Where a daylit space is served by side windows, light fixtures on the perimeter rows within 6m of the window must be separately switched on/off or dimmed. It is recommended to have a separate circuit for each 3m within the 6m band, wherein light fixtures within 3m from window could be switched off, as it would receive the maximum lux level. Light fixtures in the next 3m could be dimmable based on the required or set lux levels. However, this should be evaluated and designed by the project team, based on the size of windows in those spaces. Perimeter walls having no or few windows with inadequate daylight levels need not have separate circuit.

In an office (as shown fig. 502.06(1)) when light fixtures are turned off, the areas near the side window (Zone A) may have a daylighting level of over 400 lux on the working plane (WP), whereas the adjacent space (Zone B) may have less than 400 lux. As the light levels reduce below 400 lux on WP for spaces away from window (Zone B), electrical lighting is switched on / dimmed to meet the required lux level as indicated in fig. 502.06(2). Lighting switches can be controlled manually or automatically. By having individual controls for lighting, effective energy utilisation can be achieved.

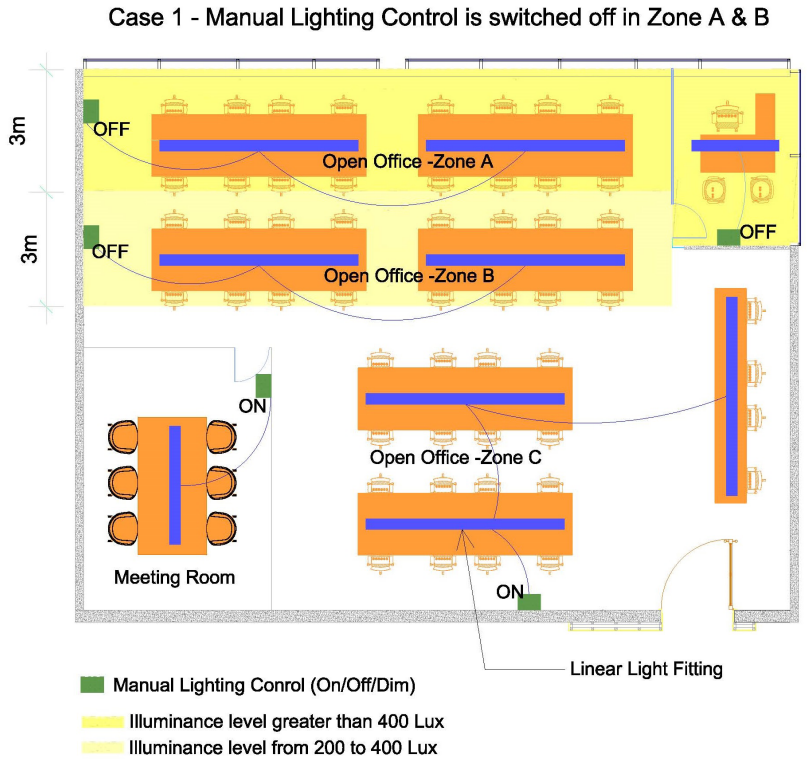

Fig. 502.06.(1): Lux Levels in Zone A and Zone B (Daylighting Only)