

## Lighting system design & controllability

EQc6.1 | Possible 1 point

### Intent

Provide a high level of lighting system control by individual occupants or by specific groups in multi-occupant spaces (i.e. classrooms or conference areas) to promote the productivity, comfort and well-being of building occupants.

### Requirements

#### **For administrative offices and other regularly occupied spaces**

Provide individual lighting controls for 90% (minimum) of the building occupants in workspaces to enable adjustments to suit individual task needs and preferences.

#### **AND**

#### **For classrooms and core learning spaces, with the exception of chemistry laboratories, art rooms, shops, music rooms, and dance/exercise studios:**

Provide a classroom lighting system that operates in two modes: general illumination and A/V.

- In general illumination mode, achieve an average illumination at the desk level of 35 to 50 footcandles with a minimum of 25 footcandles at any point more than 3 ft from any wall.
- In A/V mode, not including contribution from the teaching wall light, achieve an average illumination at the desk level of between 10 and 20 footcandles for any point in the room greater than 3 ft from the side walls, 10 ft from the front wall and 6 ft from the back wall, while limiting vertical illumination on the projection screen to no more than 7 footcandles at any point on the screen.