

## Part L Compliance For Non-Domestic Buildings 2010

Lighting in new and existing buildings

Lighting in new and existing building should meet the recommended minimum standards for efficiency (average over the whole area of the applicable type of space in the building)

### Display lighting

The average initial efficiency should not be less than 22 lamp lumens per circuit-watt.

### General lighting in other types of space

The average initial efficiency should not be less than 55 lamp lumens per circuit-watt.

### General lighting in office, industrial and storage areas

The average efficiency should not be less than 55 luminaire lumens per circuit-watt. In calculating the average luminaire lumens per circuit-watt, the circuit-watts for each luminaire may first be multiplied by the appropriate control factor as below.

Luminaire control factors for use in new and existing buildings	
Light output control	Control factor
a. The luminaire is in a daylit space and its output is controlled by a photoelectric switching or dimming control, with or without override.	0.9
b. The Luminaire is in a space that is likely to be unoccupied for a significant number of operating hours, and where a sensor switches off the lighting in the absence of occupants but switching on is done manually except where this would be unsafe.	0.9
c. Circumstances a. and b. combined.	0.85
d. None of the above.	1.0

Metering of lighting for new and existing buildings (to record the light energy consumption) should meet the minimum standards. The recommended minimum standards for metering of general and display lighting in new and existing buildings are as follows.

- kWh meters on dedicated lighting circuits in the electrical distribution; or
- Local power meter coupled to or integrated in the lighting controllers of a lighting or building management system; or
- Lighting management system that can calculate the consumed energy and make this information available to a building management system or in an exportable file format. (This could involve logging the hour's run and the dimming level, and relating this to the installed load.)

Lighting controls in new and existing buildings should meet the minimum standards as in the table below, or following the guidance in BRE Digest 498 Selecting lighting controls. Display lighting, where provided, should be controlled on dedicated circuits that can be switched off at times when people will not inspecting exhibits or merchandise or being entertained.

Recommended minimum controls for general and display lighting in new and existing buildings	
Space classification <sup>47</sup>	Control type
Owned	Manual by door
Shared	Flexible manual switching, e.g. local pull cords or wireless transmitter
Temporarily owned	Local manual switching*
Occasionally visited	Local manual switching*1.0
Unowned	Time switching
Managed	a. Time switching; or b. Centralised manual

47 The definitions are given in BRE information paper IP6/96 and BRE Digest 498.