

4.3.10 Lighting

Health and safety at work is the priority criterion for lighting systems requirements. The energy of lighting systems can be optimised according to the specific use requirements, see Section 3.10.

28. BAT is to optimise artificial lighting systems by using the techniques such as those in Table 4.9 according to applicability (see Section 3.10):

Technique	Applicability
ANALYSIS and DESIGN OF LIGHTING REQUIREMENTS	
Identify illumination requirements in terms of both intensity and spectral content required for the intended task	All cases
Plan space and activities in order to optimise the use of natural light	Where this can be achieved by normal operational or maintenance rearrangements, consider in all cases. If structural changes, e.g. building work, is required, new or upgraded installations
Selection of fixtures and lamps according to specific requirements for the intended use	Cost benefit on lifetime basis
OPERATION, CONTROL, and MAINTENANCE	
Use of lighting management control systems including occupancy sensors, timers, etc.	All cases
Train building occupants to utilise lighting equipment in the most efficient manner	All cases

Table 4.9: Lighting system techniques to improve energy efficiency