

PART 1 GENERAL

1.01 Lighting design:

- A. Provide lighting calculations in iso-illuminance contours overlaid on floor plan or site plan, as appropriate.
- B. Provide energy calculations for lighting in a watt/square foot format.

1.02 Contact UAF Facilities Services for listing of minimum acceptable illumination levels. Base illumination level guidelines are in the latest edition of Illumination Engineering Society Lighting Handbook, unless otherwise directed. Note that illumination technology and standards are evolving rapidly. Discussion of these matters is encouraged.

1.03 Light level control:

- A. Preferred method of level control is by switching of lamps, luminaires, dual level ballasts, or dimming ballasts.
- B. Dimmers used when required for aesthetic or functional needs. Where a luminaire contains dimming and non-dimming lamps, have a label that reads: "Some lamps in fixture are controlled by dimmer".

1.04 Automatic control of lighting circuits for energy conservation for each new or modified lighting application.

- A. Occupancy sensors are required for interior lighting.
- B. Evaluate daylight harvesting in appropriate building areas.
- C. Exterior lighting controls:
 - 1. Control outdoor lighting circuits from a lighting contactor actuated by the DDC system. Contact UAF/FS DDC Facilities Engineers for standard detail.
 - 2. Evaluate motion sensors for multi-level control.
 - 3. UAF is planning to install new exterior lighting control system(s). Discuss compatibility issues with FS Engineers and Maintenance staff.
- D. Lighting systems in electrical rooms and mechanical rooms shall be manually controlled. Exceptions for mechanical rooms shall be considered on a case-by-case basis.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION