ILLUMINATE & ELEVATE. DESIGNING A LIGHT INSTALLATION FOR HOFBOGENPARK, ROTTERDAM

Rik de Vos Illuminate & Elevate: Designing a light installation for Hofbogenpark, Rotterdam 19-03-2025 Integrated Product Design

Committee

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At two kilometres long, the **Hofbogenpark** will be the **longest rooftop park** in the Netherlands and is part of the municipality of Rotterdam's seven urban greening projects. A **new icon** for the city that not only **connects** the various **neighbourhoods**, but also **contributes** to a **solution** for climate change.

When looking at biophilic architectural projects, like the Hofbogenpark, they are currently **dominated** by the use of **natural forms/materials**, **lighting** is often still very **artificial**. This situation presents an **opportunity** to create and research **new lighting strategies and products** that make (better) use of the biophilia principles to **improve** the **relationship/interaction** between **users well-being** and **energy management** in a restorative environment.

Plant and animal **diversity** is under **pressure** worldwide. Conservation and restoration of biodiversity are therefore essential and **cities** play an **important role** in this. All of the different **needs/wants** of the **stakeholders** (human/non-human) need to be **integrated** together in the context of this urban park. Therefore, this project lends itself perfectly to a **biophilic design approach**.

Illuminate and Elevate focuses on creating a **space** where urbanites/visitors can take a **break from the city** and can **reconnect with nature and each other**. It features **dichroic plexiglass canopies** that respond to the movement of the sun and reflect natural forms and light, and **turnable chairs** that provide a place to sit down and reconnect with other visitors.

The design **reinforces** the **natural phenomenon** of the **changing colours of the sun** due to its position in relation to the earth. In the mean time it **gives more colour** to the Hofbogenpark and city life.

