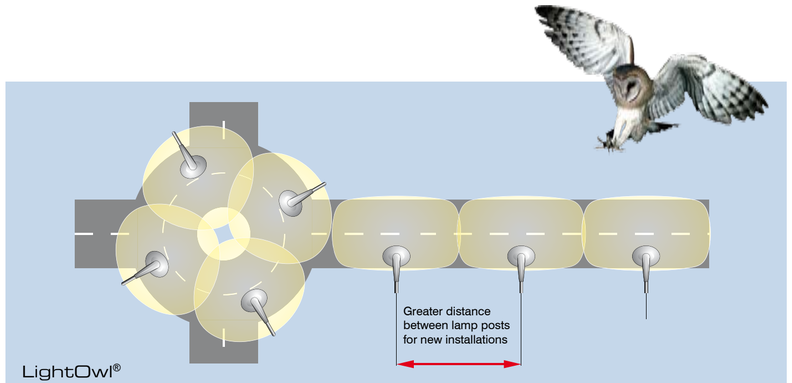

LightOwl®

The special layout of the IMS lighting module combined with top quality lenses makes unique control of the shape and position of the beams possible. You can then illuminate the precise area where the light makes you feel safe and secure.

Lighting technology that meets today's needs and those of the future

The desire at the outset was to create great safety and security by using little energy. The PowerLED technology put itself forward as an environmentally sustainable lighting system because it possessed unique energy efficiency. So then the idea was born. In the course of development and after countless discussions with useres, security experts and environmental organisations, the LightOwl® matured into a system by which all lighting tasks in public spaces can be fulfilled in a simple-to-assemble, environmentally-sound and aesthetically-pleasing manner. Check it out for yourself.

Your contact:

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LightOwl®

It's obvious

Lighting solution requirements for public spaces have changed enormously in recent times. Topics such as CO_2 emissions, energy efficiency, light pollution, colour fastness and possibilites of intelligent control are more important than ever.

The LightOwl® is never at a loss for an answer

A well thought through lighting system that is convincing due to its obvious facts:

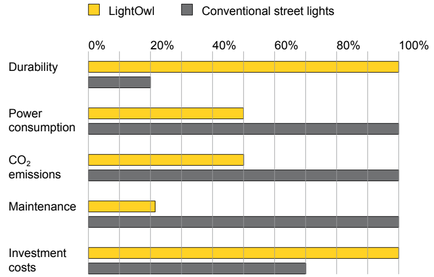
- ✓ Protective of the environment
- ✓ Safe and secure
- ✓ Energy-efficient
- ✓ Colour-fast
- ✓ Durable
- ✓ Cost-efficient and economical
- ✓ Cut costs and quickly pays for itself
- ✓ Convenient and easy to handle
- ✓ Flexible

Clever planning with LightOwl®

Your lighting project is a winner in every respect with LightOwl® . Power LEDs are convincing, wether compulsory or optional, in terms of consistent quality and economic efficiency.

We are professionals in dealing with the new generation uf lights, and, as your partner, will bring success to your lighting pojects.

Comparison with conventional street lights:



LightOwl®

PowerLED – eco-friendly lighting system

Efficient through the night

LightOwl®

PowerLED – The new generation of lights

Light instead of heat

Visible light is produced by conventional lights more as a by-product when heating up metal spirals. Their light is projected directly and indirectly onto the street. The clever LED technology cuts down on this. The power used acts as a catalyst for semi-conductor crystals to light up. All the energy hits the street as beams – efficiently and economically.

Straight to the point and powerful

LED technogoly has become established with the current PowerLEDs and is convincing with its incomparable lighting strength and pleasant, daylight-quality colours. The beams are directed towards the street and illuminate it in a targeted way. The sky and surrounding natural environment remain dark.

Low-maintenance and durable

A uniquely high light output is achieved by low current density, resulting in long serviceable life and massive savings on repair and maintenance expenses. The shape also emphasises these advantages. The design is symbolic, but low key and durable. So streets lined with houses give the appearance of being refurbished and their architecture optically improved.

Environment

- The energy-efficient LightOwl® has a light source with up to 95% useful efficiency.
- It provides an almost limitless capacity for switching with immediate, full light output.
- The CO_2 emissions, halved in comparison with conventional lights, make a substantial contribution to combating climate change.
- The IR and UV-free light protects the environment.
- With its own particular heat management system, the LightOwl® has a serviceable life around 50,000 hours of operation. PATENT PENDING.
- A community uses 10% of its energy on average for lighting purposes. A major step can be taken towards acquiring “Energy City” status by using the LightOwl® .

Energiestadt
european energy award

Safety and Security

- Authentic daylight makes colours more clearly distinguishable and thus provides safety and security for night-time road traffic.
- The structure of the LightOwl® protects it from vandalism and accidental damage, thereby preventing loss of light.
- Its simple, fast and safe assembly is convincing.
- The LightOwl® fulfils the EU Directives, is RoHS compliant and can be disposed of in an environmentally-friendly manner after a long life.

ENERGY STAR
RoHS 2002/95/EC

Solve your lighting tasks with an eye to the future!

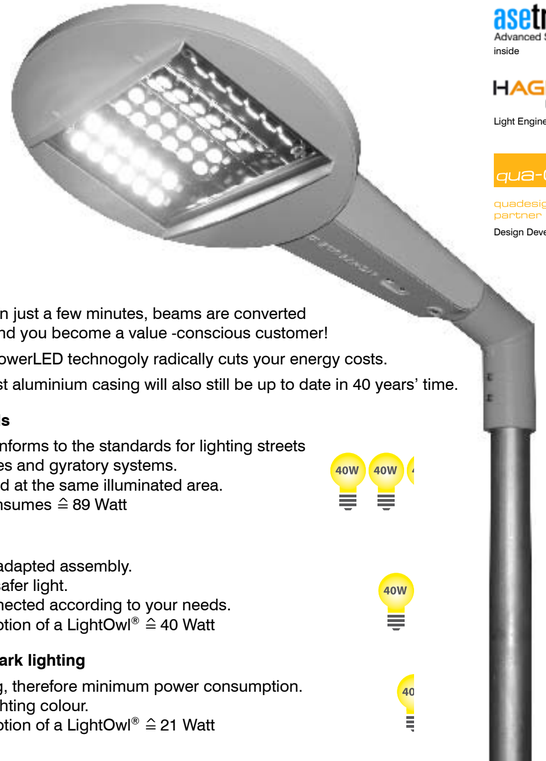
The modular structure of the LightOwl® takes your needs into account and will solve your lighting tasks with the most economical assembly available at the time. The IMS Insulated Metal Substrate lighting elements have an extra savings potential because it is possible to achieve the same area of illumination with half the light output. The LightOwl® and all supported elements are designed to be durable. The fact that we develop an produce entirely in Switzerland guarantees you problem-free operation.

Technology/Serviceable Life

Since the miniaturisation of component assemblies has an important role in semiconductor technology and at the same time further increases power density, conventional base materials are no longer sufficient. In this context, the focus is once again on the subject of heat management for electronic semiconductor components such as Power LEDs and is the key to durable, robust design.

The patented system, on which the LightOwl®/LightBird® are based, ensures heat is dissipated from component assemblies. Series of measurements intrinsically account for this. Degradation and light loss are not an issue for the LightOwl®. It provides durable service of at least 50,000 hours.

We guarantee continuity with the inter-disciplinary collaboration of our partners. The integration of profitable technological advances is already in progress today.



asetronics
Advanced Swiss Electronics inside

HAGIL EDLES LICHT
Light Engineering + Planning

qua-d
quadesign partner ag
Design Development

Costs

- Plug and Play; in just a few minutes, beams are converted to LightOwls® and you become a value -conscious customer!
- Investment in PowerLED technogoly radically cuts your energy costs.
- The durable cast aluminium casing will also still be up to date in 40 years’ time.

Municipal roads

- Lighting that conforms to the standards for lighting streets lined with houses and gyratory systems.
- 50% current feed at the same illuminated area. A LightOwl® consumes ≙ 89 Watt

Side streets

- LightOwl® with adapted assembly.
- Lower-energy, safer light.
- Lamp post connected according to your needs. Power consumption of a LightOwl® ≙ 40 Watt

Footpath/car park lighting

- Discreet lighting, therefore minimum power consumption.
- Atmospheric lighting colour. Power consumption of a LightOwl® ≙ 21 Watt

LightBird®

The efficient solution for an indoor environment

Energy awareness encompasses every lighting problem

A lot of light is needed, not just in an outdoor environment. 600 lux is recommended in the workplace to sustain performance.

The LightBird® responds to this need with a high light output and even distribution of light. It provides improved visibility and therefore greater efficiency in the office, workshop and sports hall. Shockresistant and with incomparable durability, it relieves you from constantly having to change bulbs. A relief that is particularly relevant in rooms with high ceilings.

Office Lighting

- 600 lux in the workplace.
- Increased productivity and motivation.
- Fewer mistakes according to the University of Surrey.
- Daylight in enclosed rooms.

Sports Halls

- Shock-resistant.
- Low-maintenance.
- Improved visibility and authentic colours.

Workshops

- No components that are exposed to wear and tear.
- Savings on energy and maintenance.