
58.5	766.061	754.528	747.056	750.792	760.700
59.0	752.741	741.695	733.898	737.797	746.243
59.5	739.583	728.700	720.416	724.639	733.086
60.0	726.263	715.705	707.258	711.644	719.279
60.5	712.781	702.710	694.263	698.324	705.471
61.0	699.786	689.227	680.943	684.679	691.502
61.5	686.141	676.070	667.786	670.872	677.857
62.0	672.496	663.075	654.466	657.065	664.212
62.5	658.689	649.917	641.308	643.257	650.567
63.0	644.882	636.272	627.663	629.450	636.922
63.5	631.887	622.628	614.506	615.643	623.115
64.0	618.729	608.820	601.023	601.835	609.308
64.5	605.409	595.175	587.216	587.866	595.663
65.0	591.927	581.368	573.571	573.896	581.855
65.5	578.282	567.561	560.089	559.601	567.886
66.0	564.799	553.754	546.606	545.469	554.078
66.5	551.317	539.784	532.799	531.499	540.109
67.0	537.510	525.977	518.667	517.530	525.977
67.5	524.027	512.332	504.697	503.398	511.844
68.0	510.058	498.687	490.565	488.940	497.712
68.5	496.413	484.555	476.595	474.971	483.580
69.0	483.093	470.585	462.463	460.839	469.123
69.5	469.448	457.103	448.331	446.869	454.991
70.0	455.478	443.295	434.199	433.062	441.184
70.5	441.508	429.813	420.229	419.092	427.051
71.0	427.376	416.168	406.259	405.122	412.919
71.5	413.244	402.686	392.289	391.315	398.462
72.0	399.762	389.203	378.645	377.508	384.492
72.5	385.629	375.558	364.512	363.863	370.685
73.0	371.497	362.238	350.868	349.893	357.040
73.5	358.015	348.756	337.223	336.248	343.233
74.0	344.370	335.273	323.740	322.928	329.101
74.5	331.050	321.954	310.095	309.608	315.456
75.0	317.568	308.634	296.776	296.126	301.649
75.5	304.248	295.476	283.456	282.643	288.329
76.0	291.090	282.318	270.136	269.161	274.197
76.5	278.095	268.998	256.978	255.516	260.227
77.0	265.100	255.841	243.983	241.709	245.932
77.5	251.942	242.683	230.988	228.064	231.475
78.0	239.272	229.851	217.993	214.419	217.343
78.5	226.115	216.693	205.160	200.774	202.399
79.0	213.282	203.536	192.327	186.967	186.805
79.5	200.124	190.865	179.657	172.835	169.911
80.0	187.454	178.195	167.149	157.890	154.967
80.5	174.622	165.525	154.479	142.946	144.408
81.0	161.951	153.180	142.134	131.088	134.824
81.5	149.119	140.997	129.626	121.504	125.240
82.0	136.449	128.976	117.443	112.245	115.819
82.5	124.103	117.118	105.098	103.149	106.560

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CANDELA TABULATION - (Cont.)

83.0	111.595	105.423	93.727	94.052	97.463
83.5	99.250	93.890	84.143	85.118	88.367
84.0	87.067	82.681	75.372	76.346	79.108
84.5	75.372	71.960	66.762	67.737	70.336
85.0	64.163	61.889	58.315	59.128	61.564
85.5	54.255	52.630	50.031	50.681	52.955
86.0	45.320	44.183	42.072	42.559	44.346
86.5	37.361	36.386	34.275	34.437	35.737
87.0	30.376	28.914	26.965	26.640	27.452
87.5	24.041	22.254	19.818	18.843	19.005
88.0	18.518	16.244	13.482	11.046	9.909
88.5	13.482	11.371	8.284	5.360	4.061
89.0	8.772	7.310	4.386	2.924	2.599
89.5	4.873	4.223	2.274	1.787	1.787
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-24-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-24-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-24-L50-830-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	609.05	N.A.	13.10
0-30	1287.95	N.A.	27.70
0-40	2102.56	N.A.	45.10
0-60	3692.44	N.A.	79.30
0-80	4584.34	N.A.	98.40
0-90	4658.01	N.A.	100.00
10-90	4499.95	N.A.	96.60
20-40	1493.5	N.A.	32.10
20-50	2328.46	N.A.	50.00
40-70	2162.00	N.A.	46.40
60-80	891.90	N.A.	19.10
70-80	319.78	N.A.	6.90
80-90	73.67	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	4658.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	158.06
10-20	450.99
20-30	678.90
30-40	814.61
40-50	834.95
50-60	754.93
60-70	572.12
70-80	319.78
80-90	73.67
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-24-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-24-L50-830-DIM-UNV_.IES

UGR TABLE - CORRECTED

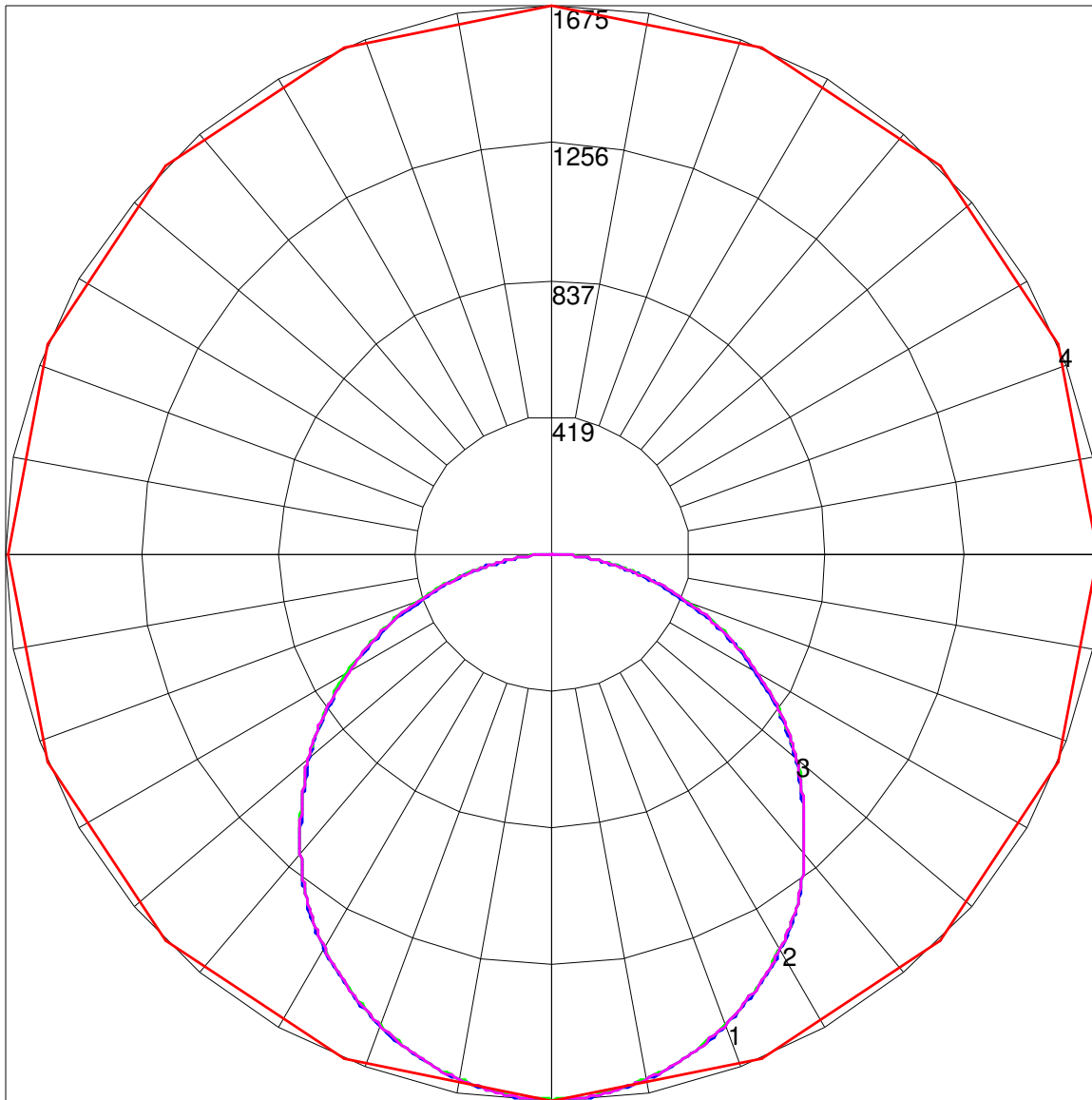
Reflectances

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	15.0	16.7	15.4	17.0	17.3	15.0	16.6	15.4	16.9	17.3
	3H	16.9	18.4	17.3	18.7	19.0	16.8	18.3	17.2	18.6	19.0
	4H	17.6	19.0	18.0	19.3	19.7	17.4	18.8	17.8	19.2	19.5
	6H	18.0	19.3	18.5	19.7	20.1	17.8	19.1	18.2	19.5	19.9
	8H	18.2	19.4	18.6	19.8	20.2	17.9	19.2	18.4	19.6	20.0
	12H	18.2	19.4	18.7	19.8	20.2	18.0	19.2	18.4	19.6	20.0
4H	2H	15.7	17.0	16.1	17.4	17.8	15.6	17.0	16.0	17.4	17.7
	3H	17.7	18.9	18.1	19.3	19.7	17.6	18.8	18.0	19.2	19.6
	4H	18.5	19.6	18.9	20.0	20.4	18.4	19.4	18.8	19.8	20.3
	6H	19.1	20.0	19.6	20.5	20.9	18.9	19.8	19.3	20.3	20.7
	8H	19.3	20.2	19.7	20.6	21.1	19.0	19.9	19.5	20.3	20.8
	12H	19.4	20.2	19.9	20.7	21.1	19.1	19.9	19.6	20.4	20.8
8H	4H	18.8	19.6	19.2	20.1	20.6	18.7	19.5	19.1	20.0	20.4
	6H	19.5	20.2	20.0	20.7	21.2	19.3	20.0	19.8	20.5	21.0
	8H	19.7	20.4	20.2	20.9	21.4	19.5	20.1	20.0	20.6	21.1
	12H	19.9	20.5	20.4	21.0	21.5	19.6	20.2	20.1	20.7	21.2
12H	4H	18.8	19.6	19.3	20.1	20.5	18.7	19.5	19.2	19.9	20.4
	6H	19.5	20.2	20.1	20.6	21.2	19.3	20.0	19.9	20.4	21.0
	8H	19.8	20.4	20.3	20.9	21.4	19.6	20.1	20.1	20.6	21.2

Maximum UGR = 21.5

POLAR GRAPH



Maximum Candela = 1674.743 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.)