



A new logo was required to signify lighting that met the requirements for LEC-Compliant products (– luminaires/ area lights) and services which must meet the demands of the LEC Prime Principle:

*Light only what needs to be lit only when it needs to be lit with the most efficient light source of appropriate intensity and colour without creating direct light trespass on neighboring properties and the night sky. Keep your light to yourself!*

A new logo has been created to identify those products and services which are compliant with the lighting demands of communities concerned about the wastefulness of current luminaires and the numerous health and environmental problems associated with blue light, light waste, trespass, pollution and glare.

The identification of products/services which could fulfill the needs expressed by the Prime Principle was of prime concern in the development of Light-Efficient Communities. Now, new, appropriate products and service are appearing in the market to meet these concerns.

LEC.Com was concerned that the new products/services have a specific, unique logo to identify its extraordinary features and indicate its acceptability to LEC/Green communities.

The copyrighted logo was designed to illustrate

- a white star pattern to indicate light being emitted by community sources.
- spears indicating forces working together to keep light in its place.
- a white ring indicating that appropriate lighting has set boundaries and it is being held to those boundaries of space and time.

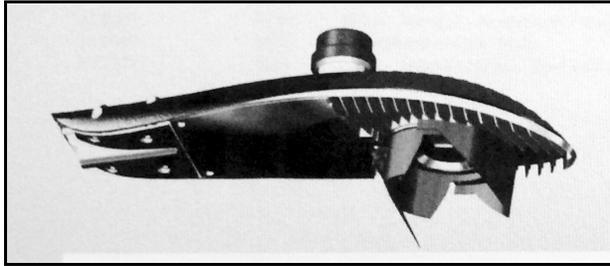
- the designation: LEC-Compliant (for products or services)
- the source, Light-EfficientCommunities. Com.
- the contrast between light and dark (white background and navy blue lettering).

The LEC-Compliant logo now takes its place among other well-known logos which proclaim acceptance and quality.

**Example: A New Generation , the LEC-Compliant Luminaire**

Of vital concern since the inception of LEC’s has been the lack of availability of luminaires of appropriate design.

In 2016, based on international conferences and discussions about the serious problems associated with street lighting, LEC.Com took the concerns of consultants, engineers, scientists, advocates, medical specialists, activists, etc. and created a conceptual design with the best possible specifications for the healthiest, most environmentally–friendly, most efficient and effective streetlight possible. The new specifications are available in the the publication “HO – LEC-compliant Street Area Lighting” found on LEC.Com.



Lumicana – a new, high-tech, innovative street/area light meeting the stringent expectations of a LEC.

*Lumicana, a revolutionary street and area lighting luminaire, will be the first to carry the LEC-Compliant logo. It will address the many important concerns about street and area lighting determined by LEC.com and its associates around the world. It will dramatically reduce/eliminate glare, light waste, trespass, pollution and blue light. Lumicana will put light of sufficient intensity and 2200K color only where it is required, only when required.*

**Contact:** [www.Lumican.com](http://www.Lumican.com)

In early 2017, Lumican, a luminaire manufacturing company based in Edmonton, Alberta, agreed that they could meet the desired specifications and undertook the physical design and creation of such a product.

Lumican then collaborated with LEC.COM and international associates through 2017/18 to create **Lumicana**, the first LEC-Compliant luminaire to meet the LEC specifications and use the LEC-Compliant logo.

During 2018, the design, refinements and modeling continued until September when all issues were resolved and Lumicana came into existence – a sleek, high-tech, innovative product ready to take on the world.

**The Specifications:**

- meet all regular streetlighting specifications
- have all engineering approvals, including IDA
- direct light from the LED and lenses must not be visible beyond the base of the adjacent light poles
- the colour temperature of the LED must be low - warm white (preferably 2200 Kelvin)
- have minimum blue colour in the spectrum
- the luminaire must be appropriately shielded to only place light where required - on the street and sidewalks and 1 meter into the yard for safety (as per the Prime Principle)

- glare, light waste, light trespass and light pollution to be eliminated or minimized
- emphasis on efficiency in power consumption (using a LED light source)
- use of sensor/computer controls

**Lumicana** is a new generation LED-based lighting system meeting recommendations by international experts to support a better and healthier night environment for people, flora and fauna.

The LEC-Compliant logo represents the best in solutions for those people, organizations and governments who want to dramatically improve the night environment, an environment that has become polluted with waste light, glare and trespass from luminaires that have been badly designed.

It also means an expectation that the goods or services carrying this logo will be satisfied with lighting that meets identified needs while reducing costs and making for a better living and/or working environment. The LEC-Compliant logo stands for meeting concerns about quality of life and what that means in terms of the night environment.

For more information go to:  
[www.Light-EfficientCommunities.com](http://www.Light-EfficientCommunities.com)