



IES INDOOR REPORT
PHOTOMETRIC FILENAME : APC-22-L30-840-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-L30-840-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	2902
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
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	3069	3031	3061
55	2974	2913	2963
65	2792	2706	2745
75	2446	2286	2323
85	1468	1334	1408

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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	1042.367	1042.367	1042.367	1042.367	1042.367
0.5	1040.343	1042.367	1043.379	1043.379	1043.379
1.0	1040.343	1043.379	1043.379	1043.379	1043.379
1.5	1039.331	1042.367	1042.367	1042.367	1042.367
2.0	1038.319	1042.367	1042.367	1042.367	1041.355
2.5	1038.319	1041.355	1042.367	1042.367	1041.355
3.0	1037.307	1040.343	1041.355	1041.355	1041.355
3.5	1037.307	1040.343	1040.343	1040.343	1040.343
4.0	1036.295	1039.331	1039.331	1039.331	1040.343
4.5	1035.283	1038.319	1038.319	1039.331	1038.319
5.0	1034.271	1036.295	1037.307	1038.319	1038.319
5.5	1032.247	1035.283	1036.295	1037.307	1036.295
6.0	1030.223	1034.271	1035.283	1036.295	1035.283
6.5	1029.211	1032.247	1033.259	1034.271	1035.283
7.0	1028.199	1031.235	1032.247	1033.259	1033.259
7.5	1026.175	1028.199	1030.223	1031.235	1032.247
8.0	1024.151	1027.187	1029.211	1030.223	1030.223
8.5	1022.127	1025.163	1027.187	1028.199	1029.211
9.0	1020.103	1023.139	1025.163	1027.187	1027.187
9.5	1018.079	1022.127	1023.139	1025.163	1025.163
10.0	1016.055	1020.103	1021.115	1023.139	1023.139
10.5	1014.031	1017.067	1019.091	1021.115	1021.115
11.0	1011.703	1015.043	1017.067	1019.091	1020.103
11.5	1009.578	1013.019	1015.043	1017.067	1018.079
12.0	1007.149	1010.894	1012.007	1015.043	1016.055
12.5	1005.125	1008.161	1009.679	1013.019	1014.031
13.0	1002.899	1005.631	1007.655	1010.185	1011.299
13.5	999.964	1002.292	1005.125	1007.757	1008.566
14.0	996.827	999.863	1002.089	1004.822	1005.935
14.5	993.487	997.333	999.357	1001.988	1002.899
15.0	990.957	994.196	996.321	998.851	999.863
15.5	988.630	990.755	993.386	995.916	997.130
16.0	985.290	987.516	990.350	992.576	993.690
16.5	982.254	984.480	987.314	989.136	990.654
17.0	978.206	981.849	983.671	985.695	986.909
17.5	974.866	978.510	980.432	981.849	982.962
18.0	971.729	974.664	976.688	978.206	979.218
18.5	967.782	971.021	973.247	973.956	974.968
19.0	964.341	967.479	969.402	970.110	971.122
19.5	960.395	963.734	965.455	965.961	967.681
20.0	957.156	960.192	961.710	961.508	963.431
20.5	953.209	956.144	957.763	957.359	959.281
21.0	949.364	951.995	953.614	953.209	954.930
21.5	945.316	947.745	949.465	949.161	950.477
22.0	940.762	943.899	944.911	944.607	946.125
22.5	936.511	939.750	940.357	940.053	941.875
23.0	932.362	935.499	935.904	935.600	937.624
23.5	928.415	930.743	931.654	930.743	933.374
24.0	924.064	926.695	926.594	926.290	928.921
24.5	919.408	922.444	921.938	921.938	924.367
25.0	914.956	918.599	916.980	917.384	919.914
25.5	909.794	913.944	912.426	912.223	915.057
26.0	905.746	909.086	907.770	907.770	910.503
26.5	901.192	904.329	902.811	903.014	905.038

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CANDELA TABULATION - (Cont.)

27.0	897.043	900.079	898.055	897.954	900.686
27.5	891.882	895.323	892.691	893.096	896.335
28.0	887.530	890.667	887.834	888.036	891.781
28.5	882.571	886.012	882.875	882.875	886.923
29.0	877.714	880.952	877.916	878.118	881.762
29.5	872.552	875.791	872.552	872.957	876.499
30.0	867.695	871.136	867.290	867.998	871.136
30.5	862.230	866.177	862.129	862.635	866.582
31.0	857.372	861.218	856.563	857.069	860.813
31.5	852.312	855.551	851.300	851.806	855.045
32.0	847.556	850.086	845.835	846.139	849.681
32.5	841.990	844.722	840.168	840.371	844.722
33.0	836.424	839.055	834.197	835.108	838.549
33.5	830.655	833.590	828.530	828.935	833.084
34.0	825.292	827.417	822.458	823.065	827.518
34.5	819.523	821.041	816.487	817.196	821.041
35.0	813.654	815.070	810.010	810.921	814.969
35.5	807.986	809.201	803.331	804.141	808.796
36.0	801.510	802.724	796.854	797.563	802.319
36.5	794.729	796.146	790.175	790.985	796.146
37.0	788.657	789.467	783.496	784.204	789.062
37.5	782.079	782.180	776.715	777.323	782.281
38.0	775.197	775.400	769.834	770.542	775.501
38.5	768.417	768.518	762.648	763.559	768.012
39.0	761.029	761.333	755.564	756.678	761.130
39.5	754.552	753.844	748.480	749.594	753.338
40.0	747.873	746.760	741.295	742.408	746.558
40.5	740.081	739.575	734.110	735.324	739.777
41.0	733.098	732.693	726.925	728.038	732.693
41.5	725.710	725.508	719.739	720.751	726.014
42.0	718.525	717.918	712.352	713.870	718.424
42.5	712.048	710.631	704.964	706.786	711.441
43.0	704.762	703.345	697.981	699.499	704.458
43.5	698.082	696.564	690.796	692.314	697.678
44.0	691.808	689.278	683.712	685.230	691.100
44.5	685.028	681.688	676.729	678.146	683.611
45.0	678.146	674.907	669.746	671.264	676.527
45.5	671.467	667.520	662.763	663.877	669.746
46.0	664.787	660.638	655.477	657.197	662.763
46.5	657.501	653.655	647.988	649.708	655.578
47.0	650.214	646.571	641.511	642.726	648.190
47.5	643.130	639.184	633.921	635.743	641.005
48.0	636.451	631.998	627.748	629.873	634.832
48.5	630.480	627.343	622.789	624.510	628.659
49.0	624.611	620.866	615.199	617.223	622.587
49.5	617.527	613.377	607.811	609.633	615.705
50.0	609.937	605.686	600.323	602.245	608.216
50.5	602.448	598.197	592.631	594.655	600.221
51.0	594.554	590.708	584.940	586.964	592.530
51.5	586.964	583.017	577.148	579.273	585.041
52.0	579.070	575.225	569.254	571.480	577.755
52.5	571.683	567.230	561.563	563.688	570.064
53.0	564.295	559.134	553.871	556.098	561.967
53.5	556.503	551.341	545.978	548.204	554.276
54.0	548.811	543.448	538.084	540.513	546.686
54.5	540.715	535.453	530.089	532.518	539.096

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CANDELA TABULATION - (Cont.)

55.0	533.125	527.256	522.094	524.523	531.202
55.5	525.434	519.261	514.100	516.427	522.904
56.0	517.642	511.064	506.206	508.534	515.112
56.5	510.052	502.967	497.806	500.437	507.016
57.0	501.955	494.871	489.710	492.038	498.818
57.5	493.657	486.775	481.614	483.942	490.925
58.0	485.359	478.376	473.619	475.846	482.424
58.5	477.263	470.077	465.422	467.750	473.923
59.0	468.964	462.082	457.225	459.654	464.916
59.5	460.767	453.986	448.825	451.456	456.719
60.0	452.468	445.890	440.628	443.360	448.117
60.5	444.069	437.794	432.532	435.062	439.515
61.0	435.973	429.395	424.233	426.561	430.811
61.5	427.472	421.197	416.036	417.959	422.311
62.0	418.971	413.101	407.738	409.357	413.810
62.5	410.369	404.904	399.540	400.755	405.309
63.0	401.767	396.403	391.040	392.153	396.808
63.5	393.671	387.902	382.842	383.551	388.206
64.0	385.473	379.300	374.443	374.949	379.604
64.5	377.175	370.799	365.841	366.245	371.103
65.0	368.775	362.197	357.340	357.542	362.501
65.5	360.274	353.595	348.940	348.636	353.798
66.0	351.875	344.993	340.540	339.832	345.196
66.5	343.475	336.290	331.938	331.129	336.492
67.0	334.873	327.688	323.134	322.425	327.688
67.5	326.473	319.187	314.431	313.621	318.883
68.0	317.770	310.686	305.626	304.614	310.079
68.5	309.269	301.882	296.923	295.911	301.274
69.0	300.971	293.178	288.118	287.106	292.268
69.5	292.470	284.779	279.314	278.403	283.463
70.0	283.767	276.177	270.509	269.801	274.861
70.5	275.064	267.777	261.806	261.098	266.057
71.0	266.259	259.276	253.103	252.395	257.252
71.5	257.455	250.877	244.400	243.792	248.245
72.0	249.055	242.477	235.899	235.190	239.542
72.5	240.250	233.976	227.094	226.690	230.940
73.0	231.446	225.678	218.594	217.986	222.439
73.5	223.046	217.278	210.093	209.485	213.837
74.0	214.545	208.878	201.693	201.187	205.033
74.5	206.247	200.580	193.192	192.889	196.532
75.0	197.847	192.281	184.894	184.489	187.930
75.5	189.549	184.084	176.595	176.089	179.631
76.0	181.352	175.887	168.297	167.690	170.827
76.5	173.256	167.588	160.100	159.189	162.124
77.0	165.160	159.391	152.003	150.587	153.218
77.5	156.962	151.194	143.907	142.086	144.211
78.0	149.069	143.199	135.811	133.585	135.407
78.5	140.871	135.002	127.816	125.084	126.096
79.0	132.877	126.804	119.822	116.482	116.381
79.5	124.679	118.911	111.928	107.678	105.856
80.0	116.786	111.017	104.136	98.367	96.545
80.5	108.791	103.124	96.242	89.057	89.967
81.0	100.897	95.432	88.551	81.669	83.997
81.5	92.902	87.842	80.758	75.698	78.026
82.0	85.009	80.353	73.168	69.930	72.156
82.5	77.317	72.966	65.477	64.262	66.388

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CANDELA TABULATION - (Cont.)

83.0	69.525	65.679	58.393	58.595	60.720
83.5	61.834	58.494	52.422	53.029	55.053
84.0	54.244	51.511	46.957	47.564	49.285
84.5	46.957	44.832	41.593	42.201	43.820
85.0	39.974	38.557	36.331	36.837	38.355
85.5	33.801	32.789	31.170	31.575	32.991
86.0	28.235	27.527	26.211	26.515	27.628
86.5	23.276	22.669	21.353	21.455	22.264
87.0	18.925	18.014	16.799	16.597	17.103
87.5	14.978	13.864	12.346	11.739	11.840
88.0	11.537	10.120	8.400	6.882	6.173
88.5	8.400	7.084	5.161	3.340	2.530
89.0	5.465	4.554	2.732	1.822	1.619
89.5	3.036	2.631	1.417	1.113	1.113
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

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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-L30-840-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-L30-840-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	379.44	N.A.	13.10
0-30	802.40	N.A.	27.70
0-40	1309.91	N.A.	45.10
0-60	2300.42	N.A.	79.30
0-80	2856.08	N.A.	98.40
0-90	2901.98	N.A.	100.00
10-90	2803.51	N.A.	96.60
20-40	930.47	N.A.	32.10
20-50	1450.65	N.A.	50.00
40-70	1346.95	N.A.	46.40
60-80	555.66	N.A.	19.10
70-80	199.23	N.A.	6.90
80-90	45.90	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	2901.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	98.47
10-20	280.97
20-30	422.96
30-40	507.51
40-50	520.18
50-60	470.33
60-70	356.44
70-80	199.23
80-90	45.90
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-L30-840-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-L30-840-DIM-UNV_.IES

UGR TABLE - CORRECTED

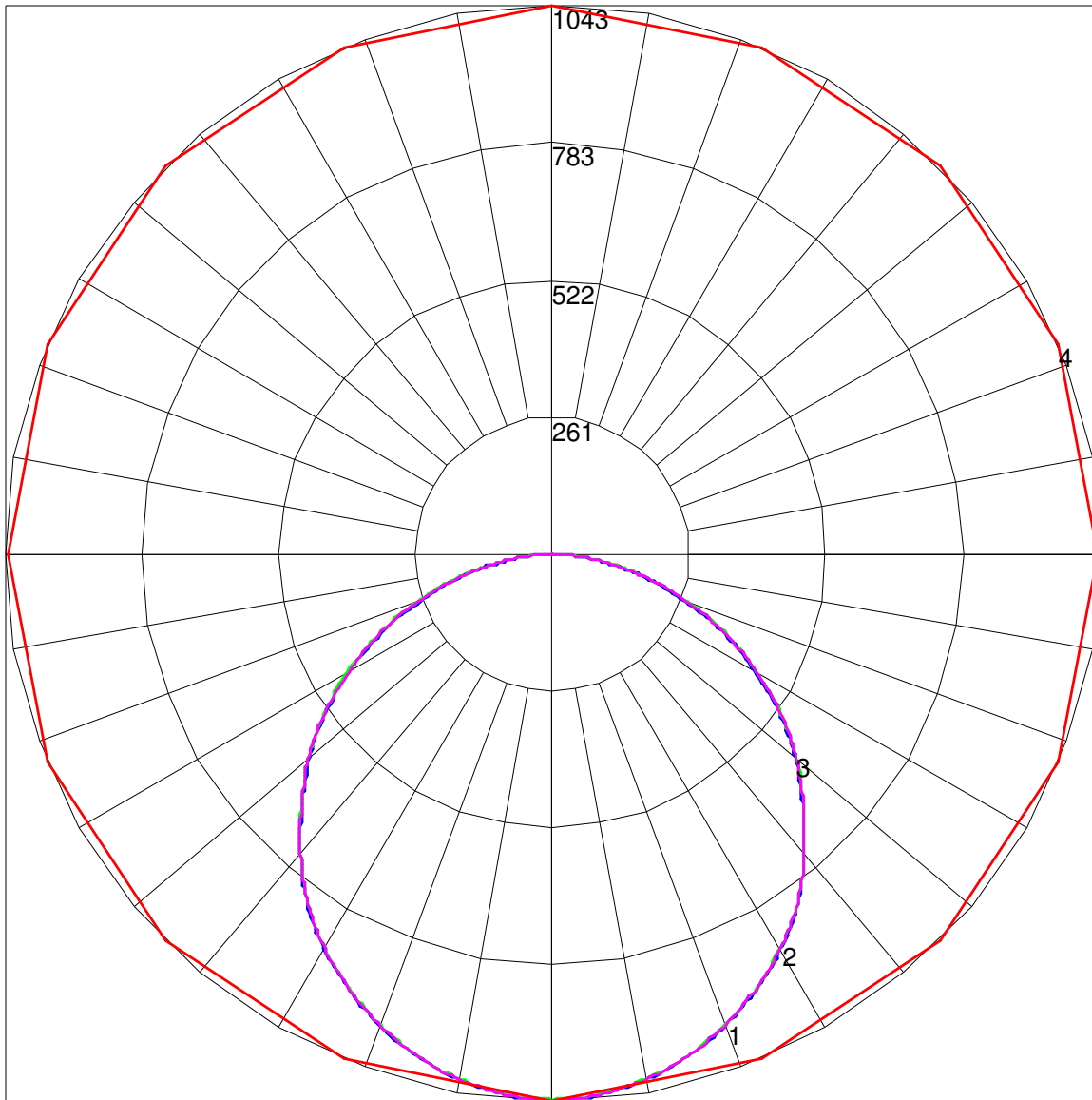
Reflectances

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	15.9	17.6	16.3	17.9	18.2	15.9	17.5	16.3	17.8	18.2
	3H	17.8	19.3	18.2	19.6	19.9	17.7	19.2	18.1	19.5	19.9
	4H	18.5	19.8	18.9	20.2	20.6	18.3	19.7	18.7	20.1	20.4
	6H	18.9	20.2	19.4	20.6	21.0	18.7	20.0	19.1	20.4	20.8
	8H	19.1	20.3	19.5	20.7	21.1	18.8	20.1	19.3	20.5	20.8
	12H	19.1	20.3	19.6	20.7	21.1	18.9	20.1	19.3	20.5	20.9
4H	2H	16.6	17.9	17.0	18.3	18.7	16.5	17.9	16.9	18.3	18.6
	3H	18.6	19.8	19.0	20.2	20.6	18.5	19.7	18.9	20.1	20.5
	4H	19.4	20.5	19.8	20.9	21.3	19.3	20.3	19.7	20.7	21.2
	6H	20.0	20.9	20.5	21.4	21.8	19.8	20.7	20.2	21.1	21.6
	8H	20.2	21.1	20.6	21.5	22.0	19.9	20.8	20.4	21.2	21.7
	12H	20.3	21.1	20.8	21.6	22.0	20.0	20.8	20.5	21.3	21.7
8H	4H	19.7	20.5	20.1	21.0	21.4	19.5	20.4	20.0	20.9	21.3
	6H	20.4	21.1	20.9	21.6	22.1	20.2	20.9	20.7	21.4	21.8
	8H	20.6	21.3	21.1	21.8	22.3	20.4	21.0	20.9	21.5	22.0
	12H	20.8	21.4	21.3	21.9	22.4	20.5	21.1	21.0	21.6	22.1
12H	4H	19.7	20.5	20.2	21.0	21.4	19.6	20.4	20.1	20.8	21.3
	6H	20.4	21.1	21.0	21.5	22.1	20.2	20.9	20.7	21.3	21.9
	8H	20.7	21.3	21.2	21.8	22.3	20.5	21.0	21.0	21.5	22.1

Maximum UGR = 22.4

POLAR GRAPH



Maximum Candela = 1043.379 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.)