

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AP-14-L30-850-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from UL #15060098.01

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 29 Nov, 2023

[TEST DATE] 11/20/2023

[MANUFAC] H E Williams Inc

[LUMCAT] AP-14-L30-850-DIM-UNV

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

[LAMP] 168 LEDs

[BALLAST] Advance/ Signify 49w Certadrive X C1049C102V048CDX1

[OTHER] 25.3 C, 120.053 V, 0.343868 A, 40.843 W, 0.989361 PF, 59.9703

[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	3186
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	140
Total Luminaire Watts	22.8
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)	3.81 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	3418	3404	3449
55	3290	3275	3317
65	3112	3104	3035
75	2866	2669	2453
85	2307	1193	577

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AP-14-L30-850-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	1137.811	1137.811	1137.811	1137.811	1137.811
0.5	1142.745	1137.195	1134.111	1138.428	1140.278
1.0	1142.128	1137.811	1134.728	1137.811	1140.895
1.5	1142.128	1137.195	1133.495	1138.428	1140.278
2.0	1141.512	1135.961	1133.495	1137.811	1138.428
2.5	1142.128	1135.345	1132.878	1137.195	1137.811
3.0	1140.895	1134.728	1132.261	1136.578	1139.045
3.5	1140.895	1133.495	1131.644	1135.345	1139.662
4.0	1140.895	1133.495	1131.644	1134.728	1138.428
4.5	1137.811	1132.261	1127.944	1134.111	1136.578
5.0	1135.961	1132.878	1127.944	1132.878	1135.961
5.5	1135.345	1131.028	1127.944	1132.261	1135.345
6.0	1134.111	1129.178	1125.477	1131.028	1133.495
6.5	1132.261	1127.944	1124.244	1128.561	1132.878
7.0	1131.028	1126.094	1122.394	1127.328	1130.411
7.5	1131.028	1124.244	1119.927	1124.861	1128.561
8.0	1127.328	1121.777	1119.927	1123.627	1127.328
8.5	1126.094	1121.161	1118.077	1121.161	1126.094
9.0	1122.394	1119.310	1115.610	1119.310	1125.477
9.5	1121.161	1116.844	1114.377	1116.844	1122.394
10.0	1118.077	1114.377	1111.910	1117.460	1118.694
10.5	1115.610	1111.293	1109.443	1114.377	1118.077
11.0	1114.377	1109.443	1108.210	1111.293	1117.460
11.5	1112.527	1106.360	1105.126	1110.060	1113.143
12.0	1108.827	1104.510	1100.809	1107.593	1108.827
12.5	1106.360	1101.426	1098.959	1104.510	1107.593
13.0	1102.660	1097.109	1096.493	1102.043	1103.893
13.5	1100.193	1095.259	1092.792	1099.576	1102.660
14.0	1097.109	1092.176	1089.709	1095.876	1100.193
14.5	1094.026	1087.859	1088.475	1092.792	1097.109
15.0	1091.559	1086.009	1084.775	1089.092	1093.409
15.5	1087.242	1082.308	1080.458	1086.625	1089.709
16.0	1084.159	1079.842	1077.375	1082.925	1086.625
16.5	1079.842	1075.525	1073.675	1078.608	1082.925
17.0	1076.758	1070.591	1069.974	1074.291	1079.842
17.5	1073.675	1067.508	1065.658	1070.591	1074.908
18.0	1068.124	1063.191	1062.574	1068.124	1069.974
18.5	1065.041	1060.724	1058.257	1063.807	1065.041
19.0	1061.341	1056.407	1053.324	1059.491	1061.957
19.5	1058.257	1051.473	1050.240	1056.407	1058.257
20.0	1053.940	1048.390	1045.306	1050.857	1053.940
20.5	1047.773	1044.073	1040.990	1045.306	1049.623
21.0	1042.840	1039.139	1036.673	1042.223	1045.923
21.5	1038.523	1032.972	1031.739	1037.906	1039.756
22.0	1034.206	1029.272	1026.189	1032.356	1035.439
22.5	1030.506	1024.339	1021.255	1028.656	1032.972
23.0	1025.572	1018.788	1017.555	1023.722	1028.656
23.5	1019.405	1014.471	1012.621	1020.022	1021.872
24.0	1015.088	1010.771	1007.688	1014.471	1016.938
24.5	1010.155	1005.221	1004.604	1010.155	1012.621
25.0	1005.838	1000.287	998.437	1004.604	1007.688
25.5	1000.287	995.970	992.887	999.054	1002.137
26.0	994.120	989.803	988.570	994.120	997.821
26.5	988.570	983.636	983.636	989.187	992.887

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AP-14-L30-850-DIM-UNV_.IES

CANDELA TABULATION - (Cont.)

27.0	984.253	979.320	978.703	984.870	987.337
27.5	978.086	973.153	973.153	979.320	983.636
28.0	970.686	967.602	966.369	973.769	975.619
28.5	966.369	963.285	960.819	968.219	970.069
29.0	960.819	957.118	955.885	962.052	966.986
29.5	954.652	952.185	950.335	956.502	958.968
30.0	947.251	945.401	944.168	949.718	954.652
30.5	942.934	939.234	938.001	944.784	947.868
31.0	938.617	933.067	931.834	938.617	940.467
31.5	931.834	926.900	925.050	932.450	936.767
32.0	926.283	920.733	919.500	926.900	929.367
32.5	918.266	913.333	912.716	919.500	922.583
33.0	912.716	907.166	906.549	912.716	917.650
33.5	907.166	900.999	900.382	907.166	912.099
34.0	899.765	895.448	894.215	902.232	904.699
34.5	891.131	888.048	887.431	894.832	898.532
35.0	886.198	882.498	880.648	889.281	892.365
35.5	880.648	875.714	874.481	882.498	886.198
36.0	874.481	868.930	867.697	875.097	878.181
36.5	867.080	861.530	861.530	868.314	871.397
37.0	859.063	854.129	855.363	861.530	863.997
37.5	852.279	847.346	847.346	854.129	857.213
38.0	846.729	839.945	840.562	846.729	848.579
38.5	838.712	833.778	834.395	839.945	842.412
39.0	830.078	826.995	826.995	833.162	835.628
39.5	823.294	818.978	819.594	826.378	829.461
40.0	815.277	812.194	813.427	818.978	822.678
40.5	810.344	804.793	806.027	810.960	816.511
41.0	801.710	797.393	798.010	804.793	807.260
41.5	794.310	791.226	791.226	798.010	801.093
42.0	787.526	783.209	782.592	789.376	793.076
42.5	780.125	774.575	775.809	781.359	785.059
43.0	770.875	768.408	768.408	774.575	778.275
43.5	764.091	760.391	759.774	766.558	770.875
44.0	756.691	753.607	752.991	759.158	763.475
44.5	749.290	746.207	745.590	751.757	755.457
45.0	741.273	738.190	738.190	744.357	748.057
45.5	733.256	730.789	730.173	736.340	739.423
46.0	725.856	721.539	722.156	728.939	730.789
46.5	718.455	713.522	715.372	721.539	724.006
47.0	709.822	706.738	706.738	713.522	714.755
47.5	701.805	698.721	699.338	704.888	706.738
48.0	693.787	690.704	691.321	696.871	698.104
48.5	685.770	683.304	682.687	688.854	691.321
49.0	678.987	675.286	674.670	681.453	682.687
49.5	669.736	667.269	666.653	672.820	674.053
50.0	662.336	658.636	659.869	664.803	666.653
50.5	654.319	650.618	651.235	656.785	658.019
51.0	645.068	641.985	642.601	648.152	650.002
51.5	637.051	633.968	633.968	641.368	641.985
52.0	629.034	625.334	626.567	632.117	632.734
52.5	621.017	617.317	617.933	623.484	625.334
53.0	612.445	609.115	608.991	615.097	616.700
53.5	603.133	600.912	601.097	606.586	608.313
54.0	595.239	593.142	593.204	598.816	599.802
54.5	587.468	584.138	584.508	590.490	592.094

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PHOTOMETRIC FILENAME : AP-14-L30-850-DIM-UNV_.IES

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55.0	578.773	575.874	576.183	582.165	583.460
55.5	569.831	567.117	567.672	573.654	575.319
56.0	562.184	558.237	559.162	564.651	566.932
56.5	553.242	549.850	550.836	556.017	557.250
57.0	544.299	541.093	542.018	547.753	547.938
57.5	535.851	533.199	533.507	538.687	538.564
58.0	527.772	524.133	525.058	529.684	529.745
58.5	518.706	515.253	516.116	520.371	520.803
59.0	509.703	506.866	507.667	511.553	510.196
59.5	501.685	497.677	498.849	502.549	500.329
60.0	492.558	489.536	490.462	493.052	492.127
60.5	482.938	480.409	481.396	483.924	482.136
61.0	474.427	471.282	472.639	474.674	472.084
61.5	465.732	462.772	464.128	464.930	462.340
62.0	456.666	453.953	455.001	455.063	453.336
62.5	447.663	444.949	446.306	445.072	442.791
63.0	438.597	435.884	437.487	435.267	432.862
63.5	430.642	427.126	428.360	425.461	423.303
64.0	421.206	418.616	419.788	416.087	413.682
64.5	412.326	409.920	410.784	406.652	403.692
65.0	403.383	400.485	402.397	396.723	393.455
65.5	394.318	392.036	393.023	386.856	383.526
66.0	386.239	383.772	384.142	377.359	373.905
66.5	377.975	375.077	374.954	367.183	363.298
67.0	368.478	366.381	365.518	357.624	354.047
67.5	359.474	357.994	356.329	348.250	345.167
68.0	350.841	349.176	346.832	338.753	335.546
68.5	342.083	340.172	337.767	329.009	325.248
69.0	333.758	331.600	329.009	318.772	315.812
69.5	325.248	322.966	319.389	308.905	305.883
70.0	316.860	314.455	309.707	299.285	295.646
70.5	307.918	305.637	299.778	289.109	285.779
71.0	298.236	296.941	289.972	279.303	275.727
71.5	289.294	287.876	280.167	269.128	265.181
72.0	280.413	278.872	270.670	259.014	255.067
72.5	271.101	270.053	260.864	248.592	244.892
73.0	262.283	261.234	250.935	238.663	234.963
73.5	253.402	252.600	241.006	228.981	224.725
74.0	244.830	244.090	231.448	219.175	214.612
74.5	236.443	235.518	221.642	209.185	204.929
75.0	227.501	226.267	211.898	199.256	194.754
75.5	219.052	217.263	202.031	189.327	184.393
76.0	210.295	208.136	192.472	179.275	174.218
76.5	201.353	199.626	182.975	169.592	164.474
77.0	192.780	190.992	173.293	159.972	154.483
77.5	184.702	181.988	163.611	150.043	144.554
78.0	176.315	172.676	154.113	140.361	134.626
78.5	167.989	163.487	144.986	130.740	124.635
79.0	159.664	154.483	135.427	121.120	114.891
79.5	150.906	145.356	126.177	111.499	105.394
80.0	142.828	136.291	116.865	102.126	96.144
80.5	134.626	127.164	107.737	92.875	87.140
81.0	126.362	118.283	98.795	84.550	77.951
81.5	118.468	109.341	89.668	75.731	69.379
82.0	110.328	100.337	80.726	66.172	60.683
82.5	102.064	91.457	71.846	57.538	52.543

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AP-14-L30-850-DIM-UNV_.IES

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83.0	93.677	82.514	63.890	49.398	44.402
83.5	85.475	73.881	55.256	41.812	36.570
84.0	77.458	65.679	47.054	34.289	29.170
84.5	69.502	57.415	39.345	27.011	21.893
85.0	61.670	49.151	31.883	20.166	15.417
85.5	53.715	41.381	24.791	14.431	10.792
86.0	46.067	33.980	18.748	10.114	8.140
86.5	38.790	26.580	13.814	7.400	5.859
87.0	31.822	20.413	9.744	5.797	4.995
87.5	25.531	15.417	6.845	4.749	4.440
88.0	19.858	11.224	5.119	4.687	3.947
88.5	14.739	7.339	4.872	4.934	3.454
89.0	10.731	4.440	3.145	4.625	2.960
89.5	7.154	2.713	2.343	3.885	2.035
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 : AP-14-L30-850-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 : AP-14-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 : AP-14-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 : AP-14-L30-850-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	414.36	N.A.	13.00
0-30	876.28	N.A.	27.50
0-40	1429.84	N.A.	44.90
0-60	2518.32	N.A.	79.00
0-80	3137.54	N.A.	98.50
0-90	3185.73	N.A.	100.00
10-90	3078.19	N.A.	96.60
20-40	1015.48	N.A.	31.90
20-50	1587.05	N.A.	49.80
40-70	1483.81	N.A.	46.60
60-80	619.22	N.A.	19.40
70-80	223.89	N.A.	7.00
80-90	48.19	N.A.	1.50
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	3185.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	107.54
10-20	306.82
20-30	461.92
30-40	553.56
40-50	571.58
50-60	516.90
60-70	395.33
70-80	223.89
80-90	48.19
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 : AP-14-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	126	126	126	126	123	123	123	123	118	118	118	113	113	113	108	108	108	106
1	115	110	106	102	112	108	104	100	103	100	97	99	96	94	95	93	91	89
2	105	96	89	83	102	94	87	82	90	85	80	87	82	78	84	80	76	74
3	96	84	76	69	93	83	75	68	79	73	67	77	71	66	74	69	65	62
4	87	75	65	58	85	73	64	58	71	63	57	68	61	56	66	60	55	53
5	80	67	57	50	78	65	56	50	63	55	49	61	54	49	59	53	48	46
6	74	60	50	44	72	59	50	43	57	49	43	55	48	43	54	47	42	40
7	69	54	45	39	67	54	45	38	52	44	38	50	43	38	49	42	38	35
8	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	32
9	60	46	37	31	58	45	37	31	44	36	31	43	36	30	41	35	30	28
10	56	42	34	28	55	41	33	28	40	33	28	39	33	28	38	32	28	26

IES INDOOR REPORT
PHOTOMETRIC FILENAME : AP-14-L30-850-DIM-UNV_.IES

UGR TABLE - CORRECTED

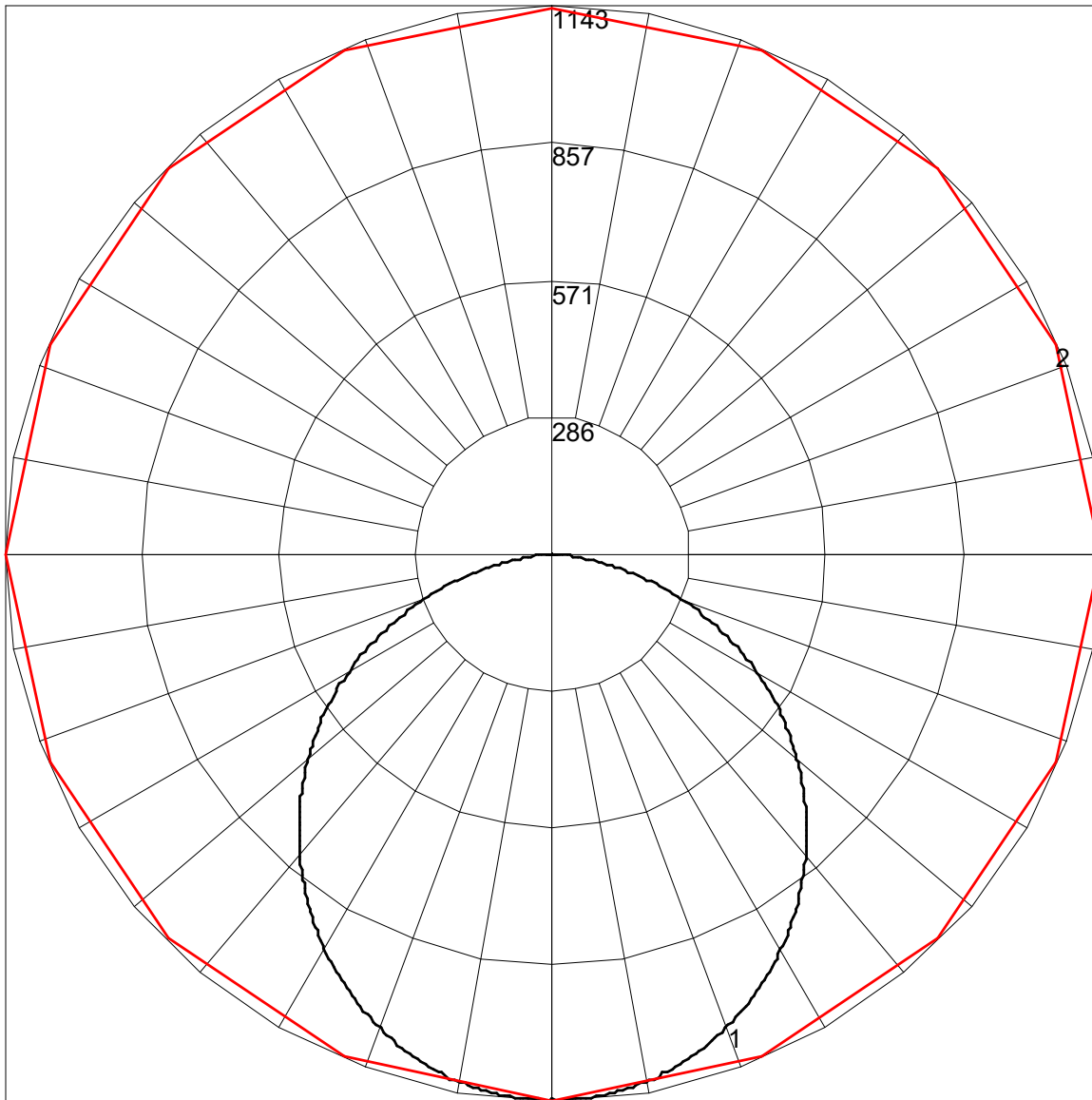
Reflectances

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	16.1	17.7	16.4	18.0	18.3	16.1	17.8	16.5	18.1	18.4
	3H	18.0	19.5	18.3	19.8	20.1	17.9	19.4	18.3	19.7	20.1
	4H	18.7	20.1	19.1	20.5	20.8	18.5	19.9	18.9	20.2	20.6
	6H	19.3	20.6	19.7	20.9	21.3	18.8	20.1	19.2	20.5	20.9
	8H	19.5	20.7	19.9	21.1	21.5	18.9	20.1	19.3	20.5	20.9
	12H	19.6	20.8	20.0	21.2	21.6	18.9	20.1	19.3	20.4	20.9
4H	2H	16.7	18.1	17.1	18.5	18.8	16.8	18.2	17.2	18.5	18.9
	3H	18.9	20.0	19.3	20.4	20.8	18.8	19.9	19.2	20.3	20.7
	4H	19.7	20.8	20.2	21.2	21.6	19.4	20.5	19.9	20.9	21.4
	6H	20.4	21.3	20.9	21.8	22.2	19.9	20.8	20.3	21.3	21.7
	8H	20.6	21.5	21.1	22.0	22.4	20.0	20.8	20.4	21.3	21.7
	12H	20.8	21.6	21.3	22.1	22.5	20.0	20.8	20.5	21.2	21.7
8H	4H	20.0	20.9	20.5	21.3	21.8	19.8	20.6	20.2	21.1	21.5
	6H	20.8	21.5	21.3	22.0	22.5	20.3	21.0	20.8	21.5	22.0
	8H	21.1	21.8	21.6	22.3	22.8	20.4	21.1	20.9	21.6	22.0
	12H	21.4	21.9	21.9	22.4	23.0	20.5	21.0	21.0	21.5	22.1
12H	4H	20.0	20.8	20.5	21.3	21.7	19.8	20.6	20.3	21.1	21.5
	6H	20.9	21.5	21.4	22.0	22.5	20.4	21.0	20.9	21.5	22.0
	8H	21.2	21.8	21.7	22.3	22.8	20.5	21.1	21.0	21.6	22.1

Maximum UGR = 23.0

POLAR GRAPH



Maximum Candela = 1142.745 Located At Horizontal Angle = 0, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (90 - 270)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)