



IES INDOOR REPORT

PHOTOMETRIC FILENAME : HETG-S14-L38-835-A-DIM-UNV_.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TEST] GEN from 12595750.01A

[TESTLAB] UL Verification Services Inc.

[ISSUE DATE] 31 JAN 2020

[MANUFAC] H E Williams Inc

[LUMCAT] HETG-S14-L38/835-A-DIM-UNV

[LUMINAIRE] White steel housing, frosted lens enclosure

[LAMP] 112 LED'S, Two boards 56 LED's each

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

[MORE] hod of absolute photometry.

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3825
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	125
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	3661	3839	3983
55	3368	3646	3734
65	3016	3305	3126
75	2474	2628	2228
85	1497	977	544

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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	1441.261	1441.261	1441.261	1441.261	1441.261
0.5	1441.261	1444.213	1440.278	1439.294	1444.213
1.0	1441.261	1444.213	1440.278	1439.294	1443.229
1.5	1441.261	1444.213	1439.294	1438.310	1443.229
2.0	1440.278	1443.229	1439.294	1438.310	1442.245
2.5	1440.278	1442.245	1438.310	1437.326	1441.261
3.0	1439.294	1441.261	1437.326	1436.342	1439.294
3.5	1438.310	1440.278	1436.342	1435.359	1438.310
4.0	1437.326	1439.294	1435.359	1433.391	1437.326
4.5	1435.359	1438.310	1434.375	1432.407	1435.359
5.0	1434.375	1436.342	1433.391	1431.423	1434.375
5.5	1432.407	1435.359	1431.423	1429.456	1432.407
6.0	1431.423	1433.391	1429.456	1428.472	1431.423
6.5	1429.456	1431.423	1427.488	1426.504	1429.456
7.0	1427.488	1429.456	1425.521	1424.537	1427.488
7.5	1424.537	1426.504	1423.553	1422.569	1426.504
8.0	1422.569	1423.553	1421.585	1421.585	1424.537
8.5	1419.618	1420.602	1418.634	1419.618	1422.569
9.0	1416.666	1417.650	1416.666	1417.650	1421.585
9.5	1413.715	1414.699	1413.715	1415.683	1419.618
10.0	1410.764	1411.748	1410.764	1413.715	1417.650
10.5	1406.829	1408.796	1407.812	1410.764	1415.683
11.0	1403.877	1404.861	1404.861	1408.796	1413.715
11.5	1399.942	1400.926	1401.910	1405.845	1410.764
12.0	1396.991	1397.974	1397.974	1402.893	1408.796
12.5	1393.055	1394.039	1395.023	1399.942	1405.845
13.0	1389.120	1390.104	1391.088	1396.007	1402.893
13.5	1384.201	1386.169	1387.153	1393.055	1398.958
14.0	1380.266	1382.234	1383.217	1389.120	1395.023
14.5	1376.331	1377.315	1379.282	1385.185	1391.088
15.0	1371.412	1373.379	1375.347	1380.266	1386.169
15.5	1366.493	1368.460	1370.428	1376.331	1381.250
16.0	1361.574	1363.542	1366.493	1371.412	1376.331
16.5	1356.655	1358.623	1361.574	1366.493	1371.412
17.0	1351.736	1353.704	1356.655	1361.574	1365.509
17.5	1345.833	1348.785	1351.736	1356.655	1360.590
18.0	1340.914	1342.882	1346.817	1351.736	1354.687
18.5	1335.011	1337.963	1341.898	1345.833	1349.768
19.0	1329.109	1332.060	1336.979	1340.914	1344.849
19.5	1323.206	1326.157	1331.076	1335.995	1339.930
20.0	1316.319	1320.254	1325.173	1330.092	1335.011
20.5	1310.417	1314.352	1319.271	1325.173	1329.109
21.0	1303.530	1307.465	1313.368	1319.271	1324.190
21.5	1297.627	1300.579	1307.465	1314.352	1319.271
22.0	1290.741	1294.676	1300.579	1308.449	1313.368
22.5	1283.854	1287.789	1294.676	1302.546	1307.465
23.0	1276.967	1279.919	1287.789	1296.643	1301.562
23.5	1269.097	1273.032	1280.903	1289.757	1295.660
24.0	1262.210	1265.162	1274.016	1283.854	1288.773
24.5	1254.340	1258.275	1267.129	1276.967	1281.886
25.0	1246.470	1250.405	1260.243	1270.081	1275.000
25.5	1238.599	1242.535	1252.373	1263.194	1268.113
26.0	1230.729	1235.648	1245.486	1255.324	1261.227
26.5	1222.859	1227.778	1238.599	1248.437	1254.340

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CANDELA TABULATION - (Cont.)

27.0	1214.004	1218.923	1230.729	1240.567	1246.470
27.5	1206.134	1211.053	1222.859	1233.680	1239.583
28.0	1198.264	1203.183	1214.988	1225.810	1231.713
28.5	1189.410	1194.329	1207.118	1218.923	1224.826
29.0	1180.555	1186.458	1199.248	1212.037	1217.940
29.5	1172.685	1177.604	1191.377	1204.167	1211.053
30.0	1163.831	1168.750	1183.507	1197.280	1203.183
30.5	1154.977	1160.879	1174.653	1189.410	1196.296
31.0	1146.123	1151.042	1166.782	1181.539	1189.410
31.5	1136.285	1142.187	1157.928	1174.653	1181.539
32.0	1127.430	1133.333	1150.058	1166.782	1173.669
32.5	1118.576	1124.479	1141.204	1158.912	1166.782
33.0	1108.738	1114.641	1132.349	1151.042	1158.912
33.5	1099.884	1105.787	1124.479	1142.187	1151.042
34.0	1090.046	1096.933	1115.625	1134.317	1142.187
34.5	1080.208	1087.095	1106.771	1125.463	1134.317
35.0	1070.370	1078.241	1097.917	1117.592	1125.463
35.5	1060.532	1068.403	1089.062	1108.738	1116.609
36.0	1050.694	1058.565	1080.208	1099.884	1107.754
36.5	1040.856	1049.711	1070.370	1091.030	1098.900
37.0	1030.035	1039.873	1061.516	1082.176	1090.046
37.5	1020.197	1030.035	1052.662	1073.322	1081.192
38.0	1010.359	1020.197	1043.808	1064.467	1072.338
38.5	999.537	1010.359	1033.970	1055.613	1063.484
39.0	989.699	1000.521	1024.132	1046.759	1053.646
39.5	979.861	990.683	1015.278	1036.921	1044.792
40.0	969.728	980.746	1005.440	1028.067	1034.954
40.5	959.693	970.810	995.602	1018.229	1026.099
41.0	949.462	960.677	986.748	1008.391	1016.261
41.5	939.033	950.544	976.713	999.537	1007.407
42.0	928.704	940.509	966.875	989.699	997.569
42.5	918.177	930.376	956.939	980.255	987.731
43.0	907.749	920.046	947.002	970.613	978.484
43.5	897.124	909.815	936.967	961.070	969.039
44.0	886.302	899.386	926.834	951.626	959.496
44.5	875.579	889.057	916.898	942.083	950.052
45.0	864.757	878.432	906.765	932.442	940.608
45.5	853.738	867.708	896.632	922.899	930.671
46.0	842.818	856.985	886.499	913.160	920.833
46.5	831.800	846.360	876.267	903.420	910.995
47.0	820.978	835.636	866.036	893.582	901.059
47.5	810.058	824.913	855.804	883.842	891.024
48.0	799.236	814.190	845.573	873.808	880.694
48.5	788.316	803.466	835.243	863.675	870.266
49.0	777.396	792.645	825.110	853.345	859.543
49.5	766.476	781.921	814.780	842.917	848.721
50.0	755.654	771.001	804.352	832.292	837.407
50.5	744.832	760.179	793.924	821.667	825.799
51.0	733.814	749.456	783.397	810.845	814.190
51.5	722.992	738.831	773.067	799.728	802.581
52.0	712.170	728.009	762.442	788.414	790.874
52.5	701.053	717.286	751.817	776.609	778.871
53.0	689.838	706.464	741.192	764.705	766.869
53.5	678.623	695.446	730.665	752.899	754.572
54.0	667.506	684.624	720.040	740.995	741.979
54.5	656.389	673.605	709.317	729.288	728.698

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CANDELA TABULATION - (Cont.)

55.0	645.272	662.783	698.495	717.187	715.417
55.5	633.958	651.962	687.674	705.087	702.234
56.0	622.546	640.943	676.852	692.593	689.051
56.5	611.429	630.121	666.030	679.705	675.770
57.0	600.411	619.201	655.110	666.719	661.996
57.5	589.294	608.183	644.091	653.536	647.731
58.0	578.177	597.263	633.073	640.648	633.565
58.5	567.060	586.441	621.858	627.662	619.693
59.0	556.042	575.521	610.347	614.381	605.723
59.5	545.121	564.699	598.738	600.608	591.753
60.0	534.300	553.976	586.933	586.834	577.783
60.5	523.380	543.252	575.127	572.963	563.814
61.0	512.656	532.627	563.322	559.190	550.139
61.5	501.933	521.904	551.615	545.515	536.464
62.0	491.013	511.279	539.612	531.939	522.789
62.5	480.289	500.654	527.610	518.461	509.213
63.0	469.369	490.127	515.509	504.983	495.637
63.5	458.547	479.502	503.310	491.603	482.159
64.0	447.627	469.074	490.914	478.420	468.680
64.5	436.806	458.646	478.715	465.336	455.006
65.0	425.787	448.218	466.516	451.956	441.233
65.5	414.670	437.593	454.219	438.970	427.951
66.0	403.652	427.066	441.921	425.984	414.473
66.5	392.731	416.539	429.525	412.801	401.192
67.0	381.811	405.914	417.130	400.012	388.108
67.5	370.990	395.486	404.931	387.124	375.023
68.0	359.873	385.058	392.633	374.138	361.840
68.5	349.149	374.630	380.532	361.348	348.953
69.0	338.524	364.103	368.333	348.362	336.065
69.5	327.703	353.576	356.134	335.671	323.275
70.0	317.176	343.246	344.132	322.882	310.781
70.5	306.649	332.818	332.326	310.486	298.582
71.0	296.319	322.193	320.422	298.090	286.285
71.5	285.793	311.667	308.518	285.596	274.282
72.0	275.561	301.042	296.713	273.594	262.182
72.5	265.133	290.515	284.907	261.493	250.278
73.0	254.902	279.890	273.299	249.491	238.374
73.5	244.572	269.462	261.690	237.587	226.568
74.0	234.439	259.034	250.081	225.880	215.255
74.5	224.109	248.507	238.571	214.468	204.039
75.0	213.877	237.980	227.159	203.351	192.627
75.5	203.646	227.454	216.140	192.037	181.314
76.0	194.201	217.222	205.023	180.625	170.000
76.5	183.970	206.892	193.808	169.311	158.785
77.0	174.034	196.464	182.396	158.096	148.258
77.5	164.491	186.134	171.279	147.471	137.338
78.0	155.046	175.804	160.260	136.649	126.713
78.5	145.503	165.573	149.635	125.828	116.285
79.0	136.256	155.735	139.109	115.203	106.053
79.5	127.205	145.897	128.287	104.774	95.920
80.0	118.351	136.453	117.662	94.444	85.984
80.5	109.693	126.811	107.234	84.311	76.146
81.0	101.429	117.269	96.904	74.375	66.406
81.5	93.264	108.021	86.672	64.734	57.257
82.0	85.492	98.773	76.736	55.486	48.895
82.5	77.818	89.821	67.193	47.124	41.615

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CANDELA TABULATION - (Cont.)

83.0	70.440	80.868	57.847	39.844	35.810
83.5	63.258	72.112	48.895	34.236	30.498
84.0	56.470	63.455	40.729	29.022	25.382
84.5	49.878	54.994	33.941	24.005	20.561
85.0	43.582	46.829	28.432	19.184	15.839
85.5	37.581	38.958	23.316	14.757	11.904
86.0	31.875	31.777	18.299	11.117	9.740
86.5	26.464	25.775	13.675	8.953	8.362
87.0	21.545	20.660	9.838	7.575	6.985
87.5	16.921	15.839	7.083	6.198	5.706
88.0	12.691	11.412	5.608	5.017	4.624
88.5	8.953	7.772	4.525	4.230	3.837
89.0	6.296	5.312	3.738	3.443	3.247
89.5	4.427	3.542	2.951	2.853	2.656
90.0	2.755	2.656	2.263	2.164	2.066
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-L38-835-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-L38-835-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-L38-835-A-DIM-UNV_.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	524.36	N.A.	13.70
0-30	1104.72	N.A.	28.90
0-40	1791.11	N.A.	46.80
0-60	3104.7	N.A.	81.20
0-80	3781.06	N.A.	98.90
0-90	3824.77	N.A.	100.00
10-90	3688.59	N.A.	96.40
20-40	1266.75	N.A.	33.10
20-50	1964.76	N.A.	51.40
40-70	1758.97	N.A.	46.00
60-80	676.36	N.A.	17.70
70-80	230.98	N.A.	6.00
80-90	43.71	N.A.	1.10
90-110	0.07	N.A.	0.00
90-120	0.07	N.A.	0.00
90-130	0.07	N.A.	0.00
90-150	0.07	N.A.	0.00
90-180	0.07	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3824.84	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.18
10-20	388.18
20-30	580.36
30-40	686.39
40-50	698.01
50-60	615.58
60-70	445.38
70-80	230.98
80-90	43.71
90-100	0.07
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-L38-835-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	117	117	117	117	114	114	114	114	109	109	109	105	105	105	100	100	100	98
1	107	103	99	95	105	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	84	78	95	88	82	77	85	80	75	82	77	74	79	75	72	70
3	89	79	71	65	87	78	70	65	75	69	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	55	67	60	54	64	58	54	62	57	53	51
5	75	63	54	48	73	62	54	48	60	53	47	58	51	47	56	50	46	44
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	41	39
7	65	51	43	37	63	51	43	37	49	42	37	48	41	36	46	41	36	34
8	60	47	39	33	59	46	38	33	45	38	33	44	37	33	43	37	32	30
9	56	43	35	30	55	43	35	30	41	34	30	40	34	29	39	34	29	27
10	53	40	32	27	52	39	32	27	38	32	27	37	31	27	37	31	27	25

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HETG-S14-L38-835-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	16.3	17.9	16.7	18.2	18.5	UGR Viewed Endwise			
	3H	18.0	19.5	18.4	19.8	20.2	16.8	18.4	17.2	18.7
	4H	18.6	20.0	19.0	20.3	20.7	18.3	19.7	18.7	20.1
	6H	19.0	20.3	19.4	20.6	21.0	18.7	20.1	19.1	20.4
	8H	19.1	20.3	19.5	20.7	21.1	18.9	20.2	19.3	20.6
	12H	19.2	20.3	19.6	20.7	21.1	19.0	20.2	19.4	20.6

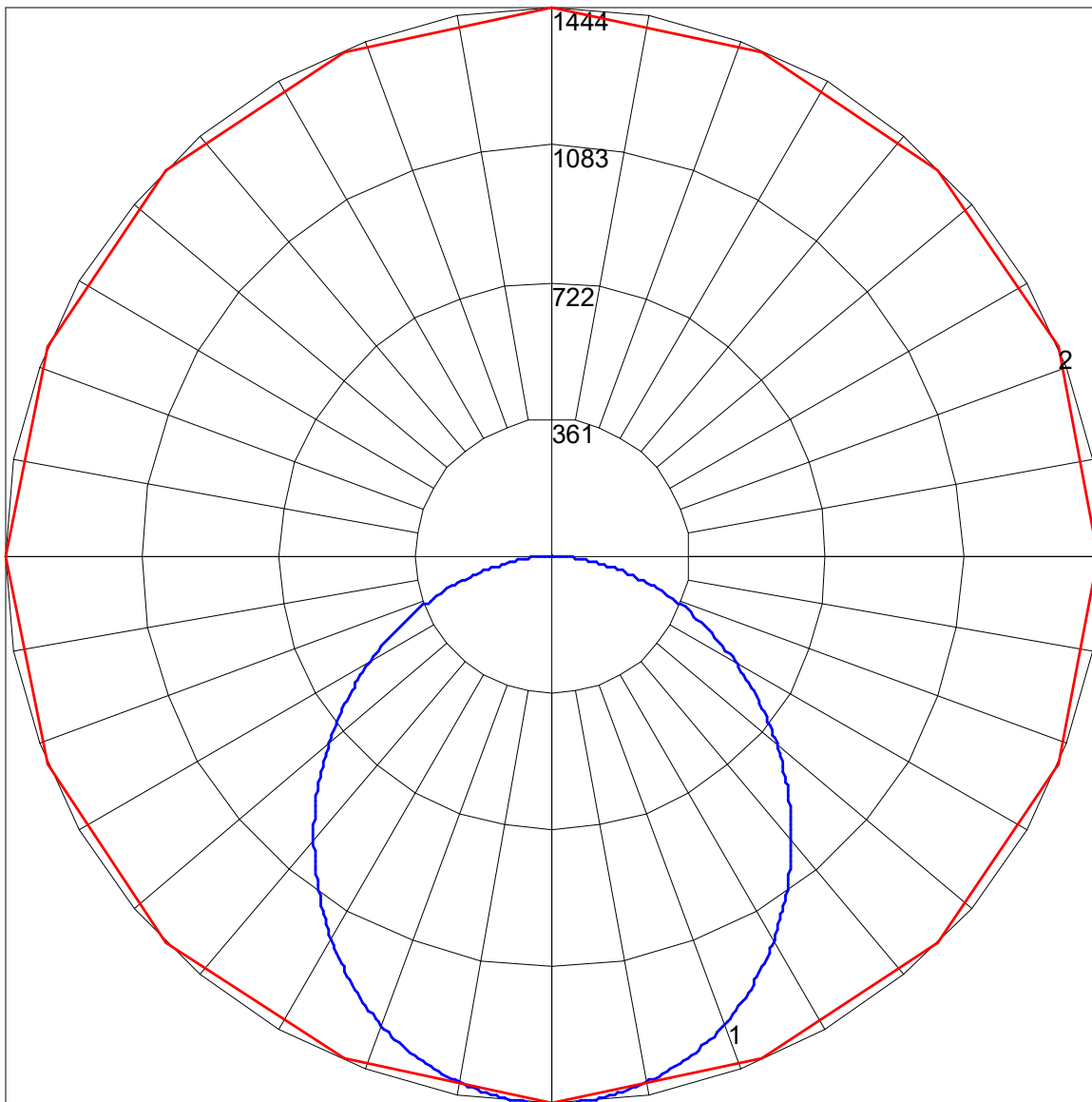
4H	2H	17.0	18.4	17.4	18.7	19.1	17.4	18.8	17.8	19.1	19.5
	3H	18.9	20.1	19.3	20.5	20.9	19.1	20.2	19.5	20.6	21.0
	4H	19.7	20.7	20.1	21.1	21.5	19.6	20.6	20.0	21.1	21.5
	6H	20.2	21.1	20.6	21.5	22.0	19.9	20.8	20.4	21.3	21.7
	8H	20.3	21.2	20.8	21.6	22.1	20.0	20.8	20.4	21.2	21.7
	12H	20.4	21.2	20.9	21.6	22.1	20.0	20.7	20.4	21.2	21.7

8H	4H	19.9	20.8	20.4	21.2	21.7	19.9	20.7	20.4	21.2	21.6
	6H	20.5	21.2	21.0	21.7	22.2	20.3	21.0	20.7	21.4	21.9
	8H	20.8	21.4	21.3	21.9	22.4	20.3	20.9	20.8	21.4	21.9
	12H	20.9	21.4	21.4	21.9	22.5	20.3	20.9	20.8	21.4	21.9

12H	4H	19.9	20.7	20.4	21.2	21.6	19.9	20.7	20.4	21.1	21.6
	6H	20.6	21.2	21.1	21.7	22.2	20.3	20.9	20.8	21.4	21.9
	8H	20.8	21.4	21.3	21.8	22.4	20.4	20.9	20.9	21.4	22.0

Maximum UGR = 22.5

POLAR GRAPH



Maximum Candela = 1444.213 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.)