

Company presentation

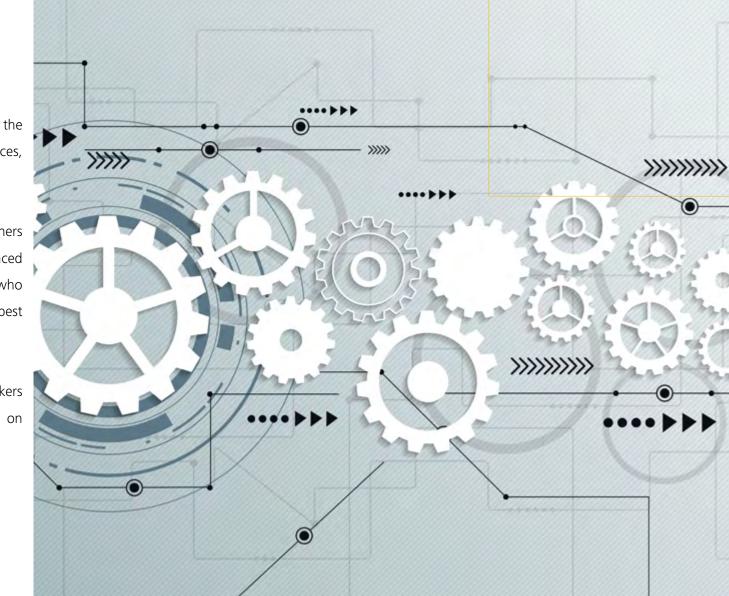
WHO WE ARE

WE OFFER ENGINEERING SERVICES. WE OFFER LABORATORY SERVICES. WE HAVE A UNIQUE PORTFOLIO OF DEVICES.

iLumTech is:

- A globally visible company specialising in the development of luminaires, electronic devices, and optical components.
- Comprised of an experienced team of designers and engineers with access to the most advanced technical and development equipment, and who cooperate at the highest levels to ensure the best outputs.
- ✤ Home to enthusiastic, driven, and creative thinkers with a sustainable approach and a focus on "innovation ahead".

WE ARE CREATING A NEW WORLD OF LIGHT.



OUR OFFER

EXPERIENCED ENGINEERS

Our engineers have experience in every field related to Thanks to our experience in the LED industry, all our develthe development of lighting devices and their parts.

PROFESSIONAL OUTPUTS

Technical documentation and measurement reports are Product development is a never-ending process. We will tification and entrance to serial production.

CONFIDENTIAL ATTITUDE

service.

FUTURE ORIENTED THINKING

opment and engineering is done with the future in mind.

CONTINUOUS SERVICES

professionally completed and compiled ready for CE cer- continue with you on this journey through product optimisations, updates, and customisations.

FULLY EQUIPPED R&D

We have a strict NDA approach to all our work. The con- We have some of the best-equipped optical, thermal, fidentiality of information about our cooperation and the electronic, and mechanical laboratories in Europe, and projects we work on together is an essential part of our can provide customers with an array of tests side-by-side with many other services.



LumTech

OUR SERVICES

INDUSTRIAL DESIGN

Our market research, product design, 2D/3D visualisation, The design of all mechanical parts in CATIA alongside competitive advantage, save time, and reduce costs.

OPTICAL DESIGN / PRODUCTION

reflectors.

THERMAL DESIGN

of all developed devices.

ELECTRONIC DESIGN

Hardware and software development, PCB design, and PRE-CERTIFICATION TESTS & MEASUREMENTS the production of electronic components.

MECHANICAL ENGINEERING

packaging design, and mock-up creation will give you a full technical support and creation of complete technical documentation.

RAPID PROTOTYPING

Comprehensive design of all types of optical system, and 3D printing, 3D milling, electronic prototyping, and the the development and manufacture of tailored lenses and creation of fully functional prototypes for evaluation and presentation.

FULL LUMINAIRE DEVELOPMENT

Thermal simulation and the evaluation and optimisation Full development of luminaires from concept to release of thermal solutions to ensure the long-term performance of the product to production, including arranging of certification and optional OEM support.

LABORATORY SERVICES &

Optical, thermal, electrical, electronic, and mechanical precertification tests and measurements for CE declaration, as well as a wide range of independent tests.



LumTech

Full luminaire development

From the beginning until the end – we support lighting manufacturers through the whole process:

- Concept development.
- **Engineering**.
- Prototyping.
- Tooling.
- Certification.
- Product launch.

After sales services:

- Generation updates.
- Customisation.
- OEM support.

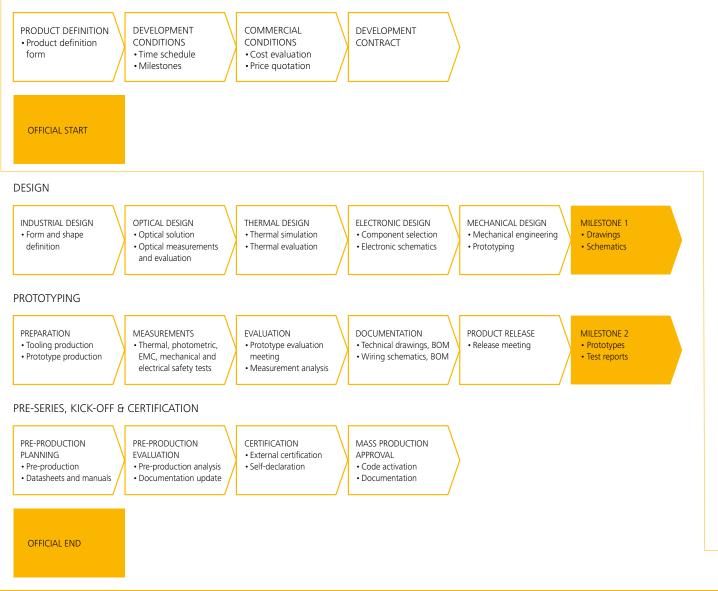


Development stages

Our comprehensive product development covers:

- Deep evaluation of customer requirements.
- Regular meetings and updates about progress and the development process.
- A flexible response to requested changes.
- Professionally compiled engineering and technical documentation.
- Full test and measurement reports.
- Experienced tooling production.
- Arrangement of certification and release to mass production.

PROJECT PREPARATION

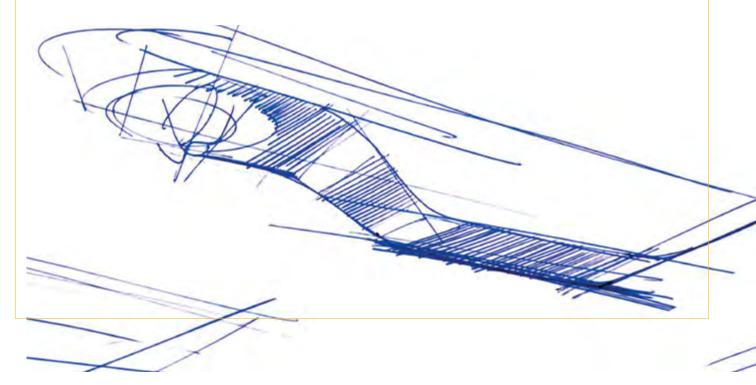


LumTech

Industrial design

Industrial design includes:

- Design research.
- Concept and product design.
- Mock-up creation.
- Product and corporate promotion.







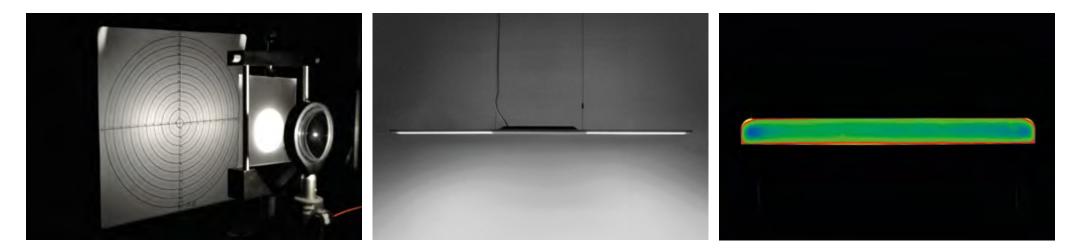


Optical design

Optical design includes:

- Optical system development.
- Reflector and parabolic louvre design.
- Refractor and diffuser design.
- Lighting design.
- Lens development, tooling, and optional OEM support.



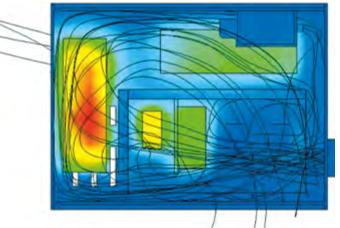


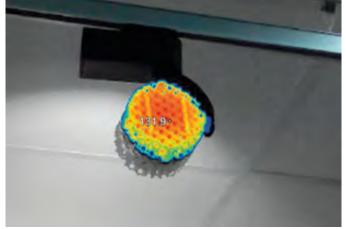
Thermal design

Thermal design includes:

- Thermomechanical simulation.
- **CFD** analysis.
- Thermography.







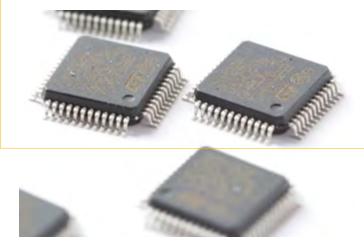


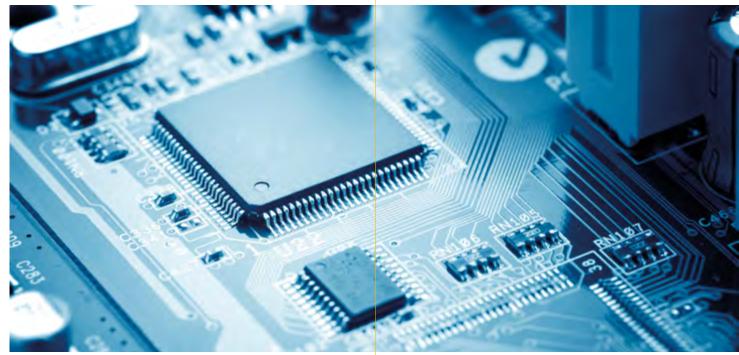
Company presentation | Our services | Thermal design

Electronic design

Electronic design includes:

- Hardware design.
- Firmware design.
- Software design.
- Labware design.
- Electronic design consultancy.









iLumTech

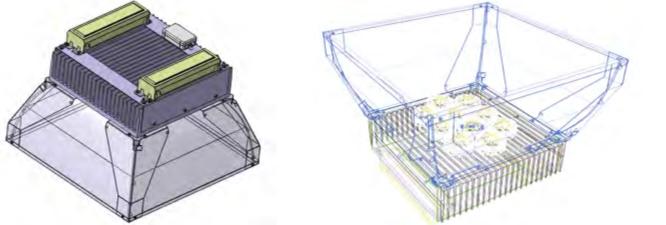
Mechanical engineering

Mechanical engineering includes:

- Sheet metal design.
- Aluminium die cast and extrusion design.
- Aluminium forging design.
- Mechanical analysis.



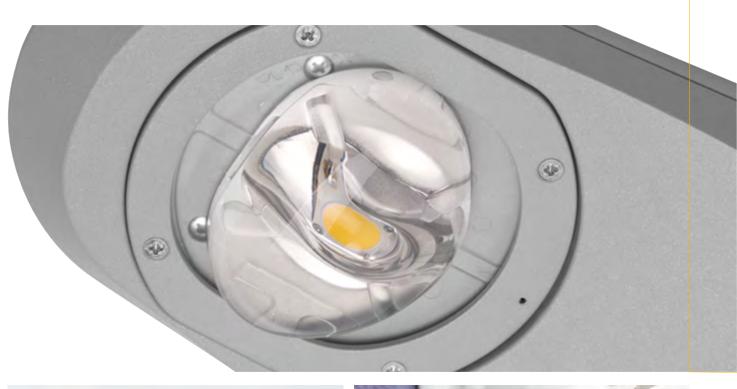


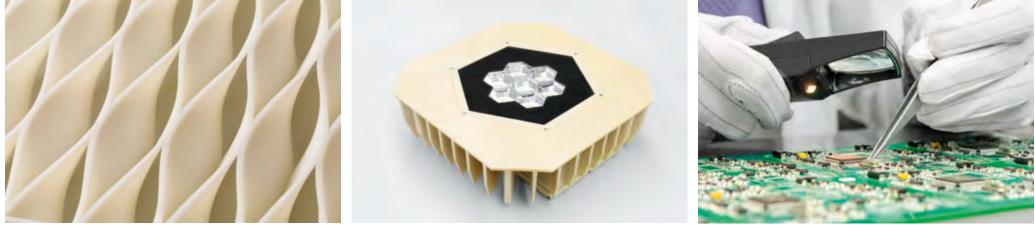


Rapid prototyping

Rapid prototyping includes:

- Functional prototyping.
- ✤ 3D printing and CNC milling.
- Electronic prototyping.





Laboratory services & pre-certification tests & measurements

We can perform:

- Optical tests and measurements.
- Thermal tests and measurements.
- Electrical and electronic tests and measurements.
- Mechanical tests abd measurements.







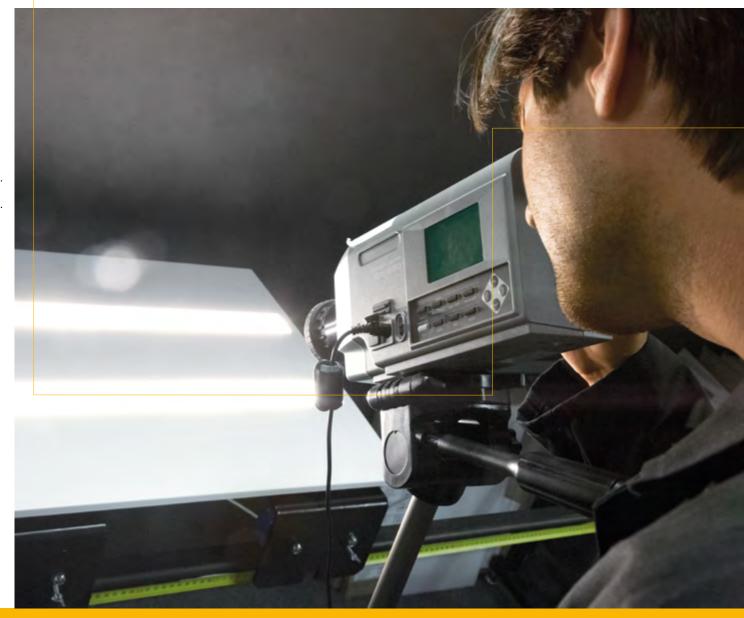


Company presentation | Our services | Laboratory services & pre-certification tests & measurements

Optical laboratory

Our optical laboratory can provide:

- Luminous intensity distribution curves.
- Ray data.
- Processing and archiving of LVK data.
- Luminance data of CRTs, LED and ELs .
- Road and tunnel brightness measurements.
- Rail system, road, and airport signal measurements.
- Humination equipment and signage measurements.
- Research and measurement testing.
- Device brightness and uniformity evaluation.
- RGB colour values according to the CMOS matrix.
- Luminous flux data.
- Spectral measurements.
- CCT and CRI qualification.
- X, Y, Z coordinates.
- Scatting measurements.
- 3D scanning of objects.

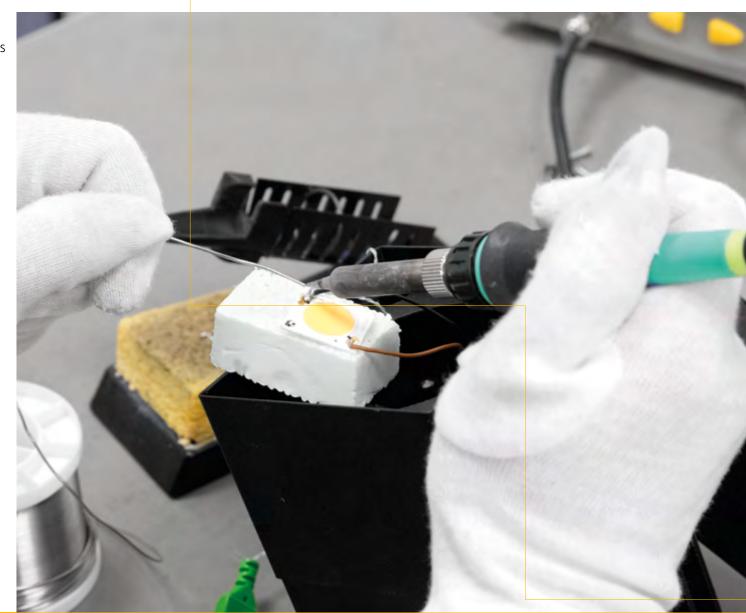




Thermal laboratory

Our thermal laboratory can provide:

- High- and low-temperature operating lifetimes tests.
- High- and low-temperature storage lifetime tests.
- Glow wire tests in °C.
- Temperature cycling.
- Power cycling.

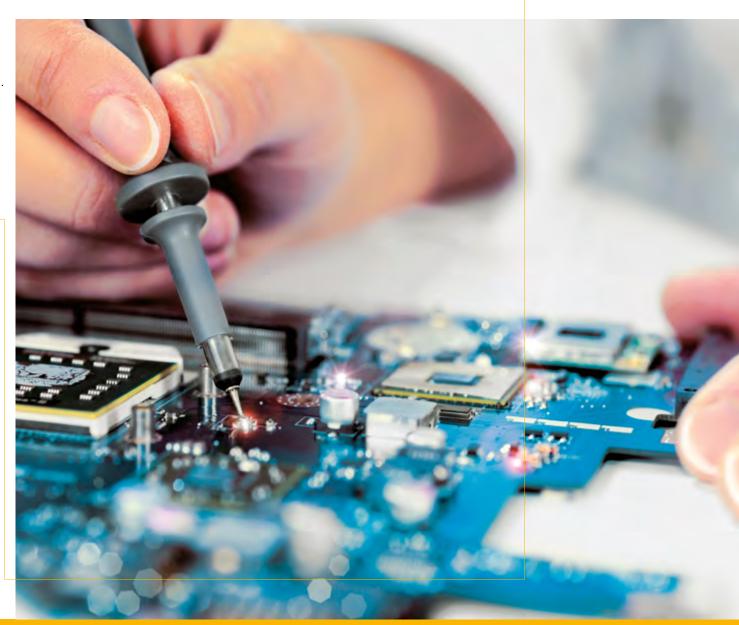


iLumTech

Electrical & electronic laboratory

Our electrical and electronic laboratory can provide:

- Long-term tests according to IEC 60598-1-12.
- Electrical safety tests according to IEC 60335/61010.
- EMC tests.
- DALI compatibility tests.



Mechanical laboratory

Our mechanical laboratory can provide:

- IP tests.
- IK tests.

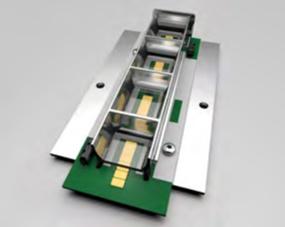


OUR PRODUCTS

We have developed a range of devices for the professional lighting market with the aim of being inimitable and simple to install for lighting manufacturers, installers, electrical engineers, and even end users. All of the devices were created by our own optical, thermal, and electronic engineers, and produced locally. We are sure you will be satisfied with their userfriendly and intelligent functionality, offered at an appealing price level.





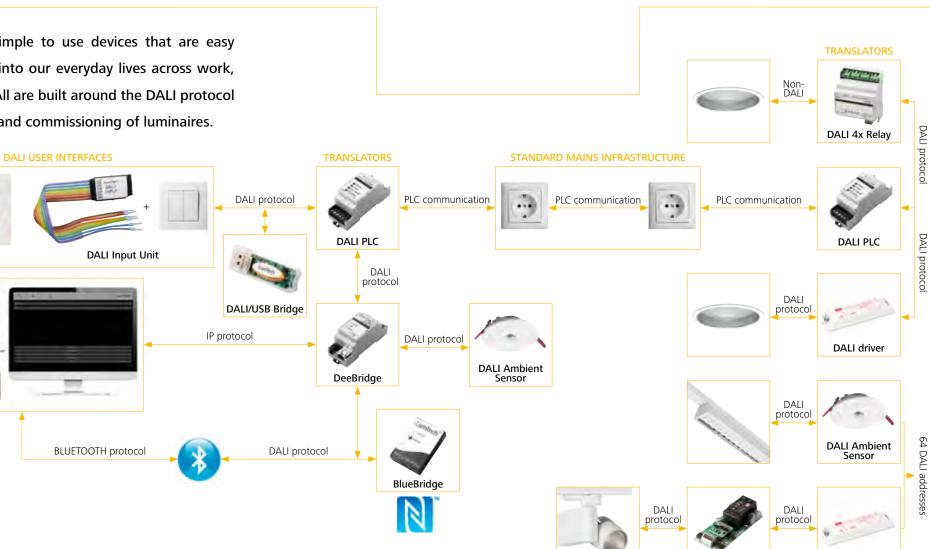




Connected Lighting

Practical and simple to use devices that are easy to incorporate into our everyday lives across work, rest, and play. All are built around the DALI protocol for the control and commissioning of luminaires.

DLS Touch Panel

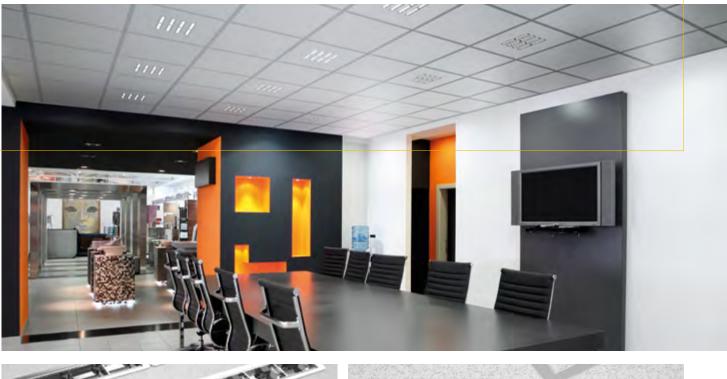


DALI driver

DALI TW module

LED Units

LED Units that offer the attractive feature of requiring no further development as everything is included in one module, making them an ideal choice for luminaire manufacturers and those seeking devices for bespoke solutions.









Optical Solutions

Our range of optical solutions includes complete lens systems, reflectors, and customisable diffusers in addition to tailored optical parts.

We also offer full lens development services that covers design, professional tooling, and optional OEM manufacture.





THE APPROACH YOU TRULY DESERVE

Our services and products are built around your needs and wishes. Everything else is just general guidance. Let us know what you need, how we can support you, and where you can utilise our capabilities. Feel free to contact us with any question and benefit from our fast responses, flexibility, and customer-oriented principles.

PROVIDING THE PERFECT SOLUTION IS NOT JUST OUR JOB. IT IS OUR PASSION.



Thanks for you attention

