

Waldmann **W**  
ENGINEER OF LIGHT.



# TWIN-C REPORT

ARCHITECTURAL

UP-TO-DATE INFORMATION ABOUT INTELLIGENT LIGHTING SOLUTIONS FROM WALDMANN | APRIL 08





# UNDER WHITE SAILS

## OPEN SPACE – LIGHTING CONCEPTS IN THE AMSTERDAM STOCK EXCHANGE



In the center of the city of Amsterdam, the “Beurs van Berlage” (Berlage Securities Exchange) is an imposing building that reflects the history of architecture of a unique, mercantile size.

Just across the street, at the Beursplein 5 address, is the securities exchange building, which was built in 1914 and is still used today. For more than 80 years, the large hall with the countless adjoining rooms has served the foreign currency and security traders well.

In 2000 the Amsterdam Stock Exchange merged with the Brussels and Paris exchanges to form Euronext NV, the first international securities and derivatives exchange.

The building was updated and remodeled for the demands of computerized trading.

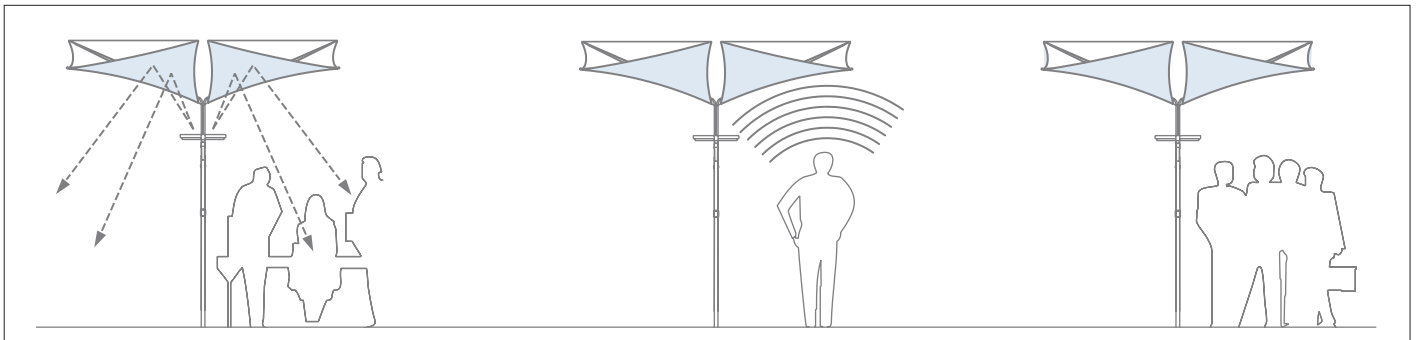
The question of what kind of illumination to use proved to be a problem. At a ceiling

height of 22 m, it was possible to use conventional lighting directly or even indirectly emitting lighting systems. At the same time, the customer insisted on high lighting comfort, especially at the computer workstations. At 6 - 9 monitors per workplace, employees are exposed to intense visual strain, which can quickly result in fatigue and difficulty in concentrating if improperly lit. These consequences had to be prevented because a lack of concentration produces errors. Errors in the fast-paced stock exchange business, however, quickly result in high financial consequences. For this reason, two-stage switchable Waldmann “TYCOON” desk mounted luminaires with the innovative RX1 reflection screens from STRUCTURELAB Architekten were installed for all workplaces as the ideal lighting solution. The illumination of the workplaces blends with the overall

design and achieves a dual purpose: The functional, individual visual tasks of each employee can be perfectly performed and building-specific requirements were covered. In this context, the principle of sustainability was defined as a decision criterion. In concrete terms, this means system thinking, i.e. the uncompromising minimization of energy consumption, while achieving exemplary lighting comfort at the same time. The option provided to each employee of being able to individually adjust two different lighting levels directly at the workstation was considered unique. The planners succeeded in merging alleged opposites into a homogeneous unit, which surprises and at the same time fascinates the viewer.



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**Architect:**

Alberts en van Huut, Dhr. Balieux,  
Carin Zuidberg

**Installer:**

GTI - Amsterdam

**Project management:**

SAEN Options, Amsterdam,  
Dhr. R van Put,  
Dhr. N. van den Hijligenberg,  
Dhr. M. Meuwesse

**Lighting systems:**

Waldmann NL

**Project members**

Erwin Bindervoet, Jeroen Wouters,  
Dietmar Heni,  
H. Van Geresteyn, C. Koolen,  
Eelco Nieuwenhuizen

**Reflection screen:**

STRUCTURELAB Architekten,  
Düsseldorf

**Office furniture systems:**

Pro Design B.V., NL

**Installed lighting components:**

Desk mounted luminaires TYCOON DYT 455/2  
Reflection screens STRUCTURELAB RX1

**In the adjoining offices:**

Free standing uplighters TYCOON DYS 455/P  
Pendant uplighters TYCOON DYP 235/D  
Pendant uplighters HYBRID DHPL 254-12/D  
Wall mounted luminaires TYCOON DYW 255/D  
Desk luminaires DIVA LED PTE 111

1 Beursplein 5. The Historic Building of the  
Amsterdam Securities Exchange.

2 The STRUCTURELAB RX1 reflection sail  
system, in conjunction with Waldmann's  
"TYCOON" indirect lighting, provides  
glare-free light with high illumination,  
clearly defined work areas with reduced  
glare, and a sense of security in the open  
space.

# TWIN-C – NEW ECONOMIC EFFICIENCY



TWIN-C is the combination of intelligent lighting solutions (Concepts) with compatible components (Components) – to provide proper lighting in the right location. The effects for the company are extraordinary:

## LIGHTING EFFICIENCY

### 1 ENERGY SAVINGS

- Rising energy costs, the Building Passport, and the Minergie standard compel a new way of thinking.
- In the future, proper lighting using little power will become an important factor to consider in the quality of a lighting system.

### 2 COST-EFFICIENCY

- Useful and purpose-oriented light planning.
- Focus on the visual task zone, not on the entire room.
- Consideration of individual user requirements.
- Use of daylight through daylight sensors.
- Use of presence detectors.
- Connection to modern building management systems (KNX/EIB).

## LIGHTING QUALITY

### 3 HEALTH

- Proper lighting lowers sick leave and absenteeism and ensures that non-wage labor costs decrease in the medium- to long-term.
- Optimized illumination of computer workstations.
- Consideration of age-related lighting needs.

### 4 PRODUCTIVITY

- Increased lighting comfort resulting in greater motivation and well-being, despite energy savings.
- Creating sophisticated surroundings through a harmonious environment, lighting mood, and lighting design.
- Optimization of performance through individual adjustability.
- Improved concentration through improved lighting quality.
- Influence on metabolic processes relevant to health and well-being.

## MORE ABOUT TWIN-C:



### TWIN-C brochure

Did you know that 40% of all building-related costs, in relation to the life cycle, are energy costs and that more than two thirds are attributed to lighting?

TWIN-C shows ways to lower energy costs and increase lighting comfort. To ensure that rising energy costs do not automatically result in higher expenses for your company, increased energy efficiency plays a crucial role. In the office, investing in proper lighting, however, means not only savings in day-to-day energy costs, but at the same time greater attention by the employees, less fatigue, improved concentration, and better performance.

Minimized energy consumption at maximized user comfort is the goal of a future-oriented lighting design. TWIN-C ensures an equitable consideration of these requirements. Request our brochure and learn more. We will show you how “the right lighting combination” of TWIN-C lighting concepts can increase your company’s success.

[www.waldmann.com](http://www.waldmann.com)