

SOLID STATE RF/ANECHOIC TEST CHAMBER ILLUMINATION

RF/ANECHOIC Test Chamber Illumination.
Noise / RF Free.
High Lumen Output – Diffuse Illumination.
24 VDC Class II Operation (inherently safe).
Scalable, plug and play connectivity.
Modular (daisy-chainable-8 per 100w circuit).
Easy to configure, install and connect.
Well Suited to Retrofitting Existing Chambers.

Low Profile.
No Heat Sinks or Thermal Management Required.
Low Heat Output – Cool to the Touch.
Energy Efficient – 11.5 watts per square foot.
Rated for 60,000 hours of maintenance free use.
Shock and vibration resistant.
Wide operating temperature and humidity range.



Panashield, Inc.
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ION™ Light Engine LED Arrays effectively resolve issues commonly associated with illumination in test chambers including light levels, flickering, noise and RF in Anechoic, EMC, Acoustic and Microwave chambers.

The ION™ Light Engines patent-pending technology eliminates the need for large, bulky heat sinks; significantly reducing the profile in comparison to most solid-state lighting solutions and provide a very attractive answer for new and retrofit installations.

Rated for 60,000 hours maintenance free performance, lamp replacement and maintenance is eliminated while energy savings are substantial over incandescent and fluorescent lamp solutions.

Providing 720 lumens at the light source per square foot, the ION™ Light Engine's modular, daisy chainable design allows you to easily and affordably customize a solution that meets the specific needs of your chamber.

Benefits and Features of Remote Power Supplies

The power distribution and controls are designed to be remotely located outside of the chamber, removing any potential for RF interference. A unique sandwich of very thin copper layers within a PCB substrate reduces reflective and ferrous surface content significantly and has shown in real life case studies to provide no interference.



Lighting Provided With Five 12" x 12" ION Light Engines

Noise / Flicker Free

LEDs emit no RF or EMI and provide flicker free performance, even when dimmed (optional) when using these cutting edge, patent-pending power distribution and control solutions.

Thermal Management / Longevity

The ION™ Light Engine's proprietary construction consists of a high redundancy of low watt LEDs mounted on a printed circuit board substrate with unique internal construction and venting that draws what very little heat is generated by the LEDs away from the diode junction, helping to ensure full longevity of the LED's projected life span of 60,000 hours.

Ease of Installation

The ION™ Light Engines modular design allows for extremely simple installation consisting of 12"x12" arrays and connecting cables combined with an appropriate power supply. Fully configurable to meet the specific needs of your chamber.

Energy Efficiency

The ION™ Light Engine provides for extremely energy efficient performance at 11.5 watts per 12"x12" array. Typical energy savings versus fluorescent and/or incandescent solutions is upwards of 60%.

Maintenance Free

Eliminates the expense of lamp replacement and maintenance for the life of the product.

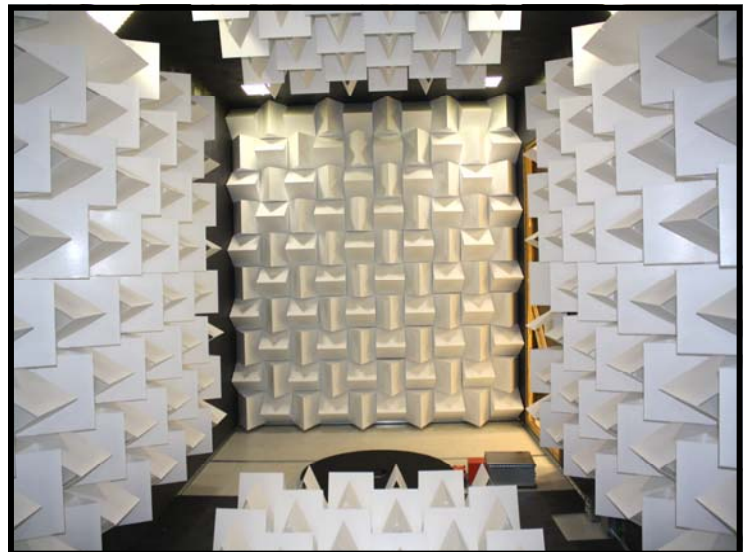
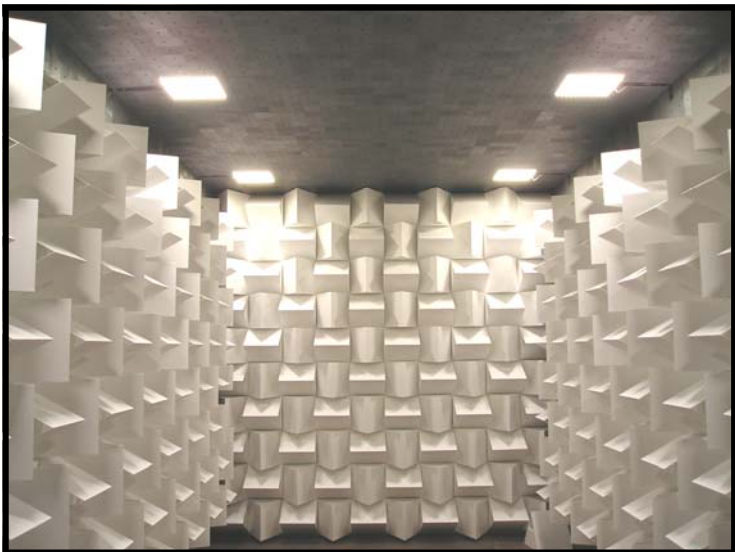
**All RF/Anechoic Chambers Can Be Upgraded
With ION Light Engines!
Here are some examples of upgraded EMC Chambers:**



**MIL 461 / DO 160 Anechoic Chamber
Polyurethane Absorbers**



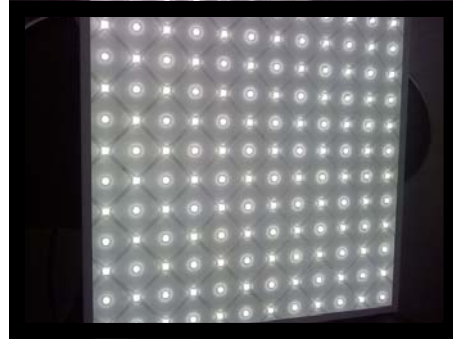
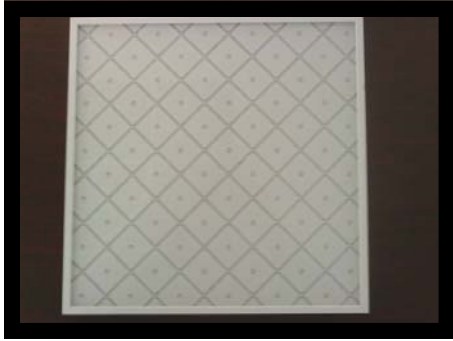
**MIL 461 / DO 160 Anechoic Chamber
Polyurethane Absorbers & White Caps**



**Ferrite and HYB-NF Hybrid 3 Meter EMC Anechoic Chambers
Utilizing six 12" x 12" ION Light Engines**

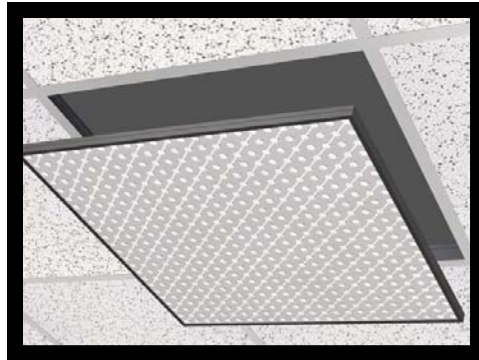
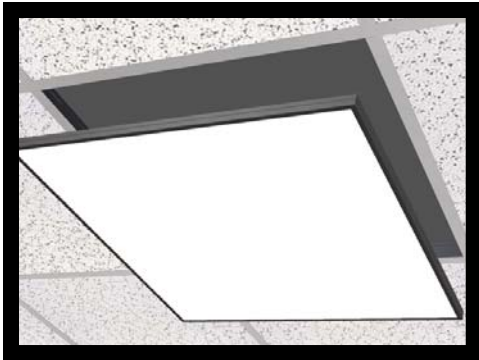


RF CONTROL ROOM LIGHTING



LIGHT PANEL PHOTOS

STANDARD ACOUSTICAL CEILING INSTALLATION



INSTALLATION ILLUSTRATIONS

SURFACE MOUNTED TO SHIELD INSTALLATION



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