

# LEDs Tick all the Boxes at Aberdeen Airport

Airports are in operation 24/7 365 days a year, so lighting maintenance is a particular issue, if costly disruption and shut-downs are to be avoided. So when WSP Consulting Engineers came to specify new street lighting for the forecourt at Aberdeen Airport, to replace the existing 30-year old scheme, they had to find a fitting that was virtually maintenance-free. Good colour rendering and high uniformity were also crucial considerations -- poor quality light is unacceptable in sensitive locations where security staff require good visual recognition.

There is, of course, only one light source that can deliver all the benefits that the project team at Aberdeen Airport was looking for -- LEDs. Although the capital cost of LED fittings is still significantly higher than the alternative, the higher cost was easily justified. Other benefits of the LED lighting included a reduced mounting height. The 120W LED fittings from RUUD Lighting's Ledway range (supplied by GS Lighting in Alva) are mounted on 8m columns, compared with the conventional alternative, 250W discharge fittings on 10m columns.

In fact, Stuart Torpey, Environmental Compliance Manager for BAA Aberdeen is delighted with the new lighting. Based on a one-to-one comparison with the alternative scheme, the new lighting runs at 45% of the load, which will deliver 55% energy savings. The new lighting can also be dimmed to 50% output during periods of low passenger numbers, which could further reduce the energy consumption by around 15% (right hand photo below). Furthermore, the new lighting contains no harmful or hazardous materials to dispose of at end-of-life. And that end-of-life will be far in the future, as the light fittings have an expected lifespan of over 100,000 hours, which in the current installation will take them beyond the year 2040.

Most importantly, the lighting quality is superb, with good uniformity and almost perfect colour rendition. This improved quality of light makes staff feel safer and more secure -- and the security service reports that images are crisp and clear, and that that lighting produces no discernable glare -- a problem with the old scheme. (*Graham Struthers, managing director, GS Lighting*)

## Recolight Launches Schools 'Big Light Project'...

Recolight, the national recycling scheme for lighting manufacturers, has launched a schools education campaign, called the 'Big Light Project', to improve public understanding of the differences between compact fluorescent lamps (CFLs) and traditional incandescent light bulbs. A key message will be to communicate to the public why CFLs should be recycled rather than disposed of with domestic waste. The material was marketed to teachers in spring 2009 and has been available in classrooms since May. The project was initially piloted across 1,000 primary and 800 secondary schools in London and the South East, with a view to a national roll-out in future years.

The campaign is aimed at children aged 8-13 years -- and features a specially designed character -- 'Professor Bright, Expert in Light' -- to help bring the topic of light alive to children in a fun and engaging way. The programme is designed to assist Defra and local councils in increasing the amount of

recycled household waste -- as well as highlighting the special issues surrounding CFL bulbs.

**Teachers across London and the South-east are invited to sign up by visiting [www.rapportgroup.com](http://www.rapportgroup.com) + click on 'free resources' or by emailing [biglightproject@rapportgroup.com](mailto:biglightproject@rapportgroup.com)**

## ... While Lumicom Reports Big Rise in Luminaire Recycling

The quantity of luminaires being recycled in the UK has increased by over 200% between the second half of 2007 and the same period in 2008, according to luminaire recycling specialists, Lumicom. In the last six months of 2007, 34 tonnes were recycled and this had risen to 80 tonnes by the end of 2008. Lumicom Chief Executive Ernest Magog, says 'This rise is partly due to the increase in awareness of the need to recycle and the benefits of using accredited schemes -- and partly because our infrastructure is now making it much easier for people to consign their old luminaires to the appropriate waste stream.' **For more information go to [www.lumicom.co.uk](http://www.lumicom.co.uk)**



The Aberdeen airport forecourt at full illumination



... and dimmed to 50% during quiet periods