

Respondent Elements

nullohm

Videre-Lux



Concept

Videre-Lux

A system that is directly feed with computer generated graphics, video sources or micro-controllers for dynamic light.

Our task of creating interactive facades for architecture that are module based, resilient, thin and lightweight has also lead to the development of genuine production technique that we claim has solved many of the issues and concerns related to lifetime expectancy, maintenance regimes and costs related to using LEDs in the harsh outdoor environment. This technology now opens for full creative freedom in shapes, colors in combination with translucent materials for custom designed integration in architecture.

Its is not a high resolution system with its pixel CC of 50 mm, but its potential when it comes to light output is phenomenal.

The front page photo is from the luxurious Baselworld fair in Switzerland. Custom made for a modern architecture with diagonal facades covered in delicate black fabrics that contrasted the light and materials. The weave patterns of fabrics together with the grid of pure white LEDs created vibrant textures together with motion-graphics provided by Nullohm.

Contents

The uniqueness of the Videre-Lux is its flexibility when it comes to creative content in combination with format and shape of installations. Video graphics from computer applications or interactive systems based on sensory or net data are possible with code and embedded micro controllers. As with all digital medias the possibilities are so far reaching that a clear and well thought true concept is needed. Nullohm has developed evocative interactive experiences for architecture since 2006 so please contact us with your thoughts, ideas and wishes.



Artificial Auroa Polaris Light effect installation with RGB LedS

Implementation

Robust and resilient systems for interactive light, in full conduct of building regulations.

The envelope protecting the system from the environment may be built as several designs. The electronic modules them self are for outdoor usage protected from corrosion by an "off shore grade" coating.

Our system is constructed with the PCBs mounted on larger modules of aluminum/plastic sandwich with the best fire classification. The total thickness is 5 mm. In front it could be 20 mm spacing to tempered glass with a white opaque effect. This creates soft dots of light. Tempered glass thickness should be between 6-10 mm depending on the size of modules.

Extending the space between LED panels and glass to 30-40 cm gives mesmerizing soft clouds of light.

An alternative bright effect may be created by using black color on the modules, with semi mirror glass in front. Fabrics or acrylics may also be an option.

All of these suggestions demands a framework of some kind. Stainless steel, aluminum or simply bolts holding the front layer.

But the possibilities for architectural implementation are much wider. What about or the exclusive effect of Corian with its rich possibilities to combine light with 3D engravings?



A new revolutionary method of making large surfaces of embedded electronics and LEDs

Power-supply

Power-supplies may be cabinet installed if the location of the cabinet are close enough, or internally in the lights envelope (minimum thickness of 60 mm)

Durability

The LEDs life time expectancy of 50 000 hours may be divided on the actual time they are lit by the controllers. A non accurate calculation gives an expected lifetime of tens of years.

As a standard we offers a two year guarantee replacement of any factory errors in the products.

Durability of the power supplies.

By most producers limited to the guaranty time. We have installation running since 2006 with no problems. Access for maintenance of these should be easy, and could be performed by any certified electrician.

Energy consumption

5 volt DC current.

One square meter has a standby mode of 8.75 Watt
Full light, 120 Watt, equal to 2 incandescent bulbs.

LEDs

inGaN Pure White is standard color,
other colors or RGB may be considered used in a suited setting.

5050 SMD LED. 60 mA Pure White.
Luminous Intensity: 6 000 mcd
Viewing angle 120 deg



Nullohm

is designing projects world wide where the social dimension are in focus to create engagement in public areas, or works for the branding conscious commercial sector as fusions between architecture, design, and art.

Located in Norway a nation who has been described as having a strong fascination for light due to the dark winters with the Aurora and the summers midnight sun. Nullohm works as small multi-disciplinary network of craftsmen, coders, designers and architects. Creating small and large installations using custom made technology.

