



# THE INTERSECTION OF INNOVATION

Introducing USAI® Connect™ in partnership with Armstrong Ceiling Solutions

**USAI**<sup>®</sup>  
Lighting





## LIGHTING AND CEILING IN PERFECT ALIGNMENT

USAI Lighting and Armstrong Ceiling Solutions have partnered to offer architects and designers a new way to seamlessly integrate recessed downlights at the intersection of the ceiling grid—allowing for perfect alignment of lighting and architecture.

USAI<sup>®</sup>  
Lighting

Armstrong<sup>®</sup>  
CEILING SOLUTIONS



## LIGHT WHERE IT HAS NEVER BEEN BEFORE

USAI® Connect™ creates a whole new design aesthetic, placing the light fixture at the intersection of the grid. For the first time ever, seamlessly integrate lighting with architectural elements while achieving perfect alignment, balance and order.

## A NEW WAY TO THINK ABOUT CEILINGS

Traditional downlight installations require the contractor to cut ceiling tiles. Easy to install, Intersection Downlighting eliminates the need for field modified panels and grid, providing consistent finishes and edge details with crisp, clean, pre-cut factory finished panels.



## WHAT PEOPLE ARE SAYING ABOUT USAI CONNECT:

**“So innovative. An immediate must-have.”**

**“Long overdue.”**

**“I can use this everywhere!”**

**“We always draw it this way, but it was never possible before.”**

**“My clients will love this.”**

**“Aesthetically, this is a breakthrough.”**



# LIGHT FOR ENGAGING WORKPLACES

## Flexible Workplace

Modern office design incorporates private and public spaces for maximum employee satisfaction. From flexible open floorplans to breakout spaces or private offices, USAI Connect flows seamlessly from space to space. Use Connect with Color Select® tunable white light to deliver the right light at the right time to enhance community, creativity, innovation and efficiency.



### 1. Proven and Reliable Dimming

Control system compatibility is critical to the success of a high quality installation. USAI rigorously tests all major architectural control systems for smooth and flicker-free dimming down to 0.1%.

### 2. Toolbox of Beams

Our downlights offer a full range of beamspreads (10°– 50°), which are smooth and even. A 50-degree beam provides excellent, uniform, glare-free illumination for open offices.

### 3. No Window? No Problem

Seating located more than 10' from a window does not receive circadian benefit from natural light. Supplement daylight with Color Select tunable white light to synchronize your natural body clock throughout the work day.

### 4. Enhance Performance and Productivity

Color Select tunable white light offers the ability to use blue-enriched white light at appropriate light levels in the workplace at the right time of day to stimulate the brain and improve alertness and performance.

# LIGHT FOR PRODUCTIVITY

## Open Office

Workplace design has a direct impact on productivity. Simulate natural daylight throughout the day and season using USAI Connect classic or tunable white light to perfectly balance interior light levels, reduce glare, and increase employee comfort and satisfaction.



### 5. Bring the Outside In

We spend 92% of our time indoors. Match daylight with Color Select tunable white light that fluctuates throughout the day for increased employee engagement.

### 6. Perfect Color Consistency

The human eye is highly sensitive to light and color. USAI's Classic White light delivers perfect color matching from fixture to fixture.

### 7. Best-in-Class Efficiency

Meet increasingly tough energy code requirements with aesthetics and style. USAI's proprietary LED lighting systems provide more light on the workplane, while using less power than ever before.

### 8. Full Family Platform

USAI offers a full suite of LED lighting products that install seamlessly into Intersection Downlighting ceilings, as well as sheetrock and other materials for an exact match from below the ceiling.



# FLEXIBLE LIGHT FOR FLEXIBLE SPACES

## Hospitality

From daytime conferences to evening weddings, USAI Connect is designed to seamlessly adapt to any environment to support changing functions and events. Color Select tunable white and Warm Glow dimming options set the appropriate mood for any occasion.



### 1. Look and Feel Amazing

USAI's Warm Glow Dimming red-rich spectrum flatters skin tones and helps to create warm, relaxing and welcoming environments.

### 2. Flexible Spaces

Multipurpose spaces need to change their look for each function. USAI Color Select offers the flexibility to choose the best white light for each event from warm to cool.

### 3. Highlighting

USAI offers a toolbox of beamspreads from narrow to wide and full adjustability to highlight and accentuate architectural features.

### 4. Dim The Lights

USAI rigorously tests and perfects dimming performance and controls compatibility to ensure smooth, flicker-free lighting at the lowest light levels to set the mood and ambiance.

# LIGHT FOR HEALTH AND WELLBEING

## Healthcare

USAI Connect provides light for a well entrained circadian system to help patients heal faster, give healthcare providers more energy and alertness and make visitors feel more comfortable.



### 1. Simulate Daylight for Healing

Patients with access to south-facing windows have a strong connection to the outdoors and heal faster. USAI Lighting Color Select simulates daylight throughout the course of the day, which has positive benefits for sleep duration, motivation, mood, behavior and healing.

### 2. Support Memory Care

The aging population's circadian rhythms are prone to disruption. USAI's Color Select provides cool light throughout the day and warm light at night to help circadian entrainment and minimize symptoms of Alzheimer's disease and dementia.

### 3. Right Light, Right Time

Meeting the lighting needs of both patient and healthcare providers is challenging. USAI's Color Select tunable white light provides the right amount of light at the right time of day to regulate circadian rhythms of the patient and support staff needs.

### 4. Sleep Better, Feel Better

Light has a profound effect on sleep, alertness and wellbeing. High levels of blue-rich light in the day and low levels of red-rich light in the evening help balance our body's melatonin and cortisol levels for a restful night's sleep.



# LIGHTING AND ARCHITECTURE CONNECT IN A NEW WAY

**INTEGRATION**  
The perfect alignment of lighting and architecture is achieved through the seamless integration of USAI® Connect™ with Armstrong® Intersection Downlighting.

**HOUSING**  
Shallow housing only 2" tall allows for maximum ceiling height and fixture placement freedom.

**DIMMING**  
Industry-leading dimming options are rigorously tested for dimming compatibility with leading architectural controls to deliver smooth and flicker-free dimming performance down to 0.1% of maximum light levels.

**MOUNTING**  
Snap-on toolless housing installation allows for seamless integration with Armstrong® Intersection Downlighting. Universal grid mounting clips allow for reliable connection to the tee grid, and optional self-tapping screws lend a seismic rating.

**LED COLOR**  
USAI Lighting's proprietary high performance LED light engines are available in Classic White light, Warm Glow® Dimming and Color Select® tunable white light.

**BEAM**  
Full family of downlight, adjustable and wallwash options with multiple beamspread distributions for uniform coverage.

**TRIM**  
Multiple roomside aesthetics with three different trim styles allow flexibility to meet any desired architectural preference.

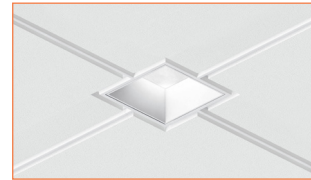
**LIFETIME**  
USAI's unique and proprietary passive heatsink design results in superior thermal management and long LED life of at least 5 years or 50,000 hours.



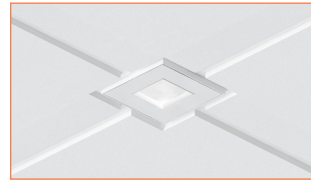
# LIGHTING CONSIDERATIONS

Simple choices refine the lighting installation, allowing full and tailored solutions for every project. USAI Connect offers sophistication and beauty with various trim styles, light functions, beamspreads, color and dimming.

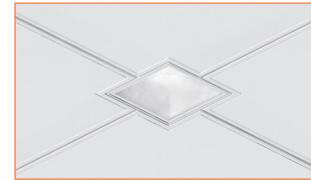
## THREE TRIM STYLES



**BeveLED® Connect™**  
Classic style regressed glass lens meets a gently sloping beveled edge.

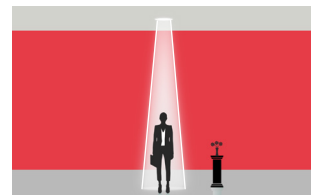


**SliverLED® Connect™**  
Quiet visual appearance delivers precise beam control from a minimal 1.75" discrete square aperture.

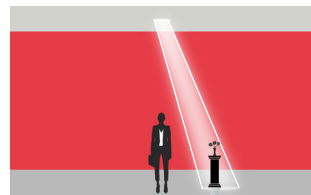


**True03™ Connect™**  
A modern glass lens aligns with the ceiling plane for a continuous surface that's easy to clean.

## THREE LIGHT FUNCTIONS



**Downlight**  
Provides general lighting for spaces with smooth, symmetric cones of light to provide even illumination.

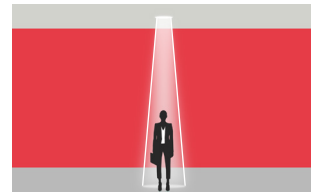


**Adjustable**  
A single beam of light can be adjusted multiple ways, placing light precisely where you need it.



**Wallwash**  
A thoughtfully placed wallwash is great for providing vertical illumination on a feature wall, highlighting art and architectural features.

## THREE BEAM OPTIONS



**Narrow Beam**  
This highly concentrated beam is ideal for providing visual contrast and highlighting objects of interest.



**Medium Beam**  
This softer, more diffused beam brightens task areas with visual comfort.



**Wide Beam**  
This expansive beam is optimal for providing general lighting with excellent uniformity.

# COLOR AND CONTROL: Personalized Lighting®

Consider the possibilities. USAI Connect offers beautiful lighting in every shade of white. Whether the design is for workplace, healthcare or hospitality environments, USAI Lighting offers the right personalized lighting solution without compromise.

## THREE LED COLOR OPTIONS



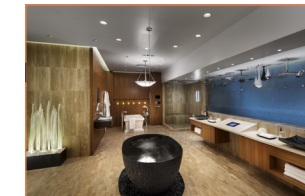
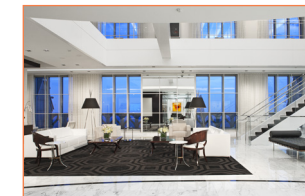
**Classic White**  
Consistent and uniform white light with an exact color match from fixture to fixture.



**Warm Glow**  
The warmth and glow of incandescent, with all of the benefits of LED.



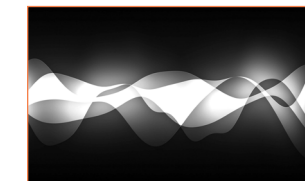
**Color Select**  
Tunable white light from daylight to candlelight with independent control of color and intensity.



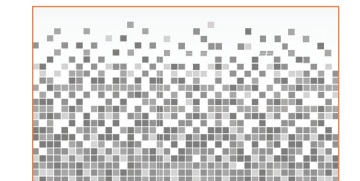
## THREE TYPES OF DIMMING



**Low Voltage Dimming**  
USAI Connect is provided with 0-10V low voltage dimming standard, which provides smooth flicker-free dimming.



**Phase Dimming**  
Simple phase dimming does not require any additional wiring to operate and is the easiest dimming solution that can be provided to achieve the lowest light levels.



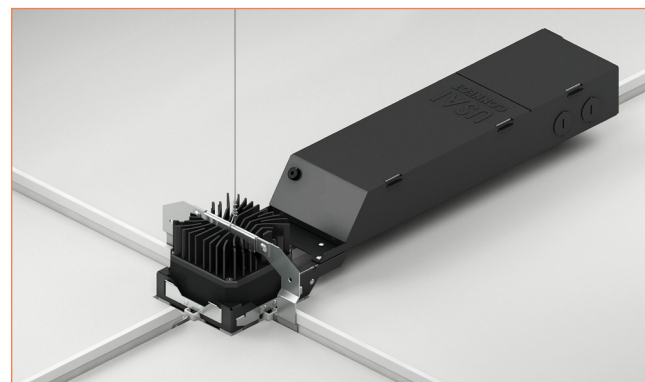
**Digital Dimming**  
DMX, DALI, and Lutron EcoSystem are all digital communication protocols that are available with USAI Connect, providing precise flexible dimming.



# LIGHTING INTEGRATION MADE EASY

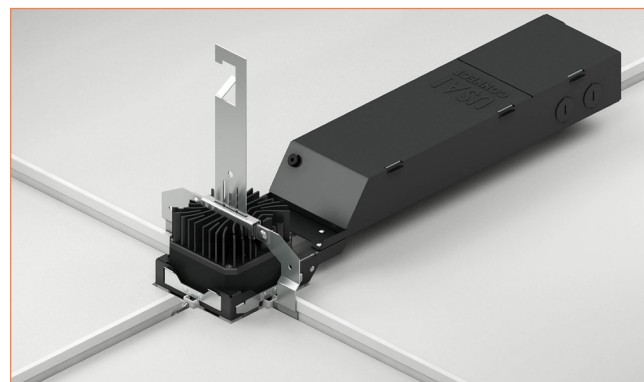
Intersection Downlighting has been precisely engineered by USAI Lighting and Armstrong Ceiling Solutions for a seamless and easy integrated solution. Simply order Connect from USAI, and order the Intersection Downlighting Kit from Armstrong Ceiling Solutions. Coordination between trades is seamless, and the installation is seismically rated with the use of self-tapping screws.

## SUPPLIED BY USAI® LIGHTING



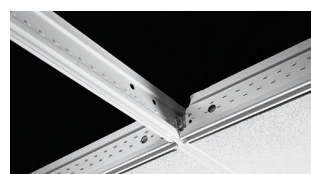
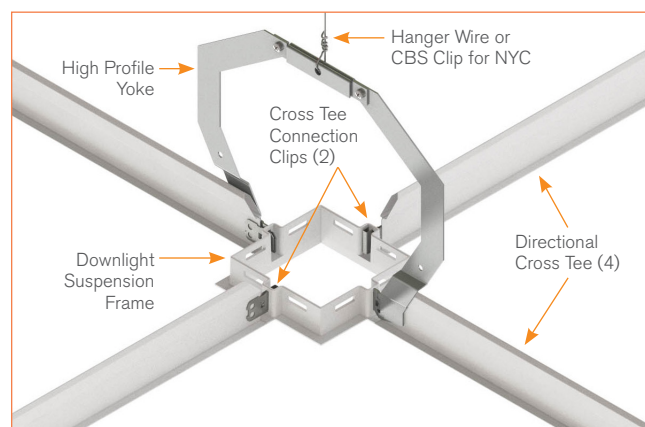
Shown with hanger wire

Each USAI® Connect™ LED light fixture is shipped complete with everything needed to install. No tools are required.

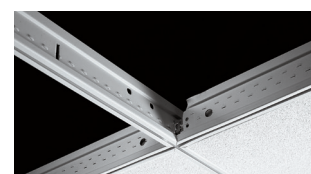


Shown with CBS hanger clip for use with black iron (NYC requirement)

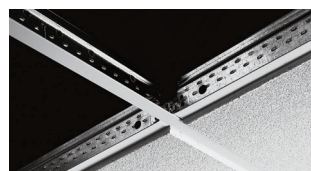
## SUPPLIED BY ARMSTRONG CEILING SOLUTIONS



Silhouette® 1/4" reveal



Silhouette® 1/8" reveal



Suprafine® XL®



Interlude® XL® HRC

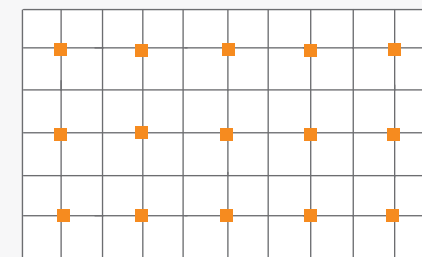
Each Intersection Downlighting kit is available from Armstrong Ceiling Solutions with the components shown above. Four grid style options are available. Ceiling tiles are factory pre-cut for easy on site coordination and installation.

# INTERSECTION DOWNLIGHTING



Lighting layouts using USAI Connect are available for every application—whether a lot of light is needed for mission-critical spaces, or lower ambient lighting levels are sufficient for circulation areas. And with streamlined coordination between trades and a simplified installation, Intersection Downlighting makes sense for projects of all kinds.

## APPLICATION LAYOUT EXAMPLES WITH BEVELED CONNECT DOWNLIGHT

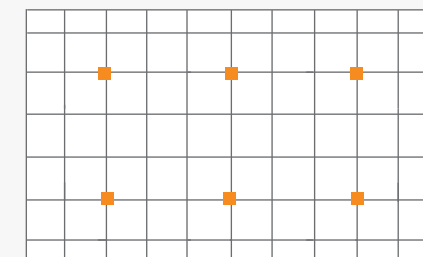


### 4' x 4' Lighting Layout

Perfect for showrooms, retail applications and examination areas.

4' X 4' Layout Light Levels (fc)

Ceiling Height	8'	10'	12'	14'
Light at 5' AFF	89	91	96	94
Light at 2.5' AFF (workplane)	97	94	93	91
Light at Floor	98	97	96	94

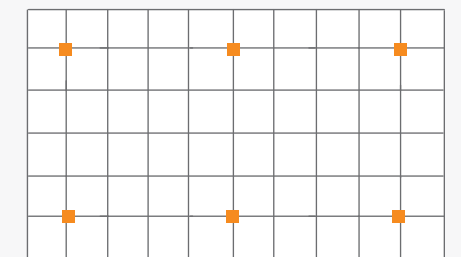


### 6' x 6' Lighting Layout

Ideal for open offices, private offices, conference rooms, meeting spaces and classrooms.

6' X 6' Layout Light Levels (fc)

Ceiling Height	8'	10'	12'	14'
Light at 5' AFF	40	40	43	42
Light at 2.5' AFF (workplane)	43	42	41	40
Light at Floor	44	43	43	42



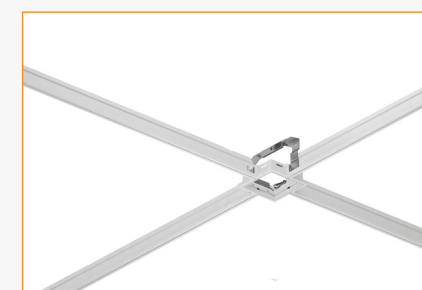
### 8' x 8' Lighting Layout

Excellent for corridors, lobbies, circulation spaces and lounge areas.

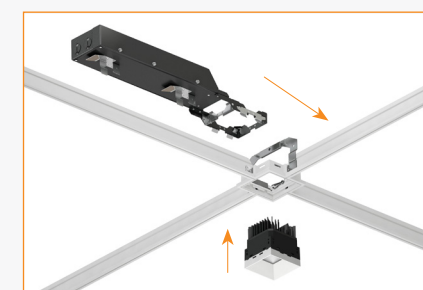
8' X 8' Layout Light Levels (fc)

Ceiling Height	8'	10'	12'	14'
Light at 5' AFF	25	25	26	25
Light at 2.5' AFF (workplane)	27	26	25	24
Light at Floor	27	26	26	25

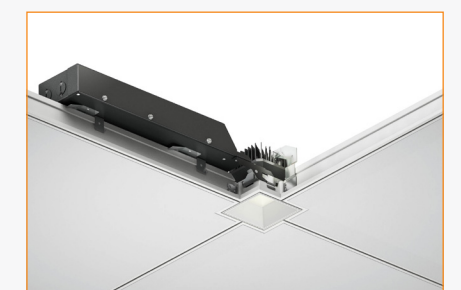
## INSTALLATION IN THREE EASY STEPS



1. Install Intersection Downlighting Kit (from Armstrong Ceiling Solutions) as part of suspended ceiling system installation.



2. USAI Connect housing snaps on to tee grid and yoke from above. Install light from below. Make electrical connection with quick connects.



3. Place ceiling tiles in grid to close up ceiling and complete installation.





## OUR FAMILY OF INTEGRATED SOLUTIONS

The USAI® Connect™ family is compatible with Armstrong® Intersection Downlighting. Please visit [usailighting.com](http://usailighting.com) for more details.



USAI® Connect™ for Armstrong® Intersection Downlighting

### PROJECT CREDITS

*Page 11, Top Left*

Camper  
Architect: Montroy Anderson Demarco  
Photo: Jesse Goff Photography

*Page 11, Top Center*

South City Kitchen  
Architect: ASD/SKY  
Photo: ©2016 Darris Lee Harris

*Page 11, Top Right*

Swedish Ballard  
Architect: ZGF Architects  
Photo: Ben Benschneider

*Page 11, Bottom Left*

Alston and Bird  
Lighting Designer: Newcomb & Boyd  
Interior Design / Architecture: Carson Guest Inc.  
Photo: Gabriel Benzur

*Page 11, Bottom Center*

Pirch  
Lighting Designer: Oculus Light Studio  
Photo: Mark Steele Photography, Inc.

*Page 11, Bottom Right*

Christie's West  
Lighting Designer: Renfro Design Group  
Architect: Selldorf Architects  
Photo: Jonathan Chesley  
Courtesy of Selldorf Architects

**USAI®**  
Lighting

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