



**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : APC-22-L30-850-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-L30-850-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	2987
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	25.4
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	3158	3119	3151
55	3061	2997	3050
65	2874	2784	2825
75	2517	2352	2391
85	1510	1373	1449

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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	1072.728	1072.728	1072.728	1072.728	1072.728
0.5	1070.645	1072.728	1073.769	1073.769	1073.769
1.0	1070.645	1073.769	1073.769	1073.769	1073.769
1.5	1069.603	1072.728	1072.728	1072.728	1072.728
2.0	1068.562	1072.728	1072.728	1072.728	1071.686
2.5	1068.562	1071.686	1072.728	1072.728	1071.686
3.0	1067.520	1070.645	1071.686	1071.686	1071.686
3.5	1067.520	1070.645	1070.645	1070.645	1070.645
4.0	1066.479	1069.603	1069.603	1069.603	1070.645
4.5	1065.437	1068.562	1068.562	1069.603	1068.562
5.0	1064.396	1066.479	1067.520	1068.562	1068.562
5.5	1062.313	1065.437	1066.479	1067.520	1066.479
6.0	1060.230	1064.396	1065.437	1066.479	1065.437
6.5	1059.188	1062.313	1063.354	1064.396	1065.437
7.0	1058.147	1061.271	1062.313	1063.354	1063.354
7.5	1056.064	1058.147	1060.230	1061.271	1062.313
8.0	1053.981	1057.105	1059.188	1060.230	1060.230
8.5	1051.898	1055.022	1057.105	1058.147	1059.188
9.0	1049.815	1052.939	1055.022	1057.105	1057.105
9.5	1047.732	1051.898	1052.939	1055.022	1055.022
10.0	1045.649	1049.815	1050.856	1052.939	1052.939
10.5	1043.566	1046.690	1048.773	1050.856	1050.856
11.0	1041.171	1044.607	1046.690	1048.773	1049.815
11.5	1038.983	1042.525	1044.607	1046.690	1047.732
12.0	1036.484	1040.337	1041.483	1044.607	1045.649
12.5	1034.401	1037.525	1039.088	1042.525	1043.566
13.0	1032.110	1034.922	1037.005	1039.608	1040.754
13.5	1029.089	1031.485	1034.401	1037.109	1037.942
14.0	1025.861	1028.985	1031.277	1034.089	1035.234
14.5	1022.424	1026.382	1028.465	1031.172	1032.110
15.0	1019.820	1023.153	1025.340	1027.944	1028.985
15.5	1017.425	1019.612	1022.320	1024.923	1026.173
16.0	1013.988	1016.279	1019.195	1021.487	1022.632
16.5	1010.863	1013.155	1016.071	1017.946	1019.508
17.0	1006.698	1010.447	1012.322	1014.404	1015.654
17.5	1003.261	1007.010	1008.989	1010.447	1011.592
18.0	1000.032	1003.052	1005.135	1006.698	1007.739
18.5	995.970	999.303	1001.594	1002.323	1003.365
19.0	992.429	995.658	997.637	998.366	999.407
19.5	988.367	991.804	993.575	994.096	995.866
20.0	985.035	988.159	989.721	989.513	991.492
20.5	980.973	983.993	985.660	985.243	987.222
21.0	977.015	979.723	981.389	980.973	982.743
21.5	972.849	975.349	977.119	976.807	978.161
22.0	968.163	971.391	972.433	972.120	973.682
22.5	963.788	967.121	967.746	967.434	969.308
23.0	959.518	962.747	963.164	962.851	964.934
23.5	955.457	957.852	958.789	957.852	960.560
24.0	950.978	953.686	953.582	953.269	955.977
24.5	946.187	949.312	948.791	948.791	951.291
25.0	941.605	945.354	943.688	944.104	946.708
25.5	936.293	940.563	939.001	938.793	941.709
26.0	932.127	935.564	934.210	934.210	937.022
26.5	927.441	930.669	929.107	929.315	931.398

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**CANDELA TABULATION - (Cont.)**

27.0	923.171	926.295	924.212	924.108	926.920
27.5	917.859	921.400	918.692	919.109	922.442
28.0	913.381	916.609	913.693	913.901	917.755
28.5	908.277	911.818	908.590	908.590	912.756
29.0	903.278	906.611	903.487	903.695	907.444
29.5	897.967	901.299	897.967	898.383	902.028
30.0	892.968	896.509	892.551	893.280	896.509
30.5	887.344	891.405	887.239	887.760	891.822
31.0	882.344	886.302	881.511	882.032	885.885
31.5	877.137	880.470	876.096	876.616	879.949
32.0	872.242	874.846	870.472	870.784	874.429
32.5	866.514	869.326	864.639	864.848	869.326
33.0	860.786	863.494	858.494	859.432	862.973
33.5	854.849	857.870	852.662	853.079	857.349
34.0	849.329	851.517	846.413	847.038	851.621
34.5	843.393	844.955	840.269	840.998	844.955
35.0	837.352	838.810	833.603	834.540	838.706
35.5	831.520	832.770	826.729	827.562	832.353
36.0	824.855	826.104	820.064	820.793	825.688
36.5	817.877	819.335	813.190	814.023	819.335
37.0	811.628	812.461	806.316	807.045	812.044
37.5	804.858	804.962	799.338	799.963	805.066
38.0	797.776	797.984	792.256	792.985	798.088
38.5	790.798	790.902	784.862	785.799	790.381
39.0	783.195	783.508	777.571	778.717	783.299
39.5	776.530	775.801	770.281	771.426	775.280
40.0	769.656	768.510	762.886	764.032	768.302
40.5	761.637	761.116	755.492	756.742	761.324
41.0	754.450	754.034	748.097	749.243	754.034
41.5	746.847	746.639	740.703	741.744	747.160
42.0	739.453	738.828	733.100	734.662	739.349
42.5	732.787	731.329	725.497	727.372	732.163
43.0	725.289	723.831	718.311	719.873	724.976
43.5	718.415	716.853	710.916	712.479	717.998
44.0	711.958	709.354	703.626	705.188	711.229
44.5	704.980	701.543	696.440	697.898	703.522
45.0	697.898	694.565	689.253	690.816	696.231
45.5	691.024	686.962	682.067	683.213	689.253
46.0	684.150	679.880	674.569	676.339	682.067
46.5	676.652	672.694	666.862	668.632	674.673
47.0	669.153	665.404	660.196	661.446	667.070
47.5	661.862	657.801	652.385	654.260	659.675
48.0	654.989	650.406	646.032	648.219	653.322
48.5	648.844	645.615	640.929	642.699	646.969
49.0	642.803	638.950	633.118	635.201	640.720
49.5	635.513	631.243	625.515	627.389	633.638
50.0	627.702	623.328	617.808	619.787	625.931
50.5	619.995	615.621	609.892	611.975	617.704
51.0	611.871	607.914	601.977	604.060	609.788
51.5	604.060	599.998	593.958	596.145	602.081
52.0	595.937	591.979	585.834	588.125	594.583
52.5	588.334	583.751	577.919	580.106	586.667
53.0	580.731	575.419	570.004	572.295	578.336
53.5	572.712	567.400	561.880	564.171	570.420
54.0	564.796	559.276	553.757	556.256	562.609
54.5	556.464	551.049	545.529	548.028	554.798

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**CANDELA TABULATION - (Cont.)**

55.0	548.653	542.613	537.301	539.801	546.674
55.5	540.738	534.385	529.073	531.469	538.134
56.0	532.719	525.949	520.950	523.345	530.115
56.5	524.907	517.617	512.306	515.013	521.783
57.0	516.576	509.285	503.974	506.369	513.347
57.5	508.035	500.953	495.642	498.037	505.223
58.0	499.495	492.309	487.414	489.705	496.475
58.5	491.163	483.769	478.978	481.373	487.727
59.0	482.623	475.541	470.542	473.042	478.457
59.5	474.187	467.209	461.898	464.606	470.021
60.0	465.647	458.877	453.462	456.274	461.169
60.5	457.003	450.546	445.130	447.734	452.316
61.0	448.671	441.901	436.590	438.985	443.359
61.5	439.922	433.465	428.154	430.132	434.611
62.0	431.174	425.133	419.614	421.280	425.862
62.5	422.321	416.697	411.178	412.427	417.114
63.0	413.469	407.949	402.429	403.575	408.366
63.5	405.137	399.200	393.993	394.722	399.513
64.0	396.701	390.348	385.349	385.869	390.660
64.5	388.161	381.599	376.496	376.913	381.912
65.0	379.516	372.747	367.748	367.956	373.059
65.5	370.768	363.894	359.103	358.791	364.102
66.0	362.124	355.042	350.459	349.730	355.250
66.5	353.479	346.085	341.606	340.773	346.293
67.0	344.627	337.232	332.546	331.816	337.232
67.5	335.982	328.484	323.589	322.756	328.171
68.0	327.026	319.735	314.528	313.486	319.110
68.5	318.277	310.674	305.571	304.530	310.050
69.0	309.737	301.718	296.510	295.469	300.780
69.5	300.989	293.073	287.449	286.512	291.719
70.0	292.032	284.221	278.388	277.659	282.867
70.5	283.075	275.576	269.432	268.703	273.806
71.0	274.014	266.828	260.475	259.746	264.745
71.5	264.953	258.184	251.518	250.893	255.476
72.0	256.309	249.539	242.770	242.041	246.519
72.5	247.248	240.791	233.709	233.292	237.666
73.0	238.187	232.251	224.960	224.335	228.918
73.5	229.543	223.606	216.212	215.587	220.065
74.0	220.794	214.962	207.568	207.047	211.004
74.5	212.254	206.422	198.819	198.507	202.256
75.0	203.610	197.882	190.279	189.862	193.403
75.5	195.070	189.446	181.739	181.218	184.863
76.0	186.634	181.010	173.199	172.574	175.802
76.5	178.302	172.470	164.763	163.825	166.846
77.0	169.970	164.034	156.431	154.973	157.681
77.5	161.534	155.598	148.099	146.224	148.411
78.0	153.410	147.370	139.767	137.476	139.350
78.5	144.974	138.934	131.539	128.727	129.769
79.0	136.747	130.498	123.312	119.875	119.771
79.5	128.311	122.374	115.188	110.814	108.939
80.0	120.187	114.251	107.169	101.232	99.357
80.5	111.959	106.127	99.045	91.651	92.588
81.0	103.836	98.212	91.130	84.048	86.443
81.5	95.608	90.401	83.110	77.903	80.298
82.0	87.485	82.694	75.299	71.966	74.258
82.5	79.569	75.091	67.384	66.134	68.321

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**CANDELA TABULATION - (Cont.)**

83.0	71.550	67.592	60.094	60.302	62.489
83.5	63.635	60.198	53.949	54.574	56.657
84.0	55.823	53.011	48.325	48.950	50.720
84.5	48.325	46.138	42.805	43.430	45.096
85.0	41.139	39.681	37.389	37.910	39.472
85.5	34.786	33.744	32.078	32.494	33.952
86.0	29.057	28.328	26.974	27.287	28.432
86.5	23.954	23.329	21.975	22.079	22.913
87.0	19.476	18.538	17.289	17.080	17.601
87.5	15.414	14.268	12.706	12.081	12.185
88.0	11.873	10.415	8.644	7.082	6.353
88.5	8.644	7.290	5.312	3.437	2.604
89.0	5.624	4.687	2.812	1.875	1.666
89.5	3.124	2.708	1.458	1.146	1.146
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-L30-850-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-L30-850-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-L30-850-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	390.50	N.A.	13.10
0-30	825.77	N.A.	27.70
0-40	1348.06	N.A.	45.10
0-60	2367.42	N.A.	79.30
0-80	2939.27	N.A.	98.40
0-90	2986.5	N.A.	100.00
10-90	2885.16	N.A.	96.60
20-40	957.57	N.A.	32.10
20-50	1492.9	N.A.	50.00
40-70	1386.18	N.A.	46.40
60-80	571.85	N.A.	19.10
70-80	205.03	N.A.	6.90
80-90	47.23	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	2986.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	101.34
10-20	289.16
20-30	435.28
30-40	522.29
40-50	535.33
50-60	484.03
60-70	366.82
70-80	205.03
80-90	47.23
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-L30-850-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-L30-850-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

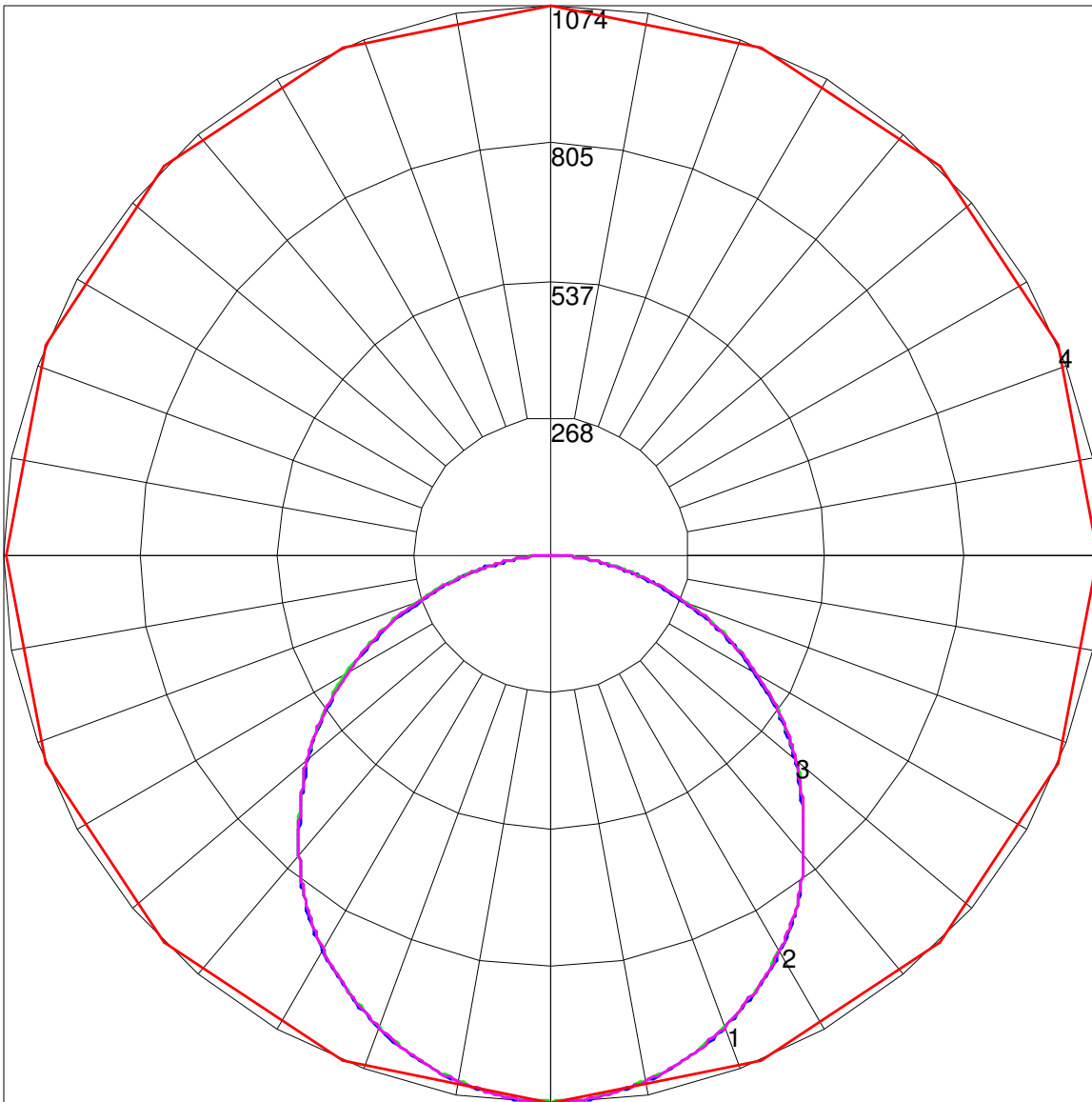
Reflectances

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	16.0	17.7	16.4	18.0	18.3	16.0	17.6	16.4	17.9	18.3
	3H	17.9	19.4	18.3	19.7	20.0	17.8	19.3	18.2	19.6	20.0
	4H	18.6	19.9	19.0	20.3	20.7	18.4	19.8	18.8	20.2	20.5
	6H	19.0	20.3	19.5	20.7	21.1	18.8	20.1	19.2	20.5	20.9
	8H	19.2	20.4	19.6	20.8	21.2	18.9	20.2	19.4	20.5	20.9
	12H	19.2	20.4	19.7	20.8	21.2	19.0	20.2	19.4	20.5	21.0
4H	2H	16.7	18.0	17.0	18.4	18.8	16.6	18.0	17.0	18.4	18.7
	3H	18.7	19.9	19.1	20.3	20.7	18.6	19.8	19.0	20.2	20.6
	4H	19.5	20.6	19.9	21.0	21.4	19.4	20.4	19.8	20.8	21.3
	6H	20.1	21.0	20.6	21.5	21.9	19.9	20.8	20.3	21.2	21.7
	8H	20.3	21.2	20.7	21.6	22.1	20.0	20.9	20.5	21.3	21.8
	12H	20.4	21.2	20.9	21.7	22.1	20.1	20.9	20.6	21.4	21.8
8H	4H	19.8	20.6	20.2	21.1	21.5	19.6	20.5	20.1	21.0	21.4
	6H	20.5	21.2	21.0	21.7	22.2	20.3	21.0	20.8	21.5	21.9
	8H	20.7	21.4	21.2	21.9	22.4	20.5	21.1	21.0	21.6	22.1
	12H	20.9	21.5	21.4	22.0	22.5	20.6	21.2	21.1	21.7	22.2
12H	4H	19.8	20.6	20.3	21.1	21.5	19.7	20.5	20.2	20.9	21.4
	6H	20.5	21.2	21.1	21.6	22.2	20.3	21.0	20.8	21.4	22.0
	8H	20.8	21.4	21.3	21.9	22.4	20.6	21.1	21.1	21.6	22.2

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 1073.769 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.)