Complete solution

Lynxus Dynamic is perfectly matched to our Magtech line of fixtures. These pre-configured color tunable units are easily adaptable to most 2 x 2 - 2 x 4 troffers and 4” Linear applications.

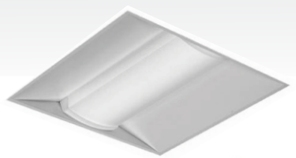
Boost concentration and attention span by using light to manage student mood and energy levels throughout the day

Help teachers achieve learning outcomes with lighting that supports specific tasks, such as quiet reading or group work

Improve your institutions academic reputations through better student performances. Comply with school and university lighting standards

Reduce costs with lights that dim when sensors detect empty classrooms or sufficient natural daylight

Achieve energy savings of up to 57% with energy-efficient school lighting



2 x 2 Troffer

2 x 4 Troffer

1 x 4 Linear

Dynamic Lighting for Learning by Lynxus TECHNOLOGIES

Resent studies assert that, lighting with Correlate Color Temperature (CCT) has a profound affect on both physical and mental conditioning. Research has shown a direct correlation between human function and variable lighting CCTs produced by indoor luminaries.
Dynamic Lighting from Lynxus can impact how you think and feel.

With a seamless change in brightness and/or temperature you can alter the senses from relaxing to attentive, from wary to watchful.

Teachers can select from four lighting profiles, instantly adjusting classroom lighting to keep students focused and comfortable as the day progresses. They can also align lighting with different classroom activities, such as reading, to improve student engagement and learning outcomes.

Lynxus Technologies a div. of Magtech Industries - 702-364-9998 Lynxus.com / Magtechind.com

Better Environment

"At the beginning of our research, we were shocked by the fact that lighting environments in educational facilities were so poor, considering all the technology."
Dr, Hyeon-Jeong Suk, Professor at the Korean Institute of Science and Technology.

Numerous studies have demonstrated that the classroom environment plays a big role in student learning. One key aspect of the classroom environment that is particularly impactful is the classroom lighting. Research has shown that by moving away from fluorescent lighting and providing a changeable atmosphere based on the activity has a positive impact.
"Besides improving human performance, variable lighting CCTs also exert a great influence on both the physical and mental conditions of humans," Dr, Hyeon-Jung Suk of the Korean Institute of Science and Technology. "However, such benefits of lighting have not yet been fully adopted in the educational environment.

Light is universally understood as essential to the human condition. Yet light quality varies substantially in nature and in controlled environments leading to questions of which artificial light characteristics facilitate maximum learning. Recent research has examined lighting variables of color temperature, and illumination for affecting sleep, mood, focus, motivation, concentration, and work and school performance. This has resulted in artificial light systems intended to support human beings in their actualization through dynamic lighting technology allowing for different lighting conditions per task.

Increase productivity

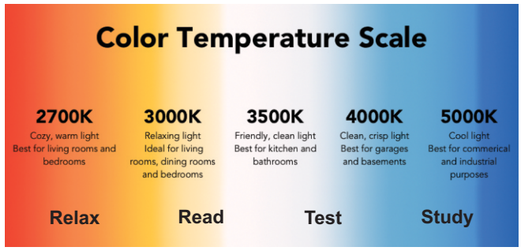
- Uniform LED lighting minimizes shadows and improves visibility
- Adjust color temperature and light levels to respond to a variety of situations on campus
- Remote management enables system overview ·
- Reduce energy consumption and carbon footprint
- Use light only where and when it is needed

A total of 84 third graders were exposed to either focus (6000K-100fc average maintained) or normal lighting. Focus lighting led to a higher percentage increase in oral reading fluency performance (36%) than did control lighting (17%). No lighting effects were found for motivation or concentration, possibly attributable to the younger age level of respondents as compared with European studies. These findings illuminate the need for controlled lighting in learning environments.

Simple Approach

A simple 8 button touch, J-Box mounted gateway provides the necessary control point for dimming, preset CCT and On/Off. Match with the Lynxus ZBA wireless color tuning module along with optional motion sensor and you have a complete color-tuning solution for 1 to 40 fixtures.

The research result shows that the 6500 K condition led to stimulation of higher alertness states — and the greatest enhancement of academic performance — follows the predictions of the so-called Yerkes-Dodson Law. Developed more than a century ago by psychologists Robert Yerkes and John Dodson, the law postulates that there is a curvilinear relationship between mental arousal (or stress) and performance. That is, people tend to perform best at certain intermediate levels of mental arousal (in this case, under the 6500 K lighting condition) and worse when these levels are either too low or too high.



Performance based

Our natural and built environments seem to affect how we think and feel. Researchers have recently focused on determining how environmental factors can affect kids' ability to learn. Studies show that a well-designed learning environment supplements evidence-based pedagogy and curriculum design.
Researchers concluded that the 3500 K warm lighting provide a relaxing environment to support relaxing or reading activities, whereas the 4000 to 5000 K lighting may be applied for activities which require both reading and analytical skills, and 6500 K dynamic lighting supports students' performance during intensive academic activities.
Think your student is spacing out when she's gazing out the window during class? She may be instinctively seeking a cognitive reset that will improve her ability to focus. Many studies have demonstrated the power of the natural lighting—whether real or simulated in learning and well-being.

University Of Georgia study found, U.S. elementary students showed that, over one school year, kids who were exposed to corrected lighting during their school day displayed 26 percent higher reading outcomes and 20 percent higher math outcomes