

Building Regulations Part L

L1a Conservation of fuel and power in new buildings

6th April 2006

Lighting

29 In all cases the DER (dwelling emission rate) should be calculated using a fixed assumption of 30% low energy lighting.

This means low energy lighting provision is non- tradable. The minimum amount that should be provided is given in paragraph 43, but builders may wish to include a greater level of provision than detailed there.

Design Standards

43 Reasonable provision would be to provide in the areas affected by the building work, energy efficient light fittings that number not less than the greater of:

- a. one per 25sm of DWELLING floor area (excluding garages) or part thereof; or
- b. one per four light fittings.

A light fitting may contain one or more lamps.

44 Light fittings in less frequented areas like cupboards and other storage areas would not count. GIL 20-17 gives guidance on identifying suitable locations.

Fixed external lighting

Fixed external lighting here means lighting fixed to an external surface of the dwelling supplied from the dwelling occupier's electrical system. It excludes the lighting in common areas in blocks of flats and other access-way lighting provided communally.

45 A way of keeping within reasonable design limits would be to enable effective control and/or the use of efficient lamps such that:

- a. EITHER: Lamp capacity does not exceed 150W per light fitting and the lighting automatically switches off:
 - i. when there is enough daylight AND
 - ii. when it is not required at night
- b. OR: the lighting fittings have sockets that can only be used with lamps having an efficacy greater than 40 lumens per circuit watt.

Compact fluorescent lamps would meet the standard in (b). GLS tungsten lamps with bayonet cap or Edison screw bases, or tungsten halogen lamps would not.

Part L2

General lighting efficacy in office, industrial and storage areas in all building types

50 For the purpose of this Approved Document, office areas include those spaces that involve predominantly desk-based tasks, including classrooms seminar rooms and conference rooms, including those in schools.

51 Reasonable provision would be to provide lighting with an average initial efficacy of not less than 45 luminaire-lumens/circuit-Watt as average over the whole area of these types of space in buildings.