



The importance of good quality lighting whilst saving energy

Energy Efficiency

For more than 100 years the lighting industry has been improving the energy efficiency of lighting products. With the adoption of LED technology and the use of lighting controls the energy efficiency of lighting systems is increasing even further.

Energy Efficiency or Well-being?

Whilst saving energy is very important for the environment, we should not forget the importance of addressing human comfort, well-being and task performance, via good quality lighting.

There are few if no mandatory requirements for the provision of minimum light quality and most that do exist are negative criteria, i.e. the absence of discomfort does not imply the presence of comfort. However there are an increasing number of mandatory energy efficiency requirements, creating a serious possibility that lighting will be dimmed or switched off. Creating dim or dark spaces will decrease safety, security and comfort in outdoor applications, and reduce productivity, performance, health and well-being within indoor spaces. This has to be unacceptable.

Energy Efficiency and Well-being!

Energy efficiency, safety, health and well-being of people are all of importance, and they can be achieved at the same time with the right regulation. The European CEN/TC169 organization has issued over many years a number of Application Norms with minimum recommendations for light quality for various applications, which already provide proper guidance.

LightingEurope position

The European application norms should be referenced in European legislation in order to safeguard the minimum light quality in each application whilst saving energy.

For list of relevant European EN Application Norms to be referenced in existing and future legislation, see Annex A.

Annex A:

List of relevant European EN Application Norms to be referenced in existing and future legislation.

Existing legislation

LightingEurope suggests in case of energy requirements for lighting systems in existing legislation (e.g. Ecodesign, Energy label and/or Energy Performance of Buildings Directive) there should be a reference to the relevant European EN Application Norms (indoor lighting application norms) as given below.

- EN 12464-1 Lighting of workplaces – part 1: indoor workplaces
- EN 1838 Emergency lighting
- EN 15193-1 Energy calculations for lighting

Future legislation

LightingEurope suggests in case of energy requirements for lighting systems in future legislation, e.g. based on ENER Lot 37 study on lighting systems, there should be a reference to the relevant European EN Application Norms (indoor and outdoor lighting application norms) as given below.

- EN 12464-1 Lighting of workplaces – part 1: indoor workplaces
- EN 12464-2 Lighting of workplaces – part 2: outdoor workplaces
- EN 1838 Emergency lighting
- EN 15193-1 Energy calculations for lighting
- EN 12193 Sports lighting
- EN 13201 Road lighting (part 1-5)
- EN 16276 Evacuation lighting in Road tunnels

LightingEurope is an industry association of 33 European lighting manufacturers, national associations, and companies producing materials. LightingEurope members represent over 1,000 European companies, a majority of which are SMEs; a total workforce of over 100,000 people in Europe; and an annual turnover estimated to exceed 20 billion euros. LightingEurope is dedicated to promoting efficient lighting practices for the benefit of the global environment, human comfort, and the health and safety of consumers.

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