

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : APC-14-L40-840-DIM-UNV\_.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15060098.02

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 29 Nov, 2023

[TEST DATE] 11/21/2023

[MANUFAC] H E Williams Inc

[LUMCAT] APC-14-L40-840-DIM-UNV

[LUMINAIRE] White Recessed 1 X 4 Luminaire with arched center and center

[MORE] fin media

[LAMP] 168 LEDs

[BALLAST] Advance/ Signify 49w Certadrive X C1049C102V048CDX1

[OTHER] 25.6 C, 120.019 V, 0.370958 A, 44.1298 W, 0.99119 PF, 59.9697

[MORE] Hz

[OTHER] This test was performed using the calibrated photodetector met

[MORE] hod of absolute photometry.

[OTHER] The reported results were measured in a facility that meets th

[MORE] e requirements of ANSI/IES LM-75-19. The device under test emits no de

[MORE] tectable uplight as defined by ANSI/IES LM-75-19

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3539
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	30.3
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.26
Spacing Criterion (90-270)	1.20
Spacing Criterion (Diagonal)	1.32
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.81 ft
Luminous Width (90-270)	0.87 ft
Luminous Height	0.00 ft

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4195	3814	3674
55	4065	3513	3300
65	3889	3100	2631
75	3617	2077	1645
85	2903	816	649

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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	1371.276	1371.276	1371.276	1371.276	1371.276
0.5	1376.315	1372.716	1367.677	1371.996	1376.315
1.0	1377.755	1371.276	1366.957	1371.996	1377.035
1.5	1377.755	1371.996	1364.798	1369.836	1377.035
2.0	1374.875	1369.836	1366.237	1369.836	1375.595
2.5	1376.315	1368.397	1364.078	1369.836	1371.996
3.0	1375.595	1369.117	1364.078	1368.397	1371.996
3.5	1374.155	1368.397	1362.638	1368.397	1371.996
4.0	1374.155	1366.237	1361.918	1366.237	1369.117
4.5	1374.155	1366.237	1359.759	1364.078	1368.397
5.0	1371.996	1364.078	1359.039	1364.078	1367.677
5.5	1370.556	1363.358	1359.039	1364.078	1365.517
6.0	1370.556	1363.358	1355.440	1360.479	1363.358
6.5	1367.677	1360.479	1354.000	1359.759	1361.198
7.0	1363.358	1357.599	1352.561	1357.599	1361.198
7.5	1362.638	1355.440	1348.242	1354.000	1357.599
8.0	1361.918	1351.841	1346.082	1351.121	1354.720
8.5	1356.880	1351.121	1345.362	1348.961	1352.561
9.0	1356.160	1348.961	1342.483	1346.802	1351.121
9.5	1354.000	1345.362	1339.604	1343.923	1348.242
10.0	1348.961	1343.203	1338.164	1341.043	1343.203
10.5	1346.802	1340.323	1334.565	1336.724	1340.323
11.0	1346.082	1337.444	1330.966	1334.565	1338.164
11.5	1341.763	1333.125	1327.366	1330.966	1331.685
12.0	1338.164	1329.526	1323.767	1327.366	1330.246
12.5	1334.565	1326.647	1320.888	1323.767	1326.647
13.0	1328.806	1323.047	1317.289	1318.729	1321.608
13.5	1325.927	1320.168	1313.690	1314.410	1315.849
14.0	1324.487	1316.569	1308.651	1309.371	1310.810
14.5	1323.047	1314.410	1305.052	1303.612	1305.772
15.0	1318.009	1310.091	1300.013	1299.293	1301.453
15.5	1314.410	1305.772	1294.254	1293.534	1294.974
16.0	1310.091	1302.892	1289.935	1287.056	1289.215
16.5	1304.332	1297.853	1285.616	1280.578	1283.457
17.0	1300.013	1291.375	1281.297	1276.259	1278.418
17.5	1296.414	1286.336	1274.819	1269.780	1272.659
18.0	1292.815	1283.457	1268.340	1262.582	1265.461
18.5	1287.776	1277.698	1264.021	1256.823	1256.823
19.0	1282.737	1274.099	1258.263	1251.784	1251.064
19.5	1279.858	1269.780	1251.784	1244.586	1243.866
20.0	1272.659	1263.302	1245.306	1236.668	1235.948
20.5	1269.780	1258.263	1238.108	1230.189	1229.470
21.0	1262.582	1253.944	1233.069	1222.991	1222.271
21.5	1258.983	1246.746	1228.030	1215.793	1215.073
22.0	1253.224	1243.146	1221.551	1209.314	1208.595
22.5	1245.306	1233.789	1214.353	1202.116	1201.396
23.0	1240.267	1228.030	1207.155	1194.198	1195.638
23.5	1234.508	1223.711	1200.676	1187.719	1188.439
24.0	1229.470	1217.232	1192.758	1181.241	1177.642
24.5	1222.271	1212.194	1185.560	1174.043	1170.444
25.0	1217.952	1204.276	1178.362	1166.125	1163.245
25.5	1212.914	1199.237	1171.163	1158.206	1157.487
26.0	1207.155	1193.478	1163.245	1151.728	1150.288
26.5	1199.957	1185.560	1155.327	1142.370	1143.090

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**CANDELA TABULATION - (Cont.)**

27.0	1194.198	1178.362	1147.409	1135.892	1135.172
27.5	1184.840	1171.883	1140.931	1128.693	1127.254
28.0	1179.082	1165.405	1133.732	1119.336	1118.616
28.5	1174.043	1158.926	1125.814	1111.417	1109.978
29.0	1166.844	1151.008	1118.616	1104.219	1102.060
29.5	1158.206	1143.810	1109.978	1094.861	1093.422
30.0	1153.168	1136.612	1102.060	1086.223	1084.784
30.5	1144.530	1127.974	1094.142	1078.305	1075.426
31.0	1140.211	1119.336	1086.223	1069.667	1066.788
31.5	1132.293	1112.137	1076.866	1061.749	1058.150
32.0	1124.374	1104.219	1068.228	1053.111	1048.792
32.5	1119.336	1097.021	1059.590	1044.473	1040.874
33.0	1109.258	1089.823	1052.391	1034.396	1030.797
33.5	1102.780	1080.465	1043.753	1026.478	1021.439
34.0	1096.301	1072.547	1034.396	1017.120	1012.081
34.5	1086.943	1063.909	1026.478	1008.482	1002.723
35.0	1079.025	1056.710	1016.400	998.404	993.365
35.5	1073.266	1048.792	1009.202	989.766	985.447
36.0	1063.909	1038.715	999.124	980.408	976.809
36.5	1055.271	1030.797	989.766	971.051	966.012
37.0	1048.792	1022.159	980.408	961.693	958.094
37.5	1040.154	1012.801	971.051	951.615	948.736
38.0	1030.797	1003.443	961.693	941.538	937.938
38.5	1022.159	994.085	952.335	932.900	929.300
39.0	1014.240	986.167	943.697	922.822	919.943
39.5	1004.883	977.529	935.779	912.744	909.865
40.0	997.684	969.611	924.982	903.387	899.068
40.5	987.607	959.533	914.904	894.029	888.270
41.0	979.689	949.456	904.826	883.951	878.193
41.5	971.051	940.098	896.188	874.593	868.835
42.0	962.413	930.740	886.831	863.076	858.757
42.5	953.775	921.382	876.033	852.999	848.680
43.0	944.417	911.305	865.955	842.921	837.882
43.5	936.499	900.507	855.878	832.843	827.085
44.0	928.581	891.150	846.520	823.485	817.727
44.5	918.503	882.512	835.723	814.128	807.649
45.0	909.865	872.434	827.085	804.050	796.852
45.5	901.227	863.796	817.007	792.533	784.615
46.0	891.150	852.999	806.929	781.016	774.537
46.5	881.792	844.361	797.572	770.938	765.179
47.0	872.434	834.283	787.494	760.860	752.942
47.5	863.076	824.205	775.977	750.063	742.865
48.0	852.999	813.408	766.619	739.985	732.787
48.5	844.361	804.770	755.821	729.188	720.550
49.0	834.283	794.692	745.024	718.102	710.184
49.5	824.925	783.175	734.227	707.233	699.027
50.0	814.848	773.817	724.149	696.651	688.805
50.5	805.490	763.020	714.359	686.214	678.224
51.0	794.692	752.942	703.994	675.488	666.707
51.5	784.615	742.865	693.124	665.411	656.341
52.0	775.257	732.067	682.903	654.325	646.047
52.5	766.619	721.270	672.249	643.528	635.250
53.0	755.821	710.976	660.804	632.875	624.093
53.5	745.744	700.395	650.438	621.573	612.359
54.0	736.386	690.173	639.137	610.848	600.986
54.5	724.869	680.023	628.412	599.690	590.980

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**CANDELA TABULATION - (Cont.)**

55.0	715.151	668.866	618.046	589.181	580.543
55.5	705.001	658.860	607.465	577.808	568.594
56.0	694.420	648.639	596.955	567.298	557.148
56.5	683.047	637.337	586.373	556.285	545.415
57.0	673.401	626.684	575.936	544.623	534.978
57.5	664.403	616.030	564.779	533.754	523.460
58.0	653.822	605.377	553.549	522.381	510.791
58.5	642.160	594.364	542.680	511.079	499.562
59.0	631.435	583.638	531.450	499.778	486.749
59.5	620.421	572.625	520.725	488.549	474.512
60.0	610.272	561.755	509.568	476.383	462.779
60.5	600.050	551.102	499.130	464.938	450.542
61.0	588.749	540.016	487.901	452.341	437.945
61.5	578.095	529.003	477.247	439.816	426.067
62.0	567.370	517.918	466.666	427.939	414.838
62.5	556.069	507.624	455.436	416.710	401.665
63.0	545.703	496.611	444.423	404.832	389.572
63.5	535.266	485.741	433.050	393.891	378.415
64.0	524.900	474.512	422.396	381.654	366.178
64.5	514.606	463.211	412.031	368.769	353.796
65.0	504.025	452.341	401.809	356.388	340.983
65.5	492.508	441.688	391.516	344.007	327.811
66.0	481.206	431.178	379.782	331.554	314.782
66.5	470.697	420.525	368.049	319.389	302.041
67.0	459.971	410.303	356.244	306.720	289.732
67.5	449.678	400.297	344.079	294.554	276.991
68.0	437.801	389.212	332.346	282.173	264.753
68.5	426.787	378.559	321.692	269.576	251.869
69.0	416.422	367.545	309.887	257.195	238.912
69.5	406.560	356.892	296.786	244.598	226.171
70.0	396.698	346.166	284.261	232.217	213.214
70.5	386.693	335.297	272.672	219.980	202.704
71.0	374.672	324.931	260.866	207.023	194.066
71.5	363.514	313.774	248.701	194.282	185.788
72.0	353.437	302.473	236.680	184.564	177.654
72.5	342.135	291.891	224.371	176.646	169.520
73.0	330.762	280.518	212.566	168.368	161.818
73.5	319.892	269.720	200.977	160.450	153.900
74.0	308.807	259.355	189.315	152.388	145.838
74.5	297.866	248.269	177.078	144.326	137.991
75.0	287.140	237.544	164.913	136.408	130.577
75.5	276.631	227.682	152.964	128.490	122.947
76.0	266.193	217.029	142.598	121.075	115.317
76.5	255.108	205.943	134.392	113.661	108.190
77.0	244.382	194.426	126.330	106.463	100.992
77.5	234.017	183.269	118.340	99.265	94.154
78.0	223.219	172.039	110.710	91.994	87.099
78.5	212.854	161.314	102.936	84.724	79.901
79.0	202.200	149.221	95.449	77.742	72.847
79.5	191.475	137.631	88.179	70.975	65.864
80.0	181.109	126.546	81.053	64.281	59.170
80.5	170.672	115.533	74.142	57.586	52.836
81.0	160.450	104.663	67.088	51.180	46.717
81.5	150.372	93.650	60.466	45.061	41.246
82.0	139.719	82.708	53.843	40.238	36.999
82.5	129.209	72.847	47.149	34.984	33.400

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**CANDELA TABULATION - (Cont.)**

83.0	119.132	64.641	40.598	31.169	29.873
83.5	108.766	57.083	34.552	27.569	25.914
84.0	98.401	49.956	29.513	23.682	22.531
84.5	88.107	43.262	25.626	20.371	19.795
85.0	77.598	36.999	21.811	17.780	17.348
85.5	67.592	30.593	17.996	15.404	15.044
86.0	57.658	24.474	14.972	13.101	12.813
86.5	47.725	18.860	12.525	10.797	10.438
87.0	38.295	15.332	10.150	8.638	8.350
87.5	28.649	10.941	7.918	6.478	6.263
88.0	19.435	7.846	5.759	4.607	4.463
88.5	12.453	5.615	4.319	3.815	3.455
89.0	7.270	3.599	4.319	4.031	2.951
89.5	3.527	2.088	4.103	2.807	2.375
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-14-L40-840-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-14-L40-840-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-14-L40-840-DIM-UNV\_.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	497.06	N.A.	14.00
0-30	1042.96	N.A.	29.50
0-40	1685.2	N.A.	47.60
0-60	2895.5	N.A.	81.80
0-80	3498.43	N.A.	98.90
0-90	3538.55	N.A.	100.00
10-90	3409.03	N.A.	96.30
20-40	1188.14	N.A.	33.60
20-50	1834.88	N.A.	51.90
40-70	1613.29	N.A.	45.60
60-80	602.93	N.A.	17.00
70-80	199.94	N.A.	5.70
80-90	40.12	N.A.	1.10
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	3538.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	129.52
10-20	367.54
20-30	545.90
30-40	642.24
40-50	646.74
50-60	563.57
60-70	402.99
70-80	199.94
80-90	40.12
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-14-L40-840-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	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	47	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : APC-14-L40-840-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

X=2H	Y=2H	17.1	18.7	17.4	19.0	19.3	UGR Viewed Endwise			
	3H	19.0	20.5	19.4	20.8	21.1	15.9	17.5	16.3	17.9
	4H	19.8	21.1	20.2	21.5	21.8	17.2	18.6	17.5	18.9
	6H	20.3	21.6	20.8	22.0	22.4	17.5	18.8	17.9	19.2
	8H	20.5	21.7	21.0	22.1	22.5	17.6	18.9	18.0	19.3
	12H	20.7	21.8	21.1	22.2	22.6	17.6	18.8	18.1	19.2

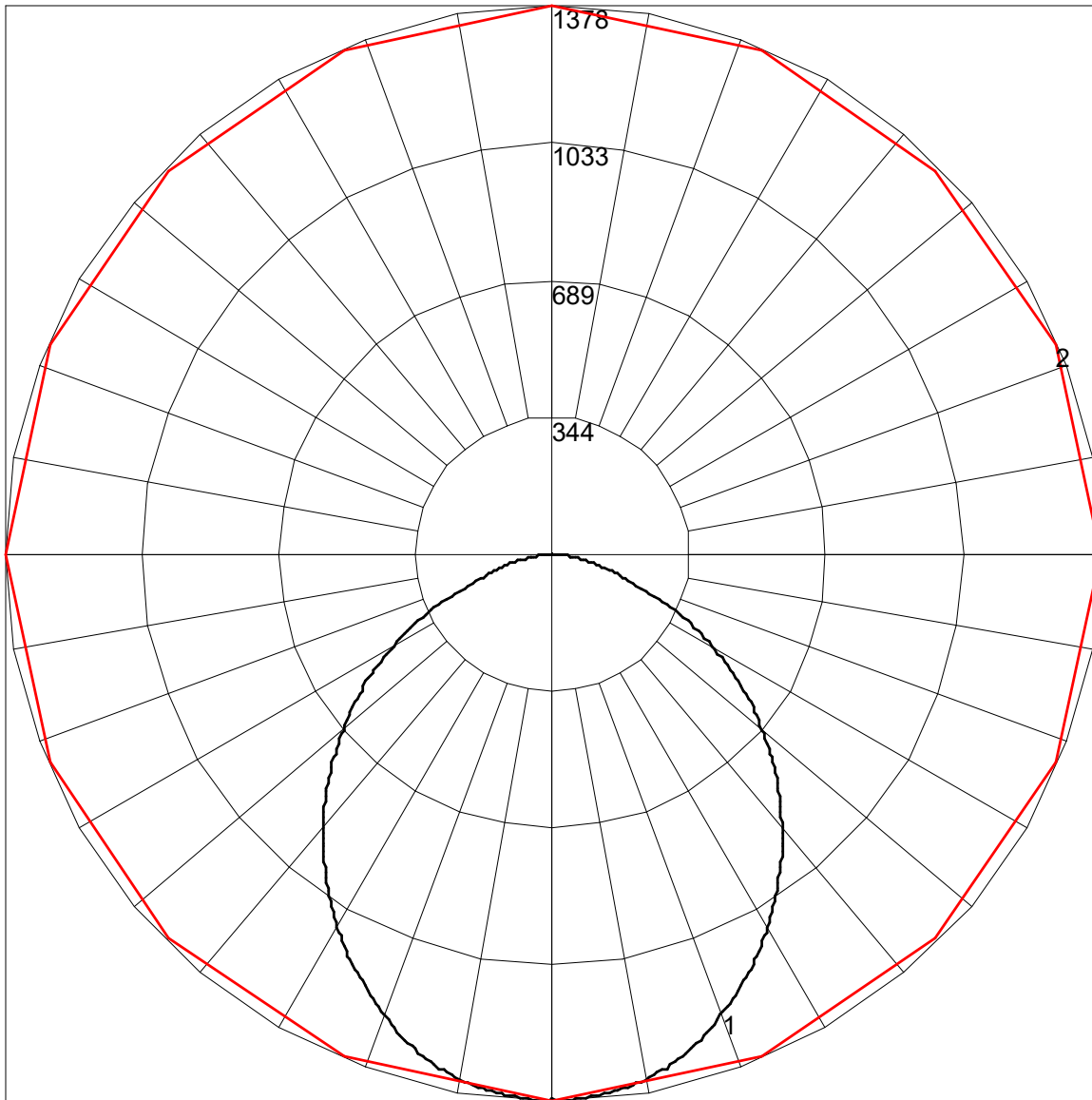
4H	2H	17.5	18.9	17.9	19.2	19.6	16.6	18.0	17.0	18.3
	3H	19.6	20.8	20.1	21.2	21.6	18.0	19.1	18.4	19.5
	4H	20.5	21.5	20.9	21.9	22.4	18.4	19.4	18.8	19.8
	6H	21.2	22.1	21.7	22.5	23.0	18.6	19.5	19.1	19.9
	8H	21.4	22.3	21.9	22.7	23.2	18.6	19.5	19.1	19.9
	12H	21.6	22.4	22.1	22.8	23.3	18.6	19.4	19.1	19.9

8H	4H	20.6	21.4	21.1	21.9	22.3	18.7	19.5	19.1	19.9
	6H	21.4	22.1	21.9	22.6	23.0	18.9	19.6	19.4	20.1
	8H	21.6	22.3	22.1	22.8	23.3	19.0	19.6	19.5	20.1
	12H	21.9	22.4	22.4	22.9	23.5	19.0	19.5	19.5	20.0

12H	4H	20.6	21.3	21.1	21.8	22.3	18.7	19.4	19.2	19.9
	6H	21.4	22.0	21.9	22.4	23.0	19.0	19.6	19.5	20.1
	8H	21.7	22.2	22.2	22.7	23.3	19.1	19.6	19.6	20.1

Maximum UGR = 23.5

POLAR GRAPH



Maximum Candela = 1377.755 Located At Horizontal Angle = 0, Vertical Angle = 1  
# 1 - Vertical Plane Through Horizontal Angles (90 - 270)  
# 2 - Horizontal Cone Through Vertical Angle (1) (Through Max. Cd.)