

Obelux Aviation Lights Are Marking The Tallest Building In European Union, The Shard In London

CASE STUDY

OBELUX
AVIATION LIGHTS**CEL**
AVIATION

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Figure 1.1 Obelux supplies medium-intensity LED aviation obstruction light to The Shard in London.

The Shard is over 300m skyscraper in Southwark, London, the tallest building in European Union. Our UK partner Contarnex Europe Ltd were chosen to supply aviation obstruction lights to the iconic tower.

Contarnex worked closely with the architect, the consultants, and the Civil Aviation Authority to specify the optimal obstruction light system concept for the building. "This required years of preparation and a thorough understanding of the current aviation safeguarding light regulations", explains **Paul Turpeinen** from **CEL**.

At 310m The Shard has 94 levels to the top of the spire, and has observation decks at levels 68 to 72 for the general public. One main feature with this building is that it is made fully in glass and it has been designed with an irregular triangular shape from the base to the top.

Furthermore, the aircraft warning lights are monitored from the central security room. "This provides the reliability and safety that is necessary for such a tall building located within flight and helicopter routings", says Paul Turpeinen.

Obelux medium-intensity red color lights mark the Shard

The Shard skyscraper is equipped with 18 medium-intensity red steady-burning obstruction lights at six intermediary levels. "Majority of the lights are providing 180° horizontal light output due to the strict requirements for the light distribution", explains Paul Turpeinen.

The lights are located behind the glass façade which makes them relatively easy to access for maintenance and inspection purposes. "It was our customer's requirement that there weren't any externally lights outside of the glass walls", says Paul Turpeinen.

All the lights are controlled and monitored by Obelux controllers and these are interfaced into the building management system.

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Obelux products were chosen for this project due their long and reliable lifetime. In addition, low power consumption, small and compact size and easy-to-install were seen as key advantages.

Obelux lights apply a very unique and state-of-the-art optical design which provides a sharp cutting-edge light beam to aviation traffic but also decreases efficiently the light pollution to the environment.

Obelux provides 5-year warranty - the longest in the industry – which is a strong indication for the high quality and long maintenance free lifetime products. “We are very proud to be a part of such unique landmark as The Shard in London and it is a great supplement to our extensive reference list”, says Kari Kilpiö.

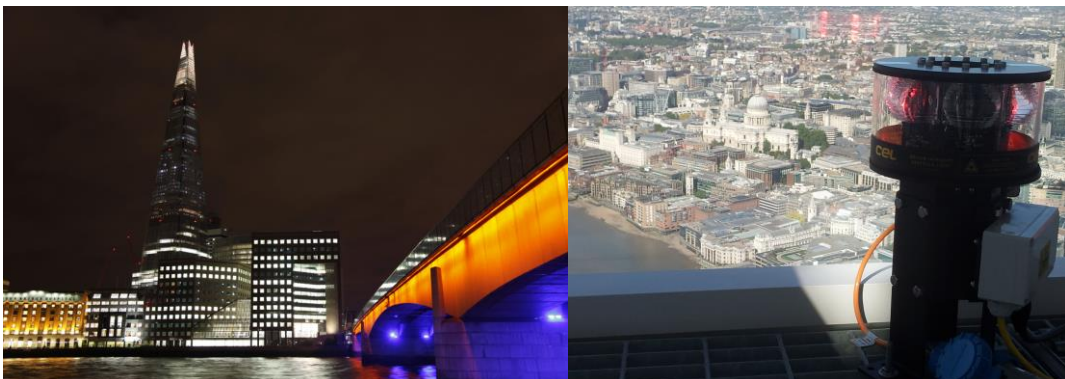


Figure 1.2 Obelux LED aviation obstruction lights save substantially energy and maintenance costs compared to traditional light sources.

CEL
AVIATION

Contarnex Europe Limited

Contarnex aviation also specialize in aerodrome frangibility for support structures located at runway critical areas, such as frangible lattice approach masts and poles, glide path towers and ILS support structures. These glass fibre structures are also used for lighting, weather masts, wind cones and perimeter and jet blast frangible fencing.

OBELUX
LED LIGHTING

Obelux Oy

Obelux Oy designs manufactures and sells ICAO and FAA compliant LED aviation obstruction lights. As one of the oldest companies in the world focusing only on LED technology, Obelux has built a reputation for high quality, reliability and low life-cycle costs.