

IES INDOOR REPORT

PHOTOMETRIC FILENAME : AP-14-L40-850-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-L40-850-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	4138
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	137
Total Luminaire Watts	30.3
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	4439	4421	4480
55	4273	4254	4308
65	4042	4032	3943
75	3722	3467	3187
85	2997	1549	749

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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	1477.845	1477.845	1477.845	1477.845	1477.845
0.5	1484.253	1477.044	1473.039	1478.646	1481.049
1.0	1483.452	1477.845	1473.840	1477.845	1481.850
1.5	1483.452	1477.044	1472.238	1478.646	1481.049
2.0	1482.651	1475.442	1472.238	1477.845	1478.646
2.5	1483.452	1474.641	1471.437	1477.044	1477.845
3.0	1481.850	1473.840	1470.636	1476.243	1479.447
3.5	1481.850	1472.238	1469.835	1474.641	1480.248
4.0	1481.850	1472.238	1469.835	1473.840	1478.646
4.5	1477.845	1470.636	1465.029	1473.039	1476.243
5.0	1475.442	1471.437	1465.029	1471.437	1475.442
5.5	1474.641	1469.034	1465.029	1470.636	1474.641
6.0	1473.039	1466.631	1461.825	1469.034	1472.238
6.5	1470.636	1465.029	1460.223	1465.830	1471.437
7.0	1469.034	1462.626	1457.820	1464.228	1468.233
7.5	1469.034	1460.223	1454.616	1461.024	1465.830
8.0	1464.228	1457.019	1454.616	1459.422	1464.228
8.5	1462.626	1456.218	1452.213	1456.218	1462.626
9.0	1457.820	1453.815	1449.009	1453.815	1461.825
9.5	1456.218	1450.611	1447.407	1450.611	1457.820
10.0	1452.213	1447.407	1444.203	1451.412	1453.014
10.5	1449.009	1443.402	1440.999	1447.407	1452.213
11.0	1447.407	1440.999	1439.397	1443.402	1451.412
11.5	1445.004	1436.994	1435.392	1441.800	1445.805
12.0	1440.198	1434.591	1429.785	1438.596	1440.198
12.5	1436.994	1430.586	1427.382	1434.591	1438.596
13.0	1432.188	1424.979	1424.178	1431.387	1433.790
13.5	1428.984	1422.576	1419.372	1428.183	1432.188
14.0	1424.979	1418.571	1415.367	1423.377	1428.984
14.5	1420.974	1412.964	1413.765	1419.372	1424.979
15.0	1417.770	1410.561	1408.959	1414.566	1420.173
15.5	1412.163	1405.755	1403.352	1411.362	1415.367
16.0	1408.158	1402.551	1399.347	1406.556	1411.362
16.5	1402.551	1396.944	1394.541	1400.949	1406.556
17.0	1398.546	1390.536	1389.735	1395.342	1402.551
17.5	1394.541	1386.531	1384.128	1390.536	1396.143
18.0	1387.332	1380.924	1380.123	1387.332	1389.735
18.5	1383.327	1377.720	1374.516	1381.725	1383.327
19.0	1378.521	1372.113	1368.108	1376.118	1379.322
19.5	1374.516	1365.705	1364.103	1372.113	1374.516
20.0	1368.909	1361.700	1357.695	1364.904	1368.909
20.5	1360.899	1356.093	1352.088	1357.695	1363.302
21.0	1354.491	1349.685	1346.481	1353.690	1358.496
21.5	1348.884	1341.675	1340.073	1348.083	1350.486
22.0	1343.277	1336.869	1332.864	1340.874	1344.879
22.5	1338.471	1330.461	1326.456	1336.068	1341.675
23.0	1332.063	1323.252	1321.650	1329.660	1336.068
23.5	1324.053	1317.645	1315.242	1324.854	1327.257
24.0	1318.446	1312.839	1308.834	1317.645	1320.849
24.5	1312.038	1305.630	1304.829	1312.038	1315.242
25.0	1306.431	1299.222	1296.819	1304.829	1308.834
25.5	1299.222	1293.615	1289.610	1297.620	1301.625
26.0	1291.212	1285.605	1284.003	1291.212	1296.018
26.5	1284.003	1277.595	1277.595	1284.804	1289.610

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27.0	1278.396	1271.988	1271.187	1279.197	1282.401
27.5	1270.386	1263.978	1263.978	1271.988	1277.595
28.0	1260.774	1256.769	1255.167	1264.779	1267.182
28.5	1255.167	1251.162	1247.958	1257.570	1259.973
29.0	1247.958	1243.152	1241.550	1249.560	1255.968
29.5	1239.948	1236.744	1234.341	1242.351	1245.555
30.0	1230.336	1227.933	1226.331	1233.540	1239.948
30.5	1224.729	1219.923	1218.321	1227.132	1231.137
31.0	1219.122	1211.913	1210.311	1219.122	1221.525
31.5	1210.311	1203.903	1201.500	1211.112	1216.719
32.0	1203.102	1195.893	1194.291	1203.903	1207.107
32.5	1192.689	1186.281	1185.480	1194.291	1198.296
33.0	1185.480	1178.271	1177.470	1185.480	1191.888
33.5	1178.271	1170.261	1169.460	1178.271	1184.679
34.0	1168.659	1163.052	1161.450	1171.863	1175.067
34.5	1157.445	1153.440	1152.639	1162.251	1167.057
35.0	1151.037	1146.231	1143.828	1155.042	1159.047
35.5	1143.828	1137.420	1135.818	1146.231	1151.037
36.0	1135.818	1128.609	1127.007	1136.619	1140.624
36.5	1126.206	1118.997	1118.997	1127.808	1131.813
37.0	1115.793	1109.385	1110.987	1118.997	1122.201
37.5	1106.982	1100.574	1100.574	1109.385	1113.390
38.0	1099.773	1090.962	1091.763	1099.773	1102.176
38.5	1089.360	1082.952	1083.753	1090.962	1094.166
39.0	1078.146	1074.141	1074.141	1082.151	1085.355
39.5	1069.335	1063.728	1064.529	1073.340	1077.345
40.0	1058.922	1054.917	1056.519	1063.728	1068.534
40.5	1052.514	1045.305	1046.907	1053.315	1060.524
41.0	1041.300	1035.693	1036.494	1045.305	1048.509
41.5	1031.688	1027.683	1027.683	1036.494	1040.499
42.0	1022.877	1017.270	1016.469	1025.280	1030.086
42.5	1013.265	1006.056	1007.658	1014.867	1019.673
43.0	1001.250	998.046	998.046	1006.056	1010.862
43.5	992.439	987.633	986.832	995.643	1001.250
44.0	982.827	978.822	978.021	986.031	991.638
44.5	973.215	969.210	968.409	976.419	981.225
45.0	962.802	958.797	958.797	966.807	971.613
45.5	952.389	949.185	948.384	956.394	960.399
46.0	942.777	937.170	937.971	946.782	949.185
46.5	933.165	926.757	929.160	937.170	940.374
47.0	921.951	917.946	917.946	926.757	928.359
47.5	911.538	907.533	908.334	915.543	917.946
48.0	901.125	897.120	897.921	905.130	906.732
48.5	890.712	887.508	886.707	894.717	897.921
49.0	881.901	877.095	876.294	885.105	886.707
49.5	869.886	866.682	865.881	873.891	875.493
50.0	860.274	855.468	857.070	863.478	865.881
50.5	849.861	845.055	845.856	853.065	854.667
51.0	837.846	833.841	834.642	841.851	844.254
51.5	827.433	823.428	823.428	833.040	833.841
52.0	817.020	812.214	813.816	821.025	821.826
52.5	806.607	801.801	802.602	809.811	812.214
53.0	795.473	791.148	790.987	798.917	801.000
53.5	783.378	780.494	780.735	787.864	790.106
54.0	773.125	770.402	770.482	777.771	779.053
54.5	763.033	758.707	759.188	766.957	769.040

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55.0	751.738	747.974	748.374	756.144	757.826
55.5	740.124	736.600	737.320	745.090	747.253
56.0	730.192	725.065	726.267	733.396	736.359
56.5	718.577	714.172	715.453	722.182	723.784
57.0	706.963	702.797	703.999	711.448	711.688
57.5	695.989	692.545	692.945	699.673	699.513
58.0	685.496	680.770	681.971	687.979	688.059
58.5	673.721	669.235	670.357	675.884	676.444
59.0	662.026	658.342	659.383	664.429	662.667
59.5	651.613	646.407	647.929	652.735	649.851
60.0	639.759	635.834	637.035	640.399	639.198
60.5	627.263	623.979	625.261	628.545	626.222
61.0	616.209	612.124	613.886	616.530	613.165
61.5	604.915	601.070	602.833	603.874	600.510
62.0	593.140	589.616	590.978	591.058	588.815
62.5	581.446	577.921	579.684	578.082	575.118
63.0	569.671	566.147	568.229	565.346	562.222
63.5	559.338	554.773	556.375	552.610	549.806
64.0	547.083	543.719	545.241	540.435	537.311
64.5	535.549	532.425	533.546	528.179	524.335
65.0	523.934	520.169	522.652	515.283	511.038
65.5	512.159	509.196	510.477	502.467	498.142
66.0	501.666	498.462	498.943	490.132	485.646
66.5	490.933	487.168	487.008	476.915	471.869
67.0	478.597	475.874	474.753	464.500	459.854
67.5	466.903	464.980	462.818	452.325	448.320
68.0	455.689	453.526	450.482	439.989	435.824
68.5	444.315	441.832	438.708	427.333	422.447
69.0	433.501	430.698	427.333	414.037	410.192
69.5	422.447	419.484	414.838	401.221	397.296
70.0	411.554	408.430	402.262	388.725	383.999
70.5	399.939	396.976	389.366	375.509	371.183
71.0	387.364	385.681	376.630	362.773	358.127
71.5	375.749	373.907	363.894	349.556	344.430
72.0	364.215	362.212	351.559	336.420	331.294
72.5	352.120	350.758	338.823	322.883	318.077
73.0	340.665	339.304	325.927	309.987	305.181
73.5	329.131	328.090	313.031	297.411	291.884
74.0	317.997	317.036	300.615	284.675	278.748
74.5	307.103	305.902	287.879	271.699	266.172
75.0	295.489	293.887	275.224	258.803	252.956
75.5	284.515	282.192	262.408	245.907	239.499
76.0	273.141	270.337	249.992	232.851	226.282
76.5	261.526	259.284	237.657	220.275	213.627
77.0	250.393	248.070	225.081	207.779	200.650
77.5	239.899	236.375	212.505	194.883	187.754
78.0	229.006	224.280	200.170	182.308	174.858
78.5	218.192	212.345	188.315	169.812	161.882
79.0	207.379	200.650	175.900	157.316	149.226
79.5	196.005	188.796	163.885	144.821	136.891
80.0	185.512	177.021	151.789	132.646	124.876
80.5	174.858	165.166	139.935	120.631	113.181
81.0	164.125	153.632	128.320	109.817	101.246
81.5	153.872	142.017	116.465	98.363	90.112
82.0	143.299	130.323	104.851	85.947	78.818
82.5	132.565	118.788	93.316	74.733	68.245

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CANDELA TABULATION - (Cont.)

83.0	121.672	107.174	82.984	64.160	57.672
83.5	111.019	95.960	71.770	54.308	47.499
84.0	100.606	85.306	61.116	44.536	37.887
84.5	90.273	74.573	51.104	35.084	28.435
85.0	80.100	63.840	41.412	26.193	20.025
85.5	69.767	53.747	32.200	18.743	14.017
86.0	59.835	44.135	24.350	13.136	10.573
86.5	50.383	34.523	17.942	9.612	7.609
87.0	41.332	26.513	12.656	7.529	6.488
87.5	33.161	20.025	8.891	6.168	5.767
88.0	25.792	14.578	6.648	6.088	5.126
88.5	19.144	9.532	6.328	6.408	4.486
89.0	13.937	5.767	4.085	6.007	3.845
89.5	9.292	3.524	3.044	5.046	2.643
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 : AP-14-L40-850-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-L40-850-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-L40-850-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	538.20	N.A.	13.00
0-30	1138.16	N.A.	27.50
0-40	1857.15	N.A.	44.90
0-60	3270.92	N.A.	79.10
0-80	4075.19	N.A.	98.50
0-90	4137.79	N.A.	100.00
10-90	3998.11	N.A.	96.60
20-40	1318.95	N.A.	31.90
20-50	2061.34	N.A.	49.80
40-70	1927.24	N.A.	46.60
60-80	804.27	N.A.	19.40
70-80	290.80	N.A.	7.00
80-90	62.60	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	4137.79	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	139.68
10-20	398.52
20-30	599.96
30-40	718.99
40-50	742.39
50-60	671.38
60-70	513.47
70-80	290.80
80-90	62.60
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-L40-850-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	65	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

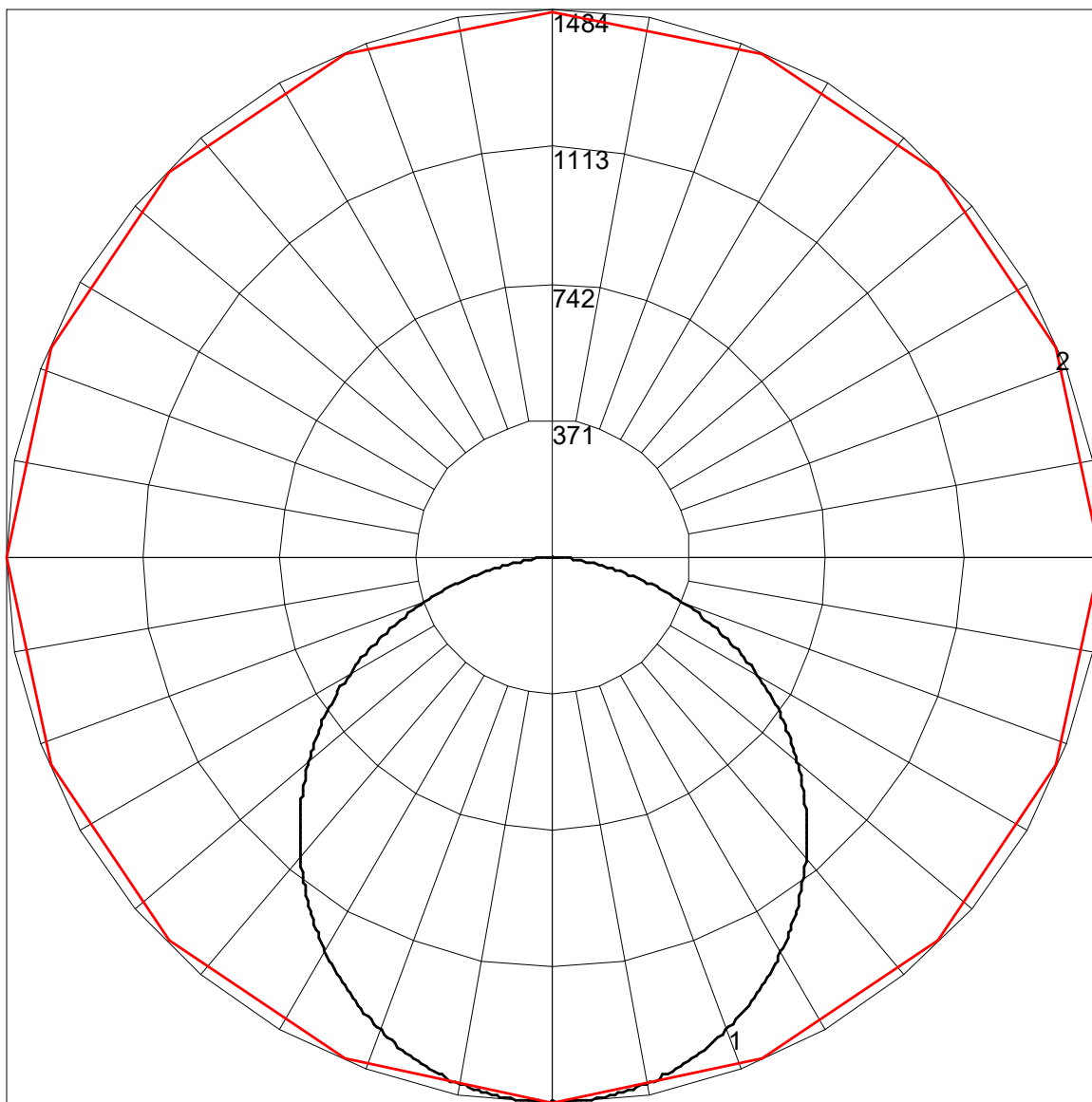
IES INDOOR REPORT
PHOTOMETRIC FILENAME : AP-14-L40-850-DIM-UNV_.IES

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	17.0	18.6	17.3	18.9	19.2	17.0	18.7	17.4	19.0	19.3
	3H	18.9	20.4	19.2	20.7	21.0	18.8	20.3	19.2	20.6	21.0
	4H	19.6	21.0	20.0	21.4	21.7	19.4	20.8	19.8	21.1	21.5
	6H	20.2	21.5	20.6	21.8	22.2	19.7	21.0	20.1	21.4	21.8
	8H	20.4	21.6	20.8	22.0	22.4	19.8	21.0	20.2	21.4	21.8
	12H	20.5	21.7	20.9	22.1	22.5	19.8	21.0	20.2	21.3	21.8
4H	2H	17.6	19.0	18.0	19.4	19.7	17.7	19.1	18.1	19.4	19.8
	3H	19.8	20.9	20.2	21.3	21.7	19.6	20.8	20.1	21.2	21.6
	4H	20.6	21.7	21.1	22.1	22.5	20.3	21.4	20.8	21.8	22.3
	6H	21.3	22.2	21.8	22.7	23.1	20.8	21.7	21.2	22.2	22.6
	8H	21.5	22.4	22.0	22.9	23.3	20.9	21.7	21.3	22.2	22.6
	12H	21.7	22.5	22.2	23.0	23.4	20.9	21.7	21.4	22.1	22.6
8H	4H	20.9	21.8	21.4	22.2	22.7	20.7	21.5	21.1	22.0	22.4
	6H	21.7	22.4	22.2	22.9	23.4	21.2	21.9	21.7	22.4	22.9
	8H	22.0	22.7	22.5	23.2	23.7	21.3	22.0	21.8	22.5	22.9
	12H	22.3	22.8	22.8	23.3	23.9	21.4	21.9	21.9	22.4	23.0
12H	4H	20.9	21.7	21.4	22.2	22.6	20.7	21.5	21.2	22.0	22.4
	6H	21.8	22.4	22.3	22.9	23.4	21.3	21.9	21.8	22.4	22.9
	8H	22.1	22.7	22.6	23.2	23.7	21.4	22.0	21.9	22.5	23.0

Maximum UGR = 23.9

POLAR GRAPH



Maximum Candela = 1484.253 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.)