Last Update: May 12, 2017

A. In general, Ball State has migrated to LED interior lighting. LED source is preferred over fluorescent for most fixture types if project budget allows. Do not specify incandescent lamps or fixtures.

B. Where fluorescent is the only option or only affordable option utilize 80 CRI, 3500K lamps. Typically "835" series with Advance or GE ballasts only.

C. Prefer lighting controls be as simple as possible. Do not use central lighting control panels, relay panels or any controls that require complex programming. Do not control lighting via the BAS or BMS system unless directed by BSU Engineering.

D. Prefer the use of infrared sensor technology over the use of ultrasonic or dual technology. We have had issues with feedback and interference with the newer digital hearing aids and ultrasonic or dual technology sensors used by our students and staff.

E. Renovation projects on buildings built prior to 1978 are exempt from the requirements of the Indiana Energy Code. In these buildings we prefer to use low voltage dimmable LED fixtures without sensors, especially in private offices.

F. BSU typically uses Leviton IP710-DL low voltage dimmers to control LED fixtures with 0-10V dimming capability where automatic shut-off is not required.

G. Where energy code requirements must be met, we prefer to operate in "vacancy mode" in most spaces. That is, lights are manually turned on and kept on by the motion sensors. Lights are automatically or manually turned off if no motion is sensed within a 30 minute period. Lights must be manually turned back on. In offices and small conference rooms a Lutron MS-Z101-V or equal wall mounted combination IR vacancy sensor and 0-10V dimmer switch is our preferred option with white being the preferred color. For corridors and bathrooms, ceiling mounted passive infrared occupancy sensors set on the highest sensitivity and longest time delay duration are preferred.

H. Any type of automatic lighting controls proposed by the consultant must be approved by BSU Engineering.

I. We require at least three (3) fixture manufacturers be listed with complete catalog numbers on the fixture schedule such that at least three (3) competing fixture packages can be bid. We work with all the major lighting vendors and encourage more than three be listed whenever possible. In the event there is a specialty fixture type desired or required by the University for a special application that fixture shall be excluded from the schedule and will be Owner furnished/Contractor installed, however, every effort will be made to avoid this situation.