



IES INDOOR REPORT
PHOTOMETRIC FILENAME : HETG-S14-L38-940-A-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST] GEN FROM 12595750.01A
[TESTLAB] UL Verification Services Inc.
[ISSUEDATE] 10/30/2020
[MANUFAC] WILLIAMS INDOOR
[OTHER] H.E. WILLIAMS, INC. - CARTHAGE, MO.
[LUMCAT] HETG-S14-L38-940-A-DIM-UNV
[LUMINAIRE] White steel housing, frosted lens enclosure
[LAMP] 112 LED'S, Two boards 56 LED's each
[LAMPCAT] HLM 90 CRI 4000K CCT

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3326
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	30.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.22
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.92 ft
Luminous Width (90-270)	0.92 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3184	3338	3463
55	2929	3170	3247
65	2623	2874	2718
75	2151	2285	1938
85	1302	849	473

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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	1253.238	1253.238	1253.238	1253.238	1253.238
0.5	1253.238	1255.805	1252.383	1251.527	1255.805
1.0	1253.238	1255.805	1252.383	1251.527	1254.949
1.5	1253.238	1255.805	1251.527	1250.672	1254.949
2.0	1252.383	1254.949	1251.527	1250.672	1254.094
2.5	1252.383	1254.094	1250.672	1249.816	1253.238
3.0	1251.527	1253.238	1249.816	1248.961	1251.527
3.5	1250.672	1252.383	1248.961	1248.106	1250.672
4.0	1249.816	1251.527	1248.106	1246.395	1249.816
4.5	1248.106	1250.672	1247.250	1245.539	1248.106
5.0	1247.250	1248.961	1246.395	1244.684	1247.250
5.5	1245.539	1248.106	1244.684	1242.973	1245.539
6.0	1244.684	1246.395	1242.973	1242.117	1244.684
6.5	1242.973	1244.684	1241.262	1240.406	1242.973
7.0	1241.262	1242.973	1239.551	1238.696	1241.262
7.5	1238.696	1240.406	1237.840	1236.985	1240.406
8.0	1236.985	1237.840	1236.129	1236.129	1238.696
8.5	1234.418	1235.274	1233.563	1234.418	1236.985
9.0	1231.852	1232.707	1231.852	1232.707	1236.129
9.5	1229.286	1230.141	1229.286	1230.996	1234.418
10.0	1226.719	1227.575	1226.719	1229.286	1232.707
10.5	1223.297	1225.008	1224.153	1226.719	1230.996
11.0	1220.731	1221.586	1221.586	1225.008	1229.286
11.5	1217.309	1218.165	1219.020	1222.442	1226.719
12.0	1214.743	1215.598	1215.598	1219.876	1225.008
12.5	1211.321	1212.176	1213.032	1217.309	1222.442
13.0	1207.899	1208.755	1209.610	1213.887	1219.876
13.5	1203.622	1205.333	1206.188	1211.321	1216.454
14.0	1200.200	1201.911	1202.767	1207.899	1213.032
14.5	1196.778	1197.634	1199.345	1204.477	1209.610
15.0	1192.501	1194.212	1195.923	1200.200	1205.333
15.5	1188.224	1189.935	1191.646	1196.778	1201.056
16.0	1183.947	1185.657	1188.224	1192.501	1196.778
16.5	1179.669	1181.380	1183.947	1188.224	1192.501
17.0	1175.392	1177.103	1179.669	1183.947	1187.368
17.5	1170.259	1172.826	1175.392	1179.669	1183.091
18.0	1165.982	1167.693	1171.115	1175.392	1177.958
18.5	1160.849	1163.416	1166.838	1170.259	1173.681
19.0	1155.717	1158.283	1162.560	1165.982	1169.404
19.5	1150.584	1153.150	1157.428	1161.705	1165.127
20.0	1144.596	1148.018	1152.295	1156.572	1160.849
20.5	1139.463	1142.885	1147.162	1152.295	1155.717
21.0	1133.475	1136.897	1142.029	1147.162	1151.439
21.5	1128.342	1130.908	1136.897	1142.885	1147.162
22.0	1122.354	1125.776	1130.908	1137.752	1142.029
22.5	1116.366	1119.788	1125.776	1132.619	1136.897
23.0	1110.378	1112.944	1119.788	1127.487	1131.764
23.5	1103.534	1106.956	1113.799	1121.499	1126.631
24.0	1097.546	1100.112	1107.811	1116.366	1120.643
24.5	1090.702	1094.124	1101.823	1110.378	1114.655
25.0	1083.859	1087.280	1095.835	1104.389	1108.667
25.5	1077.015	1080.437	1088.991	1098.401	1102.679
26.0	1070.171	1074.449	1083.003	1091.558	1096.690
26.5	1063.328	1067.605	1077.015	1085.569	1090.702

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CANDELA TABULATION - (Cont.)

27.0	1055.629	1059.906	1070.171	1078.726	1083.859
27.5	1048.785	1053.062	1063.328	1072.738	1077.870
28.0	1041.941	1046.219	1056.484	1065.894	1071.027
28.5	1034.242	1038.520	1049.640	1059.906	1065.039
29.0	1026.543	1031.676	1042.797	1053.918	1059.050
29.5	1019.700	1023.977	1035.953	1047.074	1053.062
30.0	1012.001	1016.278	1029.110	1041.086	1046.219
30.5	1004.301	1009.434	1021.411	1034.242	1040.231
31.0	996.602	1000.880	1014.567	1027.399	1034.242
31.5	988.048	993.181	1006.868	1021.411	1027.399
32.0	980.349	985.482	1000.024	1014.567	1020.555
32.5	972.650	977.782	992.325	1007.723	1014.567
33.0	964.095	969.228	984.626	1000.880	1007.723
33.5	956.396	961.529	977.782	993.181	1000.880
34.0	947.842	953.830	970.083	986.337	993.181
34.5	939.287	945.275	962.384	978.638	986.337
35.0	930.733	937.576	954.685	971.794	978.638
35.5	922.178	929.022	946.986	964.095	970.939
36.0	913.624	920.467	939.287	956.396	963.240
36.5	905.069	912.768	930.733	948.697	955.541
37.0	895.659	904.214	923.033	940.998	947.842
37.5	887.104	895.659	915.334	933.299	940.143
38.0	878.550	887.104	907.635	925.600	932.443
38.5	869.140	878.550	899.081	917.901	924.744
39.0	860.585	869.995	890.526	910.202	916.190
39.5	852.031	861.441	882.827	901.647	908.491
40.0	843.220	852.801	874.273	893.948	899.936
40.5	834.494	844.161	865.718	885.394	892.237
41.0	825.597	835.350	858.019	876.839	883.683
41.5	816.530	826.538	849.293	869.140	875.984
42.0	807.547	817.813	840.739	860.585	867.429
42.5	798.394	809.002	832.099	852.373	858.875
43.0	789.326	800.019	823.459	843.990	850.833
43.5	780.087	791.123	814.733	835.692	842.621
44.0	770.677	782.055	805.922	827.479	834.323
44.5	761.353	773.073	797.282	819.182	826.111
45.0	751.943	763.834	788.471	810.798	817.898
45.5	742.362	754.509	779.660	802.500	809.258
46.0	732.866	745.185	770.848	794.031	800.704
46.5	723.285	735.946	761.952	785.562	792.149
47.0	713.875	726.622	753.055	777.008	783.509
47.5	704.380	717.297	744.158	768.539	774.784
48.0	694.970	707.973	735.262	759.813	765.801
48.5	685.474	698.648	726.279	751.002	756.733
49.0	675.979	689.238	717.468	742.020	747.409
49.5	666.483	679.914	708.486	732.952	737.999
50.0	657.073	670.418	699.418	723.713	728.161
50.5	647.663	661.008	690.350	714.474	718.067
51.0	638.082	651.684	681.197	705.064	707.973
51.5	628.672	642.445	672.215	695.398	697.878
52.0	619.262	633.035	662.976	685.560	687.698
52.5	609.596	623.711	653.737	675.294	677.262
53.0	599.843	614.301	644.498	664.943	666.825
53.5	590.091	604.720	635.345	654.678	656.132
54.0	580.425	595.310	626.106	644.327	645.182
54.5	570.758	585.728	616.781	634.147	633.634

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CANDELA TABULATION - (Cont.)

55.0	561.091	576.318	607.371	623.625	622.085
55.5	551.254	566.909	597.961	613.103	610.622
56.0	541.330	557.327	588.551	602.239	599.159
56.5	531.664	547.917	579.141	591.032	587.610
57.0	522.083	538.422	569.646	579.740	575.634
57.5	512.416	528.841	560.065	568.277	563.230
58.0	502.750	519.345	550.484	557.071	550.912
58.5	493.083	509.935	540.732	545.779	538.850
59.0	483.502	500.440	530.723	534.230	526.702
59.5	474.006	491.030	520.629	522.254	514.555
60.0	464.596	481.705	510.363	510.278	502.407
60.5	455.101	472.381	500.098	498.216	490.260
61.0	445.776	463.142	489.832	486.239	478.369
61.5	436.452	453.818	479.652	474.349	466.478
62.0	426.956	444.579	469.216	462.543	454.588
62.5	417.632	435.340	458.779	450.824	442.782
63.0	408.136	426.187	448.257	439.104	430.977
63.5	398.727	416.948	437.650	427.470	419.257
64.0	389.231	407.880	426.871	416.007	407.538
64.5	379.821	398.812	416.263	404.629	395.647
65.0	370.240	389.744	405.656	392.995	383.671
65.5	360.573	380.505	394.963	381.703	372.122
66.0	350.992	371.352	384.269	370.411	360.402
66.5	341.497	362.199	373.491	358.948	348.854
67.0	332.001	352.960	362.712	347.827	337.476
67.5	322.591	343.892	352.104	336.621	326.099
68.0	312.925	334.824	341.411	325.329	314.636
68.5	303.600	325.756	330.889	314.208	303.429
69.0	294.361	316.603	320.281	302.916	292.223
69.5	284.951	307.450	309.674	291.880	281.102
70.0	275.798	298.467	299.237	280.760	270.238
70.5	266.645	289.400	288.972	269.981	259.630
71.0	257.662	280.161	278.621	259.202	248.937
71.5	248.509	271.007	268.270	248.338	238.500
72.0	239.612	261.769	258.005	237.901	227.978
72.5	230.545	252.615	247.739	227.379	217.627
73.0	221.648	243.376	237.645	216.943	207.276
73.5	212.666	234.308	227.550	206.592	197.011
74.0	203.854	225.241	217.456	196.412	187.173
74.5	194.872	216.087	207.447	186.489	177.421
75.0	185.975	206.934	197.524	176.822	167.498
75.5	177.079	197.781	187.943	166.984	157.660
76.0	168.866	188.884	178.276	157.061	147.822
76.5	159.970	179.902	168.524	147.223	138.070
77.0	151.330	170.834	158.601	137.471	128.917
77.5	143.032	161.852	148.934	128.232	119.421
78.0	134.819	152.869	139.353	118.822	110.182
78.5	126.521	143.973	130.114	109.412	101.115
79.0	118.480	135.418	120.961	100.174	92.218
79.5	110.610	126.864	111.551	91.106	83.407
80.0	102.911	118.651	102.312	82.123	74.767
80.5	95.383	110.268	93.244	73.312	66.212
81.0	88.197	101.970	84.262	64.672	57.743
81.5	81.097	93.929	75.365	56.289	49.787
82.0	74.339	85.887	66.725	48.248	42.516
82.5	67.666	78.103	58.427	40.976	36.186

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CANDELA TABULATION - (Cont.)

83.0	61.250	70.318	50.301	34.646	31.138
83.5	55.006	62.705	42.516	29.770	26.519
84.0	49.103	55.177	35.416	25.236	22.071
84.5	43.371	47.820	29.513	20.873	17.879
85.0	37.897	40.720	24.723	16.681	13.773
85.5	32.678	33.876	20.274	12.832	10.351
86.0	27.717	27.631	15.911	9.667	8.469
86.5	23.012	22.413	11.891	7.785	7.271
87.0	18.734	17.965	8.555	6.587	6.074
87.5	14.714	13.773	6.159	5.389	4.962
88.0	11.035	9.923	4.876	4.363	4.021
88.5	7.785	6.758	3.935	3.678	3.336
89.0	5.475	4.619	3.251	2.994	2.823
89.5	3.850	3.080	2.566	2.481	2.310
90.0	2.395	2.310	1.968	1.882	1.796
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 : HETG-S14-L38-940-A-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 : HETG-S14-L38-940-A-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 : HETG-S14-L38-940-A-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	455.96	N.A.	13.70
0-30	960.60	N.A.	28.90
0-40	1557.45	N.A.	46.80
0-60	2699.67	N.A.	81.20
0-80	3287.79	N.A.	98.90
0-90	3325.8	N.A.	100.00
10-90	3207.39	N.A.	96.40
20-40	1101.49	N.A.	33.10
20-50	1708.44	N.A.	51.40
40-70	1529.5	N.A.	46.00
60-80	588.13	N.A.	17.70
70-80	200.84	N.A.	6.00
80-90	38.01	N.A.	1.10
90-110	0.06	N.A.	0.00
90-120	0.06	N.A.	0.00
90-130	0.06	N.A.	0.00
90-150	0.06	N.A.	0.00
90-180	0.06	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3325.86	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	118.42
10-20	337.54
20-30	504.64
30-40	596.85
40-50	606.95
50-60	535.27
60-70	387.28
70-80	200.84
80-90	38.01
90-100	0.06
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 : HETG-S14-L38-940-A-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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	47	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HETG-S14-L38-940-A-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	17.4	16.2	17.7	18.0	16.3	17.9	16.7	18.2	18.6
	3H	17.5	19.0	17.9	19.3	19.7	17.8	19.2	18.2	19.6	19.9
	4H	18.1	19.5	18.5	19.8	20.2	18.2	19.6	18.6	19.9	20.3
	6H	18.5	19.8	18.9	20.1	20.5	18.4	19.7	18.8	20.1	20.5
	8H	18.6	19.8	19.0	20.2	20.6	18.5	19.7	18.9	20.1	20.5
	12H	18.7	19.8	19.1	20.2	20.6	18.5	19.6	18.9	20.0	20.4

UGR Viewed Endwise

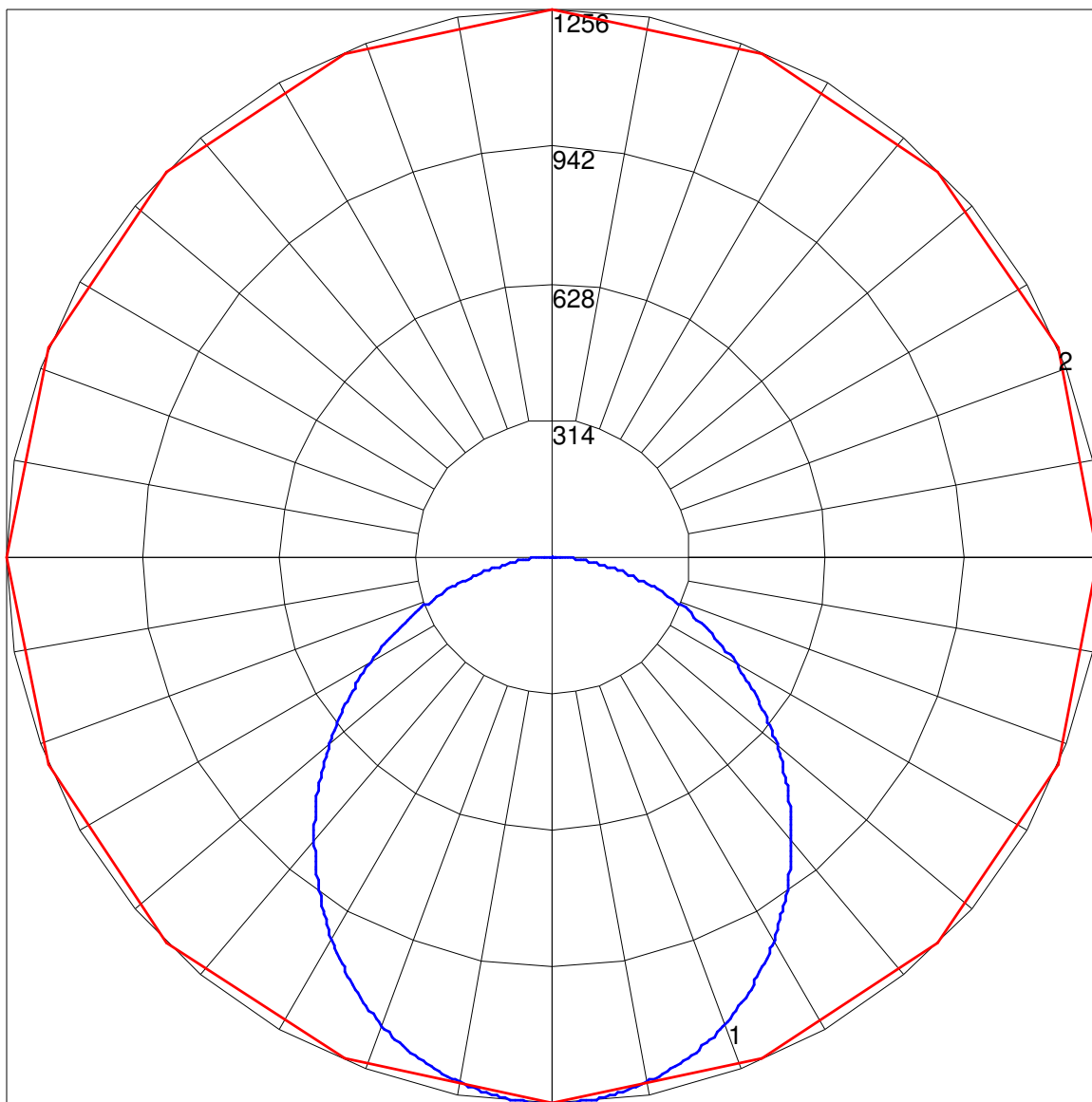
4H	2H	16.5	17.9	16.9	18.2	18.6	16.9	18.3	17.3	18.6	19.0
	3H	18.4	19.6	18.8	20.0	20.4	18.6	19.7	19.0	20.1	20.5
	4H	19.2	20.2	19.6	20.6	21.0	19.1	20.1	19.5	20.6	21.0
	6H	19.7	20.6	20.1	21.0	21.5	19.4	20.3	19.9	20.8	21.2
	8H	19.8	20.7	20.3	21.1	21.6	19.5	20.3	19.9	20.7	21.2
	12H	19.9	20.7	20.4	21.1	21.6	19.5	20.2	19.9	20.7	21.2

8H	4H	19.4	20.3	19.9	20.7	21.2	19.4	20.2	19.9	20.7	21.1
	6H	20.0	20.7	20.5	21.2	21.7	19.8	20.5	20.2	20.9	21.4
	8H	20.3	20.9	20.8	21.4	21.9	19.8	20.4	20.3	20.9	21.4
	12H	20.4	20.9	20.9	21.4	22.0	19.8	20.4	20.3	20.9	21.4

12H	4H	19.4	20.2	19.9	20.7	21.1	19.4	20.2	19.9	20.6	21.1
	6H	20.1	20.7	20.6	21.2	21.7	19.8	20.4	20.3	20.9	21.4
	8H	20.3	20.9	20.8	21.3	21.9	19.9	20.4	20.4	20.9	21.5

Maximum UGR = 22.0

POLAR GRAPH



Maximum Candela = 1255.805 Located At Horizontal Angle = 22.5, Vertical Angle = .5
1 - Vertical Plane Through Horizontal Angles (22.5 - 202.5) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (.5) (Through Max. Cd.)