

CASE STUDY

THE HAGUE SHAPED BY LIGHT





Light that becomes a natural part of the urban landscape



PROJECT SPECIFICATION:

- 13 500 LIORA family luminaires dedicated to the project

In The Hague, we delivered a public lighting project whose scale demanded not only a high-quality product, but also complete technical and aesthetic consistency. The investment covered 13,500 luminaires, so from the very beginning we focused on a solution that would operate reliably across the entire urban fabric, rather than only in individual locations. Our task was to design, implement and supply luminaires tailored to the diverse public spaces of The Hague. The key was to combine tender requirements with lighting quality, luminaire durability and a coherent appearance within the cityscape. In projects of this kind, it is not only the amount of light delivered that matters, but also the way it influences residents' comfort and the perception of the space as a whole. We designed the solution with reduced glare, clear traffic routes and a more ordered night-time cityscape in mind. At LUG, we approached this project as a comprehensive system implementation that supports the city's day-to-day operation as well as its long-term development. Carried out from December 2024 to 2027, the project demonstrates that modern urban lighting must combine engineering, urban planning and ease of maintenance.

The Hague lighting modernisation

CHALLENGES

The greatest challenge of the project was its scale and the need to maintain full quality consistency across thousands of lighting points. The city required a solution that would be visually coherent, yet technically flexible and ready to be applied in different types of urban space. It was also essential to meet rigorous tender requirements and prepare documentation confirming compliance with the project assumptions. An additional challenge was to reduce glare and ensure visual comfort for users of streets, pavements and other public zones. In practice, this meant an extremely precise selection of optics, lighting parameters and mounting variants.

SOLUTIONS

To address these needs, we implemented the LIORA family in several complementary variants. This allowed us to adapt the luminaires to specific installation conditions and the functions of individual spaces, while maintaining one coherent design language throughout the city. We prepared lighting calculations not only for the core project scope, but also for extended scenarios, which increased design certainty and facilitated decision-making on the investor's side. We also provided support with tender and FAT documentation, helping to structure both the implementation and acceptance process.





RESULTS

The outcome of the project is a coherent public lighting system for The Hague, designed with the city's long-term operation in mind. We achieved a combination of aesthetics, energy efficiency and high technical performance within a single luminaire family. The city gained a solution that organises space after dark, improves user comfort and supports safety in the everyday use of infrastructure. By applying several variants within one product family, it was possible to preserve a consistent character across the investment while adapting it to different local conditions. Another important result is easier system operation in the years ahead, resulting from luminaire durability and simplified servicing. For us at LUG, this project confirms that well-designed urban lighting can operate effectively on a very large scale while remaining clear and accessible to users.

LUMINAIRES IN THE PROJECT



LIORA PLUS



LIORA



LIORA version C



LIORA version P

LIORA draws on the legacy of modernism — the simplicity of Bauhaus and De Stijl forms — to create a coherent, functional and timeless urban luminaire. Every detail has been shaped by the principles of usability, aesthetics and design ethics. Made of low-carbon aluminium, equipped with tool-free access to components and fully recyclable, LIORA supports the principles of reduction, reuse and repair. Precision optics with a parabolic reflector and matt diffuser ensure uniform light distribution with low glare, enhancing the comfort and safety of urban space users. Thanks to its modular design, different mounting variants and integration with CMS systems, LIORA remains a flexible and future-ready solution — designed for cities that want to illuminate responsibly.



At LUG, we design solutions that organise light on the scale of the entire city — from concept and calculations to the implementation of a complete system.

www.luglightfactory.com

photo source: LUG Light Factory, AdobeStock

