



IES INDOOR REPORT

PHOTOMETRIC FILENAME : APC-24-L50-840-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-24-L50-840-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	4846
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	2429	2399	2423
55	2354	2305	2346
65	2210	2141	2172
75	1936	1809	1839
85	1162	1056	1115

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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	1740.720	1740.720	1740.720	1740.720	1740.720
0.5	1737.340	1740.720	1742.410	1742.410	1742.410
1.0	1737.340	1742.410	1742.410	1742.410	1742.410
1.5	1735.650	1740.720	1740.720	1740.720	1740.720
2.0	1733.960	1740.720	1740.720	1740.720	1739.030
2.5	1733.960	1739.030	1740.720	1740.720	1739.030
3.0	1732.269	1737.340	1739.030	1739.030	1739.030
3.5	1732.269	1737.340	1737.340	1737.340	1737.340
4.0	1730.579	1735.650	1735.650	1735.650	1737.340
4.5	1728.889	1733.960	1733.960	1735.650	1733.960
5.0	1727.199	1730.579	1732.269	1733.960	1733.960
5.5	1723.819	1728.889	1730.579	1732.269	1730.579
6.0	1720.439	1727.199	1728.889	1730.579	1728.889
6.5	1718.749	1723.819	1725.509	1727.199	1728.889
7.0	1717.059	1722.129	1723.819	1725.509	1725.509
7.5	1713.679	1717.059	1720.439	1722.129	1723.819
8.0	1710.299	1715.369	1718.749	1720.439	1720.439
8.5	1706.919	1711.989	1715.369	1717.059	1718.749
9.0	1703.539	1708.609	1711.989	1715.369	1715.369
9.5	1700.159	1706.919	1708.609	1711.989	1711.989
10.0	1696.779	1703.539	1705.229	1708.609	1708.609
10.5	1693.399	1698.469	1701.849	1705.229	1705.229
11.0	1689.512	1695.089	1698.469	1701.849	1703.539
11.5	1685.963	1691.709	1695.089	1698.469	1700.159
12.0	1681.907	1688.160	1690.019	1695.089	1696.779
12.5	1678.527	1683.597	1686.132	1691.709	1693.399
13.0	1674.809	1679.372	1682.752	1686.977	1688.836
13.5	1669.908	1673.795	1678.527	1682.921	1684.273
14.0	1664.669	1669.739	1673.457	1678.020	1679.879
14.5	1659.092	1665.514	1668.894	1673.288	1674.809
15.0	1654.867	1660.275	1663.824	1668.049	1669.739
15.5	1650.980	1654.529	1658.923	1663.148	1665.176
16.0	1645.403	1649.121	1653.853	1657.571	1659.430
16.5	1640.332	1644.050	1648.783	1651.825	1654.360
17.0	1633.572	1639.656	1642.698	1646.079	1648.107
17.5	1627.995	1634.079	1637.290	1639.656	1641.515
18.0	1622.756	1627.657	1631.037	1633.572	1635.262
18.5	1616.165	1621.573	1625.291	1626.474	1628.164
19.0	1610.419	1615.658	1618.869	1620.052	1621.742
19.5	1603.828	1609.405	1612.278	1613.123	1615.996
20.0	1598.420	1603.490	1606.025	1605.687	1608.898
20.5	1591.829	1596.730	1599.434	1598.758	1601.969
21.0	1585.407	1589.801	1592.505	1591.829	1594.702
21.5	1578.647	1582.703	1585.576	1585.069	1587.266
22.0	1571.042	1576.281	1577.971	1577.464	1579.999
22.5	1563.944	1569.352	1570.366	1569.859	1572.901
23.0	1557.015	1562.254	1562.930	1562.423	1565.803
23.5	1550.423	1554.310	1555.832	1554.310	1558.705
24.0	1543.156	1547.550	1547.381	1546.874	1551.268
24.5	1535.382	1540.452	1539.607	1539.607	1543.663
25.0	1527.946	1534.030	1531.326	1532.002	1536.227
25.5	1519.327	1526.256	1523.721	1523.383	1528.115
26.0	1512.567	1518.144	1515.947	1515.947	1520.510
26.5	1504.962	1510.201	1507.666	1508.004	1511.384

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CANDELA TABULATION - (Cont.)

27.0	1498.033	1503.103	1499.723	1499.554	1504.117
27.5	1489.414	1495.160	1490.766	1491.442	1496.850
28.0	1482.147	1487.386	1482.654	1482.992	1489.245
28.5	1473.866	1479.612	1474.373	1474.373	1481.133
29.0	1465.753	1471.162	1466.091	1466.429	1472.514
29.5	1457.134	1462.542	1457.134	1457.810	1463.725
30.0	1449.022	1454.768	1448.346	1449.529	1454.768
30.5	1439.896	1446.487	1439.727	1440.572	1447.163
31.0	1431.784	1438.206	1430.432	1431.277	1437.530
31.5	1423.334	1428.742	1421.644	1422.489	1427.897
32.0	1415.391	1419.616	1412.518	1413.025	1418.940
32.5	1406.096	1410.659	1403.054	1403.392	1410.659
33.0	1396.801	1401.195	1393.083	1394.604	1400.350
33.5	1387.168	1392.069	1383.619	1384.295	1391.224
34.0	1378.211	1381.760	1373.478	1374.492	1381.929
34.5	1368.577	1371.112	1363.507	1364.690	1371.112
35.0	1358.775	1361.141	1352.691	1354.212	1360.972
35.5	1349.311	1351.339	1341.537	1342.889	1350.663
36.0	1338.495	1340.523	1330.721	1331.904	1339.847
36.5	1327.172	1329.538	1319.567	1320.919	1329.538
37.0	1317.032	1318.384	1308.413	1309.596	1317.708
37.5	1306.047	1306.216	1297.090	1298.104	1306.385
38.0	1294.555	1294.893	1285.597	1286.780	1295.062
38.5	1283.231	1283.400	1273.598	1275.119	1282.555
39.0	1270.894	1271.401	1261.768	1263.627	1271.063
39.5	1260.078	1258.895	1249.938	1251.797	1258.050
40.0	1248.924	1247.065	1237.939	1239.798	1246.727
40.5	1235.911	1235.066	1225.940	1227.968	1235.404
41.0	1224.250	1223.574	1213.941	1215.800	1223.574
41.5	1211.913	1211.575	1201.942	1203.632	1212.420
42.0	1199.913	1198.899	1189.604	1192.139	1199.744
42.5	1189.097	1186.731	1177.267	1180.309	1188.083
43.0	1176.929	1174.563	1165.606	1168.141	1176.422
43.5	1165.775	1163.240	1153.607	1156.142	1165.099
44.0	1155.297	1151.072	1141.777	1144.312	1154.114
44.5	1143.974	1138.397	1130.116	1132.482	1141.608
45.0	1132.482	1127.074	1118.455	1120.990	1129.778
45.5	1121.328	1114.737	1106.793	1108.652	1118.455
46.0	1110.173	1103.244	1094.625	1097.498	1106.793
46.5	1098.005	1091.583	1082.119	1084.992	1094.794
47.0	1085.837	1079.753	1071.303	1073.331	1082.457
47.5	1074.007	1067.416	1058.628	1061.670	1070.458
48.0	1062.853	1055.417	1048.319	1051.868	1060.149
48.5	1052.882	1047.643	1040.038	1042.911	1049.840
49.0	1043.080	1036.827	1027.363	1030.743	1039.700
49.5	1031.250	1024.321	1015.025	1018.067	1028.208
50.0	1018.574	1011.476	1002.519	1005.730	1015.701
50.5	1006.068	998.970	989.675	993.055	1002.350
51.0	992.886	986.464	976.831	980.211	989.506
51.5	980.211	973.620	963.818	967.367	977.000
52.0	967.029	960.607	950.636	954.354	964.832
52.5	954.692	947.256	937.792	941.341	951.988
53.0	942.355	933.736	924.947	928.665	938.468
53.5	929.341	920.722	911.765	915.483	925.623
54.0	916.497	907.540	898.583	902.639	912.948
54.5	902.977	894.189	885.232	889.288	900.273

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55.0	890.302	880.500	871.881	875.937	887.091
55.5	877.458	867.149	858.530	862.417	873.233
56.0	864.445	853.460	845.348	849.235	860.220
56.5	851.770	839.939	831.320	835.714	846.700
57.0	838.249	826.419	817.800	821.687	833.010
57.5	824.391	812.899	804.280	808.167	819.828
58.0	810.533	798.872	790.929	794.647	805.632
58.5	797.013	785.014	777.240	781.127	791.436
59.0	783.155	771.663	763.551	767.607	776.395
59.5	769.466	758.143	749.523	753.917	762.706
60.0	755.608	744.622	735.834	740.397	748.340
60.5	741.580	731.102	722.314	726.539	733.975
61.0	728.060	717.075	708.456	712.343	719.441
61.5	713.864	703.386	694.767	697.978	705.245
62.0	699.668	689.866	680.909	683.613	691.049
62.5	685.303	676.177	667.220	669.248	676.853
63.0	670.938	661.980	653.023	654.882	662.656
63.5	657.417	647.784	639.334	640.517	648.291
64.0	643.728	633.419	625.307	626.152	633.926
64.5	629.870	619.223	610.942	611.618	619.730
65.0	615.843	604.858	596.746	597.084	605.365
65.5	601.647	590.493	582.719	582.212	590.831
66.0	587.620	576.127	568.691	567.508	576.465
66.5	573.592	561.593	554.326	552.974	561.931
67.0	559.227	547.228	539.623	538.440	547.228
67.5	545.200	533.032	525.089	523.737	532.525
68.0	530.666	518.836	510.386	508.696	517.822
68.5	516.470	504.133	495.852	494.162	503.119
69.0	502.612	489.599	481.148	479.458	488.077
69.5	488.415	475.571	466.445	464.924	473.374
70.0	473.881	461.206	451.742	450.559	459.009
70.5	459.347	447.179	437.208	436.025	444.306
71.0	444.644	432.983	422.674	421.491	429.603
71.5	429.941	418.956	408.140	407.126	414.562
72.0	415.914	404.929	393.943	392.760	400.028
72.5	401.211	390.732	379.240	378.564	385.662
73.0	386.507	376.874	365.044	364.030	371.466
73.5	372.480	362.847	350.848	349.834	357.101
74.0	358.284	348.820	336.821	335.976	342.398
74.5	344.426	334.962	322.625	322.118	328.202
75.0	330.399	321.104	308.766	308.090	313.837
75.5	316.541	307.414	294.908	294.063	299.978
76.0	302.851	293.725	281.050	280.036	285.275
76.5	289.331	279.867	267.361	265.840	270.741
77.0	275.811	266.178	253.841	251.475	255.869
77.5	262.122	252.489	240.321	237.279	240.828
78.0	248.940	239.138	226.801	223.083	226.125
78.5	235.251	225.449	213.449	208.886	210.576
79.0	221.899	211.759	200.098	194.521	194.352
79.5	208.210	198.577	186.916	179.818	176.776
80.0	195.028	185.395	173.903	164.270	161.228
80.5	181.677	172.213	160.721	148.722	150.243
81.0	168.495	159.369	147.877	136.385	140.272
81.5	155.144	146.694	134.864	126.413	130.300
82.0	141.962	134.188	122.188	116.780	120.498
82.5	129.117	121.850	109.344	107.316	110.865

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CANDELA TABULATION - (Cont.)

83.0	116.104	109.682	97.514	97.852	101.401
83.5	103.260	97.683	87.543	88.557	91.937
84.0	90.585	86.022	78.417	79.431	82.304
84.5	78.417	74.868	69.460	70.474	73.178
85.0	66.756	64.390	60.672	61.517	64.052
85.5	56.447	54.757	52.053	52.729	55.095
86.0	47.152	45.969	43.771	44.278	46.138
86.5	38.870	37.856	35.659	35.828	37.180
87.0	31.603	30.082	28.054	27.716	28.561
87.5	25.012	23.153	20.618	19.604	19.773
88.0	19.266	16.900	14.027	11.492	10.309
88.5	14.027	11.830	8.619	5.577	4.225
89.0	9.126	7.605	4.563	3.042	2.704
89.5	5.070	4.394	2.366	1.859	1.859
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-L50-840-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-L50-840-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-L50-840-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	633.66	N.A.	13.10
0-30	1339.99	N.A.	27.70
0-40	2187.51	N.A.	45.10
0-60	3841.63	N.A.	79.30
0-80	4769.57	N.A.	98.40
0-90	4846.21	N.A.	100.00
10-90	4681.77	N.A.	96.60
20-40	1553.85	N.A.	32.10
20-50	2422.54	N.A.	50.00
40-70	2249.36	N.A.	46.40
60-80	927.94	N.A.	19.10
70-80	332.70	N.A.	6.90
80-90	76.64	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	4846.21	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	164.44
10-20	469.22
20-30	706.33
30-40	847.52
40-50	868.69
50-60	785.43
60-70	595.24
70-80	332.70
80-90	76.64
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-L50-840-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-L50-840-DIM-UNV_.IES

UGR TABLE - CORRECTED

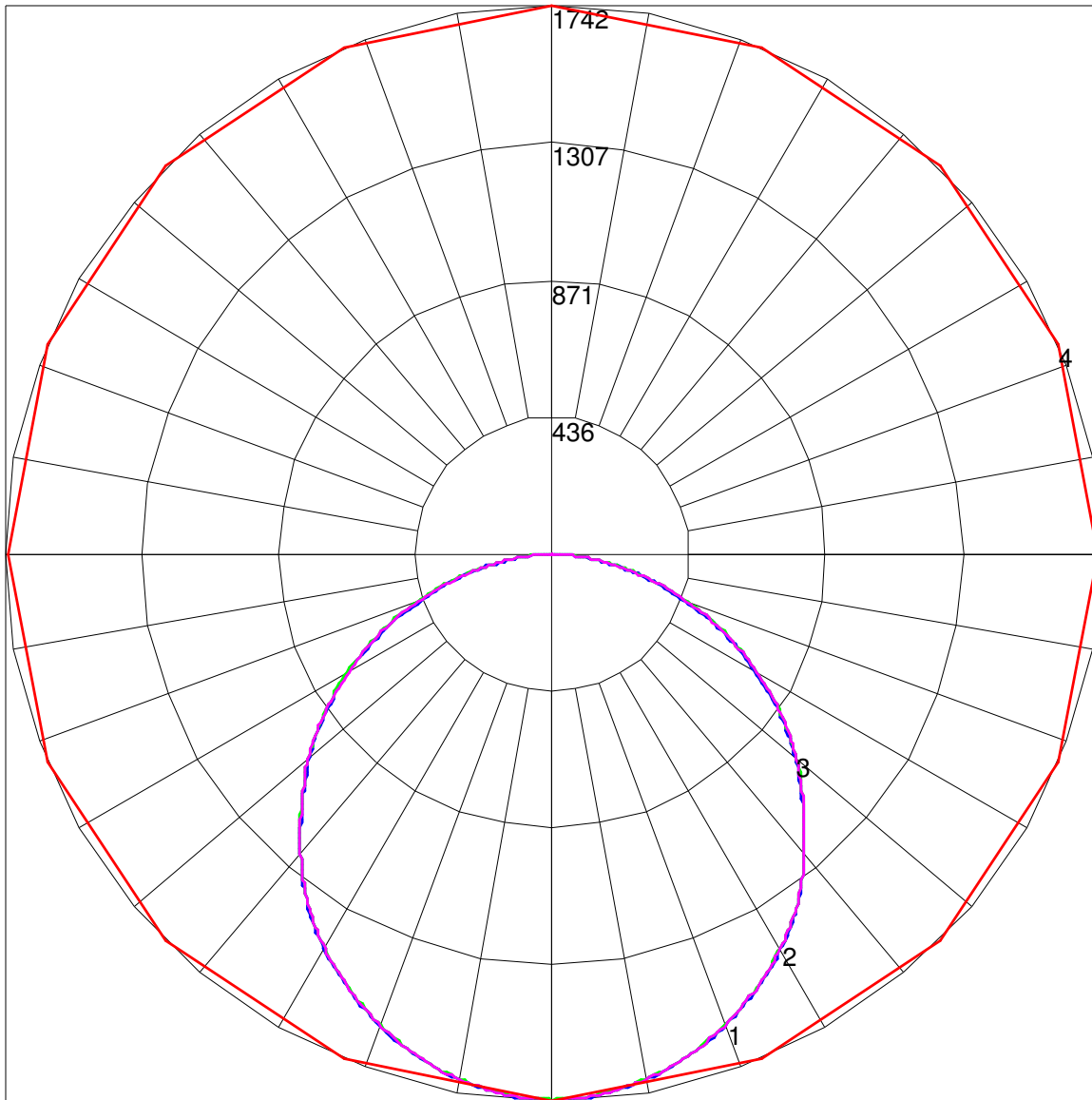
Reflectances

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	15.1	16.8	15.5	17.1	17.4	15.1	16.7	15.5	17.0	17.4
	3H	17.0	18.5	17.4	18.8	19.1	16.9	18.4	17.3	18.7	19.1
	4H	17.7	19.0	18.1	19.4	19.8	17.5	18.9	17.9	19.3	19.6
	6H	18.1	19.4	18.6	19.8	20.2	17.9	19.2	18.3	19.6	20.0
	8H	18.3	19.5	18.7	19.9	20.3	18.0	19.3	18.5	19.7	20.1
	12H	18.3	19.5	18.8	19.9	20.3	18.1	19.3	18.5	19.7	20.1
4H	2H	15.8	17.1	16.2	17.5	17.9	15.7	17.1	16.1	17.5	17.8
	3H	17.8	19.0	18.2	19.4	19.8	17.7	18.9	18.1	19.3	19.7
	4H	18.6	19.7	19.0	20.1	20.5	18.5	19.5	18.9	19.9	20.4
	6H	19.2	20.1	19.7	20.6	21.0	19.0	19.9	19.4	20.4	20.8
	8H	19.4	20.3	19.8	20.7	21.2	19.1	20.0	19.6	20.4	20.9
	12H	19.5	20.3	20.0	20.8	21.2	19.2	20.0	19.7	20.5	20.9
8H	4H	18.9	19.7	19.3	20.2	20.7	18.8	19.6	19.2	20.1	20.5
	6H	19.6	20.3	20.1	20.8	21.3	19.4	20.1	19.9	20.6	21.1
	8H	19.8	20.5	20.3	21.0	21.5	19.6	20.2	20.1	20.7	21.2
	12H	20.0	20.6	20.5	21.1	21.6	19.7	20.3	20.2	20.8	21.3
12H	4H	18.9	19.7	19.4	20.2	20.6	18.8	19.6	19.3	20.0	20.5
	6H	19.6	20.3	20.2	20.7	21.3	19.4	20.1	20.0	20.5	21.1
	8H	19.9	20.5	20.4	21.0	21.5	19.7	20.2	20.2	20.7	21.3

Maximum UGR = 21.6

POLAR GRAPH



Maximum Candela = 1742.41 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.)