

New Light with TRILUX LED

Overview - Benefits - Application Areas



TRILUX
NEW LIGHT.



The six most important advantages of LED



Attractive light

With LEDs, freedom of design is unlimited, because with LED luminaires any light colour is possible: fresh white, cosy white or dazzling colours.



Unimaginably elegant luminaires

The low construction height of LEDs enables luminaire designs unseen until now.



The most environmentally-friendly light of all time

LEDs enable the environmental burden to be reduced quite considerably: a long service life means less waste disposal, lower energy consumption means less CO₂ emissions and smaller luminaires reduce packaging and transport effort.



The six most important advantages of LED



Inexpensive light

Using LEDs saves money because they have low maintenance (service life > 50,000 hours) and consume less electricity; soon LEDs will be the most efficient of all light sources.



Flexible light

Our sun changes its light colour over time, and this will also be possible with LED, meaning you can replicate the sun, or simply darken for a presentation in a room.



Gentle light

Pictures, fabric and foodstuffs stay colourfast because LEDs, in contrast to other light sources, emit no UV rays.



Five criteria for a good LED luminaire

1 First class components:

the source of LED lamps is particularly decisive for quality and service life of the light

2 Quality of thermal dissipation:

LEDs create heat, and if this is not correctly dissipated, quality of light and service life go down. Only with good thermal dissipation (thermal management) the full quality of LED becomes apparent.

3 Perfect light direction:

only with precise light guidance can you fully use the potential of LED

4 Optimal use of energy:

LEDs are inexpensive in use, but LED luminaires with LED are not always energy efficient. Check the *lumens / watt* of a luminaire for its application before purchase to ensure optimal energy efficiency

5 Light stability and light colour:

make sure that planning considers that you get light stability over the service life as well as the correct light colour



Why is TRILUX really good with LED?



Experience: *expertise in detail*

A luminaire construction goes through a precise process, and every detail is optimised. On the basis of developing over 15,000 luminaires we have been working with LEDs for the last 10 years.



The best infrastructure: *precision on-site*

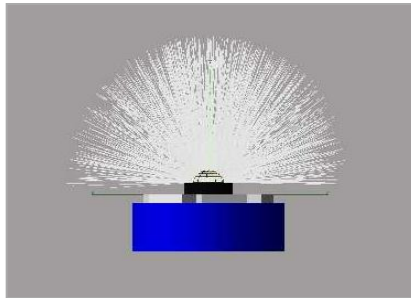
The TRILUX development facilities belong to the best in the world, comparable to a university, and include the largest Ulbricht sphere in Europe. Thermal management and all aspects of technical lighting are precisely simulated with computers.



The best components: *the inner values*

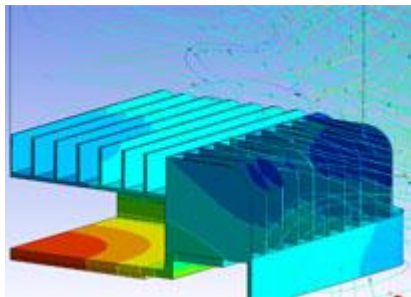
Only with a perfect interplay of all components LEDs are able to exert their full effect. TRILUX only integrates components with certified quality, inspected by us.

Why is TRILUX really good with LED?



Targeted light, at the right place at the right time

Trilux develops their own optical systems and combines these with suitable light control. And all carried out in-house: from perfect construction and simulation to manufacturing.



Getting a grip on service life: *industry-leading thermal and electric management*

LEDs only unfold their advantages when they work at the optimal operating point. The complete 'thermal chain' is optimised via detailed simulation and construction.



Precise transfer of knowledge: *in the front line of research*

Systematic growth of expertise and the networking of basis researchers, the best brains in the world in application research, public facilities and standardisation boards, among others with 3M, the Fraunhofer Institutes, and the Federal Ministry for Education and Research (BMBF)



Recommendations for LED applications

LED technology is mature in all application sectors today, but does not always make economic sense.

TRILUX recommends LED solutions for the following sectors:

Office

- workzone lighting
- Corridors
- lighting for prestigious, decorative areas

Industry

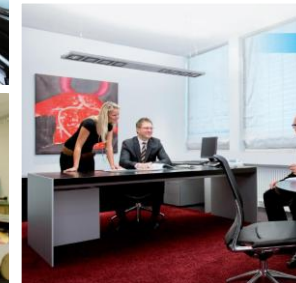
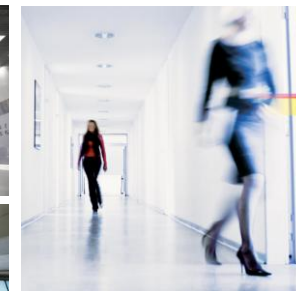
- Warehousing and manufacturing halls

Health

- OT lighting

Outdoor lighting

- Road lighting
- Path and town square lighting
- Building vicinity lighting



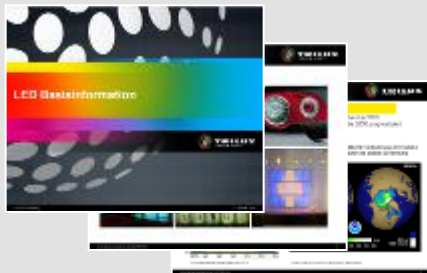
Have a consultation for your individual application area. We'll find the optimal solution for you.

How can we help you with the theme of LED?

The TRILUX LED service offer

LED technology

Information and training covering the benefits and properties of LED



LED solutions

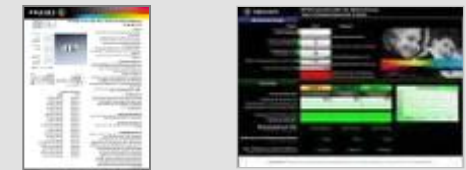
Information about LED solutions and products in the various application sectors



Project support

We are glad to support you with

- your planning
- cost-efficiency calculations
- LED tenders
- Proposals to your customers



We would be glad to hear how we could help you with LED.