

FLUXWERX + EDUCATION



WILSON SCHOOL OF DESIGN











# BREAKTHROUGH ILLUMINATION. UNLIMITED POTENTIAL.

We believe in the balance of design and performance without compromise.

## DESIGN

Luminaires designed for the integration of illumination with inspired architectural spaces, long life and easy maintenance optimize environments for purpose, achievement and advancement.

## COMFORT

Precision Anidolic-extraction optics delivers exceptional uniformity on the desk in the classroom or the table in the science lab with lower energy density and maximum visual comfort.

## PERFORMANCE

Choose among precisely controlled optical distribution options for low glare and wide row spacing in a variety of ceiling conditions. Symmetrical and asymmetrical distributions, up/down hemispherical control and other flexible options can be used to optimize the lighting for classrooms, audio/video rooms, libraries and other spaces in the educational environment.

## CONTROL

Seamless and agnostic control system integration provides ultimate compatibility and flexibility with classroom controls, daylight harvesting, occupancy sensing, or other building control systems.



PROFILE

## 4 KEY CONSIDERATIONS WHEN DESIGNING FOR EDUCATION

Human needs  
Architecture  
Budget + Maintainability  
Environment



## ANIDOLIC OPTICS

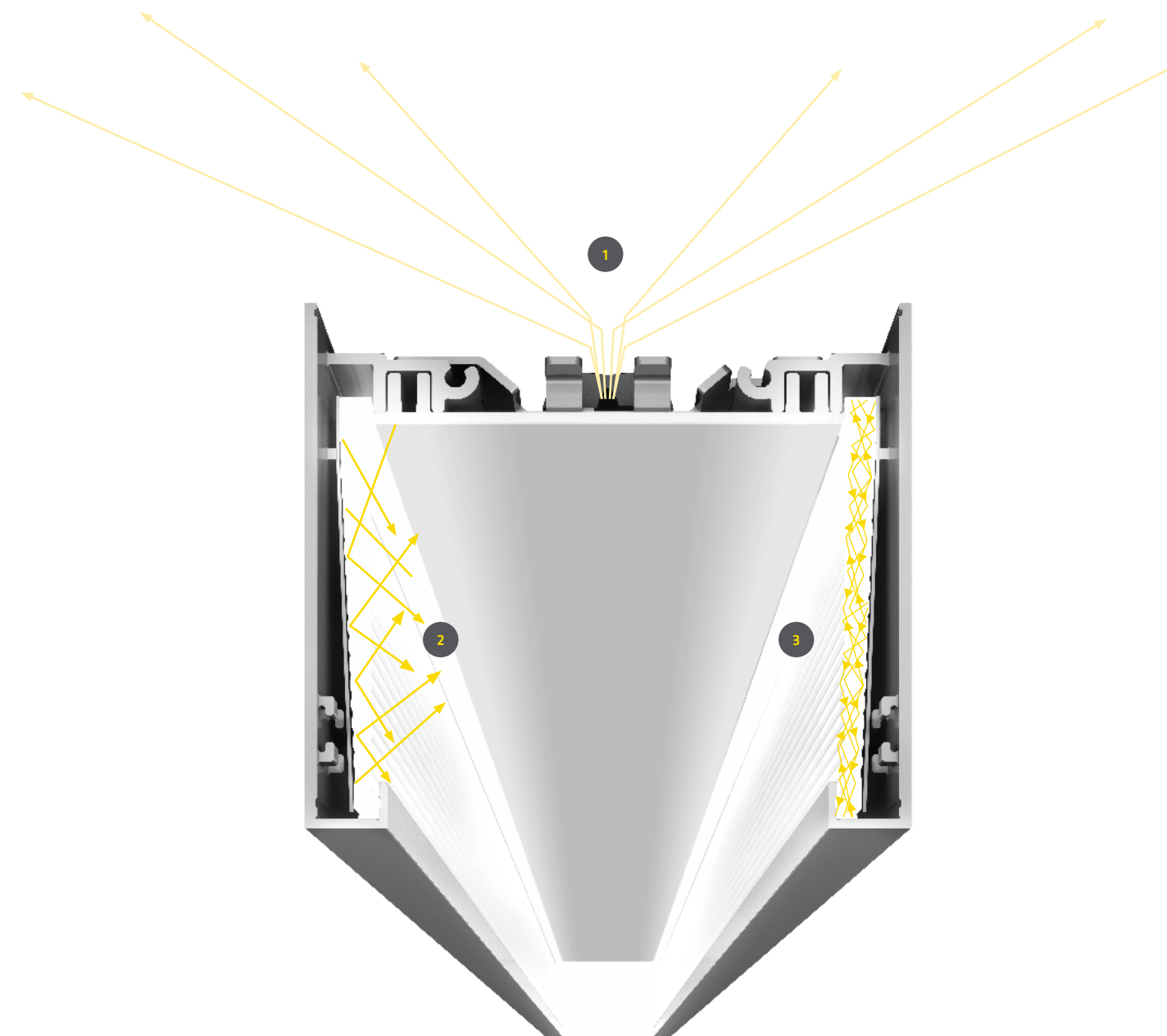
# SIMPLE IS COMPLICATED. INVISIBLE IS INNOVATION.

## IMPOSSIBLE

To this day, this word points the way forward.

Our original pursuit to optimize design and performance and recreate the way daylight is experienced through fenestration—without compromise—continues to defy convention and transform expectations for general area illumination.

In every iteration, Fluxwerx optics are engineered specifically for LED sources. Integrated with minimalist design and architectural materials, our luminaires deliver a broad range of options with superior optical and energy performance. Precise distributions provide greater-on-center spacing, exceptional work plane uniformity with lower energy density and maximum visual comfort.



### 1 WIDE ANGLE INDIRECT

A wide indirect distribution minimizes bright spots directly above the fixture and creates brighter, more inviting, uniformly lit spaces, even when designing layouts with fewer fixtures and wider on-center spacing. A wide indirect distribution also requires minimal suspension distances from the ceiling for flexible application in educational spaces with different ceiling heights.

### 2 ANIDOLIC OPTICAL STRUCTURES

Anidolic optical structures disperse and mix light, eliminating any visible images of the LED point source and ensuring accurate and consistent color.

### 3 PRECISE EXTRACTION

Precise extraction elements refract and reflect light, emitting high performance distributions with exceptional optical control and efficacies..





CLASSROOMS 01

VIEW





# 01

## CLASSROOMS

# OPTIMIZE ACADEMIC POTENTIAL

Today's classrooms are multifunctional learning spaces designed to inspire. Flexible, comfortable, high performance lighting is critical to complement and support the variety of collaborative and individual-led teaching and learning activities and functions these environments demand.



**TOP RIGHT**  
Loop Recessed  
Luminaires that deliver wide on-center spacing and exceptional uniformity save energy, costs and materials as fewer fixtures are needed in classrooms.

**BOTTOM RIGHT**  
Aperture  
As classrooms evolve into collaborative workspaces and deviate from traditional eyes-front configurations, the use of lighting that addresses multiple conditions becomes critical.

**LEFT**  
Profile  
Thoughtful school design considers daylight as integral to energy efficient lighting and can improve student health and performance. Integration with a range of sensors, lighting controls and building management systems saves energy, reduces costs and maximizes occupant comfort.









02

ENTRIES / ATRIUMS / HALLS

INTEGRATE  
ARCHITECTURE  
WITH  
ILLUMINANCE

Large, open and central spaces form the physical and virtual heart of any educational facility. Form first impressions where people, place and culture connect.



**TOP LEFT** Profile  
No longer just a throughway, large, socially vibrant spaces encourage multiple uses and demand lighting designed for ultimate flexibility, control and comfort.

**BOTTOM LEFT** Notch 4  
Trimless finish of recessed fixtures in this atrium offers a subtle punctuation of the ceiling plane, ensuring complete integration with the architecture and a cohesive lighting experience.

**ABOVE** Profile Spoke  
Form meets function. Design and performance converge.







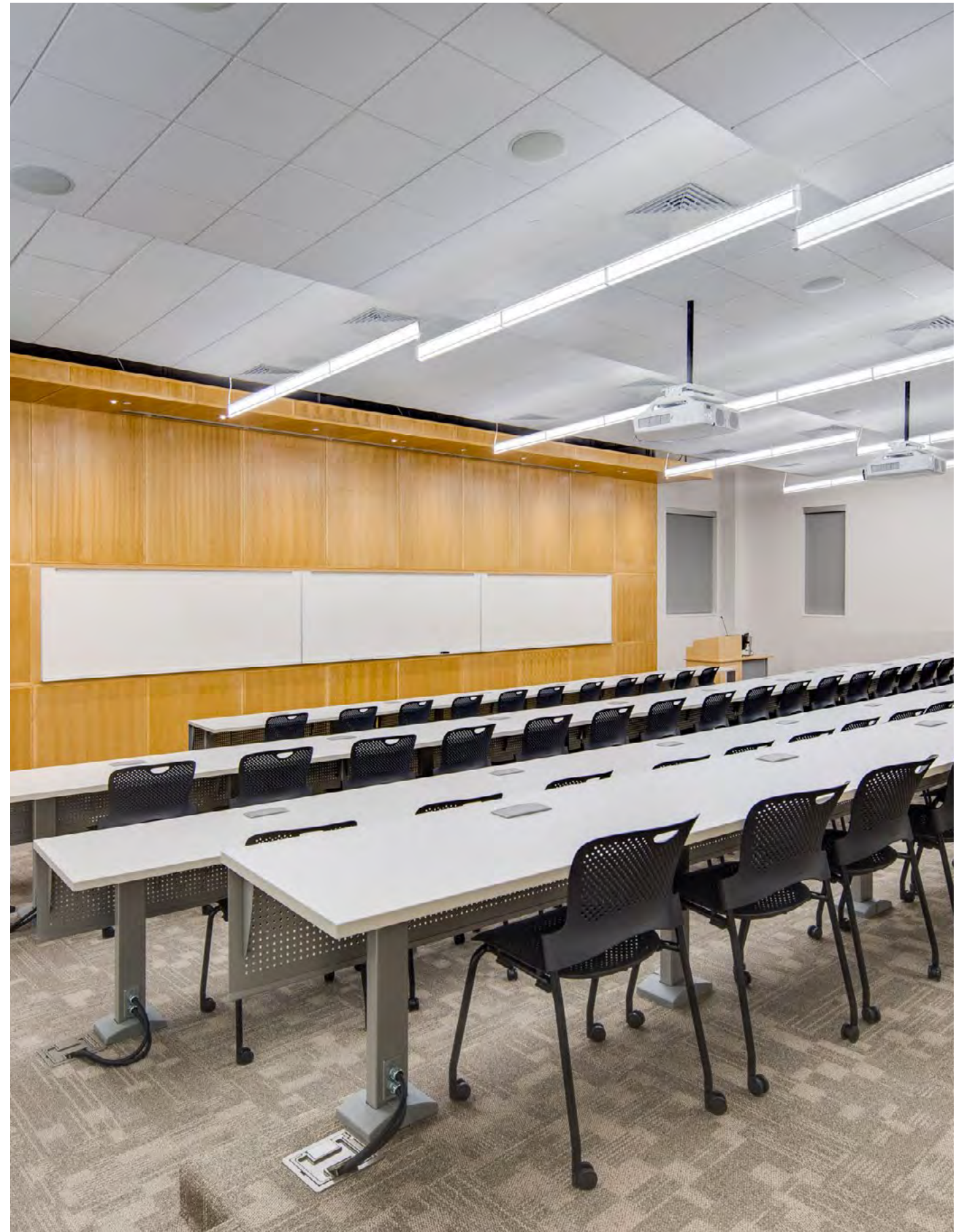
# 03

## LECTURE SPACES

# LIGHTING FOR EPIPHANIES

Controlled lighting is critical for purpose-specific instructional spaces with clearly defined 'educator zones' and audio/visual requirements.

Lighting in lecture halls often differs from classroom lighting as the distance between the lecturer and the audience is typically greater. Independently controllable direct and indirect lighting optimizes illumination of the presenter and presentation for ideal communications and learning.



**LEFT**  
TOP: View  
BOTTOM: Inbox  
Presentation-ready lighting takes into consideration vertically mounted writing boards and monitors positioned on vertical surfaces.

**ABOVE**  
View  
Suspended luminaires enable independent hemispherical control and provide fully dimmable or switchable control of the indirect (up) and direct (down) distributions to suit the lighting and energy needs of the space and people in the environment. Ideal for multipurpose rooms and spaces with presentation, projection or video conferencing requirements.







# 04 NO LONGER JUST BOOKS

## LIBRARIES

Research, group learning, storytelling, and individual study are just some of the many uses for libraries today.

This kind of versatility challenges convention and demands lighting for the future that is engineered from the start.



- TOP Profile** Vertical Surface Illumination (VSI) distribution options are engineered for unique applications such as library stacks, providing uniform top to bottom illumination, even in narrow spaces.
- RIGHT Spoke** Particularly well-suited to reading environments and reconfigurable spaces, discrete general area lighting provides all the benefits of linear suspended luminaires with maximum design flexibility.
- FAR RIGHT Aperture** Vertical Surface Illumination (VSI) symmetric and asymmetric distributions can deliver 2:1 vertical uniformity and over 30 fc onto stacks and walls.











LABS + TRAINING

## 05 LIGHT AT THE SPEED OF LEARNING

Spaces for science-based study and lab work often have variable general and task lighting requirements.

Occupants increasingly expect adjustable, glare-free, dimmer-controlled and color-accurate spaces. Balanced energy consumption is also an important consideration; laboratories have traditionally been high energy users due to electrical and cooling requirements.

TOP View  
RIGHT Inbox + Fold  
FAR RIGHT Inbox









# 06

## TRANSITIONAL SPACES

### FROM CONDUIT TO CONFERENCE

Corridors are more than mere passageways.

Similar to break-out collaboration areas, these transitional spaces offer an opportunity for one-on-one and small-group learning sessions, providing social fabric for people to converge and interact.



**LEFT TOP**  
Portal Recessed 9"

Reimagine directional and general area illumination in a single fixture family. Portal proprietary optics define a minimalist aesthetic and deliver exceptional comfort and control across multiple environments.

**LEFT BOTTOM**  
Profile

Automated controls such as occupancy sensors can increase energy savings. Occupancy sensors can be programmed to dim the lights where and when daylight is available, and maintain required minimum foot candle levels for safety purposes.

**ABOVE**  
Notch 4

Hallways and corridors are some of the busiest areas in the schools. Lighting design for these multifunctional spaces needs to guide people through the building while providing adequate light levels for comfort and safety at all times. Bright, even light without glare and harsh shadows is imperative.





ABOVE: FOLD

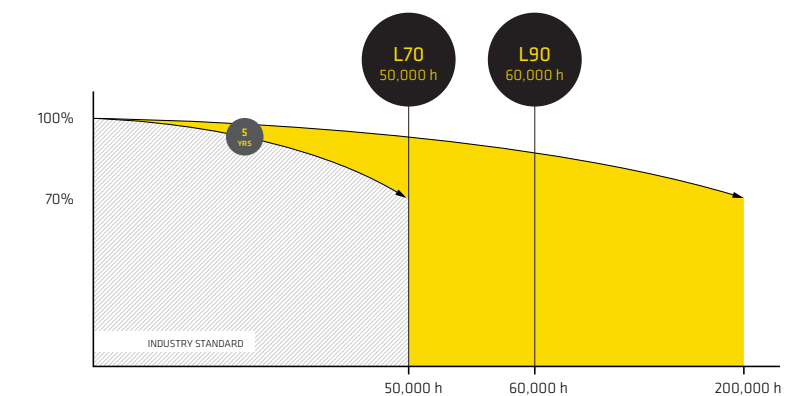


## DESIGN + BUILD TO LAST

Complementing our luminaires, drivers are designed for multiple orientations and to accommodate a variety of ceiling conditions with simple installation methods and easy access for maintenance.

To streamline installation, invisible design details require no electrical connections at fixture joints, creating virtually seamless continuous runs. Our fixtures also arrive on site with endcaps and power drop cords factory installed and drivers pre-wired and tested for every circuit.

## LUMEN MAINTENANCE



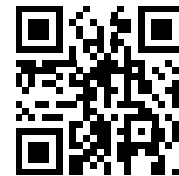
Our products are designed and built to last, typically maintaining more than 90 percent of their initial light output for more than 60,000 hours of operation, well above the industry standard. This means better quality, longer lasting lighting solutions for education spaces, resulting in exceptionally low or no routine lighting maintenance.





## 7 DAY QUICKSHIP

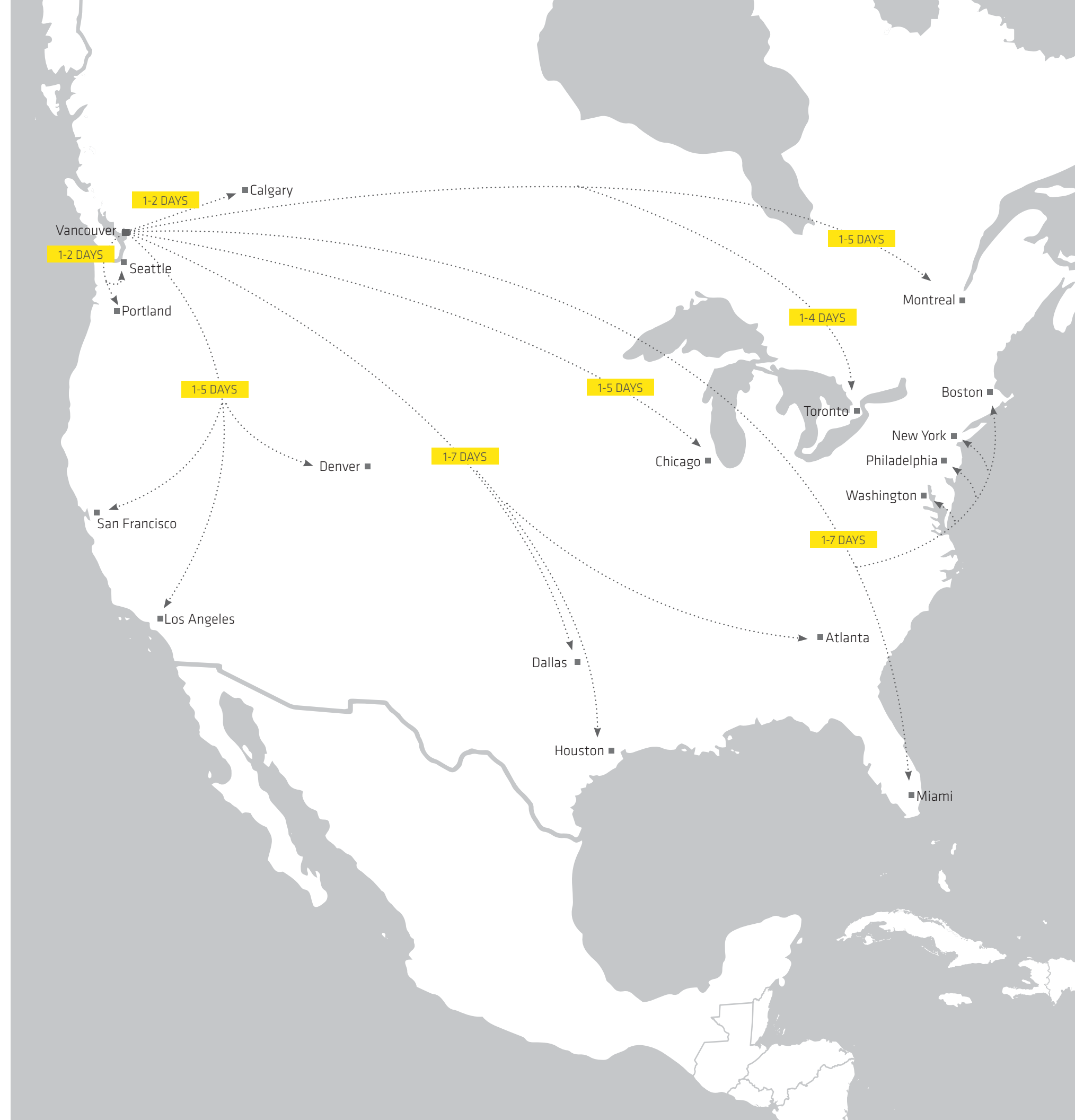
Our 7 day Quickship Program lets you specify our luminaires with no added costs, delivered on time to meet your schedules. Ordering Fluxwerx products has never been easier.



GET QUICKSHIP  
DETAILS HERE

ON SITE. ON TIME. ON BUDGET.

Our standard shipping gets your order on site in less than a week. Need it faster? Overnight airfreight and other expedited transport options are also available with discounted rates on major carriers.







ABOVE: APERTURE

# 80 vs 90 CRI

Color Rendering Index (CRI) represents the ability of a light source to faithfully reproduce object colors, mimicking daylight. All Fluxwerx luminaires—suspended, recessed and discrete—are available with CRI > 80 or CRI > 90 LEDs in all versions, and comply with WELL Building Standard “Electric Light Quality” requirements.



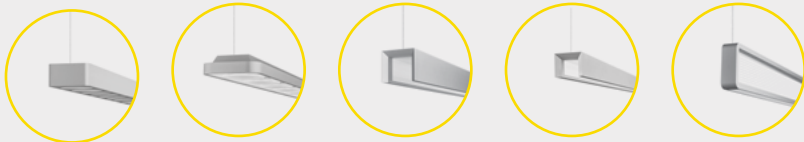
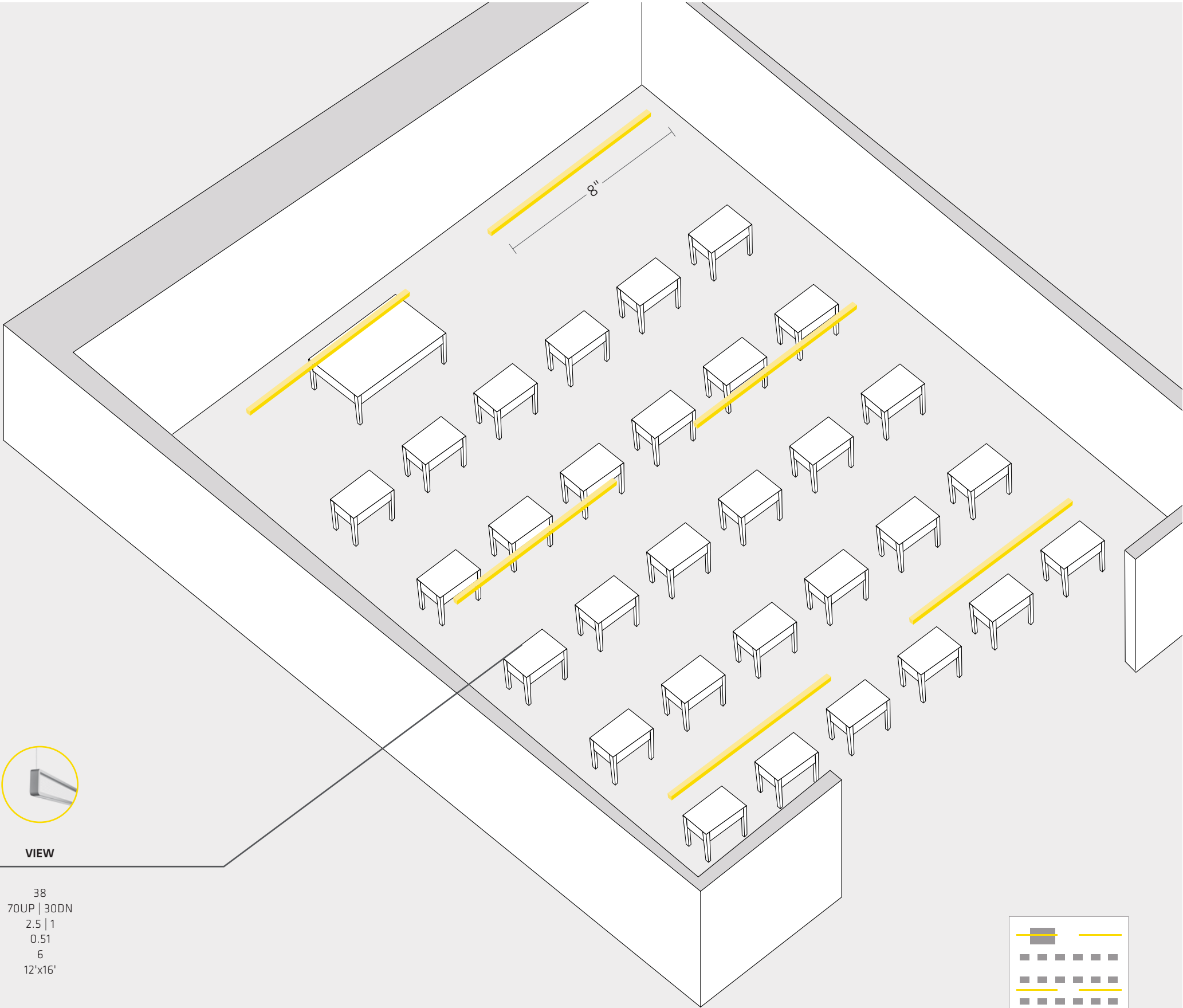
BEST PRACTICES | SUSPENDED

DETAILS

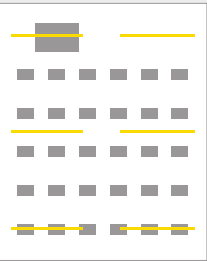
Length x Width x Height (Ft) | 32 x 30 x 10  
Square Footage of Classroom | 960  
Suspension is 24" from Finished Ceiling  
LLF | 0.90  
Reflectances (C/W/F) | 80/50/20  
Work Plane Calculated at 2.5' AFF

HIGHLIGHTS

- 1 Independent Up/Down lighting control
- 2 Multiple Uses
- 3 Comfort



	APERTURE	LOOP	PROFILE	PROFILE MINI	VIEW
LIGHT(FC)	35	42	46	41	38
DISTRIBUTION	75UP   25DN	65UP   35DN	40UP   60DN	40UP   60DN	70UP   30DN
UNIFORMITY	2.1   1	2   1	2.6   1	2.2   1	2.5   1
ENERGY	0.42	0.48	0.49	0.44	0.51
QTY	6	6	6	6	6
SPACING	12'x16'	12'x16'	12'x16'	12'x16'	12'x16'

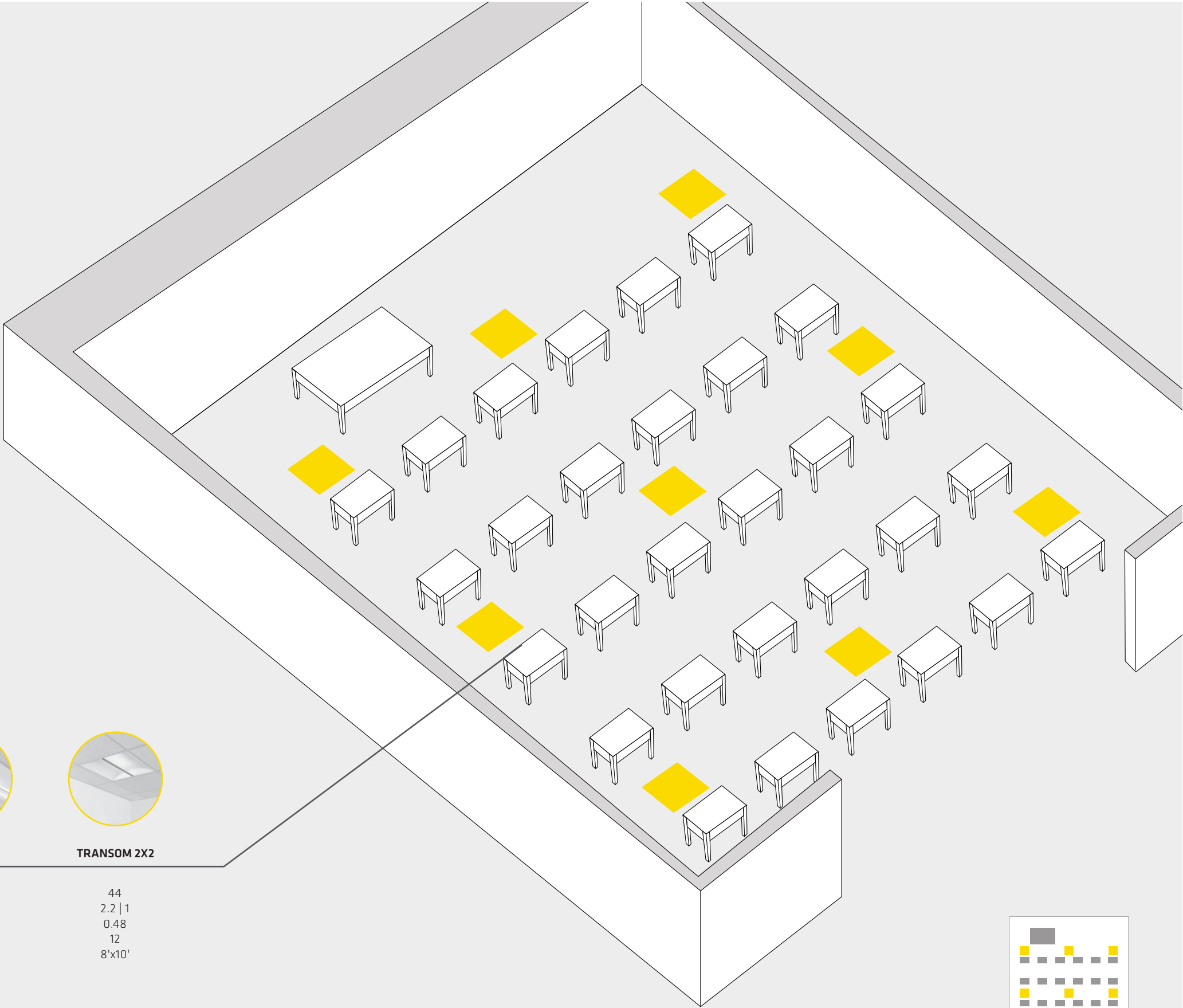




BEST PRACTICES | RECESSED

**DETAILS**  
Length x Width (Ft) | 32 x 30  
Square Footage of Classroom | 960  
Ceiling (Ft) | 9  
LLF | 0.90  
Reflectances (C/W/F) | 80/50/20  
Work Plane Calculated at 30" AFF

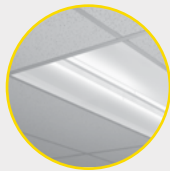
- HIGHLIGHTS**
- 1 Multiple Uses
  - 2 Comfort



LOOP 2X2



PORTAL 5.5"

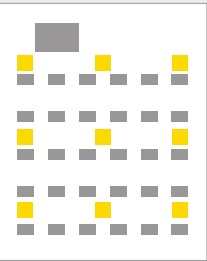


RAILS 2X4



TRANSOM 2X2

	LOOP 2X2	PORTAL 5.5"	RAILS 2X4	TRANSOM 2X2
LIGHT (FC)	44	46	44	44
UNIFORMITY	2.6   1	3.0   1	1.9   1	2.2   1
ENERGY	0.36	0.34	0.41	0.48
QTY	9	16	9	12
SPACING	10'x10'	8'x8'	10'x12'	8'x10'





INDEPENDENT UP/DOWN CONTROL

Independent UP and DOWN switchable and dimmable control of luminaires is ideal for classroom environments, multipurpose rooms and spaces with presentation, projection or video conferencing requirements.

Available at no additional cost in Fluxwerx suspended luminaires, the separated circuitry allows simple adjustment of the proportions of UP and DOWN light to suit the lighting and energy needs of the space and people in the environment.



CONTROLS + SENSORS

Agnostic electromechanical design simply integrates with building lighting control protocols such as 0-10V, DALI, and a variety of energy management systems.

Integration with sensors saves energy, allowing light level adjustments based on available daylight and occupancy.

enlighted<sup>®</sup> **FLIGHT** eldoLED<sup>®</sup> **LUTRON**

0 - 10V



**AcuityControls** > **DISTECH CONTROLS**

**legrand** > **Wattstopper** **Pass & Seymour**

**LEVITON** **EATON** **CRESTRON**





ABOVE: APERTURE

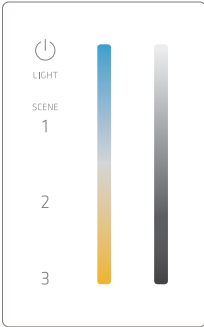




2700

PROFILE

6500



**ALL FUNCTION. NO FUSS.**

Intuitively adjust the intensity and color temperature of light to suit your specific needs. This simple and affordable single zone device is available with two or three way switching. No commissioning required.

Tunable-white LED lighting offers highly efficient general illumination combined with dimming and the ability to tune correlated color temperature (CCT) from warm- to cool-white. This can effectively be applied in classroom settings where teachers can set lighting/visual conditions to support activities. Preset scenes are helpful for teachers to quickly get students' attention or cue them to transition between certain activities.



Light inspires and energizes our environment. Responsive and responsible lighting can boost productivity, enhance well-being and transform a space.

Our Dynamic White enabled solutions offer a simple and affordable range of options designed to meet functional requirements for human-centric environments.



CREDITS

	<b>WILSON SCHOOL OF DESIGN</b>	PRODUCT Profile ARCHITECTURE + DESIGN KPMB Architects   Public Architecture + Communication   AES Engineering PHOTOGRAPHER Andrew Latreille LIGHTING AGENCY CDM2 Lightworks
	<b>JEAN HOFMANN CENTRE FOR INNOVATION</b>	PRODUCT Profile Spoke ARCHITECTURE + DESIGN Ratcliff – Emeryville, CA, O’Mahony & Myer Electrical Engineering & Lighting Design PHOTOGRAPHER David Wakely LIGHTING AGENCY Associated Lighting Representatives (ALR)
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	<b>SOUTHERN UTAH UNIVERSITY – DIXIE L. LEAVITT SCHOOL OF BUSINESS</b>	PRODUCT View ARCHITECTURE + DESIGN MHTN Architects   Layton Construction PHOTOGRAPHER Paul Richer Photography LIGHTING AGENCY JRC
	<b>SOUTHERN UTAH UNIVERSITY – DIXIE L. LEAVITT SCHOOL OF BUSINESS</b>	PRODUCT View ARCHITECTURE + DESIGN MHTN Architects   Layton Construction PHOTOGRAPHER Paul Richer Photography LIGHTING AGENCY JRC
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	<b>ORCHARD MESA MIDDLE SCHOOL</b>	PRODUCT Fold Spoke ARCHITECTURE + DESIGN Blythe Group + co.   FCI Constructors, Inc.   Bighorn Consulting Engineers   EC Electric, Inc. PHOTOGRAPHER Orchard Mesa Middle School LIGHTING AGENCY MH Lighting
	<b>HAPEVILLE LIBRARY</b>	PRODUCT Aperture ARCHITECTURE + DESIGN McMillan   Pazdan   Smith Architecture PHOTOGRAPHER Kris Decker / Firewater Photography, LLC. LIGHTING AGENCY Lighting Associates
	<b>WAYNE STATE UNIVERSITY STEM INNOVATION CENTRE</b>	PRODUCT View ARCHITECTURE + INTERIOR DESIGN Norr Architects PHOTOGRAPHER Maconochie Photography LIGHTING AGENCY Gasser Bush Associates
	<b>DENSTPLY SIRONA</b>	PRODUCT Inbox ARCHITECTURE + DESIGN Gensler PHOTOGRAPHER Halkin   Mason Photography LIGHTING AGENCY TEAM Lighting - Charlotte
	<b>WILSON SCHOOL OF DESIGN</b>	PRODUCT Profile ARCHITECTURE + DESIGN KPMB Architects   Public Architecture + Communication   AES Engineering PHOTOGRAPHER Andrew Latreille LIGHTING AGENCY CDM2 Lightworks
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	<b>HAPEVILLE LIBRARY</b>	PRODUCT Aperture ARCHITECTURE + DESIGN McMillan   Pazdan   Smith Architecture PHOTOGRAPHER Kris Decker / Firewater Photography, LLC.
	<b>BONITA SUNNYSIDE LIBRARY</b>	PRODUCT Aperture ARCHITECTURE + DESIGN Jeff Katz Architecture   DomusStudio Architecture PHOTOGRAPHER Pablo Mason Photography LIGHTING AGENCY OCS Lighting
	<b>FRAMINGHAM PUBLIC LIBRARY, CHRISTA MCAULIFFE BRANCH</b>	PRODUCT Profile ARCHITECTURE + DESIGN Finegold Alexander Architects + Sladen Feinstein Integrated Lighting PHOTOGRAPHER Damianos Photography
	<b>WILSON SCHOOL OF DESIGN</b>	PRODUCT Profile ARCHITECTURE + DESIGN KPMB Architects   Public Architecture + Communication   AES Engineering PHOTOGRAPHER Andrew Latreille LIGHTING AGENCY CDM2 Lightworks





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