



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : APC-24-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-24-L30-850-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	3037
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	115
Total Luminaire Watts	26.4
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)	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	1522	1503	1518
55	1475	1445	1470
65	1385	1342	1361
75	1213	1134	1152
85	728	662	698

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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	1090.783	1090.783	1090.783	1090.783	1090.783
0.5	1088.665	1090.783	1091.842	1091.842	1091.842
1.0	1088.665	1091.842	1091.842	1091.842	1091.842
1.5	1087.606	1090.783	1090.783	1090.783	1090.783
2.0	1086.547	1090.783	1090.783	1090.783	1089.724
2.5	1086.547	1089.724	1090.783	1090.783	1089.724
3.0	1085.488	1088.665	1089.724	1089.724	1089.724
3.5	1085.488	1088.665	1088.665	1088.665	1088.665
4.0	1084.429	1087.606	1087.606	1087.606	1088.665
4.5	1083.370	1086.547	1086.547	1087.606	1086.547
5.0	1082.311	1084.429	1085.488	1086.547	1086.547
5.5	1080.193	1083.370	1084.429	1085.488	1084.429
6.0	1078.075	1082.311	1083.370	1084.429	1083.370
6.5	1077.016	1080.193	1081.252	1082.311	1083.370
7.0	1075.957	1079.134	1080.193	1081.252	1081.252
7.5	1073.839	1075.957	1078.075	1079.134	1080.193
8.0	1071.721	1074.898	1077.016	1078.075	1078.075
8.5	1069.603	1072.780	1074.898	1075.957	1077.016
9.0	1067.485	1070.662	1072.780	1074.898	1074.898
9.5	1065.367	1069.603	1070.662	1072.780	1072.780
10.0	1063.249	1067.485	1068.544	1070.662	1070.662
10.5	1061.131	1064.308	1066.426	1068.544	1068.544
11.0	1058.695	1062.190	1064.308	1066.426	1067.485
11.5	1056.471	1060.072	1062.190	1064.308	1065.367
12.0	1053.930	1057.848	1059.013	1062.190	1063.249
12.5	1051.812	1054.989	1056.577	1060.072	1061.131
13.0	1049.482	1052.341	1054.459	1057.107	1058.272
13.5	1046.411	1048.846	1051.812	1054.565	1055.412
14.0	1043.128	1046.305	1048.635	1051.494	1052.659
14.5	1039.633	1043.657	1045.775	1048.529	1049.482
15.0	1036.986	1040.374	1042.598	1045.246	1046.305
15.5	1034.550	1036.774	1039.527	1042.175	1043.446
16.0	1031.055	1033.385	1036.350	1038.680	1039.845
16.5	1027.878	1030.208	1033.173	1035.079	1036.668
17.0	1023.642	1027.454	1029.361	1031.479	1032.749
17.5	1020.147	1023.960	1025.972	1027.454	1028.619
18.0	1016.864	1019.935	1022.053	1023.642	1024.701
18.5	1012.734	1016.123	1018.453	1019.194	1020.253
19.0	1009.133	1012.416	1014.429	1015.170	1016.229
19.5	1005.003	1008.498	1010.298	1010.828	1012.628
20.0	1001.615	1004.792	1006.380	1006.168	1008.180
20.5	997.484	1000.555	1002.250	1001.826	1003.838
21.0	993.460	996.214	997.908	997.484	999.285
21.5	989.224	991.766	993.566	993.248	994.625
22.0	984.458	987.741	988.800	988.483	990.071
22.5	980.011	983.399	984.035	983.717	985.623
23.0	975.669	978.952	979.375	979.058	981.176
23.5	971.539	973.974	974.927	973.974	976.728
24.0	966.985	969.738	969.632	969.315	972.068
24.5	962.113	965.290	964.761	964.761	967.302
25.0	957.454	961.266	959.572	959.995	962.643
25.5	952.053	956.395	954.806	954.594	957.560
26.0	947.817	951.311	949.935	949.935	952.794
26.5	943.051	946.334	944.746	944.957	947.075

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**CANDELA TABULATION - (Cont.)**

27.0	938.709	941.886	939.768	939.662	942.522
27.5	933.308	936.909	934.155	934.579	937.968
28.0	928.754	932.037	929.072	929.284	933.202
28.5	923.565	927.166	923.883	923.883	928.119
29.0	918.482	921.871	918.694	918.906	922.718
29.5	913.081	916.470	913.081	913.505	917.211
30.0	907.998	911.598	907.574	908.315	911.598
30.5	902.279	906.409	902.173	902.703	906.833
31.0	897.196	901.220	896.349	896.878	900.796
31.5	891.901	895.290	890.842	891.371	894.760
32.0	886.923	889.571	885.123	885.441	889.147
32.5	881.099	883.958	879.193	879.404	883.958
33.0	875.274	878.028	872.944	873.898	877.498
33.5	869.238	872.309	867.014	867.438	871.780
34.0	863.625	865.849	860.660	861.295	865.955
34.5	857.589	859.177	854.412	855.153	859.177
35.0	851.446	852.929	847.634	848.587	852.823
35.5	845.516	846.787	840.645	841.492	846.363
36.0	838.738	840.009	833.867	834.608	839.586
36.5	831.643	833.126	826.877	827.725	833.126
37.0	825.289	826.136	819.888	820.629	825.712
37.5	818.405	818.511	812.792	813.428	818.617
38.0	811.204	811.416	805.591	806.333	811.522
38.5	804.109	804.214	798.072	799.025	803.685
39.0	796.378	796.695	790.659	791.824	796.484
39.5	789.600	788.859	783.246	784.411	788.329
40.0	782.611	781.446	775.727	776.892	781.234
40.5	774.456	773.927	768.208	769.479	774.139
41.0	767.149	766.725	760.689	761.854	766.725
41.5	759.418	759.206	753.170	754.229	759.736
42.0	751.899	751.264	745.439	747.028	751.793
42.5	745.122	743.639	737.708	739.615	744.486
43.0	737.497	736.014	730.401	731.990	737.179
43.5	730.507	728.919	722.882	724.471	730.084
44.0	723.941	721.294	715.469	717.058	723.200
44.5	716.846	713.351	708.162	709.645	715.363
45.0	709.645	706.256	700.855	702.443	707.950
45.5	702.655	698.525	693.548	694.713	700.855
46.0	695.666	691.324	685.923	687.723	693.548
46.5	688.041	684.017	678.086	679.886	686.029
47.0	680.416	676.603	671.308	672.579	678.298
47.5	673.003	668.873	663.366	665.272	670.779
48.0	666.013	661.354	656.906	659.130	664.319
48.5	659.765	656.482	651.717	653.517	657.859
49.0	653.623	649.704	643.774	645.892	651.505
49.5	646.210	641.868	636.043	637.949	644.304
50.0	638.267	633.819	628.207	630.219	636.467
50.5	630.430	625.983	620.158	622.276	628.101
51.0	622.170	618.146	612.110	614.228	620.052
51.5	614.228	610.097	603.955	606.179	612.215
52.0	605.967	601.943	595.695	598.025	604.591
52.5	598.236	593.577	587.646	589.870	596.542
53.0	590.506	585.105	579.598	581.928	588.070
53.5	582.351	576.950	571.338	573.667	580.021
54.0	574.303	568.690	563.077	565.619	572.079
54.5	565.831	560.324	554.711	557.253	564.136

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**CANDELA TABULATION - (Cont.)**

55.0	557.888	551.746	546.345	548.886	555.876
55.5	549.840	543.380	537.979	540.414	547.192
56.0	541.685	534.802	529.718	532.154	539.038
56.5	533.743	526.329	520.928	523.682	530.566
57.0	525.270	517.857	512.456	514.892	521.988
57.5	516.587	509.385	503.984	506.420	513.727
58.0	507.903	500.595	495.618	497.948	504.832
58.5	499.431	491.912	487.040	489.476	495.936
59.0	490.747	483.545	478.462	481.004	486.511
59.5	482.169	475.073	469.672	472.426	477.933
60.0	473.485	466.601	461.094	463.954	468.931
60.5	464.695	458.129	452.622	455.270	459.929
61.0	456.223	449.339	443.938	446.374	450.822
61.5	447.327	440.761	435.360	437.372	441.926
62.0	438.431	432.289	426.676	428.371	433.030
62.5	429.430	423.711	418.098	419.369	424.135
63.0	420.428	414.815	409.203	410.368	415.239
63.5	411.956	405.920	400.625	401.366	406.237
64.0	403.378	396.918	391.835	392.364	397.236
64.5	394.694	388.022	382.833	383.257	388.340
65.0	385.904	379.021	373.937	374.149	379.338
65.5	377.009	370.019	365.148	364.830	370.231
66.0	368.219	361.018	356.358	355.617	361.229
66.5	359.429	351.910	347.356	346.509	352.122
67.0	350.427	342.908	338.143	337.402	342.908
67.5	341.638	334.013	329.035	328.188	333.695
68.0	332.530	325.117	319.822	318.763	324.482
68.5	323.634	315.904	310.714	309.655	315.268
69.0	314.950	306.796	301.501	300.442	305.843
69.5	306.055	298.006	292.288	291.334	296.630
70.0	296.947	289.005	283.074	282.333	287.628
70.5	287.840	280.215	273.967	273.225	278.415
71.0	278.626	271.319	264.859	264.118	269.201
71.5	269.413	262.529	255.752	255.116	259.776
72.0	260.623	253.740	246.856	246.115	250.668
72.5	251.410	244.844	237.643	237.219	241.667
73.0	242.196	236.160	228.747	228.111	232.771
73.5	233.406	227.370	219.851	219.216	223.769
74.0	224.511	218.580	211.061	210.532	214.556
74.5	215.827	209.896	202.166	201.848	205.660
75.0	207.037	201.212	193.482	193.058	196.659
75.5	198.353	192.634	184.798	184.268	187.975
76.0	189.775	184.056	176.114	175.478	178.761
76.5	181.303	175.373	167.536	166.583	169.654
77.0	172.831	166.795	159.064	157.581	160.335
77.5	164.253	158.217	150.592	148.685	150.909
78.0	155.993	149.850	142.120	139.790	141.696
78.5	147.415	141.272	133.753	130.894	131.953
79.0	139.048	132.694	125.387	121.892	121.786
79.5	130.470	124.434	117.127	112.679	110.773
80.0	122.210	116.174	108.972	102.936	101.030
80.5	113.844	107.913	100.712	93.193	94.146
81.0	105.584	99.865	92.664	85.462	87.898
81.5	97.217	91.922	84.509	79.214	81.650
82.0	88.957	84.086	76.567	73.178	75.508
82.5	80.909	76.355	68.518	67.247	69.471

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**CANDELA TABULATION - (Cont.)**

83.0	72.754	68.730	61.105	61.317	63.541
83.5	64.706	61.211	54.857	55.492	57.610
84.0	56.763	53.904	49.138	49.774	51.574
84.5	49.138	46.914	43.525	44.161	45.855
85.0	41.831	40.348	38.019	38.548	40.137
85.5	35.371	34.312	32.618	33.041	34.524
86.0	29.546	28.805	27.428	27.746	28.911
86.5	24.357	23.722	22.345	22.451	23.298
87.0	19.804	18.850	17.580	17.368	17.897
87.5	15.673	14.508	12.920	12.285	12.390
88.0	12.073	10.590	8.790	7.201	6.460
88.5	8.790	7.413	5.401	3.495	2.648
89.0	5.719	4.766	2.859	1.906	1.694
89.5	3.177	2.753	1.483	1.165	1.165
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-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-24-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-24-L30-850-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	397.07	N.A.	13.10
0-30	839.67	N.A.	27.70
0-40	1370.75	N.A.	45.10
0-60	2407.27	N.A.	79.30
0-80	2988.74	N.A.	98.40
0-90	3036.77	N.A.	100.00
10-90	2933.73	N.A.	96.60
20-40	973.68	N.A.	32.10
20-50	1518.03	N.A.	50.00
40-70	1409.51	N.A.	46.40
60-80	581.47	N.A.	19.10
70-80	208.48	N.A.	6.90
80-90	48.03	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	3036.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	103.04
10-20	294.02
20-30	442.60
30-40	531.08
40-50	544.34
50-60	492.17
60-70	372.99
70-80	208.48
80-90	48.03
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-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-24-L30-850-DIM-UNV\_.IES**

**UGR TABLE - CORRECTED**

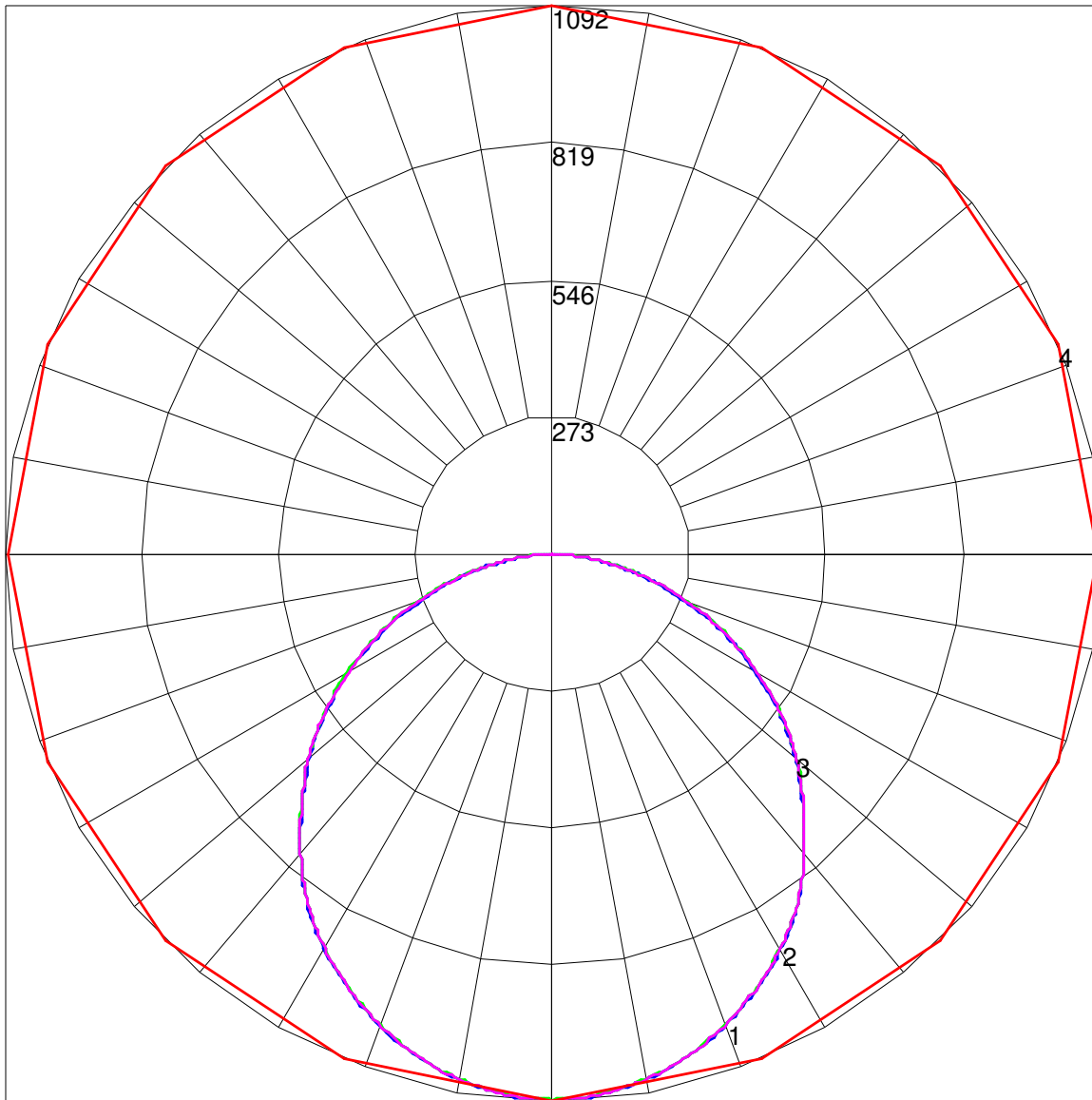
Reflectances

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	13.5	15.2	13.9	15.5	15.8	13.5	15.1	13.9	15.4	15.8
	3H	15.4	16.9	15.8	17.2	17.5	15.3	16.8	15.7	17.1	17.5
	4H	16.1	17.5	16.5	17.8	18.2	15.9	17.3	16.3	17.7	18.0
	6H	16.5	17.8	17.0	18.2	18.6	16.3	17.6	16.7	18.0	18.4
	8H	16.7	17.9	17.1	18.3	18.7	16.4	17.7	16.9	18.1	18.5
	12H	16.8	17.9	17.2	18.3	18.7	16.5	17.7	16.9	18.1	18.5
4H	2H	14.2	15.5	14.6	15.9	16.3	14.1	15.5	14.5	15.9	16.2
	3H	16.2	17.4	16.6	17.8	18.2	16.1	17.3	16.5	17.7	18.1
	4H	17.0	18.1	17.4	18.5	18.9	16.9	17.9	17.3	18.3	18.8
	6H	17.6	18.5	18.1	19.0	19.4	17.4	18.3	17.8	18.8	19.2
	8H	17.8	18.7	18.2	19.1	19.6	17.5	18.4	18.0	18.8	19.3
	12H	17.9	18.7	18.4	19.2	19.6	17.6	18.4	18.1	18.9	19.3
8H	4H	17.3	18.1	17.7	18.6	19.1	17.2	18.0	17.6	18.5	18.9
	6H	18.0	18.7	18.5	19.2	19.7	17.8	18.5	18.3	19.0	19.5
	8H	18.2	18.9	18.8	19.4	19.9	18.0	18.6	18.5	19.1	19.6
	12H	18.4	19.0	18.9	19.5	20.0	18.1	18.7	18.6	19.2	19.7
12H	4H	17.3	18.1	17.8	18.6	19.0	17.2	18.0	17.7	18.4	18.9
	6H	18.0	18.7	18.6	19.2	19.7	17.8	18.5	18.4	18.9	19.5
	8H	18.3	18.9	18.8	19.4	19.9	18.1	18.6	18.6	19.1	19.7

Maximum UGR = 20.0

POLAR GRAPH



Maximum Candela = 1091.842 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.)