



IES INDOOR REPORT

PHOTOMETRIC FILENAME : APC-22-L30-830-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-L30-830-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	2789
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	110
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	2950	2913	2943
55	2859	2800	2848
65	2684	2601	2638
75	2351	2197	2233
85	1411	1282	1354

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APC-22-L30-830-DIM-UNV_.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1001.887	1001.887	1001.887	1001.887	1001.887
0.5	999.942	1001.887	1002.860	1002.860	1002.860
1.0	999.942	1002.860	1002.860	1002.860	1002.860
1.5	998.969	1001.887	1001.887	1001.887	1001.887
2.0	997.996	1001.887	1001.887	1001.887	1000.915
2.5	997.996	1000.915	1001.887	1001.887	1000.915
3.0	997.024	999.942	1000.915	1000.915	1000.915
3.5	997.024	999.942	999.942	999.942	999.942
4.0	996.051	998.969	998.969	998.969	999.942
4.5	995.078	997.996	997.996	998.969	997.996
5.0	994.106	996.051	997.024	997.996	997.996
5.5	992.160	995.078	996.051	997.024	996.051
6.0	990.215	994.106	995.078	996.051	995.078
6.5	989.242	992.160	993.133	994.106	995.078
7.0	988.269	991.187	992.160	993.133	993.133
7.5	986.324	988.269	990.215	991.187	992.160
8.0	984.379	987.297	989.242	990.215	990.215
8.5	982.433	985.351	987.297	988.269	989.242
9.0	980.488	983.406	985.351	987.297	987.297
9.5	978.542	982.433	983.406	985.351	985.351
10.0	976.597	980.488	981.460	983.406	983.406
10.5	974.651	977.570	979.515	981.460	981.460
11.0	972.414	975.624	977.570	979.515	980.488
11.5	970.372	973.679	975.624	977.570	978.542
12.0	968.037	971.636	972.706	975.624	976.597
12.5	966.092	969.010	970.469	973.679	974.651
13.0	963.952	966.578	968.523	970.955	972.025
13.5	961.131	963.368	966.092	968.621	969.399
14.0	958.115	961.034	963.174	965.800	966.870
14.5	954.906	958.602	960.547	963.076	963.952
15.0	952.474	955.586	957.629	960.061	961.034
15.5	950.237	952.279	954.808	957.240	958.407
16.0	947.027	949.167	951.890	954.030	955.100
16.5	944.109	946.248	948.972	950.723	952.182
17.0	940.218	943.719	945.470	947.416	948.583
17.5	937.008	940.510	942.358	943.719	944.789
18.0	933.992	936.813	938.759	940.218	941.190
18.5	930.199	933.311	935.451	936.132	937.105
19.0	926.892	929.907	931.755	932.436	933.409
19.5	923.098	926.308	927.962	928.448	930.102
20.0	919.985	922.904	924.363	924.168	926.016
20.5	916.192	919.013	920.569	920.180	922.028
21.0	912.496	915.025	916.581	916.192	917.845
21.5	908.605	910.939	912.593	912.301	913.566
22.0	904.228	907.243	908.216	907.924	909.383
22.5	900.142	903.255	903.838	903.547	905.298
23.0	896.154	899.169	899.559	899.267	901.212
23.5	892.361	894.598	895.473	894.598	897.127
24.0	888.178	890.707	890.610	890.318	892.847
24.5	883.703	886.622	886.135	886.135	888.470
25.0	879.424	882.925	881.369	881.758	884.190
25.5	874.463	878.451	876.992	876.797	879.521
26.0	870.572	873.782	872.517	872.517	875.144
26.5	866.195	869.210	867.751	867.946	869.891

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APC-22-L30-830-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	862.207	865.125	863.179	863.082	865.708
27.5	857.246	860.553	858.024	858.413	861.526
28.0	853.063	856.079	853.355	853.550	857.149
28.5	848.297	851.604	848.589	848.589	852.480
29.0	843.628	846.741	843.823	844.017	847.519
29.5	838.667	841.780	838.667	839.056	842.461
30.0	833.998	837.305	833.609	834.290	837.305
30.5	828.746	832.539	828.648	829.135	832.928
31.0	824.077	827.773	823.298	823.785	827.384
31.5	819.213	822.326	818.240	818.727	821.839
32.0	814.641	817.073	812.988	813.280	816.684
32.5	809.291	811.918	807.541	807.735	811.918
33.0	803.942	806.471	801.802	802.677	805.984
33.5	798.397	801.218	796.354	796.744	800.732
34.0	793.242	795.284	790.518	791.102	795.382
34.5	787.697	789.156	784.779	785.460	789.156
35.0	782.056	783.417	778.554	779.429	783.320
35.5	776.609	777.776	772.134	772.912	777.387
36.0	770.383	771.550	765.909	766.590	771.161
36.5	763.866	765.228	759.489	760.267	765.228
37.0	758.030	758.808	753.069	753.750	758.419
37.5	751.707	751.805	746.552	747.136	751.902
38.0	745.093	745.287	739.938	740.618	745.385
38.5	738.576	738.673	733.031	733.907	738.187
39.0	731.475	731.767	726.222	727.292	731.572
39.5	725.250	724.569	719.413	720.483	724.082
40.0	718.830	717.760	712.507	713.577	717.565
40.5	711.340	710.854	705.601	706.768	711.048
41.0	704.628	704.239	698.695	699.765	704.239
41.5	697.528	697.333	691.789	692.761	697.819
42.0	690.621	690.038	684.688	686.147	690.524
42.5	684.396	683.034	677.587	679.338	683.812
43.0	677.393	676.031	670.875	672.334	677.101
43.5	670.973	669.514	663.969	665.428	670.584
44.0	664.942	662.510	657.160	658.619	664.261
44.5	658.425	655.215	650.449	651.810	657.063
45.0	651.810	648.698	643.737	645.196	650.254
45.5	645.390	641.597	637.025	638.095	643.737
46.0	638.971	634.983	630.022	631.675	637.025
46.5	631.967	628.271	622.824	624.477	630.119
47.0	624.964	621.462	616.598	617.766	623.018
47.5	618.155	614.361	609.303	611.054	616.112
48.0	611.735	607.455	603.370	605.412	610.179
48.5	605.996	602.980	598.603	600.257	604.245
49.0	600.354	596.755	591.308	593.253	598.409
49.5	593.545	589.557	584.207	585.958	591.794
50.0	586.250	582.165	577.009	578.857	584.596
50.5	579.052	574.967	569.617	571.562	576.912
51.0	571.465	567.769	562.224	564.170	569.519
51.5	564.170	560.376	554.734	556.777	562.321
52.0	556.582	552.886	547.147	549.287	555.318
52.5	549.482	545.202	539.755	541.797	547.925
53.0	542.381	537.420	532.362	534.502	540.144
53.5	534.891	529.930	524.775	526.915	532.751
54.0	527.499	522.343	517.188	519.522	525.456
54.5	519.717	514.659	509.503	511.838	518.161

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APC-22-L30-830-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

55.0	512.422	506.780	501.819	504.154	510.573
55.5	505.029	499.095	494.135	496.372	502.597
56.0	497.539	491.217	486.548	488.785	495.107
56.5	490.244	483.435	478.474	481.003	487.326
57.0	482.462	475.653	470.692	472.930	479.447
57.5	474.486	467.872	462.911	465.148	471.860
58.0	466.510	459.798	455.226	457.366	463.689
58.5	458.728	451.822	447.348	449.585	455.518
59.0	450.752	444.138	439.469	441.803	446.861
59.5	442.873	436.356	431.395	433.924	438.982
60.0	434.897	428.574	423.516	426.143	430.714
60.5	426.823	420.793	415.735	418.166	422.446
61.0	419.042	412.719	407.758	409.996	414.081
61.5	410.871	404.840	399.879	401.728	405.910
62.0	402.700	397.059	391.903	393.460	397.740
62.5	394.432	389.180	384.024	385.192	389.569
63.0	386.164	381.009	375.854	376.924	381.398
63.5	378.383	372.838	367.975	368.656	373.130
64.0	370.504	364.570	359.901	360.388	364.862
64.5	362.528	356.400	351.633	352.022	356.691
65.0	354.454	348.132	343.463	343.657	348.423
65.5	346.283	339.864	335.389	335.097	340.058
66.0	338.210	331.596	327.316	326.635	331.790
66.5	330.136	323.230	319.048	318.269	323.425
67.0	321.868	314.962	310.585	309.904	314.962
67.5	313.795	306.791	302.220	301.442	306.500
68.0	305.430	298.621	293.757	292.785	298.037
68.5	297.259	290.158	285.392	284.419	289.575
69.0	289.283	281.793	276.929	275.957	280.918
69.5	281.112	273.719	268.467	267.591	272.455
70.0	272.747	265.451	260.004	259.323	264.187
70.5	264.382	257.378	251.639	250.958	255.724
71.0	255.919	249.207	243.274	242.593	247.262
71.5	247.456	241.134	234.909	234.325	238.605
72.0	239.383	233.060	226.738	226.057	230.240
72.5	230.920	224.890	218.275	217.886	221.972
73.0	222.458	216.913	210.105	209.521	213.801
73.5	214.384	208.840	201.934	201.350	205.533
74.0	206.214	200.767	193.860	193.374	197.070
74.5	198.237	192.790	185.690	185.398	188.900
75.0	190.164	184.814	177.713	177.324	180.632
75.5	182.188	176.935	169.737	169.251	172.655
76.0	174.309	169.056	161.761	161.177	164.193
76.5	166.527	161.080	153.882	153.007	155.828
77.0	158.746	153.201	146.100	144.739	147.268
77.5	150.867	145.322	138.319	136.568	138.611
78.0	143.280	137.638	130.537	128.397	130.148
78.5	135.401	129.759	122.853	120.226	121.199
79.0	127.716	121.880	115.168	111.958	111.861
79.5	119.837	114.293	107.581	103.496	101.745
80.0	112.250	106.706	100.091	94.547	92.796
80.5	104.566	99.119	92.504	85.598	86.474
81.0	96.979	91.726	85.112	78.497	80.735
81.5	89.294	84.431	77.622	72.758	74.996
82.0	81.707	77.233	70.327	67.214	69.354
82.5	74.315	70.132	62.934	61.767	63.810

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APC-22-L30-830-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

83.0	66.825	63.129	56.125	56.320	58.362
83.5	59.432	56.222	50.386	50.970	52.915
84.0	52.137	49.511	45.134	45.717	47.371
84.5	45.134	43.091	39.978	40.562	42.118
85.0	38.422	37.060	34.920	35.407	36.866
85.5	32.488	31.516	29.959	30.348	31.710
86.0	27.138	26.458	25.193	25.485	26.555
86.5	22.372	21.789	20.524	20.621	21.400
87.0	18.190	17.314	16.147	15.952	16.439
87.5	14.396	13.326	11.867	11.283	11.381
88.0	11.089	9.727	8.073	6.614	5.934
88.5	8.073	6.809	4.961	3.210	2.432
89.0	5.253	4.377	2.626	1.751	1.556
89.5	2.918	2.529	1.362	1.070	1.070
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

IES INDOOR REPORT
PHOTOMETRIC FILENAME : APC-22-L30-830-DIM-UNV_.IES

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-L30-830-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-L30-830-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-L30-830-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	364.71	N.A.	13.10
0-30	771.24	N.A.	27.70
0-40	1259.04	N.A.	45.10
0-60	2211.08	N.A.	79.30
0-80	2745.17	N.A.	98.40
0-90	2789.28	N.A.	100.00
10-90	2694.64	N.A.	96.60
20-40	894.33	N.A.	32.10
20-50	1394.31	N.A.	50.00
40-70	1294.64	N.A.	46.40
60-80	534.08	N.A.	19.10
70-80	191.49	N.A.	6.90
80-90	44.11	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	2789.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	94.65
10-20	270.06
20-30	406.53
30-40	487.80
40-50	499.98
50-60	452.06
60-70	342.59
70-80	191.49
80-90	44.11
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-L30-830-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	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	61	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-L30-830-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	15.8	17.5	16.2	17.8	18.1	UGR Viewed Endwise				
	3H	17.7	19.2	18.1	19.5	19.8	15.8	17.4	16.2	17.7	18.1
	4H	18.4	19.7	18.8	20.1	20.5	17.6	19.1	18.0	19.4	19.7
	6H	18.8	20.1	19.2	20.5	20.9	18.2	19.6	18.6	20.0	20.3
	8H	19.0	20.2	19.4	20.6	21.0	18.6	19.9	19.0	20.3	20.7
	12H	19.0	20.2	19.5	20.6	21.0	18.7	20.0	19.2	20.3	20.7

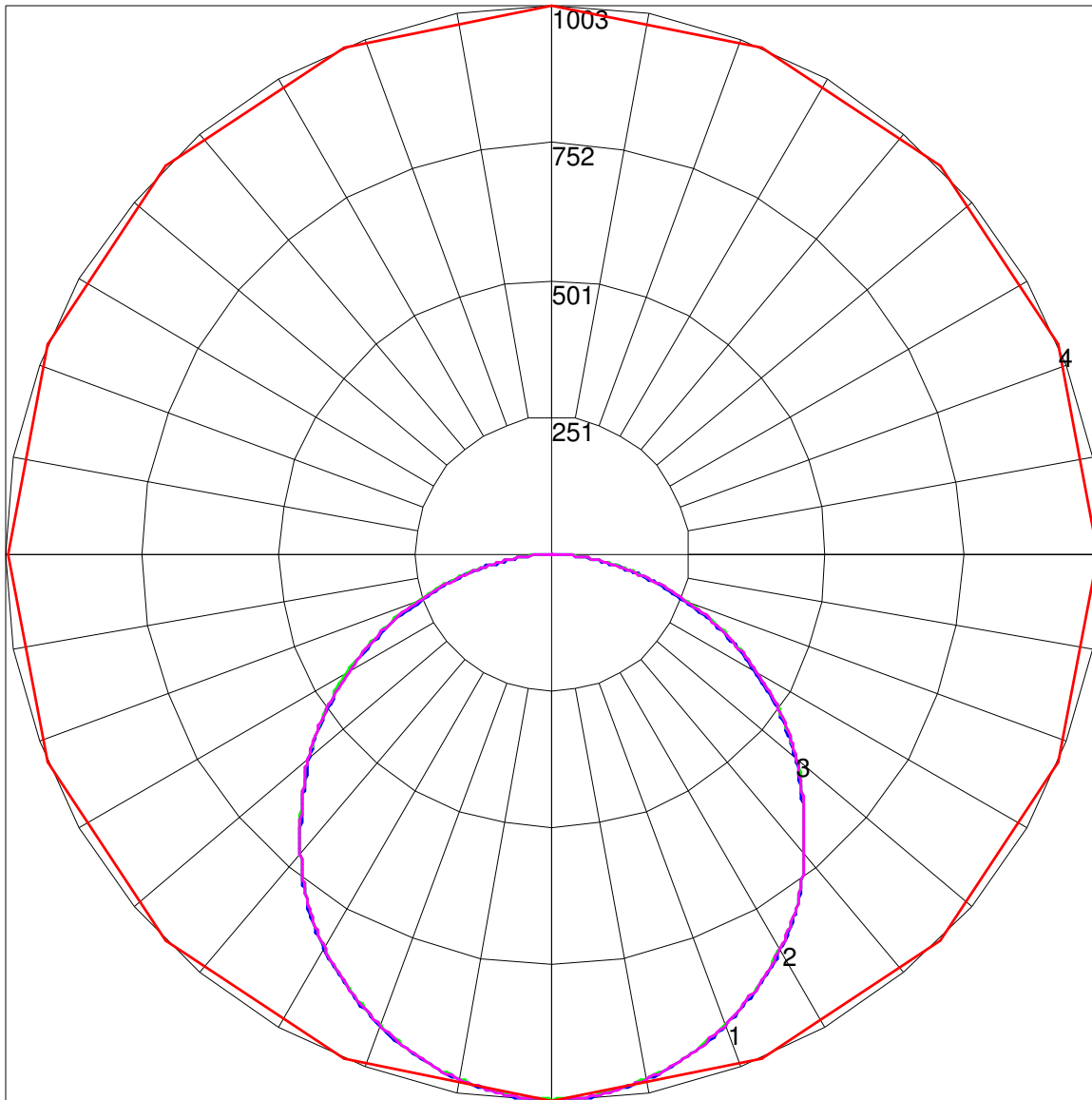
4H	2H	16.5	17.8	16.8	18.2	18.6	18.8	20.1	16.4	17.8	16.8	18.2	18.5
	3H	18.5	19.7	18.9	20.1	20.5	18.4	19.6	18.8	20.0	20.0	20.0	20.4
	4H	19.3	20.4	19.7	20.8	21.2	19.2	20.2	19.6	20.6	20.6	20.6	21.1
	6H	19.9	20.8	20.4	21.3	21.7	19.7	20.6	20.1	21.0	21.0	21.0	21.5
	8H	20.1	21.0	20.5	21.4	21.9	19.8	20.7	20.3	21.1	21.1	21.1	21.6
	12H	20.2	21.0	20.7	21.4	21.9	19.9	20.7	20.4	21.2	21.2	21.2	21.6

8H	4H	19.6	20.4	20.0	20.9	21.3	19.4	20.3	19.9	20.8	21.2		
	6H	20.3	21.0	20.8	21.5	22.0	20.1	20.8	20.6	21.3	21.7		
	8H	20.5	21.2	21.0	21.7	22.2	20.3	20.9	20.8	21.4	21.9		
	12H	20.7	21.3	21.2	21.7	22.3	20.4	21.0	20.9	21.5	22.0		

12H	4H	19.6	20.4	20.1	20.8	21.3	19.5	20.3	20.0	20.7	21.2		
	6H	20.3	21.0	20.9	21.4	22.0	20.1	20.8	20.6	21.2	21.8		
	8H	20.6	21.2	21.1	21.7	22.2	20.3	20.9	20.9	21.4	22.0		

Maximum UGR = 22.3

POLAR GRAPH



Maximum Candela = 1002.86 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.)