



IES INDOOR REPORT

PHOTOMETRIC FILENAME : APC-24-L30-830-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-24-L30-830-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	2836
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
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	1422	1404	1418
55	1378	1349	1373
65	1293	1253	1271
75	1133	1059	1076
85	680	618	652

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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	1018.751	1018.751	1018.751	1018.751	1018.751
0.5	1016.772	1018.751	1019.740	1019.740	1019.740
1.0	1016.772	1019.740	1019.740	1019.740	1019.740
1.5	1015.783	1018.751	1018.751	1018.751	1018.751
2.0	1014.794	1018.751	1018.751	1018.751	1017.762
2.5	1014.794	1017.762	1018.751	1018.751	1017.762
3.0	1013.805	1016.772	1017.762	1017.762	1017.762
3.5	1013.805	1016.772	1016.772	1016.772	1016.772
4.0	1012.816	1015.783	1015.783	1015.783	1016.772
4.5	1011.827	1014.794	1014.794	1015.783	1014.794
5.0	1010.838	1012.816	1013.805	1014.794	1014.794
5.5	1008.860	1011.827	1012.816	1013.805	1012.816
6.0	1006.882	1010.838	1011.827	1012.816	1011.827
6.5	1005.893	1008.860	1009.849	1010.838	1011.827
7.0	1004.904	1007.871	1008.860	1009.849	1009.849
7.5	1002.925	1004.904	1006.882	1007.871	1008.860
8.0	1000.947	1003.914	1005.893	1006.882	1006.882
8.5	998.969	1001.936	1003.914	1004.904	1005.893
9.0	996.991	999.958	1001.936	1003.914	1003.914
9.5	995.013	998.969	999.958	1001.936	1001.936
10.0	993.035	996.991	997.980	999.958	999.958
10.5	991.056	994.024	996.002	997.980	997.980
11.0	988.782	992.046	994.024	996.002	996.991
11.5	986.704	990.067	992.046	994.024	995.013
12.0	984.331	987.990	989.078	992.046	993.035
12.5	982.353	985.320	986.803	990.067	991.056
13.0	980.177	982.847	984.825	987.298	988.386
13.5	977.308	979.583	982.353	984.924	985.715
14.0	974.242	977.209	979.385	982.056	983.144
14.5	970.978	974.737	976.715	979.286	980.177
15.0	968.505	971.671	973.748	976.220	977.209
15.5	966.231	968.308	970.879	973.352	974.539
16.0	962.967	965.143	967.912	970.088	971.176
16.5	959.999	962.175	964.945	966.725	968.209
17.0	956.043	959.604	961.384	963.362	964.549
17.5	952.779	956.340	958.219	959.604	960.692
18.0	949.713	952.581	954.559	956.043	957.032
18.5	945.856	949.021	951.197	951.889	952.878
19.0	942.493	945.559	947.438	948.130	949.120
19.5	938.635	941.899	943.581	944.075	945.757
20.0	935.470	938.437	939.921	939.723	941.603
20.5	931.613	934.481	936.064	935.668	937.547
21.0	927.854	930.426	932.008	931.613	933.294
21.5	923.898	926.272	927.953	927.657	928.942
22.0	919.447	922.513	923.502	923.206	924.689
22.5	915.293	918.458	919.052	918.755	920.535
23.0	911.238	914.304	914.700	914.403	916.381
23.5	907.380	909.655	910.545	909.655	912.227
24.0	903.127	905.699	905.600	905.303	907.875
24.5	898.578	901.545	901.050	901.050	903.424
25.0	894.226	897.786	896.204	896.599	899.072
25.5	889.181	893.237	891.753	891.555	894.325
26.0	885.225	888.489	887.203	887.203	889.874
26.5	880.774	883.840	882.357	882.555	884.533

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CANDELA TABULATION - (Cont.)

27.0	876.719	879.686	877.708	877.609	880.280
27.5	871.675	875.038	872.466	872.862	876.027
28.0	867.422	870.488	867.718	867.916	871.576
28.5	862.575	865.938	862.872	862.872	866.828
29.0	857.828	860.993	858.025	858.223	861.784
29.5	852.783	855.948	852.783	853.179	856.641
30.0	848.036	851.399	847.640	848.332	851.399
30.5	842.695	846.552	842.596	843.090	846.948
31.0	837.947	841.706	837.156	837.650	841.310
31.5	833.002	836.167	832.013	832.507	835.672
32.0	828.353	830.826	826.672	826.968	830.430
32.5	822.913	825.584	821.133	821.331	825.584
33.0	817.473	820.045	815.297	816.187	819.550
33.5	811.835	814.704	809.758	810.154	814.209
34.0	806.593	808.670	803.824	804.417	808.769
34.5	800.956	802.439	797.988	798.681	802.439
35.0	795.219	796.604	791.658	792.548	796.505
35.5	789.680	790.867	785.130	785.922	790.471
36.0	783.350	784.537	778.800	779.493	784.141
36.5	776.723	778.108	772.272	773.064	778.108
37.0	770.789	771.580	765.744	766.437	771.184
37.5	764.360	764.459	759.118	759.711	764.558
38.0	757.634	757.832	752.392	753.084	757.931
38.5	751.007	751.106	745.369	746.260	750.612
39.0	743.787	744.084	738.446	739.534	743.886
39.5	737.457	736.764	731.522	732.610	736.270
40.0	730.929	729.841	724.500	725.588	729.643
40.5	723.313	722.818	717.477	718.664	723.016
41.0	716.488	716.093	710.455	711.543	716.093
41.5	709.268	709.070	703.432	704.422	709.565
42.0	702.246	701.652	696.212	697.696	702.147
42.5	695.915	694.531	688.992	690.772	695.322
43.0	688.794	687.409	682.167	683.651	688.497
43.5	682.266	680.783	675.145	676.628	681.871
44.0	676.134	673.661	668.221	669.705	675.442
44.5	669.507	666.243	661.397	662.781	668.122
45.0	662.781	659.616	654.572	656.056	661.199
45.5	656.253	652.396	647.747	648.835	654.572
46.0	649.726	645.670	640.626	642.307	647.747
46.5	642.604	638.846	633.307	634.988	640.725
47.0	635.483	631.922	626.977	628.164	633.505
47.5	628.559	624.702	619.559	621.339	626.482
48.0	622.031	617.679	613.525	615.602	620.449
48.5	616.196	613.130	608.679	610.360	614.415
49.0	610.459	606.800	601.261	603.239	608.481
49.5	603.536	599.480	594.040	595.821	601.755
50.0	596.117	591.963	586.721	588.600	594.436
50.5	588.798	584.644	579.204	581.182	586.622
51.0	581.083	577.325	571.687	573.665	579.105
51.5	573.665	569.808	564.071	566.148	571.786
52.0	565.951	562.192	556.357	558.533	564.665
52.5	558.730	554.378	548.840	550.917	557.148
53.0	551.510	546.466	541.323	543.499	549.235
53.5	543.894	538.850	533.608	535.784	541.718
54.0	536.377	531.135	525.893	528.267	534.300
54.5	528.465	523.321	518.079	520.453	526.882

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CANDELA TABULATION - (Cont.)

55.0	521.046	515.310	510.265	512.639	519.167
55.5	513.529	507.496	502.452	504.727	511.057
56.0	505.914	499.485	494.737	497.012	503.441
56.5	498.495	491.572	486.528	489.099	495.528
57.0	490.583	483.659	478.615	480.890	487.517
57.5	482.472	475.747	470.702	472.977	479.802
58.0	474.362	467.537	462.889	465.065	471.494
58.5	466.449	459.427	454.877	457.152	463.185
59.0	458.339	451.613	446.866	449.239	454.383
59.5	450.327	443.701	438.656	441.228	446.371
60.0	442.217	435.788	430.645	433.315	437.964
60.5	434.008	427.875	422.732	425.205	429.557
61.0	426.095	419.666	414.622	416.896	421.051
61.5	417.787	411.654	406.610	408.489	412.742
62.0	409.478	403.742	398.500	400.082	404.434
62.5	401.071	395.730	390.488	391.675	396.126
63.0	392.664	387.422	382.180	383.268	387.818
63.5	384.751	379.114	374.168	374.861	379.410
64.0	376.740	370.707	365.959	366.454	371.003
64.5	368.629	362.398	357.552	357.947	362.695
65.0	360.420	353.991	349.244	349.441	354.288
65.5	352.112	345.584	341.034	340.737	345.782
66.0	343.903	337.177	332.825	332.132	337.375
66.5	335.693	328.671	324.418	323.626	328.869
67.0	327.286	320.264	315.813	315.120	320.264
67.5	319.077	311.955	307.307	306.515	311.659
68.0	310.571	303.647	298.702	297.713	303.054
68.5	302.262	295.042	290.196	289.206	294.449
69.0	294.152	286.536	281.591	280.602	285.646
69.5	285.844	278.327	272.986	272.095	277.041
70.0	277.338	269.919	264.381	263.688	268.634
70.5	268.831	261.710	255.875	255.182	260.029
71.0	260.226	253.402	247.368	246.676	251.424
71.5	251.622	245.193	238.862	238.269	242.621
72.0	243.412	236.983	230.554	229.862	234.115
72.5	234.807	228.675	221.949	221.554	225.708
73.0	226.202	220.564	213.641	213.047	217.399
73.5	217.993	212.355	205.333	204.739	208.992
74.0	209.685	204.146	197.123	196.629	200.387
74.5	201.574	196.035	188.815	188.518	192.079
75.0	193.365	187.925	180.705	180.309	183.672
75.5	185.254	179.913	172.594	172.100	175.561
76.0	177.243	171.902	164.484	163.890	166.956
76.5	169.330	163.791	156.472	155.582	158.450
77.0	161.418	155.780	148.560	147.175	149.746
77.5	153.406	147.768	140.647	138.867	140.944
78.0	145.691	139.955	132.734	130.558	132.339
78.5	137.680	131.943	124.921	122.250	123.239
79.0	129.866	123.932	117.107	113.843	113.744
79.5	121.854	116.217	109.392	105.238	103.458
80.0	114.140	108.502	101.776	96.138	94.358
80.5	106.326	100.787	94.061	87.039	87.929
81.0	98.611	93.270	86.544	79.819	82.093
81.5	90.797	85.852	78.928	73.983	76.258
82.0	83.083	78.533	71.510	68.345	70.521
82.5	75.566	71.313	63.993	62.806	64.884

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CANDELA TABULATION - (Cont.)

83.0	67.950	64.191	57.070	57.268	59.345
83.5	60.433	57.169	51.234	51.828	53.806
84.0	53.015	50.344	45.893	46.487	48.168
84.5	45.893	43.816	40.651	41.245	42.827
85.0	39.069	37.684	35.508	36.002	37.486
85.5	33.035	32.046	30.464	30.859	32.244
86.0	27.595	26.903	25.617	25.914	27.002
86.5	22.749	22.155	20.870	20.968	21.760
87.0	18.496	17.606	16.419	16.221	16.715
87.5	14.638	13.550	12.067	11.473	11.572
88.0	11.275	9.891	8.209	6.726	6.033
88.5	8.209	6.924	5.044	3.264	2.473
89.0	5.341	4.451	2.671	1.780	1.583
89.5	2.967	2.572	1.385	1.088	1.088
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-24-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-24-L30-830-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	370.85	N.A.	13.10
0-30	784.22	N.A.	27.70
0-40	1280.23	N.A.	45.10
0-60	2248.3	N.A.	79.30
0-80	2791.37	N.A.	98.40
0-90	2836.23	N.A.	100.00
10-90	2739.99	N.A.	96.60
20-40	909.38	N.A.	32.10
20-50	1417.78	N.A.	50.00
40-70	1316.43	N.A.	46.40
60-80	543.07	N.A.	19.10
70-80	194.71	N.A.	6.90
80-90	44.86	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	2836.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	96.24
10-20	274.61
20-30	413.38
30-40	496.01
40-50	508.40
50-60	459.67
60-70	348.36
70-80	194.71
80-90	44.86
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-L30-830-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	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-L30-830-DIM-UNV_.IES

UGR TABLE - CORRECTED

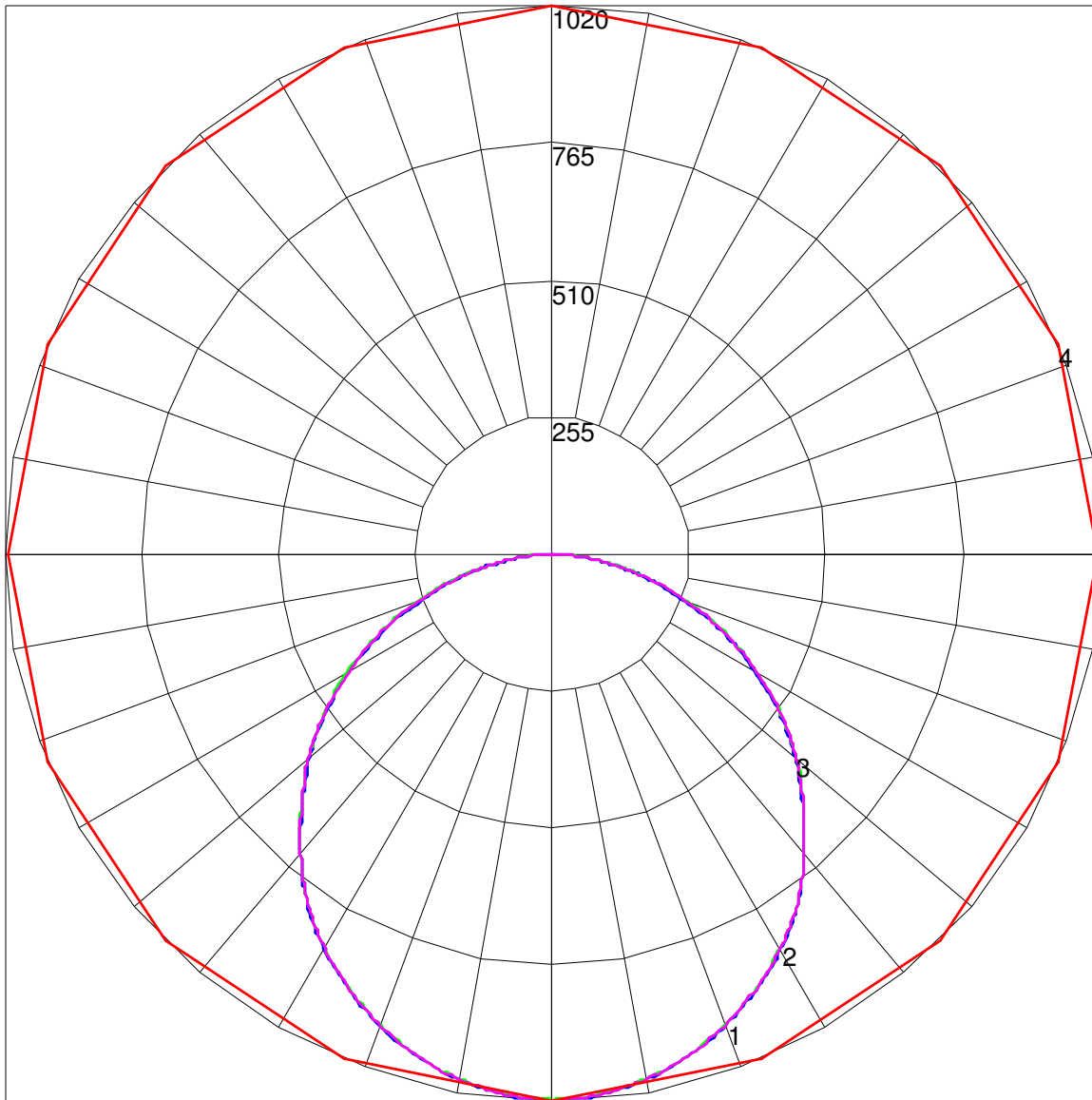
Reflectances

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					UGR Viewed Endwise				
X=2H	Y=2H	13.2	14.9	13.6	15.2	15.5	13.2	14.8	13.6	15.1	15.5
	3H	15.1	16.6	15.5	16.9	17.2	15.0	16.5	15.4	16.8	17.2
	4H	15.8	17.1	16.2	17.5	17.9	15.6	17.0	16.0	17.4	17.7
	6H	16.2	17.5	16.7	17.9	18.3	16.0	17.3	16.4	17.7	18.1
	8H	16.4	17.6	16.8	18.0	18.4	16.1	17.4	16.6	17.8	18.2
	12H	16.4	17.6	16.9	18.0	18.4	16.2	17.4	16.6	17.8	18.2
4H	2H	13.9	15.2	14.3	15.6	16.0	13.8	15.2	14.2	15.6	15.9
	3H	15.9	17.1	16.3	17.5	17.9	15.8	17.0	16.2	17.4	17.8
	4H	16.7	17.8	17.1	18.2	18.6	16.6	17.6	17.0	18.0	18.5
	6H	17.3	18.2	17.8	18.7	19.1	17.1	18.0	17.5	18.5	18.9
	8H	17.5	18.4	17.9	18.8	19.3	17.2	18.1	17.7	18.5	19.0
	12H	17.6	18.4	18.1	18.9	19.3	17.3	18.1	17.8	18.6	19.0
8H	4H	17.0	17.8	17.4	18.3	18.7	16.9	17.7	17.3	18.2	18.6
	6H	17.7	18.4	18.2	18.9	19.4	17.5	18.2	18.0	18.7	19.2
	8H	17.9	18.6	18.4	19.1	19.6	17.7	18.3	18.2	18.8	19.3
	12H	18.1	18.7	18.6	19.2	19.7	17.8	18.4	18.3	18.9	19.4
12H	4H	17.0	17.8	17.5	18.3	18.7	16.9	17.7	17.4	18.1	18.6
	6H	17.7	18.4	18.3	18.8	19.4	17.5	18.2	18.1	18.6	19.2
	8H	18.0	18.6	18.5	19.1	19.6	17.8	18.3	18.3	18.8	19.4

Maximum UGR = 19.7

POLAR GRAPH



Maximum Candela = 1019.74 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.)