



COOLEDGE™
Lighting Systems

LIGHT AS A BUILDING MATERIAL

Cooledge gives lighting a new role in the built environment: integral to design, unbound by fixtures and central to occupant wellness. The company sustainably transforms ceilings into light-emitting canvases that scale with ease and generate immersive, uniformly distributed illumination more closely resembling natural than artificial light while also incorporating innovative new ways to add a wide variety of accent and task lighting options. This is made possible by the industry's widest range of lighting systems, architectural acoustic luminaires and turnkey luminous ceilings that are designed to put light where it best serves people and how they feel, work, shop and interact in a space.

Cooledge products combine superior light quality with a range of next-generation technologies including sound absorption, color control and architectural aesthetics to accommodate virtually any ceiling application or budget. Our luminous ceilings and surfaces have transformed thousands of environments worldwide, including the offices, venues and retail properties of esteemed global brands.



Front Cover:
One New Oxford Street - London, UK
Architect: Orms
Lighting Design: EQ2 LIGHT

Franklin Square - Washington, DC
Architect: Hickok Cole
Lighting Designer: Patricia Kazinski, GPI Design

Lighting Sytems

TRANSFORMING LIGHT

While LEDs have improved the efficacy, control, and quality of lighting, the technology has not changed the way illumination is designed and delivered. Lighting continues to be confined to the same bulbs and metal boxes the industry has used since its inception.

Cooledge Lighting Systems reinvent the way illumination is designed and controlled.



Transforming light from points and lines to seamless integration into all forms and scale of the built environment.



Delivering immersive illumination that replicates natural light and provides the optimal platform for tailored environments.



Leveraging the pervasive nature of luminous surfaces to deliver intelligent controls that provide a range of visual, biological, and emotional benefits.



Supporting interactive and connected interfaces that can provide user control of timing, color temperature, room, or situation.



Franklin Square - Washington, DC
Architect: Hickok Cole
Lighting Designer: Patricia Kazinski, GRI Design

Designed for simple installation over large areas, Cooledge revolutionized the way luminous ceilings, walls, or features using glass, polymers, or even translucent stone for diffusion are illuminated with adaptable light sheets sold as complete systems including power, controls, and accessories in a wide range of standard light output and color temperature options.



- Flexible and cuttable for to match any shape or size
- Tunable or dynamic color options
- Interior or exterior applications
- Fully scalable constant voltage architecture simplifies power and controls
- Constant light output ensures uniform illumination even when cut
- Color consistency of typical 2 SDCM between TILES meet stringent requirements for large area installations
- High efficacy (lumens/watt) is suitable for almost any application
- Build-To-Order (BTO) option to precisely choose the right combination of light output and power



Snap Connectors: mechanical and electrical connection – makes installation simple and fast



Flexible & Light Weight: easier to handle and accommodates curves when required



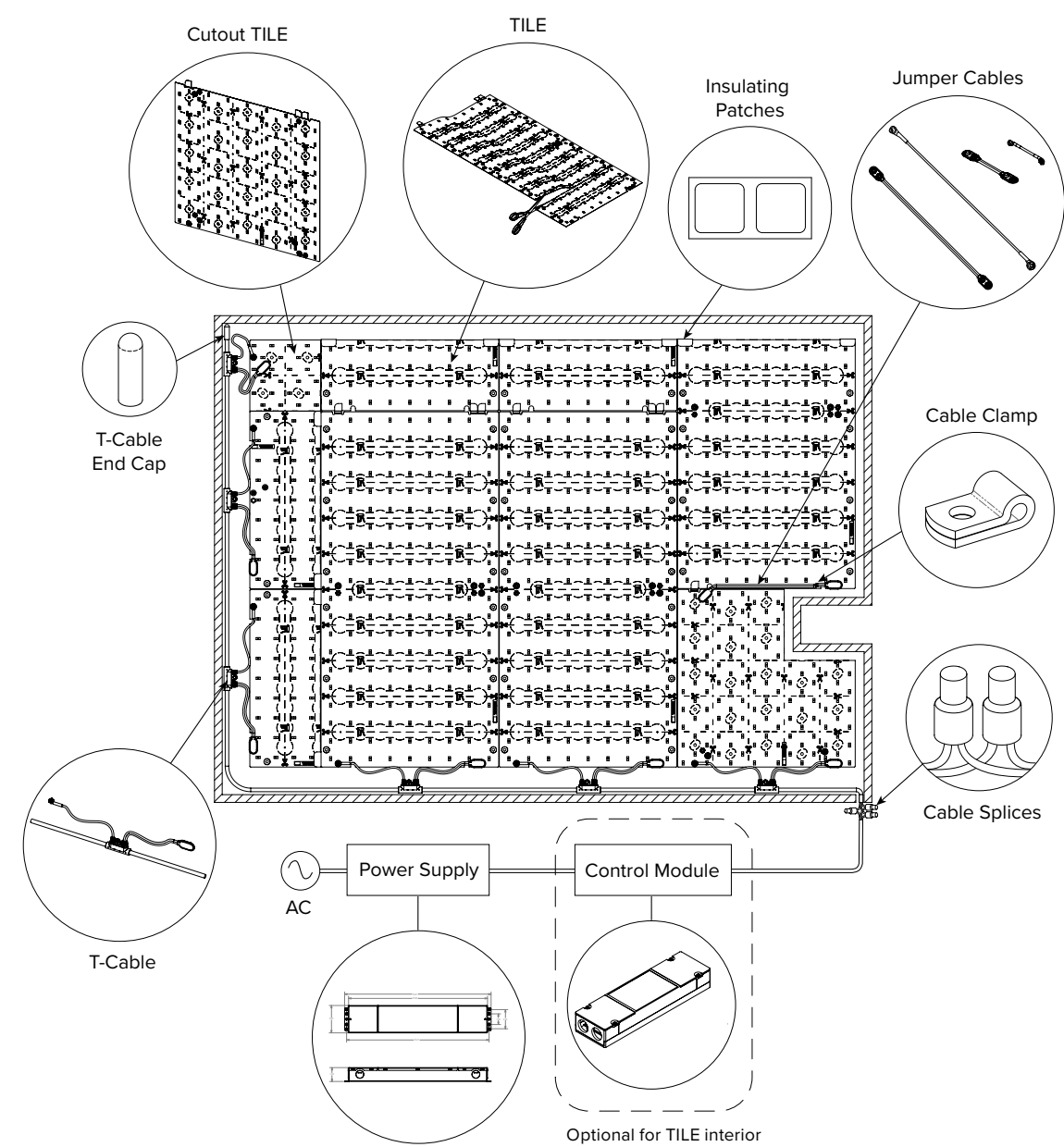
Cuttable: allows for field adjustability



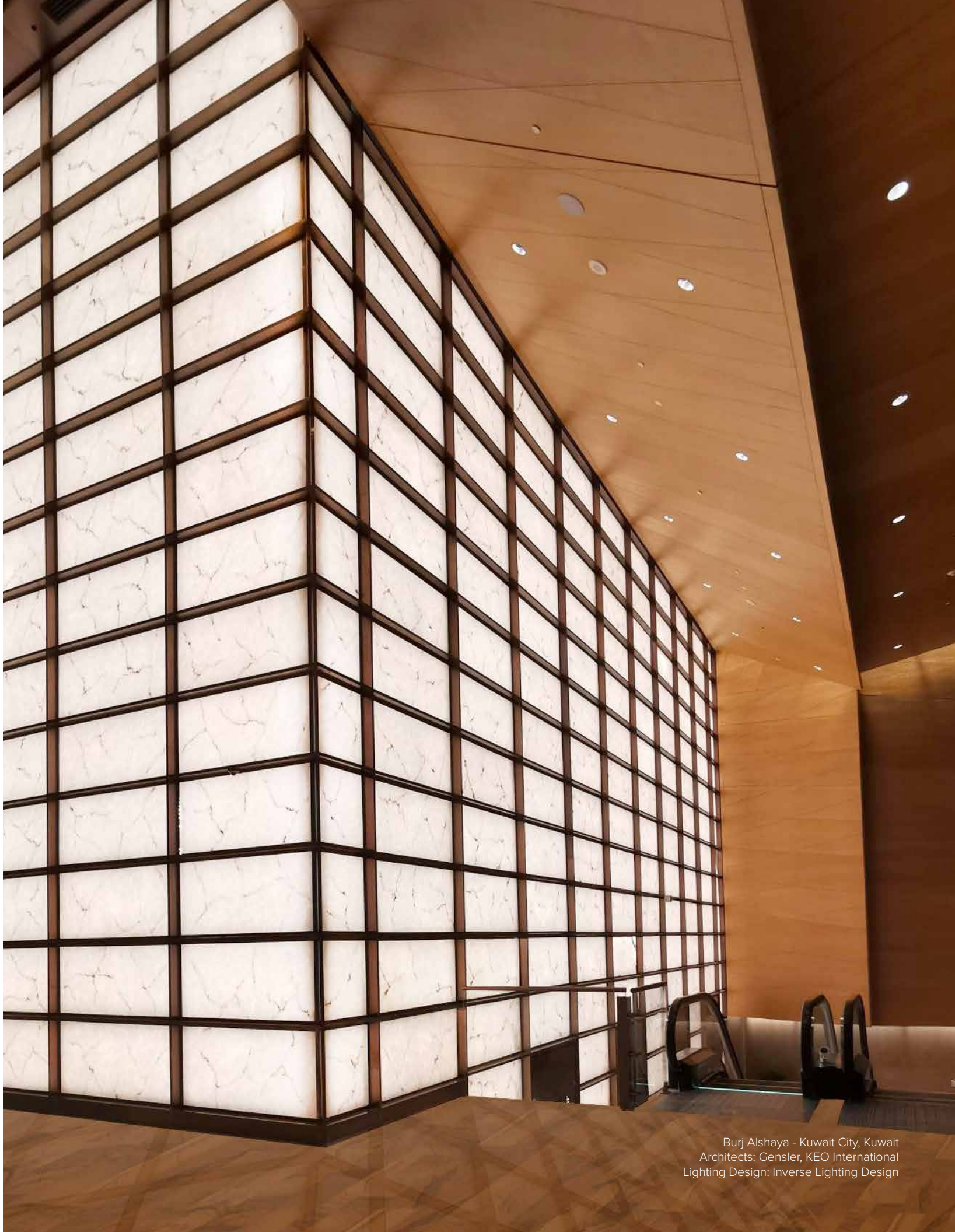
Digital: control for deep dimming, tunable white, dim-to-warm, and W+RGB is available with all standard lighting control protocols

Cooledge TILE Lighting Systems are complete systems that include all of the components required to create uniform, luminous surfaces over large areas including light sheets, power supplies, control modules, and all of the required cables and accessories.

TYPICAL COOLEDGE LIGHTING SYSTEM



- TILE Acoustic system shown.
- See specification data sheets for specific details of each TILE product



TILE Interior

CREATE

Included in
Build-To-Order
(BTO) Program

Luminous ceilings, feature walls, and large graphic displays with Cooledge TILE Interior lighting systems

Photometric Highlights

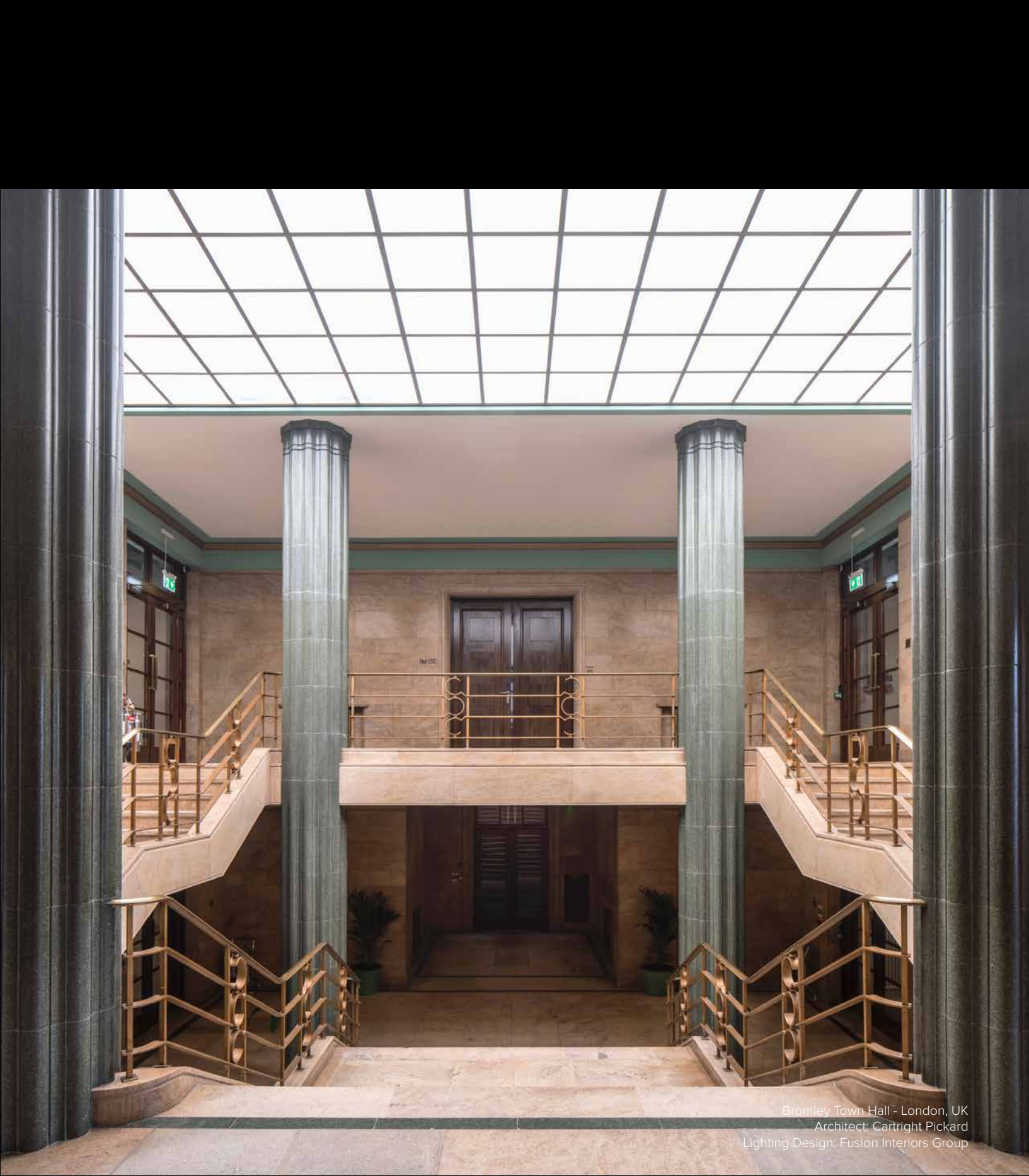
Correlated Color Temperature (CCT)	2200K, 2700K, 3000K, 3500K, 4000K, 5700K
Standard Light Output/ Luminous Flux (lm/sqft) *available for 3000K/3500K/4000K	900, 600, 300, 150, 465*, 225*, 100*
Standard Light Output/ Luminous Flux (lm/m2) *available for 3000K/3500K/4000K	9680, 6460, 3230, 1610, 5000*, 2420*, 1080*
Color Rendering Index (CRI)	>90
Color Uniformity	2 SDCM (typical)
Lumen Maintenance	L80 = 75,000 hr

General Specifications

Environment	Indoor, dry location only
Size	Standard: Nom. 12" x 24" (300mm x 600mm), Cut-out: Nom. 12" x 12" (300mm x 300mm)
Electrical Connection	Tool-less snap connectors
Mounting Surface	Non-conductive (drywall, plywood, etc) – curves possible

FEATURES

- Seven standard choices of constant lumen output ensure consistent highly calibrated illumination and precise power density control
- Color consistency of typically 2 SDCM between TILES meets stringent requirements for large area installations
- Cut-to-fit means systems are adaptable to any size installation and can accommodate obstacles and shapes
- Constant voltage electrical architecture is fully scalable without loss of performance or need to reconfigure power and controls
- Low setback distances, flexibility, and no requirement for a heat sink enable optimal integration with luminous surfaces
- Multiple options for lumen level and CCT offer the most adaptable illumination for large surface areas available



Bromley Town Hall - London, UK
Architect: Cartright Pickard
Lighting Design: Fusion Interiors Group

TILE Tunable White

REPLICATE

Included in
Build-To-Order
(BTO) Program

Photometric Highlights

Correlated Color Temperature (CCT)	Tunable White 2700K-5700K, Tunable White 2200K-3500K, Dim-To-Warm 3500K-2200K
Standard Light Output/ Luminous Flux (lm/sqft) *available for 3000K/3500K/4000K	900, 600, 300, 150, 465*, 225*, 100*
Standard Light Output/ Luminous Flux (lm/m2) *available for 3000K/3500K/4000K	9680, 6460, 3230, 1610, 5000*, 2420*, 1080*
Color Rendering Index (CRI)	>90
Color Uniformity	2 SDCM (typical)
Lumen Maintenance	L80 = 75,000 hr

General Specifications

Environment	Indoor, dry location only
Size	Standard: Nom. 12" x 24" (300mm x 600mm), Cut-out: Nom. 12" x 12" (300mm x 300mm)
Electrical Connection	Tool-less snap connectors
Mounting Surface	Non-conductive (drywall, plywood, etc) – curves possible

FEATURES

- Unique tunable white system design provides constant lumen output at all CCTs in the range 2700K-5700K or 2200K-3500K and at all dimming levels
- Dim-to-warm option provides smooth dimming to 0.10% along the CCT curve from 3500K to 2200K
- Cooledge Control Modules are available with inputs for 0-10V, DALI, DMX, and wireless (Casambi or Athena) protocols
- Uniquely suited for installations requiring high CRI such as retail and hospitality
- Cut-to-fit means systems are adaptable to any size installation and can accommodate obstacles and shapes



TILE Acoustic

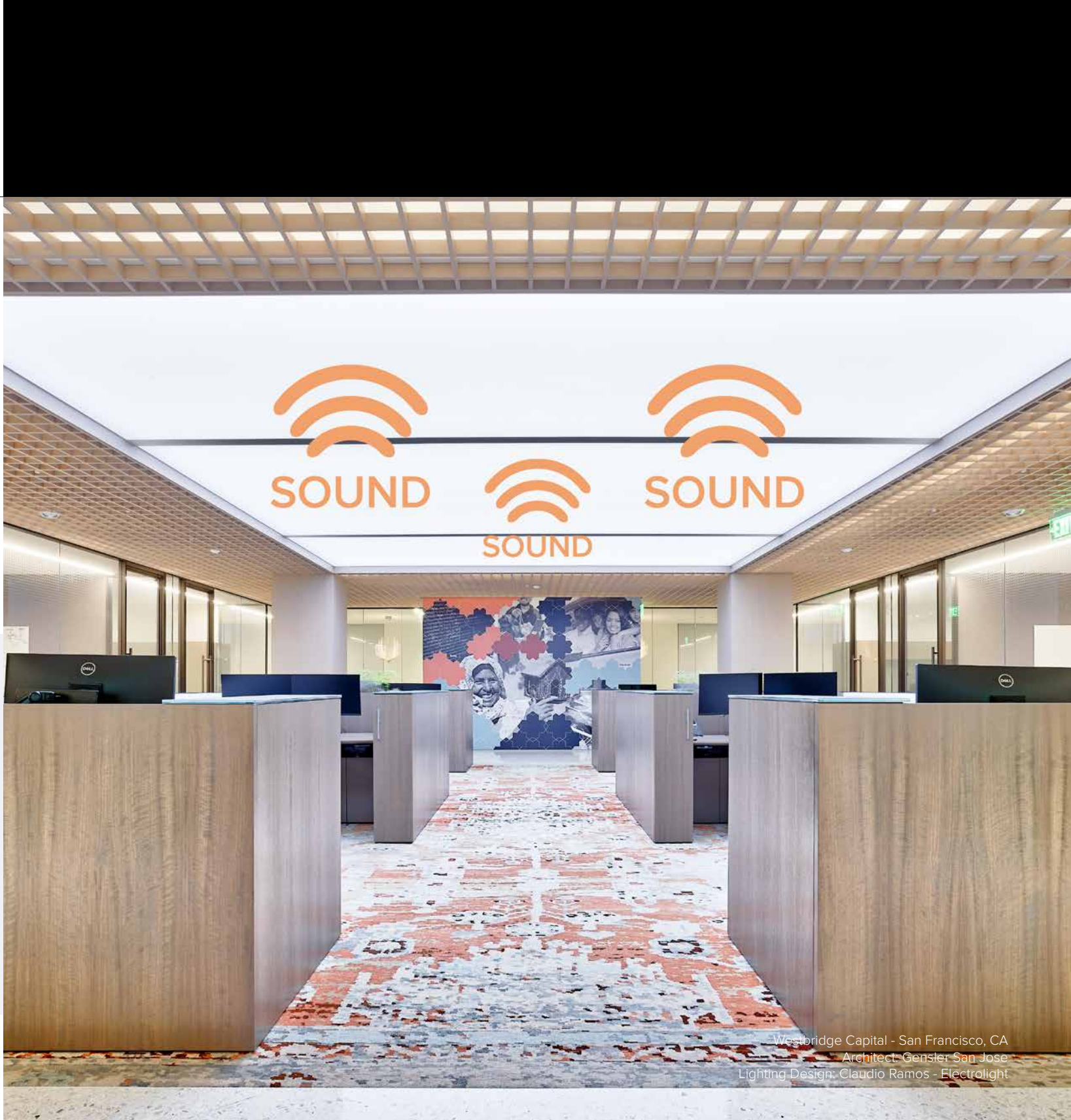
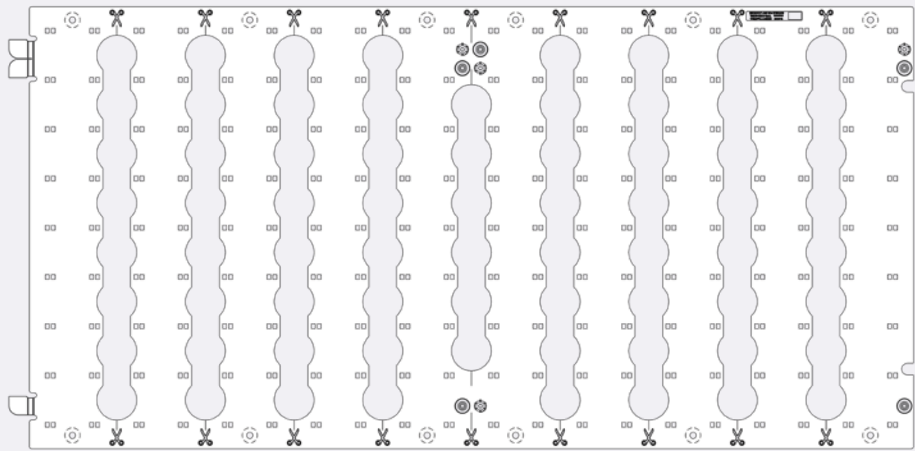
ACOUSTIC ENABLING

Included in
Build-To-Order
(BTO) Program

The Acoustic version of Cooledge TILE Interior and TILE Tunable White has all of the same high-quality performance characteristics as standard TILE products including photometric, color rendering, efficacy, and ease of installation features such as snap connectors and cut-to-fit capability.

In addition, the Acoustic version has a pattern of openings added to the TILES that have been designed to optimize the passage of sound waves to acoustic backing material without compromising lighting or mechanical performance.

TILE Acoustic is intended to be mounted to a sound absorbing substrate to form a light emitting panel with strong acoustic properties.



TILE Exterior

ILLUMINATE

Facades, canopies, entrances and large-scale graphics with Cooledge TILE Exterior lighting systems.

Photometric Highlights	
Correlated Color Temperature (CCT)	2200K, 2700K, 3000K, 3500K, 4000K, 5700K
Standard Light Output/ Luminous Flux (lm/sqft) *available for 3000K/3500K/4000K	900, 600, 300
Standard Light Output/ Luminous Flux (lm/m2) *available for 3000K/3500K/4000K	9680, 6460, 3230
Color Rendering Index (CRI)	>90
Color Uniformity	3 SDCM (typical)
Lumen Maintenance	L80 = 50,000 hr

General Specifications	
Environment	Damp Locations
Ingress Protection	IP65
Size	Standard: Nom. 12” x 24” (300mm x 600mm), Cut-out: Nom. 12” x 12” (300mm x 300mm)
Electrical Connection	Tool-less snap connectors

FEATURES

- Three choices of constant lumen output ensure consistent highly calibrated illumination
- Color consistency of typically 3 SDCM between TILES meets stringent requirements for large area installations
- Factory cutting and sealing means systems are adaptable to any size installation and can accommodate obstacles and shapes while reducing installation time and potential errors
- Constant voltage electrical architecture is fully scalable without loss of performance or need to reconfigure drivers
- Low setback distances and no requirement for a heat sink enable optimal integration with luminous surfaces



Cheval Blanc Hotel - Paris, France
Architect: Maison Edouard Francois SAS d'Architecture
Interior Design: Peter Marino
Lighting Design: Wonderfulight

TILE W+RGB

SUPERIOR WHITE + DYNAMIC COLOR

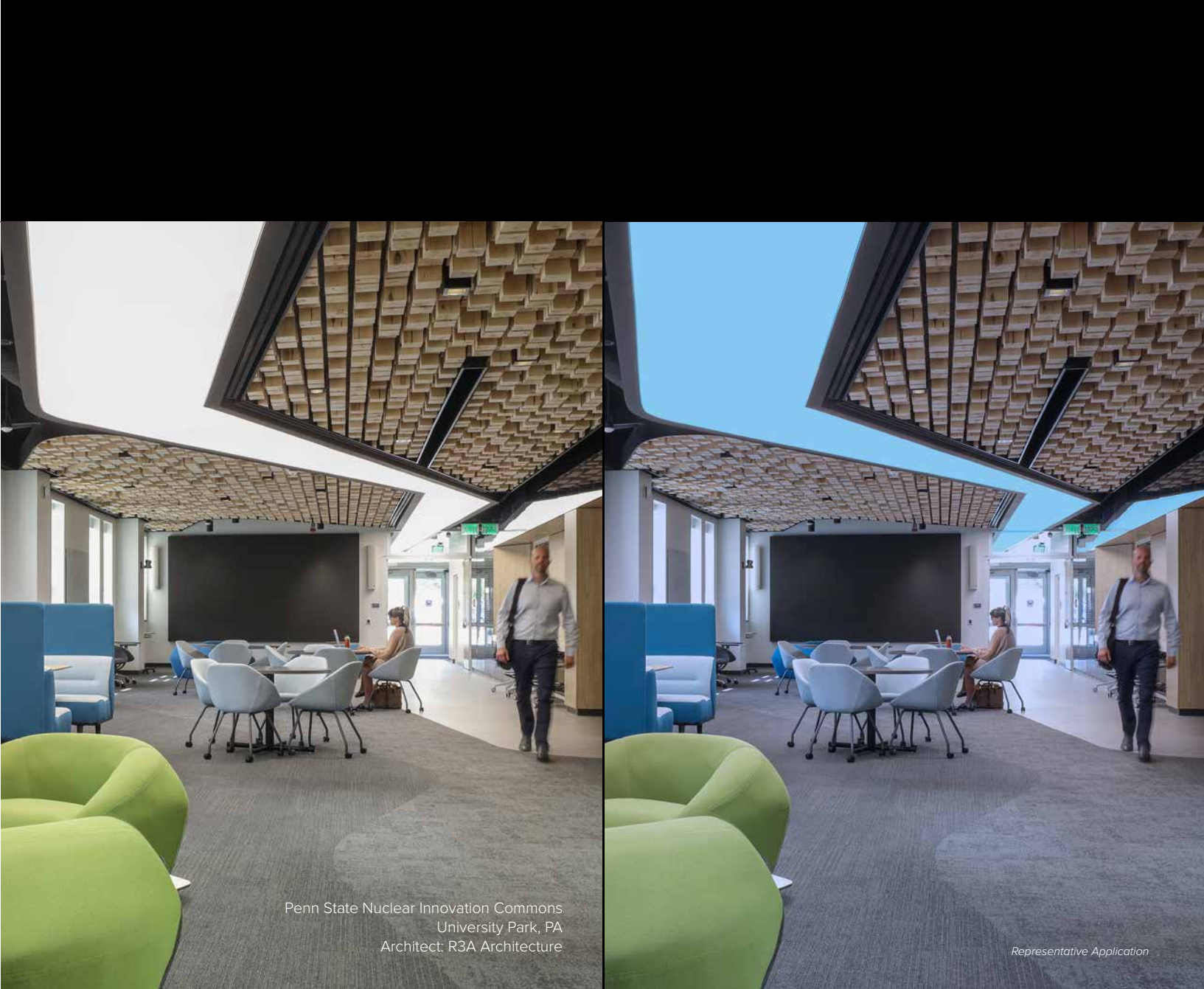
Cooledge’s TILE W+RGB combines the superior quality white light illumination we’re known for with the ability to create virtually any CCT or go full on color, whether bold and dynamic or subtle accents.

Photometric Highlights	
Correlated Color Temperature (CCT)	3500K
Standard Light Output/ Luminous Flux (lm/sqft) *available for 3000K/3500K/4000K	Red = 150, Green = 480, Blue = 110, White = 510
Standard Light Output/ Luminous Flux (lm/m²) *available for 3000K/3500K/4000K	Red = 1640, Green = 5190, Blue = 1230, White = 5490
Color Rendering Index (CRI)	>90 in the range 2700K-4000K

General Specifications	
Environment	Indoor, dry location only
Size	12” x 24” (305mm x 610mm)
Electrical Connection	Tool-less plug-in connectors
Mounting Surface	Non-conductive (drywall, plywood, etc) – curves possible

FEATURES

- Exceptional light quality for general illumination
- Enables the ability to select tunable white CCT values with superior CRI and R9 values
- Cooledge Control Modules accept DMX and Casambi (wireless) for full color control
- Cut-to-fit means systems are adaptable to any size installation and can accommodate obstacles and shapes
- Constant voltage electrical architecture is fully scalable without loss of performance or need to reconfigure drivers
- Low setback distances, flexibility, and no requirement for a heat sink enable optimal integration with luminous surfaces



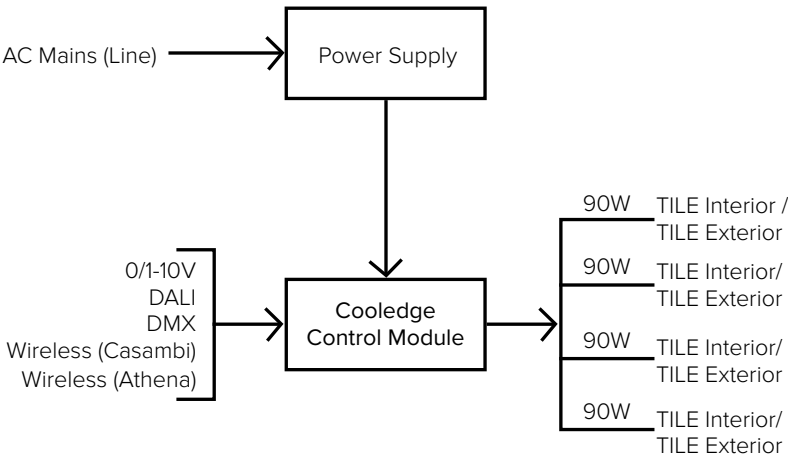
POWER & CONTROLS

THE LANGUAGES OF LIGHTING

Cooledge Lighting Systems include power and control components that are optimized for delivering backlighting on the scale of nature and compatible with primary lighting control protocols enabling deep dimming, replicating natural rhythms and changing seasons, or full dynamic color.

HOW IT WORKS

Static Color Temperature (SCT)



Highlights: Power Supplies

Rated Output Power 400W, 200W, 92W

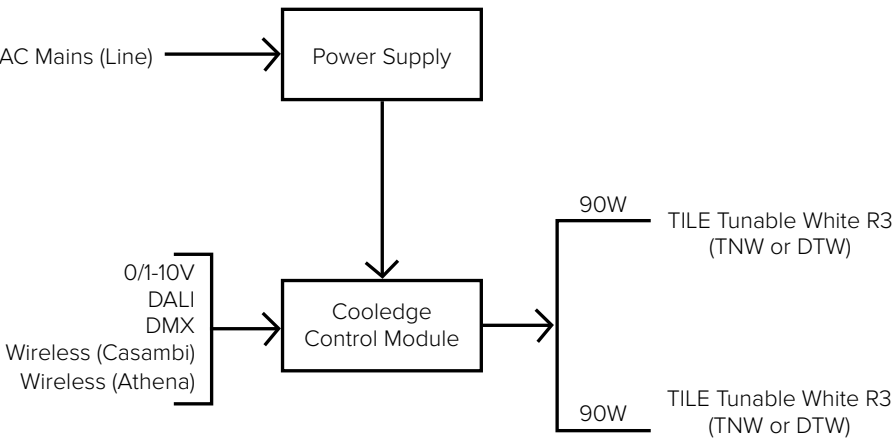
Input Voltage Range Nom. 100 – 277 VAC

Output Operating Voltage 54 VDC

Certification cUL Listed or CE Compliant

Rated Lifetime 50,000 hr

Tunable White (TNW or DTW)



Highlights: Control Modules

Rated Output Power per Channel 90W

Channels 4

Control Protocols 0-10V, DALI, DMX, Casambi (wireless), Athena (wireless)

Operating Frequency 3000Hz

Certification cUL Listed or CE Compliant

Rated Lifetime 70,000 hr



Fort Worth Municipal ("Dickies") Arena - Fort Worth, TX
Architect: David M. Schwarz Architects
Lighting Design: Lam Partners



555 California- San Francisco, CA
Architect/Interior Design: Huntsman Architectural Group
Lighting Design: Melinda Morrison Lighting

BUILD-TO-ORDER (BTO)

THE ULTIMATE POWER MOVE

Standard TILE Interior light output options offer considerable flexibility to meet illuminance requirements while ensuring compliance with energy codes. However, there may be circumstances where the option of selecting a more precise flux/power combination is required.

Cooledge offers a “Build-To-Order” (BTO) program to allow you to choose a non-standard flux/power combination that enables the lowest power density possible and still meets the required illumination levels of your design.

EXAMPLE LUMINOUS FLUX VS POWER

Flux (lm/sqft)	2200K	2700K	3000K	3500K	4000K	5700K	Flux (lm/sqft)	2200K	2700K	3000K	3500K	4000K	5700K
100	0.8	0.7	Standard			0.7	650	5.5	5.0	4.6	4.5	4.5	4.5
125	1.0	0.9	0.9	0.8	0.9	0.9	675	5.7	5.2	4.8	4.6	4.7	4.7
150	Standard						700	5.9	5.4	5.0	4.8	4.8	4.9
175	1.4	1.3	1.3	1.2	1.2	1.2	725	6.2	5.6	5.2	5.0	5.0	5.0
200	1.6	1.5	1.5	1.4	1.4	1.4	750	6.4	5.8	5.4	5.2	5.2	5.2
225	1.9	1.7	Standard			1.6	775	6.6	6.0	5.5	5.3	5.4	5.4
250	2.1	1.9	1.8	1.7	1.7	1.7	800	6.8	6.2	5.7	5.5	5.5	5.6
275	2.3	2.1	2.0	1.9	1.9	1.9	825	7.0	6.4	5.9	5.7	5.7	5.7
300	Standard						850	7.2	6.6	6.1	5.8	5.9	5.9
325	2.7	2.5	2.3	2.2	2.3	2.3	875	7.5	6.7	6.2	6.0	6.0	6.1
350	2.9	2.7	2.5	2.4	2.4	2.4	900	Standard					
375	3.1	2.9	2.7	2.6	2.6	2.6	925	7.9	7.1	6.6	6.4	6.4	6.4
400	3.4	3.1	2.9	2.7	2.8	2.8	950	8.1	7.3	6.8	6.5	6.6	6.6
425	3.6	3.3	3.0	2.9	2.9	3.0	975	8.3	7.5	6.9	6.7	6.7	6.8
450	3.8	3.5	3.2	3.1	3.1	3.1	1000	8.5	7.7	7.1	6.9	6.9	7.0
465	3.9	3.6	Standard			3.2	1025	8.8	7.9	7.3	7.0	7.1	7.1
500	4.2	3.8	3.6	3.4	3.5	3.5	1050	9.0	8.1	7.5	7.2	7.2	7.3
525	4.4	4.0	3.8	3.6	3.6	3.6	1075	9.2	8.3	7.7	7.4	7.4	7.5
550	4.7	4.2	3.9	3.8	3.8	3.8	1100	9.4	8.5	7.8	7.6	7.6	7.7
575	4.9	4.4	4.1	3.9	4.0	4.0	1125	9.6	8.7	8.0	7.7	7.8	7.8
600	Standard						1150	9.8	8.9	8.2	7.9	7.9	8.0
625	5.3	4.8	4.5	4.3	4.3	4.3	1175	10.0	9.1	8.4	8.1	8.1	8.2

OUR COMMITMENT TO SUSTAINABILITY

AN ESTABLISHED LEADER

Over the past several years, Cooledge has established itself as a leader in sustainability and corporate social responsibility (CSR), consistently ranking near the top our industry as assessed by an independent 3rd party monitoring platform: Ecovadis.

Ecovadis has rated more than 150,000 companies in over 185 countries and 250 industries. Based on 21 individual criteria, the rating assesses a company’s performance in four categories: Environment, Labour & Human Rights, Ethics, and Sustainable Procurement.



“Sustainability has become a critical element of operating a responsible business and adds tremendous value to our brand equity. It has grown substantially in importance for our customers and has become a key value enhancer to our already substantial competitive advantage.”

- William J. Sims, Cooledge CEO.

SOME IMPORTANT MILESTONES

- In 2023, Cooledge achieved operational carbon neutrality – 2 years early – for Scope 1 & 2 GHG emissions.
- In 2025, Cooledge added a fully bio-degradable diffuser option to its luminous ceiling products.

OTHER HIGHLIGHTS

- The primary components of the company’s product portfolio are recyclable.
- The company has completed more than 20 Sustainability initiatives with a focus on the Environment category.
- Company management has completed a Climate Fresk – a climate awareness workshop that raises awareness of the complexity of climate change and identifies ways to improve the company’s performance.



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