

## IDEC Lumifa LED light strips: A brighter, more efficient light source

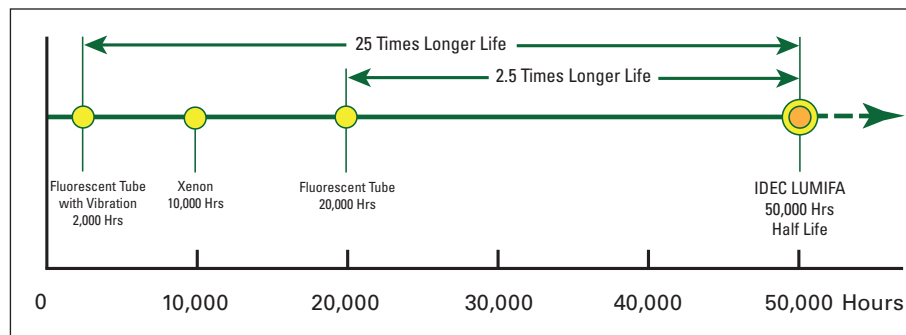
Traditional light sources, such as incandescent and fluorescent bulbs, contain mercury or other toxic substances, have a short lifespan, drain energy and generate waste in the form of carbon dioxide. Focusing on its customers and thinking of the environment, IDEC wanted to create an environmentally-friendly and more efficient lighting alternative in the form of industrial LED lights.

In 2008, IDEC Corporation completed the construction of an eco-friendly sales office building in Japan, the first of its kind. The new building is lit entirely with LED light units; positively affecting greenhouse gas by reducing energy consumption and carbon dioxide emissions. Equipped with 11,000 LED devices and 250,000 LED chips, all manufactured by IDEC, these units light up the entire building interior, the parking lot and the garden. IDEC LED light units are not only bright, but they improve the environment through a 41% reduction in CO<sub>2</sub> gases. They also reduce

the amount of waste the building produces since these LED light units have a lifespan 5-6 times longer than fluorescent lamps, as well as being Mercury free.

In an effort to continue improving LED choices within the industrial environment after this building was finished, IDEC engineers recently designed new LF1A, LF1B and LF1D LED light strips.

- **Bright:** 65.3 Lumens/Watt (LUMIFA Series average)
- **Long Lasting:** 70% of Initial Luminance at 50,000 Hrs
- **Efficient:** 1/3 the energy of Fluorescent Tubes
- **Compact:** Width as narrow as 27.5mm
- **Safe:** RoHS Compliant, IP67f degree of protection
- **Variety of Colors:** Cool White, Warm White, Red, and Yellow



### LF1A and LF1B light strips

Maintaining 70% of their initial luminance at 40,000 hours and only using one-third the energy of fluorescent lights, LF1A and LF1B light strips are the smart way to save time and energy.

LF1B series of miniature LED light strips are housed in a thin light strip, and are available in four sizes with a choice of two covers (clear or white). These LED light strips are IP54 rated to provide protection from dust, as well as from water.

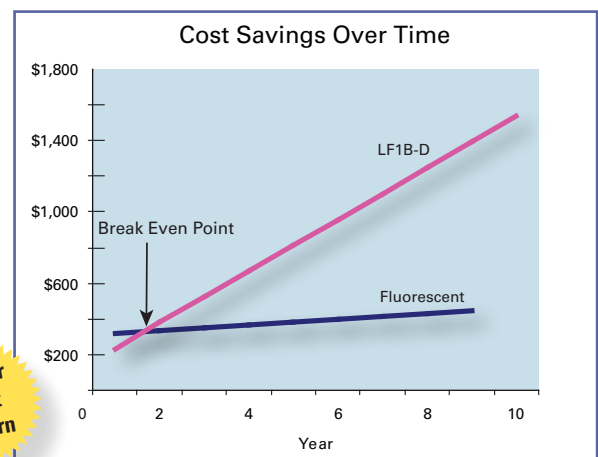
LF1A series of LED light strips use super-bright multi-chip LEDs providing illumination equivalent to a fluorescent lamp, while consuming only one

third the power. They come in three sizes with four color configurations (warm white, cool white, yellow and red). These LED light strips are also IP40 rated for protection.

LF1A and LF1B LED light strips are a competitive replacement for fluorescent lighting used in industrial control cabinets. Upgrade your current fluorescent system with IDEC LED light strips and get a long-term solution for your investment. In fact, you will start to see cost savings in just two years!



LF1B Series



## LF1D LED light strips shine with unmatched brightness at 67.2 Lumens/Watt!

Compact LF1D LED light strips are the brightest in their class:

- Wide: 67.2 Lumens/Watt
- Slim: 66.6 Lumens/Watt

The reinforced glass models also bring to the table an impressive IP67 degree of protection against water, dust and oil. A polycarbonate plastic cover is also available (IP67 degree of protection), perfect for anyone involved with food processing applications.

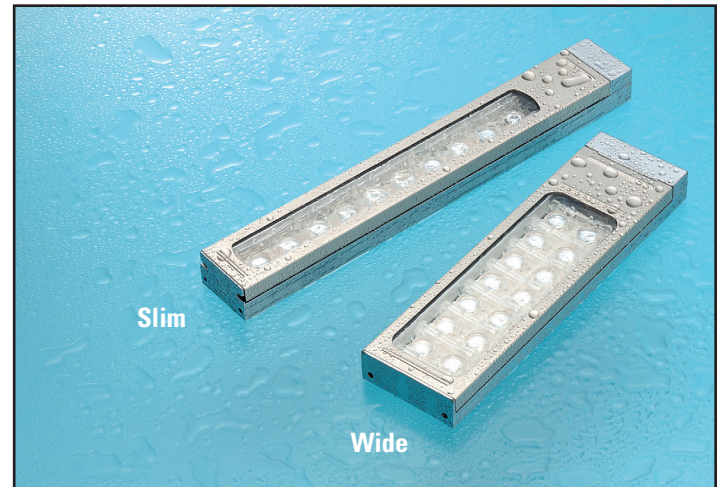
And that's not all, the LF1D Series retains 70% of its initial illuminance at 50,000 hrs.

LF1D Series light strips are Cool White (Temp: 5700K) and offered in a slim (10 x 1 LED array) or wide type (7 x 2 LED array) with 24V DC voltage.

Manufactured with a sturdy die-cast aluminum housing and stainless steel front cover, LF1D light strips are also RoHS compliant, mercury-free and UL listed.

Two cable options are available. Side connection (as shown below) and Back connection.

Plus removable direct plug-in terminal block and spring clamp connections ensure a high-quality connection, making it easy to install or replace the LED illumination unit.



LF1D Series

### Applications:

- Machine Tool Manufacturing
- Control Panel Lighting
- Printing Machines
- Food Processing Equipment
- Semiconductor Manufacturing
- Food Display Lighting
- Retail Store Displays

