LEXINGTON, BLUEGRASS AP, KENTUCKY							
Summer Outdoor F:	**89.0**	Summer Indoor F:	**75**	Design Grains:	**38**	Daily Range:	**MEDIUM**
Winter Outdoor F:	**13.0**	Winter Indoor F:	**70**	Cooling RH:	**50%**	Elevation (Ft):	**988**

Cooling Loads

AED Excursion 7.4%
Internal 21.3%
Infiltration 3.6%
Ceiling 20%
Windows 36.3%
Above Grade Walls 11.5%

Name	Area	Sensible	Latent
Windows & Glass Doors	197	1,980	0
Skylights	0	0	0
Doors	0	0	0
Above Grade Walls	1,404	627	0
Floors	0	0	0
Ceiling	1,512	1,089	0
Ventilation	0	0	0
Infiltration	0	195	0
Internal	0	1,161	0
Duct	0	0	0
Blower Heat	0	0	0
AED Excursion	0	404	0
Total	**3,113**	**5,455**	**0**

Heating Loads

Infiltration 16.3%
Ceiling 15.9%
Above Grade Walls 34.5%
Windows 33.3%

Name	Area	Heat Loss
Windows & Glass Doors	197	3,256
Skylights	0	0
Doors	0	0
Above Grade Walls	1,404	3,371
Below Grade Walls	0	0
Ceiling	1,512	1,551
Ventilation	0	0
Infiltration	0	1,590
Internal	0	0
Floors	0	0
Duct	0	0
Humidification	0	0
Hot Water Piping	0	0
Total	**3,113**	**9,769**

Warning: This application has glass areas that produced relatively large cooling loads for part of the day. Variable air volume devices may be required to overcome spikes in solar load for one or more rooms. A zoned system may be required, or some rooms may require zone control (provided by individual, motorized, thermostatically controlled dampers)

AED Graph

Legend:
— HTM
— Average
— Average * 1.3
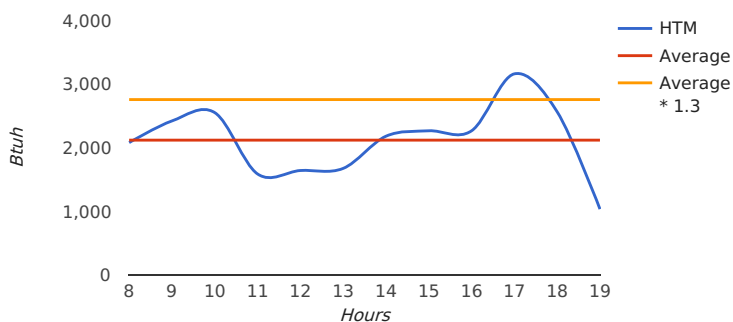
Approved ACCA MJ8 Calculations

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Calculations are based on the ACCA Manual J 8th Edition and are approved by ACCA. All computed calculations are estimates on building use, weather data, and inputted values such a R-Values, window types, duct loss, etc. Equipment selections should meet both the latent and sensible gain as well as building heat loss. See Cool Calc Manual S Report for equipment sizing verification.