

# Energy saving lamps (CFLs)

## Guidelines for Frontrunner Public Procurers



### What is Topten?

- Topten is a European web portal helping buyers to find **the most energy efficient products available in Europe**.
- The energy saving lamps displayed on [www.topten.eu](http://www.topten.eu) all meet the criteria contained in these guidelines. So procurers can ascertain that there is a sufficient range of products available on the market.
- On [www.topten.eu](http://www.topten.eu) you'll also find links to national topten sites of a large number of European countries.
- The European Commission's **GPP website** also contains valuable legal and practical guidance together with procurement criteria for a range of commonly procured products and services.

<b>Product group covered:</b>	Compact fluorescent lamps (CFLs, Energy saving lamps) with integrated control gear (ballast) operated on main voltage.
<b>Product availability:</b>	All products listed on <a href="http://www.topten.eu">www.topten.eu</a> meet the criteria listed below
<b>Potential energy savings:<sup>1</sup></b>	A 15W CFL's luminous flux (about 800 Lumen) corresponds to that of a 75W incandescent lamp. Compared to a conventional incandescent lamp, one single CFL leads to energy savings of 600 kWh in ten years.
<b>Potential cost savings:<sup>1</sup></b>	The energy savings mean a cost reduction of € 90 <sup>2</sup> in ten years for one single lamp. Additional costs are saved through the longer durability of CFLs: Topten CFLs have an average durability of over ten years, while conventional light bulbs have to be replaced each year.

<sup>1</sup> These represent rough figures comparing the best product currently available, with an inefficient model – see [www.topten.eu](http://www.topten.eu) for more details.

<sup>2</sup> Based on an electricity price of €0.15/kWh

## Procurement criteria – Updated: July 2011

The following criteria can be inserted directly into tendering documents. The specifications are updated continuously. The newest versions are always available at [www.topten.eu](http://www.topten.eu).

<b>Subject matter:</b>	<b>Purchase of compact fluorescent lamps ('Energy saving lamps')</b>
<p><b>Technical specifications:</b></p> <ol style="list-style-type: none"> <li>1. Energy efficiency label class: A</li> <li>2. Average lamp life: minimum 15 000 hours</li> <li>3. Minimum number of switching cycles: 75 000</li> <li>4. Colour rendering index: CRI ≥ 80</li> <li>5. Complete declaration, including: wattage, luminous flux, energy efficiency in accordance with , average lamp life, switching cycles, colour temperature, length and diameter and compliance with the RoHS Directive (2002/95/EC) and REACH Regulation (1907/2006).</li> </ol> <p><b>Verification:</b> Bidders must supply a declaration regarding their product's compliance with the above requirements, supported by technical data and results from tests carried out in accordance with EN 50285 or equivalent, or a relevant third-party certification/Type I eco-label attesting to compliance. Where compliance with these criteria is dependent upon defined usage patterns or other factors these must be clearly identified in the declaration.</p>	

### Notes on implementation

- The above technical specifications relate to CFLs only, and do not cover light emitting diodes (LEDs).
- To maximise savings and minimise environmental impact, contracting authorities should assess whole-life cost when purchasing lighting. This should take account of the usage pattern expected, average lamp life and disposal costs.
- Many design types which are suitable for replacing incandescent lights and which meet the above criteria are currently available, see [www.topten.eu](http://www.topten.eu) for details.
- Different types of energy efficient lighting may be suitable for outdoor use, areas with a high number of switching cycles or fixed luminaires. Public authorities who wish to develop tailored criteria for these situations are invited to contact the Procura+ team.

### Advice and support

If you would like further assistance in using the information presented here in your own procurement actions or more information on Topten Pro please contact the Procura+ team at:  
[procurement@iclei.org](mailto:procurement@iclei.org) +49 761 368 9244

An expression of interest form is also available on [www.topten.eu/pro](http://www.topten.eu/pro) for public authorities who would like support to apply these criteria in an upcoming procurement process.



### What is Procura+?

Procura+ is an initiative designed to help support public authorities in implementing Sustainable Procurement. The campaign is run by ICLEI – Local Governments for Sustainability, the Topten partner for public authorities. [www.procuraplus.org](http://www.procuraplus.org)