

## Optical Fiber / LED Illuminator Installation Guide

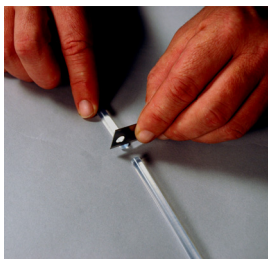
Please read and understand these instructions before installing the Lumenyte Fiber Optic / LED Illuminator systems. How these items are installed will greatly affect the overall performance of the entire system.

### Installation Tips:

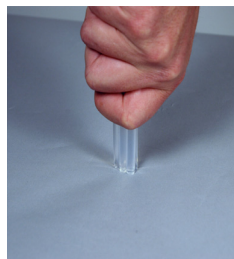
- Always cut the Lumenyte optical fiber with a “good” single edge razor blade or a Lumenyte optical fiber cutter (See Picture A). If you are using a single edge razor blade, replace it often to ensure that you have a very clean and sharp edge. If you are using a Lumenyte cutter, polish or replace the blade often.
- After cutting the optical fiber ends, avoid touching the ends of the fiber. Oils from your finger tips or other contamination could alter the fiber surface and inhibit light input or even cause charring of the end of the fiber.
- To maximize the evenness of light throughout the bundle of fibers, it is best to fill the entire compression fitting on the illuminator with fibers. The quantity of fibers will vary depending on the diameter of the fibers used.
- All termination points of the optical fiber(s) should be capped or coated with a white material. This will help reflect the light back through the fiber creating a brighter end result. Lumenyte manufactures white end-caps for this purpose (See Picture E).

### Installation of the Optical Fibers to the LED Illuminator:

- Cut the optical fiber ends with a smooth, 90 degree cut as shown in Picture A.
- Gather the prepared optical fiber ends together and press the ends of the bundle onto a clean surface to ensure all ends are even. Clean paper or cloth is preferable (See Picture B).
- Using white electrical tape, secure the fiber bundle so all optic ends are terminated equally (See Picture C).
- Open compression fitting and push the optical fiber bundle inside until the bundle bottoms out. Be careful not to push too hard so as not to damage the LED. If your fiber bundle is too small to completely fill the fitting, insert short pieces of cut fiber around the outside of the bundle to fill the fitting and center the bundle (See Picture D).
- Tighten the compression fitting around the bundle to tightly secure it in place.
- Follow the same procedure with the additional ports.



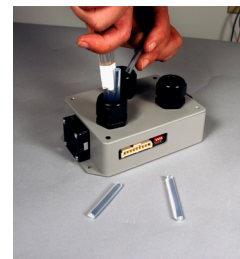
Picture A



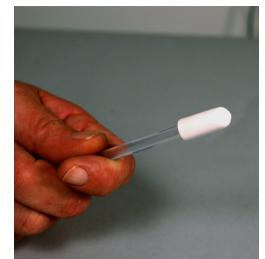
Picture B



Picture C



Picture D



Picture E