

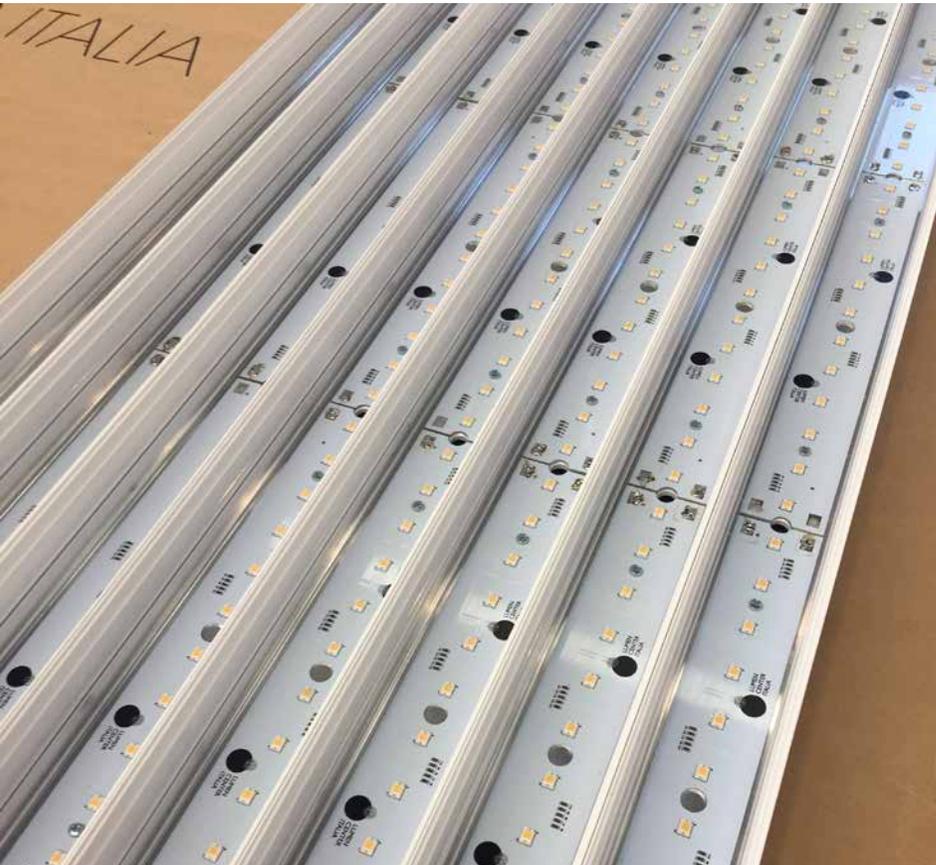
# LUMEN CENTER ITALIA

Light closer to Nature

LIGHTING CREATIVITY INNOVATION



LCI is design, technological innovation and “made in Italy” craftsmanship



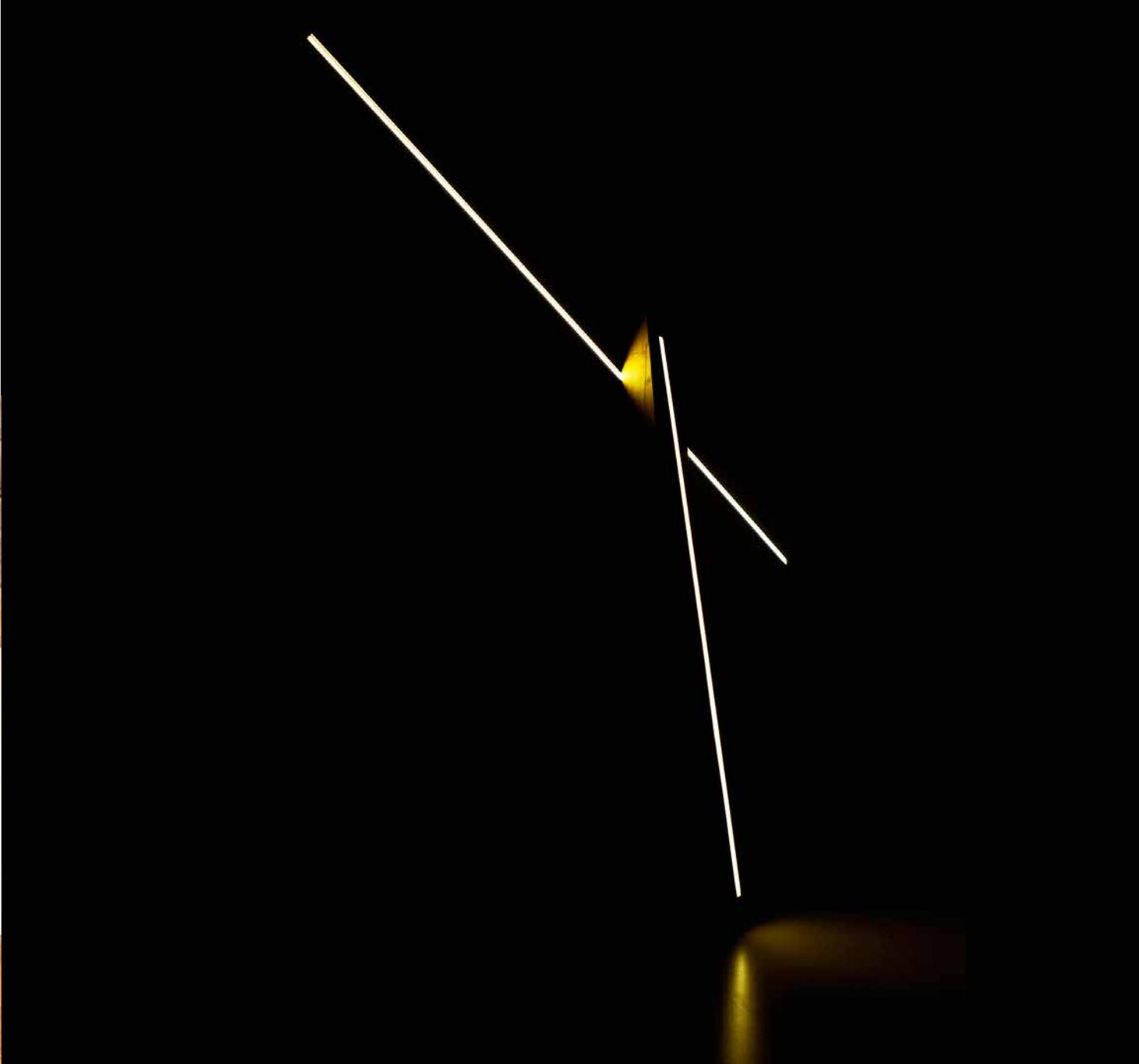


LCI 's design starts in 1929  
and continues today





LCI 's aesthetic is driven by simplicity, sustainability, focus on details and alignment with contemporary culture.





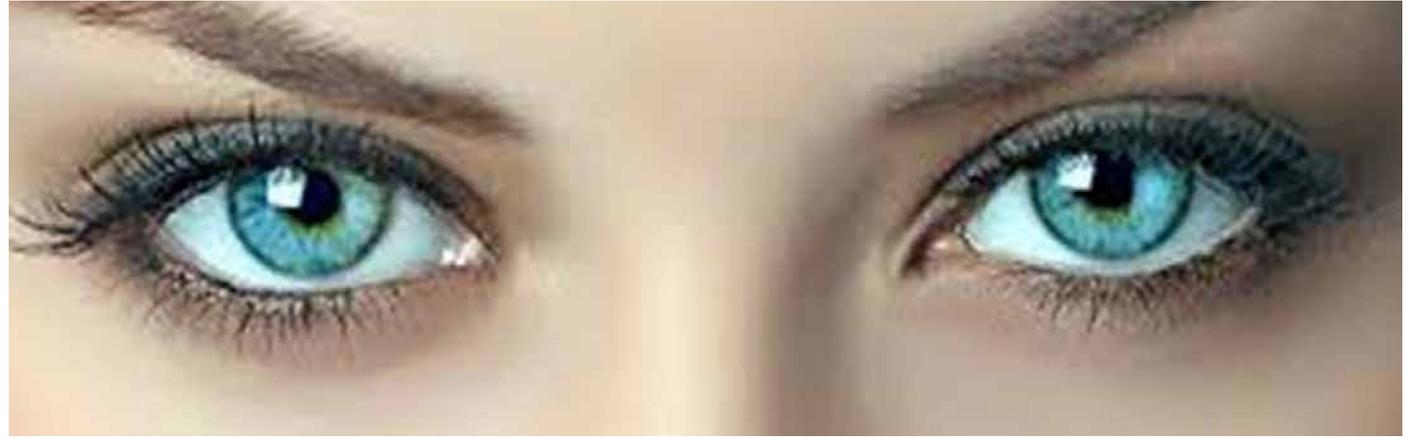
Our workshop and technical know how result in well engineered products and custom made solutions.



8 meters suspended LED lamp for the board room at the Ohbayashi building in Tokyo with anti seismic solutions and ad hoc treatment for Corten steel



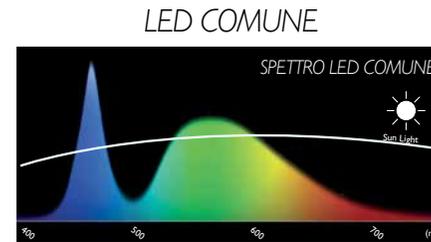
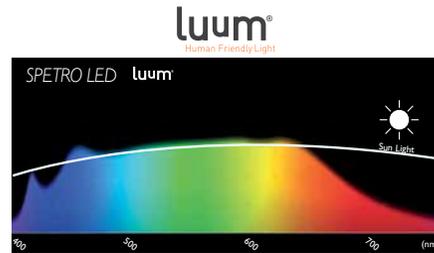
Technological innovation is driven by the search for top visual comfort and most recently by the perils of blue hazard



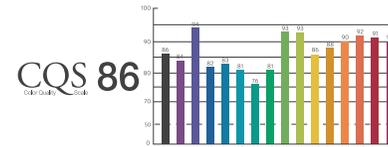
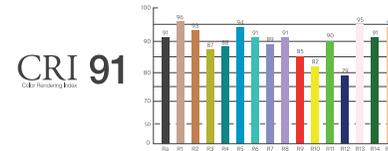
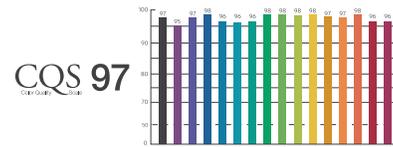
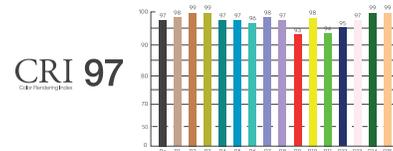
Blue light may cause permanent eye damage; may contribute to age-related macular degeneration. Disruptions to the circadian rhythm; Digital Eyestrain Syndrome: blurry vision, difficulty focusing, dry eyes, headaches, Greater risk of certain types of cancers, Greater risk of diabetes, heart disease and obesity.

Our **Luum**<sup>®</sup> LED respect and mirror the way sunlight controls our circadian rhythm also known as sleep/wake cycles as well as other biological processes.

The impact of **Luum**<sup>®</sup> on human health is being studied in collaboration with the Hospital **San Raffaele** in Milan. The research aims to verifying that the light produced by **Luum**<sup>®</sup> does not generate any harmful spectral radiation as the traditional LEDs.



Our custom made LEDs (**luum**<sup>®</sup>) are the closest to the sun light spectrum



Traditional LED technology with its peak on the blue part of the light spectrum is dangerous for human health.

A potential risk for a photo-chemically-induced retinal injury resulting from electromagnetic radiation exposure at wavelengths primarily between 400 and 450 nm



The blue peak in commonly used LEDs is also a risk for art masterpieces

*The LCI Luum<sup>®</sup> LED light sources guarantee maximum color rendering without damaging the works of art.*

*On the contrary, the light emitted by the low quality LEDs on the market have a degradative effect on the colors.*

*The damage to Van Gogh's painting is a clear evidence to this. The degradative action of light on the pigments of the colors of the paintings has long been known.*

*Prolonged exposure, especially to radiation of light on the wavelength of blue, typical of LEDs currently on the market, can irreparably damage the works. Exposed to blue light, the pigments of colors undergo the breaking of the bonds between the different chromophores at the molecular level, causing irreversible damage.*





Our **luum**® LEDs are safer and allow a better understanding of colours and details

With a **CRI** (Color Rendering Index) and **CQS** (Color Quality Scale) **>97** our luminaries resemble the colors of sun light.

*The true colors of the la Canestra di Frutta by Caravaggio have been revealed after a few centuries. Calculated mixtures of warm and cold light allow an incomparable exaltation of the chromatic values.*

*Luum*® luminaries emphasizes on the right the different tones of white, red, violet, green and blue together with the sharp contrast and black and white scale.

*Each detail comes to live for the full pleasure of the viewer.*

Caravaggio - La Canestra di Frutta 1599



Previous lighting



Lighting **luum**®

Caravaggio - La Canestra di Frutta 1599



Previous lighting



Lighting **luum**®



Our culture of light is being applied in many environments



Boats



Museums - Art Galleries



Luxury stores



Office spaces



Hospitality



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