

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 *AV*.

- 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 *AV* 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.