



IES INDOOR REPORT
PHOTOMETRIC FILENAME : APC-22-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-22-L50-840-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	4850
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
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	5129	5065	5117
55	4971	4868	4953
65	4667	4522	4587
75	4088	3820	3883
85	2453	2229	2353

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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	1742.096	1742.096	1742.096	1742.096	1742.096
0.5	1738.713	1742.096	1743.787	1743.787	1743.787
1.0	1738.713	1743.787	1743.787	1743.787	1743.787
1.5	1737.022	1742.096	1742.096	1742.096	1742.096
2.0	1735.330	1742.096	1742.096	1742.096	1740.404
2.5	1735.330	1740.404	1742.096	1742.096	1740.404
3.0	1733.639	1738.713	1740.404	1740.404	1740.404
3.5	1733.639	1738.713	1738.713	1738.713	1738.713
4.0	1731.948	1737.022	1737.022	1737.022	1738.713
4.5	1730.256	1735.330	1735.330	1737.022	1735.330
5.0	1728.565	1731.948	1733.639	1735.330	1735.330
5.5	1725.182	1730.256	1731.948	1733.639	1731.948
6.0	1721.799	1728.565	1730.256	1731.948	1730.256
6.5	1720.108	1725.182	1726.873	1728.565	1730.256
7.0	1718.417	1723.491	1725.182	1726.873	1726.873
7.5	1715.034	1718.417	1721.799	1723.491	1725.182
8.0	1711.651	1716.725	1720.108	1721.799	1721.799
8.5	1708.269	1713.343	1716.725	1718.417	1720.108
9.0	1704.886	1709.960	1713.343	1716.725	1716.725
9.5	1701.503	1708.269	1709.960	1713.343	1713.343
10.0	1698.120	1704.886	1706.577	1709.960	1709.960
10.5	1694.738	1699.812	1703.194	1706.577	1706.577
11.0	1690.848	1696.429	1699.812	1703.194	1704.886
11.5	1687.296	1693.046	1696.429	1699.812	1701.503
12.0	1683.236	1689.494	1691.355	1696.429	1698.120
12.5	1679.854	1684.928	1687.465	1693.046	1694.738
13.0	1676.133	1680.699	1684.082	1688.311	1690.171
13.5	1671.228	1675.118	1679.854	1684.251	1685.604
14.0	1665.985	1671.059	1674.780	1679.346	1681.207
14.5	1660.403	1666.830	1670.213	1674.611	1676.133
15.0	1656.175	1661.587	1665.139	1669.367	1671.059
15.5	1652.285	1655.837	1660.234	1664.462	1666.492
16.0	1646.703	1650.424	1655.160	1658.881	1660.741
16.5	1641.629	1645.350	1650.086	1653.130	1655.667
17.0	1634.864	1640.953	1643.997	1647.380	1649.409
17.5	1629.282	1635.371	1638.585	1640.953	1642.813
18.0	1624.039	1628.944	1632.327	1634.864	1636.555
18.5	1617.443	1622.855	1626.576	1627.760	1629.451
19.0	1611.692	1616.935	1620.149	1621.333	1623.024
19.5	1605.096	1610.677	1613.553	1614.398	1617.274
20.0	1599.684	1604.758	1607.295	1606.956	1610.170
20.5	1593.087	1597.992	1600.698	1600.022	1603.235
21.0	1586.660	1591.058	1593.764	1593.087	1595.963
21.5	1579.895	1583.954	1586.829	1586.322	1588.521
22.0	1572.284	1577.527	1579.218	1578.711	1581.248
22.5	1565.180	1570.592	1571.607	1571.100	1574.144
23.0	1558.245	1563.489	1564.165	1563.658	1567.040
23.5	1551.649	1555.539	1557.061	1555.539	1559.937
24.0	1544.376	1548.774	1548.605	1548.097	1552.495
24.5	1536.596	1541.670	1540.824	1540.824	1544.884
25.0	1529.154	1535.243	1532.537	1533.213	1537.442
25.5	1520.528	1527.463	1524.926	1524.587	1529.323
26.0	1513.763	1519.344	1517.145	1517.145	1521.712
26.5	1506.152	1511.395	1508.858	1509.196	1512.579

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CANDELA TABULATION - (Cont.)

27.0	1499.217	1504.291	1500.908	1500.739	1505.306
27.5	1490.591	1496.342	1491.944	1492.621	1498.033
28.0	1483.318	1488.562	1483.826	1484.164	1490.422
28.5	1475.031	1480.781	1475.538	1475.538	1482.304
29.0	1466.912	1472.325	1467.250	1467.589	1473.678
29.5	1458.286	1463.699	1458.286	1458.963	1464.883
30.0	1450.168	1455.918	1449.491	1450.675	1455.918
30.5	1441.034	1447.631	1440.865	1441.711	1448.307
31.0	1432.916	1439.343	1431.563	1432.409	1438.667
31.5	1424.459	1429.872	1422.768	1423.613	1429.026
32.0	1416.510	1420.738	1413.635	1414.142	1420.062
32.5	1407.207	1411.774	1404.163	1404.501	1411.774
33.0	1397.905	1402.302	1394.184	1395.706	1401.457
33.5	1388.264	1393.169	1384.712	1385.389	1392.323
34.0	1379.300	1382.852	1374.564	1375.579	1383.021
34.5	1369.659	1372.196	1364.585	1365.769	1372.196
35.0	1359.849	1362.217	1353.761	1355.283	1362.048
35.5	1350.378	1352.407	1342.598	1343.951	1351.731
36.0	1339.553	1341.583	1331.773	1332.957	1340.906
36.5	1328.221	1330.589	1320.610	1321.963	1330.589
37.0	1318.073	1319.426	1309.447	1310.631	1318.749
37.5	1307.079	1307.248	1298.115	1299.130	1307.417
38.0	1295.578	1295.916	1286.614	1287.798	1296.085
38.5	1284.246	1284.415	1274.605	1276.127	1283.569
39.0	1271.899	1272.406	1262.766	1264.626	1272.068
39.5	1261.074	1259.890	1250.926	1252.787	1259.045
40.0	1249.911	1248.051	1238.918	1240.778	1247.713
40.5	1236.888	1236.042	1226.909	1228.939	1236.380
41.0	1225.218	1224.541	1214.900	1216.761	1224.541
41.5	1212.871	1212.532	1202.892	1204.583	1213.378
42.0	1200.862	1199.847	1190.545	1193.082	1200.693
42.5	1190.037	1187.669	1178.198	1181.242	1189.023
43.0	1177.860	1175.492	1166.528	1169.065	1177.352
43.5	1166.697	1164.160	1154.519	1157.056	1166.020
44.0	1156.210	1151.982	1142.679	1145.216	1155.026
44.5	1144.878	1139.297	1131.009	1133.377	1142.510
45.0	1133.377	1127.965	1119.339	1121.876	1130.671
45.5	1122.214	1115.618	1107.668	1109.529	1119.339
46.0	1111.051	1104.117	1095.491	1098.366	1107.668
46.5	1098.873	1092.446	1082.975	1085.850	1095.660
47.0	1086.696	1080.607	1072.150	1074.180	1083.313
47.5	1074.856	1068.260	1059.465	1062.509	1071.304
48.0	1063.693	1056.251	1049.148	1052.699	1060.987
48.5	1053.714	1048.471	1040.860	1043.735	1050.670
49.0	1043.904	1037.646	1028.175	1031.557	1040.522
49.5	1032.065	1025.130	1015.828	1018.872	1029.020
50.0	1019.380	1012.276	1003.312	1006.525	1016.504
50.5	1006.864	999.760	990.457	993.840	1003.143
51.0	993.671	987.244	977.603	980.986	990.288
51.5	980.986	974.390	964.580	968.132	977.772
52.0	967.793	961.366	951.387	955.108	965.595
52.5	955.446	948.004	938.533	942.085	952.740
53.0	943.100	934.474	925.679	929.400	939.209
53.5	930.076	921.450	912.486	916.207	926.355
54.0	917.222	908.258	899.293	903.353	913.670
54.5	903.691	894.896	885.932	889.991	900.985

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55.0	891.006	881.196	872.570	876.629	887.792
55.5	878.152	867.834	859.208	863.098	873.923
56.0	865.128	854.134	846.016	849.906	860.900
56.5	852.443	840.603	831.978	836.375	847.369
57.0	838.912	827.073	818.447	822.337	833.669
57.5	825.043	813.542	804.916	808.806	820.476
58.0	811.174	799.504	791.554	795.275	806.269
58.5	797.643	785.634	777.854	781.744	792.062
59.0	783.774	772.273	764.154	768.213	777.008
59.5	770.074	758.742	750.116	754.513	763.309
60.0	756.205	745.211	736.416	740.983	748.932
60.5	742.167	731.680	722.885	727.114	734.555
61.0	728.636	717.642	709.016	712.906	720.010
61.5	714.428	703.942	695.316	698.530	705.802
62.0	700.221	690.411	681.447	684.153	691.595
62.5	685.844	676.711	667.747	669.777	677.388
63.0	671.468	662.504	653.540	655.400	663.180
63.5	657.937	648.296	639.840	641.024	648.804
64.0	644.237	633.920	625.801	626.647	634.427
64.5	630.368	619.712	611.425	612.101	620.220
65.0	616.330	605.336	597.217	597.556	605.843
65.5	602.122	590.959	583.179	582.672	591.298
66.0	588.084	576.583	569.141	567.957	576.921
66.5	574.046	562.037	554.764	553.411	562.376
67.0	559.669	547.661	540.050	538.866	547.661
67.5	545.631	533.453	525.504	524.151	532.946
68.0	531.085	519.246	510.789	509.098	518.231
68.5	516.878	504.531	496.244	494.552	503.516
69.0	503.009	489.986	481.529	479.837	488.463
69.5	488.802	475.947	466.814	465.292	473.749
70.0	474.256	461.571	452.099	450.915	459.372
70.5	459.710	447.533	437.554	436.370	444.657
71.0	444.995	433.325	423.008	421.824	429.942
71.5	430.281	419.287	408.462	407.447	414.889
72.0	416.242	405.249	394.255	393.071	400.344
72.5	401.528	391.041	379.540	378.864	385.967
73.0	386.813	377.172	365.333	364.318	371.760
73.5	372.775	363.134	351.125	350.110	357.383
74.0	358.567	349.096	337.087	336.241	342.669
74.5	344.698	335.227	322.880	322.372	328.461
75.0	330.660	321.357	309.011	308.334	314.085
75.5	316.791	307.657	295.141	294.296	300.216
76.0	303.091	293.957	281.272	280.258	285.501
76.5	289.560	280.088	267.572	266.050	270.955
77.0	276.029	266.388	254.042	251.674	256.071
77.5	262.329	252.688	240.511	237.466	241.018
78.0	249.137	239.327	226.980	223.259	226.303
78.5	235.437	225.627	213.618	209.051	210.743
79.0	222.075	211.927	200.256	194.675	194.506
79.5	208.375	198.734	187.064	179.960	176.916
80.0	195.182	185.542	174.040	164.400	161.355
80.5	181.821	172.349	160.848	148.839	150.361
81.0	168.628	159.495	147.994	136.492	140.382
81.5	155.266	146.810	134.970	126.513	130.403
82.0	142.074	134.294	122.285	116.873	120.594
82.5	129.220	121.947	109.431	107.401	110.953

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CANDELA TABULATION - (Cont.)

83.0	116.196	109.769	97.591	97.929	101.481
83.5	103.342	97.760	87.612	88.627	92.010
84.0	90.657	86.090	78.479	79.494	82.369
84.5	78.479	74.927	69.515	70.530	73.236
85.0	66.809	64.441	60.720	61.565	64.102
85.5	56.491	54.800	52.094	52.770	55.138
86.0	47.189	46.005	43.806	44.314	46.174
86.5	38.901	37.886	35.688	35.857	37.210
87.0	31.628	30.106	28.076	27.738	28.584
87.5	25.032	23.172	20.635	19.620	19.789
88.0	19.281	16.914	14.038	11.501	10.317
88.5	14.038	11.839	8.626	5.581	4.228
89.0	9.133	7.611	4.567	3.044	2.706
89.5	5.074	4.398	2.368	1.860	1.860
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-L50-840-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-22-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-22-L50-840-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	634.16	N.A.	13.10
0-30	1341.05	N.A.	27.70
0-40	2189.24	N.A.	45.10
0-60	3844.66	N.A.	79.30
0-80	4773.34	N.A.	98.40
0-90	4850.04	N.A.	100.00
10-90	4685.47	N.A.	96.60
20-40	1555.08	N.A.	32.10
20-50	2424.45	N.A.	50.00
40-70	2251.14	N.A.	46.40
60-80	928.67	N.A.	19.10
70-80	332.97	N.A.	6.90
80-90	76.70	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	4850.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	164.57
10-20	469.59
20-30	706.89
30-40	848.19
40-50	869.37
50-60	786.05
60-70	595.71
70-80	332.97
80-90	76.70
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-L50-840-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-22-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

X=2H	Y=2H	17.7	19.4	18.1	19.7	20.0	UGR Viewed Endwise			
	3H	19.6	21.1	20.0	21.4	21.7	17.7	19.3	18.1	19.6
	4H	20.3	21.6	20.7	22.0	22.4	19.5	21.0	19.9	21.3
	6H	20.7	22.0	21.2	22.4	22.8	20.1	21.5	20.5	21.9
	8H	20.9	22.1	21.3	22.5	22.9	20.5	21.8	20.9	22.2
	12H	20.9	22.1	21.4	22.5	22.9	20.6	21.9	21.1	22.3

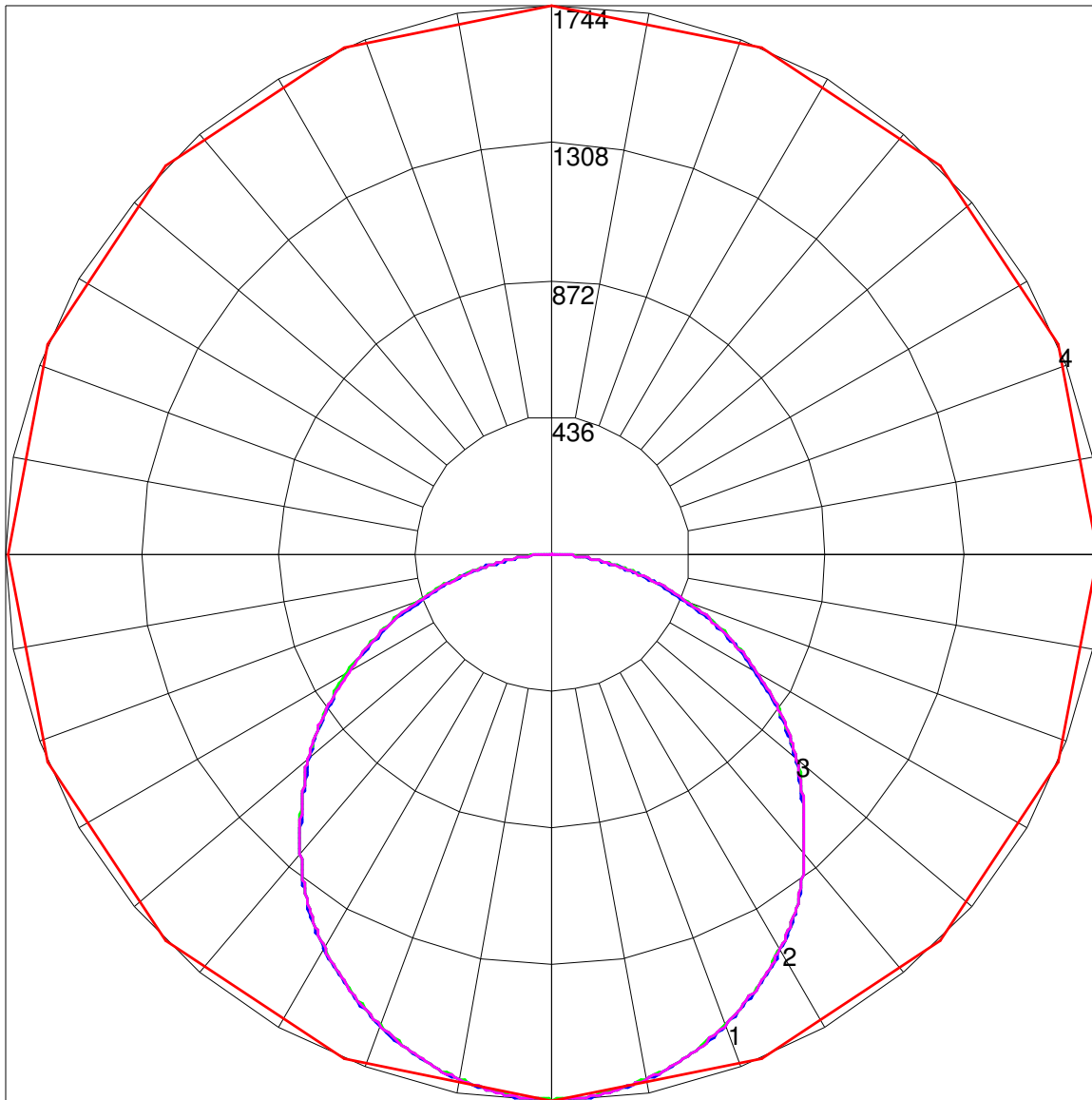
4H	2H	18.4	19.7	18.7	20.1	20.5	20.7	19.7	18.7	20.1
	3H	20.4	21.6	20.8	22.0	22.4	18.3	21.5	20.7	21.9
	4H	21.2	22.3	21.6	22.7	23.1	20.3	22.1	21.5	22.5
	6H	21.8	22.7	22.3	23.2	23.6	21.1	22.5	22.0	22.9
	8H	22.0	22.9	22.4	23.3	23.8	21.6	22.6	22.2	23.0
	12H	22.1	22.9	22.6	23.4	23.8	21.7	22.6	22.2	23.0

8H	4H	21.5	22.3	21.9	22.8	23.2	21.8	22.2	21.8	22.7
	6H	22.2	22.9	22.7	23.4	23.9	21.3	22.7	22.5	23.2
	8H	22.4	23.1	22.9	23.6	24.1	22.0	22.8	22.7	23.3
	12H	22.6	23.2	23.1	23.7	24.2	22.2	22.8	22.7	23.3

12H	4H	21.5	22.3	22.0	22.8	23.2	22.3	22.9	22.8	23.4
	6H	22.2	22.9	22.8	23.3	23.9	21.4	22.2	21.9	22.6
	8H	22.5	23.1	23.0	23.6	24.1	22.0	22.7	22.5	23.1

Maximum UGR = 24.2

POLAR GRAPH



Maximum Candela = 1743.787 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.)