FineTUNE®
Tailored Control System

Tailored Control System

CREATING SOLUTIONS

for Better Lighting

FineTune® Tailored Control System (**TCS**) is based partially on the results of the DOE funded-research project "Luminaires for Advanced Lighting in Education". Finelite partnered with RTI International in the research and development of the Next Generation Integrated Lighting System for the Classroom of the Future.

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Better Lighting

CREATING SOLUTIONS
for Better Lighting
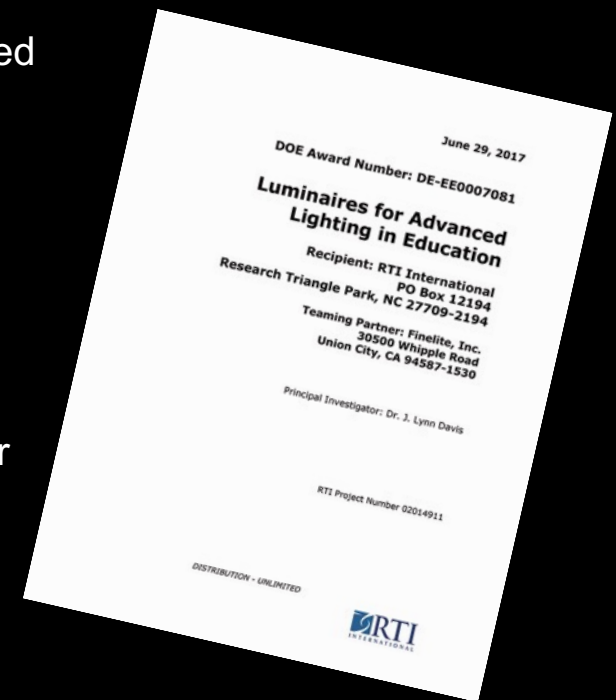
Finelite built the classroom, luminaires, and controls while RTI led research and performed accelerated stress testing to verify the system based on the aggressive goals established by the DOE.

The lighting system developed met or exceeded every goal established, including the following:

- Tunable White range of 2,700K to 6,500K with a CRI of 83 or higher at all values

- Full-range dimming at all CCT with flicker values below industry guidelines

- Luminaires in excess of 125 lpw at all CCT values*

- Teacher-focused user interface for layer based control

* Product used in D.O.E study: HPR-A-LED-2X2-SO-8TW and HP2-WW-R-HO-8TW.

June 29, 2017

DOE Award Number: DE-EE0007081

Luminaires for Advanced Lighting in Education

Recipient: RTI International
PO Box 12194
Research Triangle Park, NC 27709-2194

Teaming Partner: Finelite, Inc.
30500 Whipple Road
Union City, CA 94587-1530

Principal Investigator: Dr. J. Lynn Davis

RTI Project Number 02014911

DISTRIBUTION - UNLIMITED

RTI INTERNATIONAL

Download the report at
http://www.finelite.com/media-center/

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FINETUNE TAILORED

Control System

FineTune® TCS is lighting and control designed with user input and validated by research. TCS delivers performance, control, tunability, and simplicity in a complete solution.

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# FINETUNE TAILORED
Control System

FineTune TCS Benefits:

- Scaled system architecture to control project cost and flexible for project size

- Out-of-the-box ready for static white or tunable white luminaires

- Plug-n-play ready and commission free for 0-10V or DMX LED luminaires

- Built in astronomical time clocks for automatic scheduling and reduced energy consumption

- UL924 listed Layer Pack devices to support emergency settings and code requirements

- User friendly control with factory preset scenes

- Single-source Finelite warranty for guaranteed support

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SIMPLE, SCALABLE
Complete System

FineTune® TCS features highly robust and easily identifiable components all backed by a single-source Finelite warranty. Using only standard CAT5 cabling provided by Finelite, FineTune TCS plugs together Control Stations, Switches, Layer Packs, Sensors, and LED Luminaires creating a lighting system that is scalable, affordable, and easy-to-install.
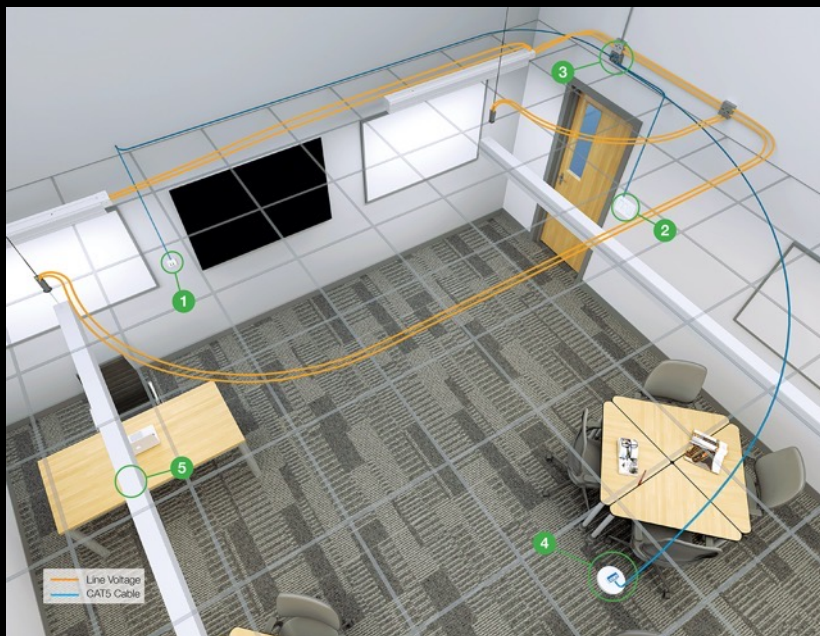
1 Control Station

FTCS - CS - TW - S01 - L02 - W

2 Low Voltage Switches

Tunable White LUMINAIRES

Static White LUMINAIRES

L - PWR /   L - DIM / L - Dimmer - TW

3 Layer Packs

0-10V Lighting Controller

4 Sensors

Occupancy Sensor

5 LED Luminaires
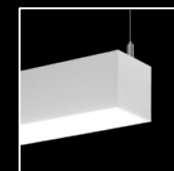
HP-4 Indirect/Direct (shown)

Line Voltage
CAT5 Cable

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For all compatible Lumimaires see **www.finelite.com**

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A NEW LEVEL OF

Layered Control

Equipped with easy-to-understand controls and research driven factory preset scenes that are highly customizable, users gain the ability to put light where it is needed and when it is needed for the task at hand.

General Scene:
User preferred default space setting

Tablet/Computer Usage Scene:
Low glare setting for use with backlit screen devices

Video Scene:
Designed for movies or other multimedia focused activities

Focus Scene:
Focuses attention on whiteboard tasks

Energize Scene:
Bright light to help stimulate and revitalize occupants

Calm Scene:
Creates a soothing environment and promotes relaxation

Control Station

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0-10V & FMX

Layer Packs

The Layer Pack lighting controllers are the interface between the line voltage of the building and the connected low voltage user controls. Each Layer Pack controls a separate "layer of light" and is plug-n-play ready for 0-10V or FMX LED luminaires. Using a BUS system design, the Layer Packs allow for communication amongst all connected devices.

0-10V

- Static White - Dimmable to 1%
- Tunable White - Dimmable to 10%.

FMX

- Static White - Dimmable to 0.1%
- Tunable White - Dimmable to 0.1%.

FMX is a proprietary version of DMX that Finelite utilizes.

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LOW VOLTAGE

Switches

Easily control intensity, color, and on/off functions with a variety of specification grade low voltage Master and Local Dimmer switches.

Local Dimmer
+ Tunable White

Local Dimmer

Local Power

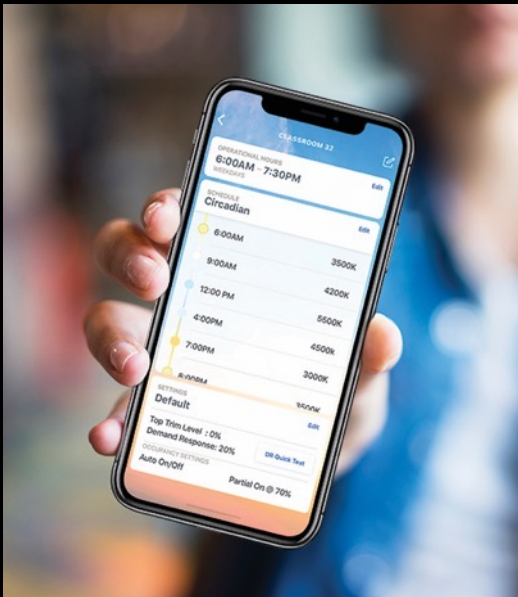Master Power

Master Tunable
White

3 gangs switches shown: Local
On/Off, Local Dimmer, and Local
Dimmer + Tunable White

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THE POWERFUL
Mobile App

For more granular and advanced settings, utilize the FineTune® TCS App.

FineTUNE TCS

iOS

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(coming soon)

Bluetooth

- Create named spaces

- Schedule hours of operation

- Fine-tune settings, high-end trim, and presets for each space

- Create performance schedules and tunable white transitions

- Supports daylight and wellness schedules

- Copy and repeat space preferences

- Unique password protected

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DEFINE YOUR SPACE

Mobile App

To define your space, select from preloaded factory designed schedules or easily create your own custom schedule
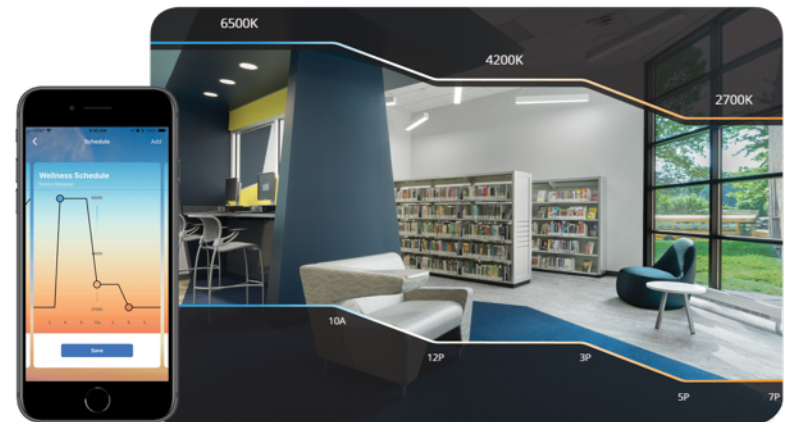
For more information, download
App Instruction

Daylight Schedule

Factory Designed

Wellness Schedule

Factory Designed

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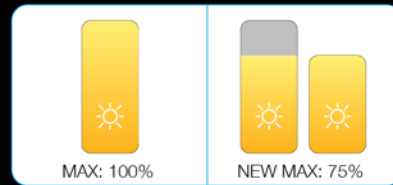A brand of legrand®   11

CODE COMPLIANT
by Design

FineTune Tailored Control System (**TCS**) is LED luminaires and lighting controls that are designed for your project to achieve code compliancy easily.
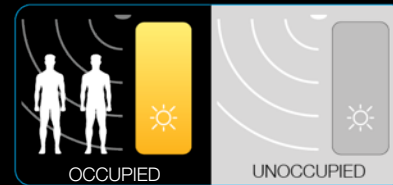
FineTune TCS:

- Reduces energy consumption and support visual needs

- Synchronizes light levels with daylight and occupancy sensing

- Offers manual, bi-level, automatic demand response, and plug load control capabilities
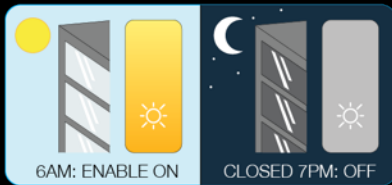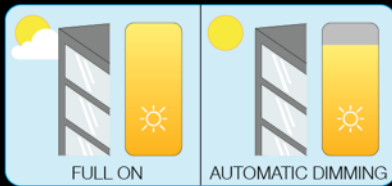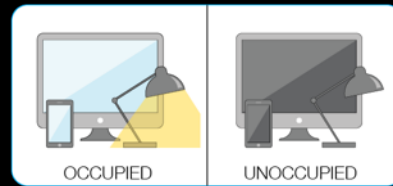

6AM: ENABLE ON   CLOSED 7PM: OFF

Operational Hours

MAX: 100%   NEW MAX: 75%

High-End Trim

OCCUPIED   UNOCCUPIED

Occupancy Sensor

FULL ON   AUTOMATIC DIMMING

Daylight Harvesting

OCCUPIED   UNOCCUPIED

Plug Load Control

OFF PEAK HOURS   ON PEAK HOURS

Demand Response

Meets best practice for ASHRAE, LEED, and CHPS.

TITLE 24   ASHRAE

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Scalable
Flexible
Intuitive
Optimized

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Project: Boston Scientific; Location: Quincy, MA; Architect: Margulies Peruzzi Architects;
Lighting Design: Margulies Peruzzi Architects

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Finelite Commitment To You

10-working-day shipping on standard orders

Focus on sustainability

Buy American Act of 2009 Compliant

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