

**essex inc.**

## ILLUMILUX LED LIGHTING

### Undercarriage and Needle Bar Illumination

The Essex design concept for Tufting machine Undercarriage and Needle Bar Illumination consists of LED Light Strips, ranging in any length of 12" increments.



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Until recently, LED's were too expensive to use in normal lighting applications, but over the past decade the price has plummeted, making LED's a more cost effective lighting option.

## Product Information

### DISADVANTAGES OF FLUORESCENT

- Unfocused illumination
- High energy consumption
- Inefficient power usage to produce light
- Short operational life of between 1000 to 5000 hours
- Made of thin, fragile glass
- Glass tube and ballast are considered hazardous materials and disposal of both are regulated by the EPA
- Safety considerations—high voltage at 110VAC can cause harm to humans; if shattered the glass shards are sharp and dangerous

### ADVANTAGES OF LED

- Focused illumination
- Highly efficient energy consumption
- Long life span at 50,000 hours
- Extremely durable—bulbs are made of plastic and are virtually indestructible
- Zero hazardous material
- No human safety concerns
- Extremely efficient with solar powered energy systems
- Small enough to fit almost anywhere
- Modules in customized sizes

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