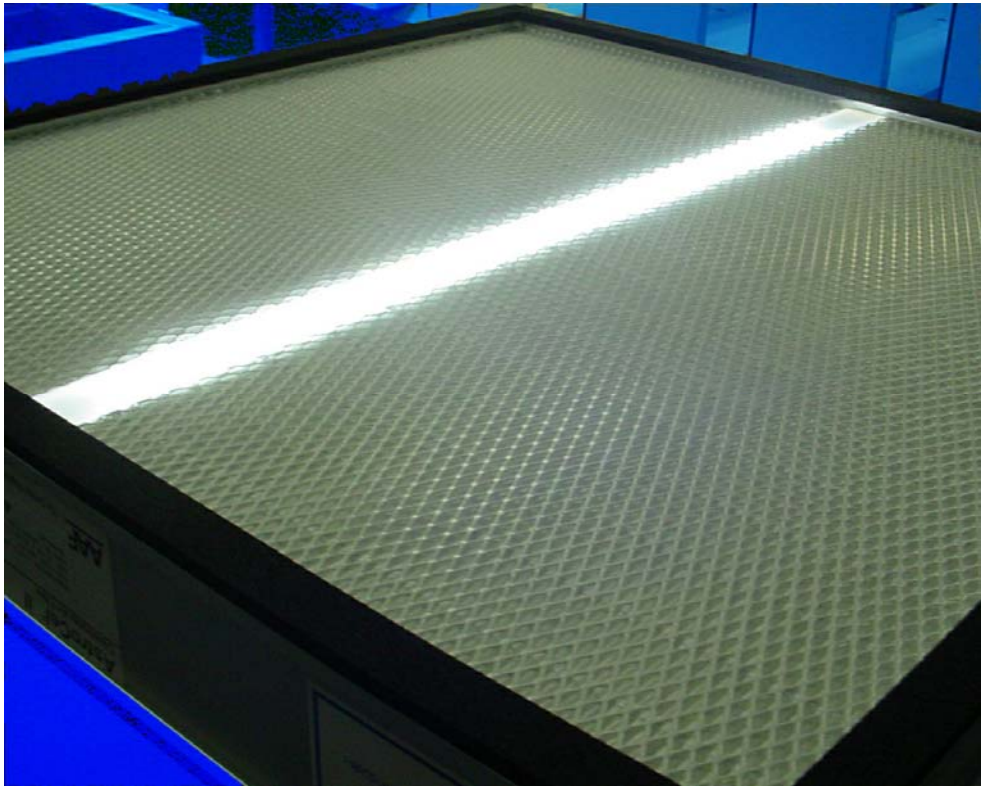
Introducing the patented “I-llumifilter”

Finally, a high efficiency, long life (LED) light source built right into a HEPA /ULPA/PTFE filter

The “I-llumifilter” filter/light combination comes in all standard and virtually any custom size of HEPA/ULPA filters.



Applications for the “I-llumifilter”

- Semiconductor and Pharmaceutical mini environments (Front ends, EFEMS, Aseptic processing equipment)
- Laminar flow benches
- Clean room ceilings
- Anywhere a HEPA filter and lighting is required together

Note the clean appearance, and the open space created by the “I-llumifilter” versus a 2 ft. “tear- drop” light installed in the same space.

Clean Room Ceiling Installations

- In a standard installation of nominal 2’X4’ HEPA filters, a continuous row of “I-llumifilter” light strips yields 20% more light at the work surface than rows of tear drop lights, or fluorescents in flush grid on 4 ft. centers

“I-llumifilter” features versus fluorescent tubes.

- 20-40% more energy efficient at the same light output, saving $100’s or $1,000’s of dollars in electricity cost over the life of the installation
- LED’s are a 50,000 hour MTBF (5.5 years at 24/7) light source, nearly five times that of a fluorescent bulb. Plus, if a single LED fails you lose 5% of the total light and the rest continue to function. So with a MTBF of 50K/hrs/LED this lighting solution will last longer than your application
- LED’s are RoHS compliant, while fluorescents contain significant quantities of both Mercury and Lead.
- LED’s produce light much closer to sunlight, so the quality of the light is vastly superior to that of a Fluorescent bulb.
- LEDs’ come in a variety of colors for varying application, like yellow for Semiconductor Lithography applications
- LED’s are low voltage, running on 24V

Conclusion

- The patented “I-llumifilter” can be applied to a variety of HEPA/ULPA filtered environments.
- It will save money in the cost of electricity
- It is a “Green” solution
- It is RoHS compliant
- An “I-llumifilter” should outlast the application, meaning no changing of bulbs in critical environments
- ***Contact us at 510-656-5333 to discuss your application. Ask for Jim (Jim@tesinc.com) or Larry (Larry@tesinc.com).***