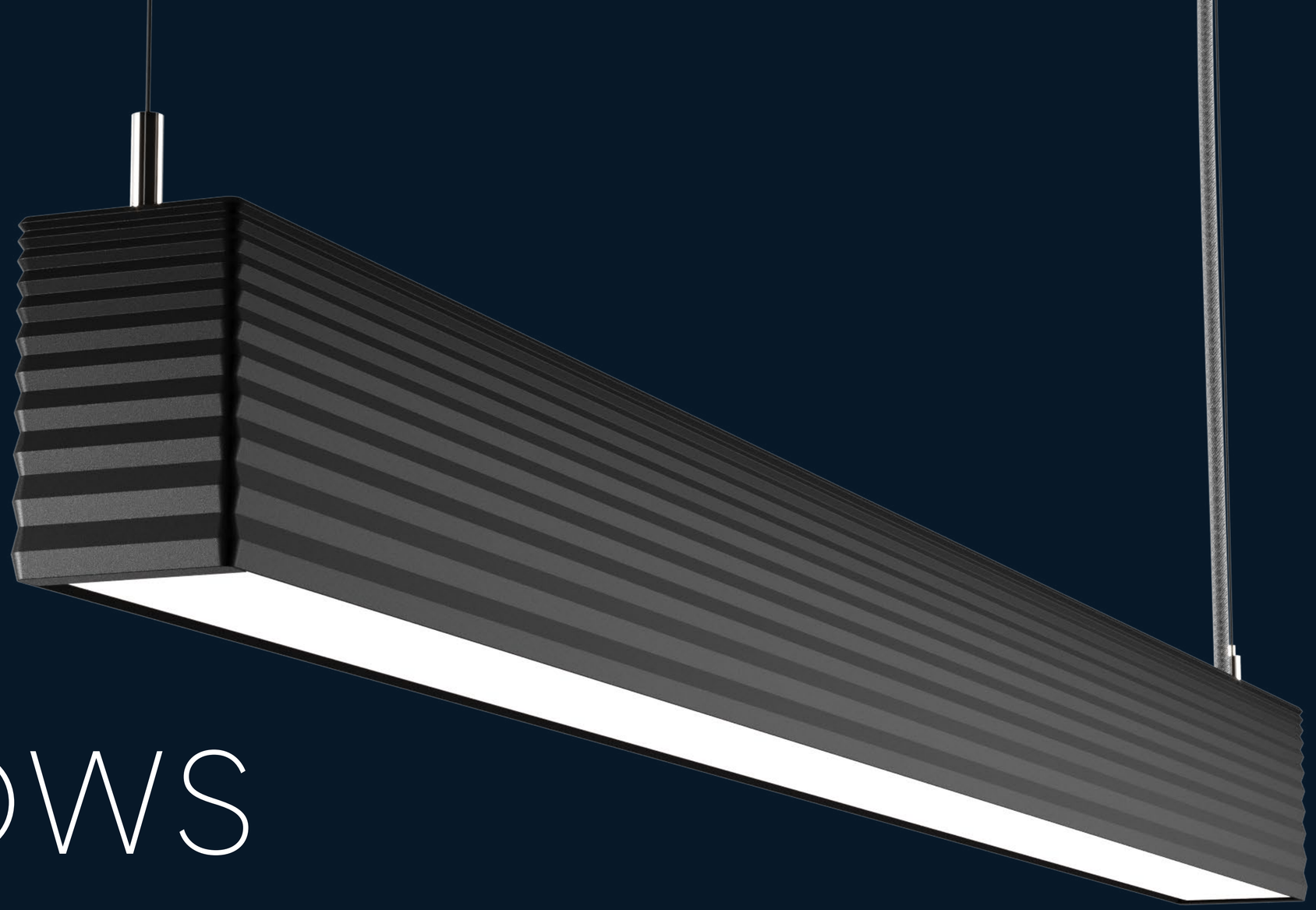


BELLOWS

BELLOWS LINEAR™
BELLOWS SYSTEMS™
BELLOWS RING™
BELLOWS SHAPES™

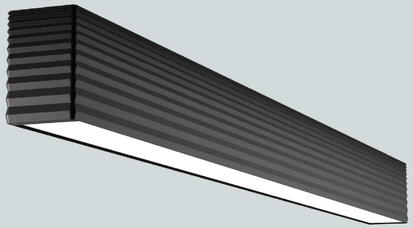
BELLOWS

INTRODUCTION

BELLOWS takes the standard linear system in a new direction, its sculptural pleated form introducing rhythm, depth, and character to the ceiling plane. Inspired by the ridged profile of fireplace bellows, this 2.5" aperture luminaire combines bold architectural presence with the reliable performance of a proven workhorse. Across the linear version, Shapes, and Rings, a diffused lens delivers smooth, uniform illumination, while Diffused, Batwing, and Asymmetric distributions support a broad range of lighting applications. With multiple lumen packages, high-efficacy performance, BIOS integration for circadian support, and 13 distinctive finishes, BELLOWS brings together technical precision and a refined, tactile design language in one expressive architectural luminaire. The added option of choosing beautiful closed-loop shapes, specifically triangles, hexagons, quads and rings, ensures this luminaire can be used as an ideal centerpiece for smaller spaces, as well as an integral part of larger ones.

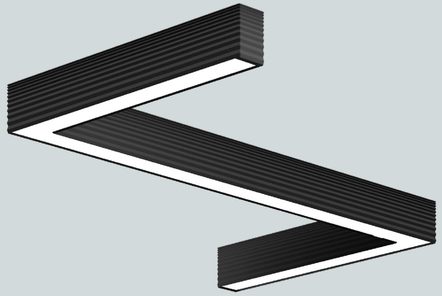


BELLOWS
VARIANTS



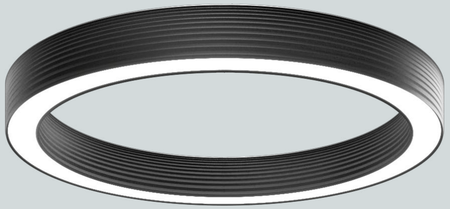
BELLOWS LINEAR

Pendant Surface Mount



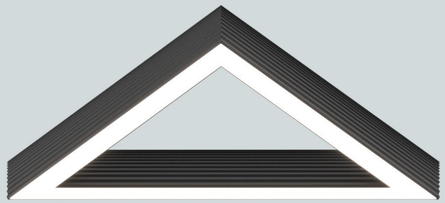
BELLOWS SYSTEMS

Pendant Surface Mount



BELLOWS RING

Pendant Surface Mount



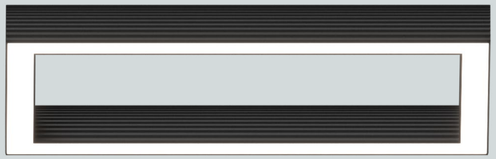
BELLOWS TRIANGLE

Pendant Surface Mount



BELLOWS HEXAGON

Pendant Surface Mount



BELLOWS QUAD

Pendant Surface Mount



FEATURES

PRECISION LIGHT DISTRIBUTIONS

Seven precision optics tailor light to any space. Direct distributions include Diffused for soft, general-purpose illumination, Widespread for broad downward coverage with fewer luminaires, and Asymmetric for crisp accenting of displays, walkways, and feature walls. Indirect distributions include Diffused, 120° Batwing, and 160° Extra-Wide Batwing for glare-free ambient light, plus Asymmetric for indirect wall washing.

FLEXIBLE LUMEN PACKAGES

With multiple options ranging from 200 to 1400 LM/FT for direct and 200 to 1650 LM/FT for indirect lighting, you can find the perfect light intensity for any setting. This flexibility allows for precise light planning, ensuring optimal illumination levels for different environments, from cozy, ambient spaces to brightly lit areas requiring high visibility.

HIGH-EFFICIENCY ILLUMINATION

Benefit from exceptional lumen efficacy of 153 LPW for powerful and energy-efficient lighting. This high efficiency ensures that spaces are brightly illuminated while minimizing energy consumption, making it an environmentally friendly and cost-effective choice for large-scale projects.

CIRCADIAN SYNCING

For a truly holistic environment, consider BIOS technology. This innovative system dynamically adjusts the light spectrum throughout the day, replicating natural daylight patterns. This fosters a healthy circadian rhythm in occupants, a scientifically proven approach to enhancing cognitive function, sleep quality, and overall well-being within the space.



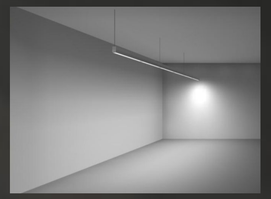
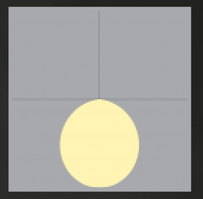
BELLOWS LINEAR

BELLOWS Linear combines high-performance optics with a striking, industrial-pleated aesthetic. Engineered for open-plan offices and conference rooms, it delivers up to 153 LPW through Diffused, Widespread, Batwing, Extra-Wide Batwing, or Asymmetric distributions to ensure glare-free, optimized illumination. Its unique textured finish adds architectural depth while maintaining the functional versatility needed for diverse, high-ceiling environments.

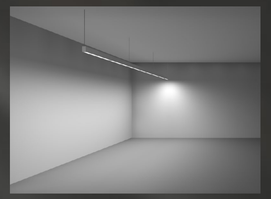
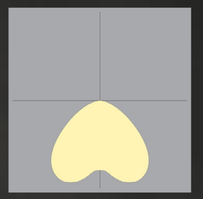
L I N E A R

OPTICS

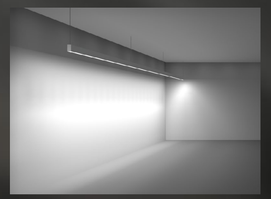
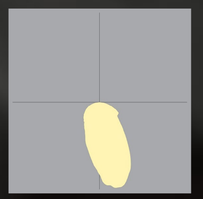
Direct

Diffused
Provides soft, uniform light, reduces glare, and is ideal for spaces requiring consistent, comfortable illumination. Direct lighting spreads light evenly, minimizing glare and enhancing ambient brightness, perfect for creating a welcoming atmosphere.

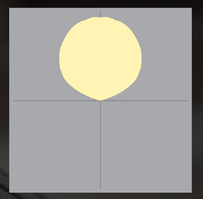



Widespread (Linear, Systems and Quad)
Featuring a wider direct beam angle of 105°, this optic maximizes downward light distribution to cover more surface area with fewer luminaires. It brings strong, even illumination to tasks and workspaces.

Asymmetric (Linear, Systems and Quad)
The direct asymmetric lens channels illumination at a distinct angle, bringing textures and architectural details into sharp focus. It offers crisp, localized lighting effects alongside a highly uniform lateral light spread, making it the premier choice for highlighting displays, defining walkways, and creating vibrant feature walls.

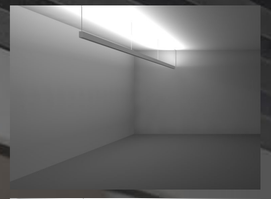
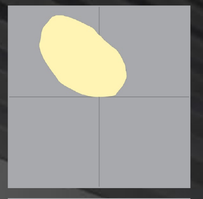
Indirect

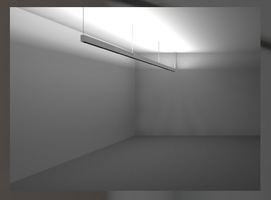
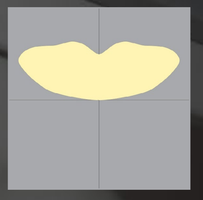
Diffused
The opal lens for indirect lighting ensures smooth and even light distribution, reducing ceiling glare and enhancing ambient brightness. Perfect for creating a welcoming atmosphere with gentle, reflected light.




Batwing (Not available for Ring)
Delivers a 120° beam, distributing light upward toward the ceiling and reflecting it back into the space. This creates balanced, glare-free ambient lighting, ideal for classrooms, offices, and workspaces.

Asymmetric (Linear, Systems and Quad)
The asymmetric optic for indirect lighting directs light at an angle, enhancing wall surfaces and creating a sense of spaciousness. It provides dynamic lighting effects with balanced light spread. Ideal for indirect wall washing and enhancing architectural elements.

Extra-Wide Batwing (Not available for Ring)
With an even wider beam angle of 160°, this optic distributes light further across the ceiling to reflect it evenly back down into the space. Because each luminaire spreads light so broadly, fewer luminaires are needed to cover the same area, allowing for wider on-center spacing and a leaner, more efficient layout.



BELLOWS

BELLOWS enhances the clean lines of modern classrooms, offices, and meeting rooms, using its distinct pleated texture to provide focused illumination that defines each professional zone. This geometric arrangement complements minimalist commercial interiors, creating a harmonious blend of architectural depth and functional light that boosts both form and function.


DIRECTORY

SYSTEMS

A seamless architectural system designed to articulate space with clean, uninterrupted light across corridors, open plans, and modern interiors. Supporting continuous runs as well as T and X configurations, the system adapts naturally to the demands of the space. Close the loop with a quad configuration for a striking geometric form, or keep runs open. The layout is yours to define.



Unstoppable Light

BELLOWS delivers continuous lighting built on a trifecta of innovations designed to ensure seamless, high-performance light across any professional environment.



SEAMLESS JOINTS

The core of BELLOWS' uninterrupted illumination is a simple connection mechanism ensuring a flawless joint. This purpose-built connector guarantees perfect alignment and secure housing transitions, eliminating light leaks and ensuring a consistent, gap-free glow throughout extended runs.



PRECISION-CRAFTED CORNERS

Precisely engineered corners maintain the distinct pleated aesthetic while creating a sleek, continuous form. This streamlined design ensures architectural unity across classrooms and meeting rooms, allowing the textured profile to integrate into the space without visual disruption.

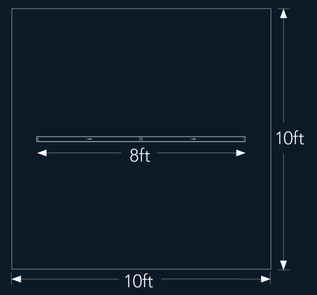
BELLOWS



Connected Versatility

BELLOWS luminaires offer a seamless, adaptable solution for integration with compatible wireless control systems, including Cooper WaveLinx PRO, Legrand Wattstopper / Wattstopper PLUS, and Lutron. This provides the power of choice and intelligent, high-performance lighting control tailored specifically to the requirements of your commercial or educational project.

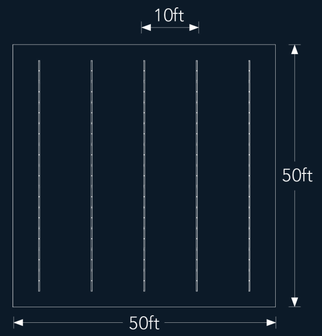
USE CASE SCENARIOS



SINGLE OFFICE SPACE

Suspended diffused 2.5" option with 400 lm/ft direct and 200 lm/ft indirect

Room size:	10' x 10'	Workplane 30" above finished floor (fc level):	32
Ceiling height:	10'	Ceiling uniformity maximum to minimum:	3.2:1
Luminaire mounting height:	8'5"	UGR average:	<12
Reflectances:	80/50/20	Watt per sq ft:	0.35
Light loss factor:	1.0		



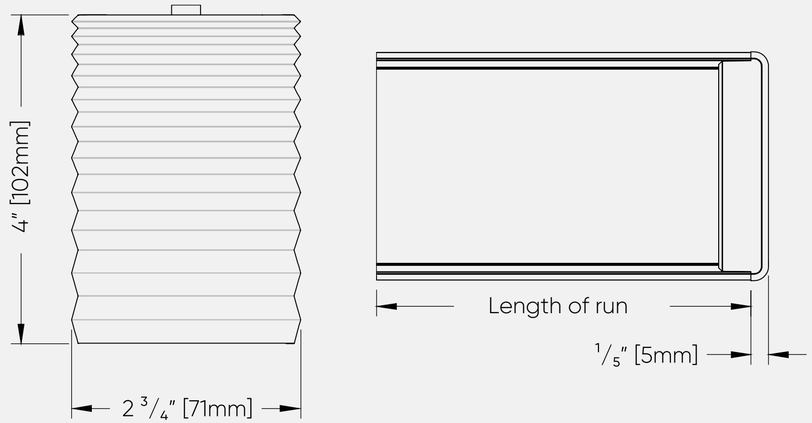
OPEN PLAN OFFICE SPACE

Ceiling diffused 2.5" option with 400 lm/ft

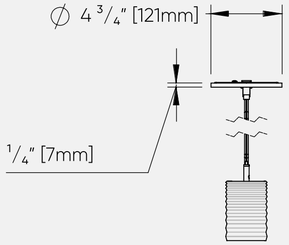
Room size:	50' x 50'	Workplane 30" above finished floor (fc level):	42
Ceiling height:	9'	Workplane uniformity maximum to minimum:	1.2:1
Reflectances:	80/50/20	Watt per sq ft:	0.27
Light loss factor:	1.0		

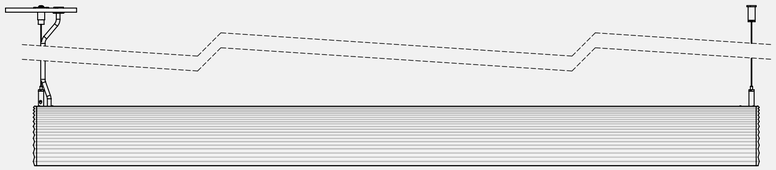
DIMENSIONS

BELLOWS Linear can be configured as a continuous run up to 50ft on a single circuit. Start with a minimum length of 4ft and add increments of 2ft. For 1 inch increments, consult factory.



PENDANT

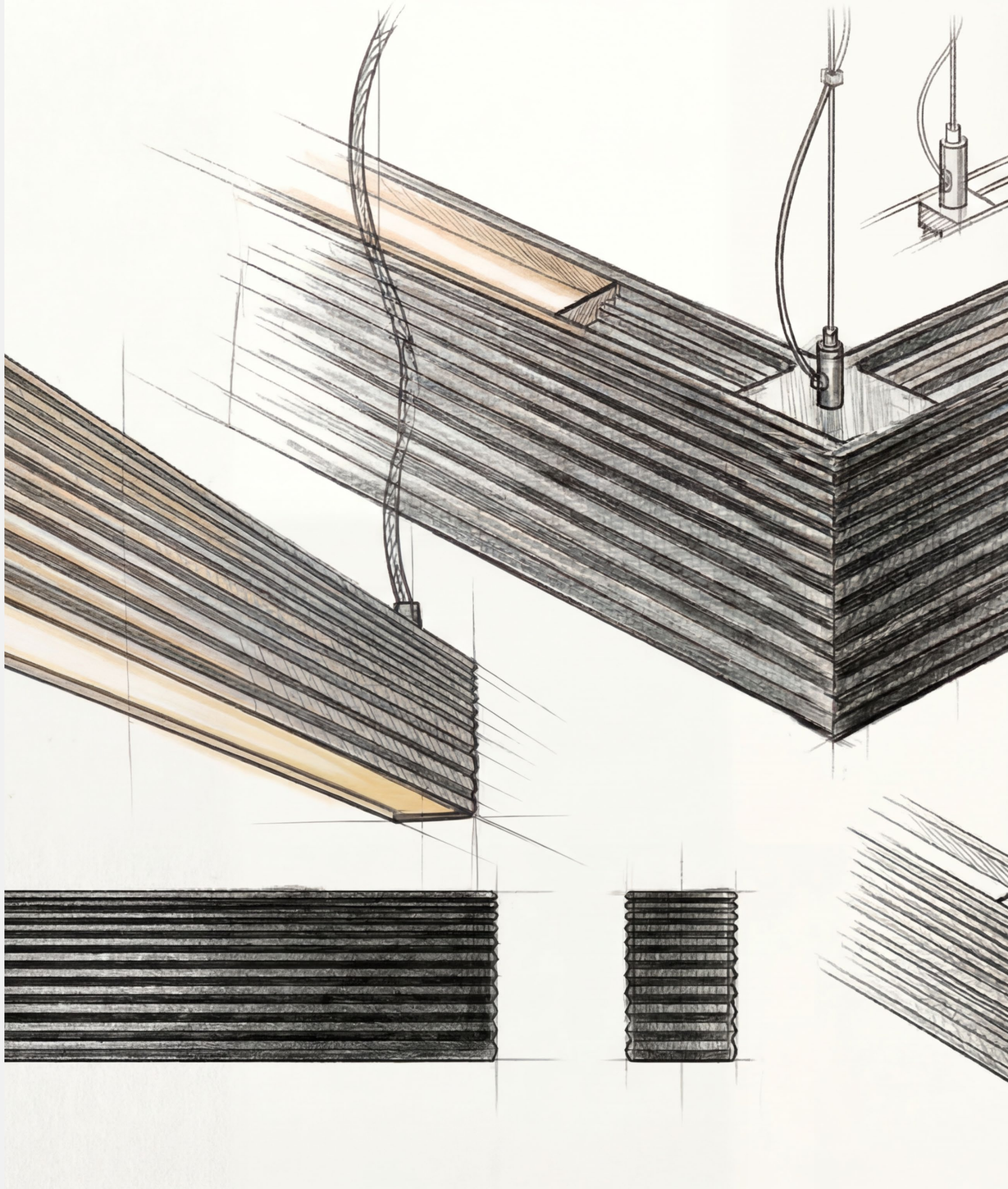




SURFACE









BELLOWS RING

BELLOWS RING further enhances the aesthetic of your space with its stunning sculptural form, introducing rhythm, depth, and character to the ceiling plane. This striking luminaire is engineered for performance, delivering up to 153 LPW of diffused illumination to ensure glare-free, optimized illumination across multiple applications. Functional versatility and architectural depth are merged in this unique textured finish, proving to be an ideal addition for diverse ceiling structures.

RING

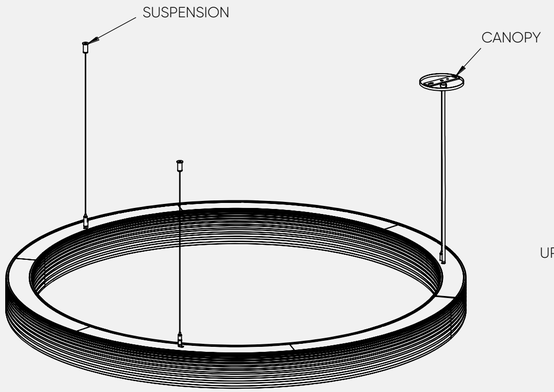


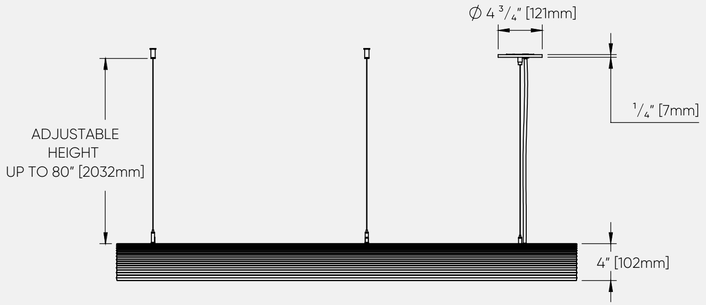
BELLOWS RING

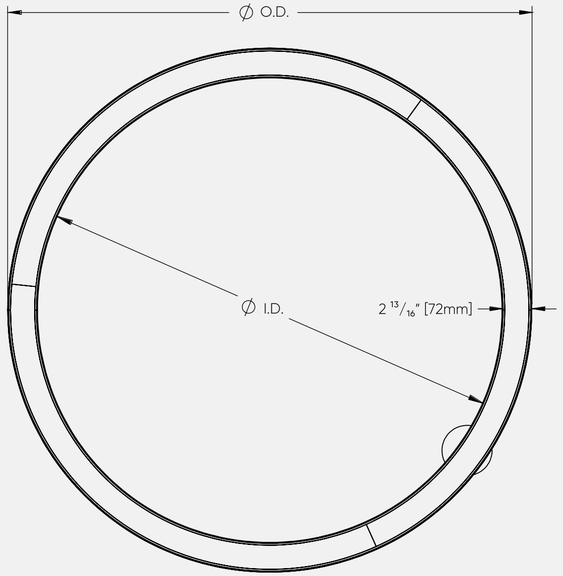
A modification on the standard ring, BELLOWS RING adds a structurally pleated exterior, making it a stunning centerpiece for your space. This fixture combines a refined design with exceptional functionality.

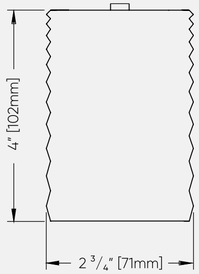
DIMENSIONS

The Bellows Ring is offered in six sizes, spanning 2 feet to 7 feet in diameter.

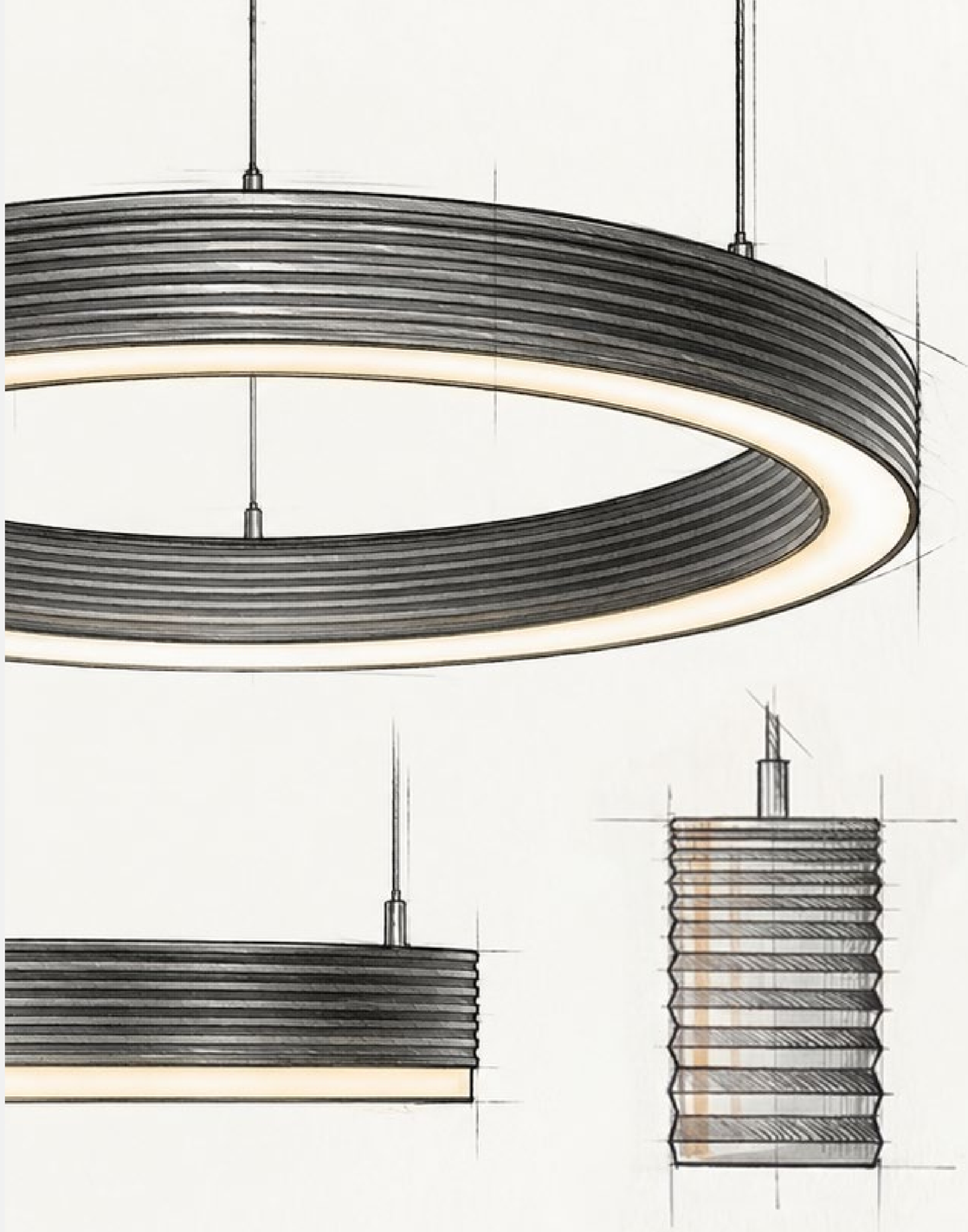








BELLOWS RING DIMENSIONS			
Nominal Size	∅ O.D. (Actual Outer Diameter)	∅ I.D. (Actual Inner Diameter)	Number of Suspensions
2FT	26 1/2" [673mm]	20 3/4" [528mm]	3
3FT	37 7/8" [962mm]	32 1/4" [819mm]	3
4FT	49 13/16" [1265mm]	44 3/16" [1122mm]	3
5FT	61 7/8" [1572mm]	56 3/16" [1427mm]	3
6FT	73 7/8" [1877mm]	68 3/16" [1732mm]	3
7FT	85 3/4" [2179mm]	80 1/16" [2033mm]	6





BELLOWS SHAPES

BELLOWS SHAPES takes the standard BELLOWS linear system, with its iconic sculptural pleated form, and closes the loop with the beautifully aesthetic form of triangles, and hexagons. These stunning fixtures introduce rhythm, depth, and character to the ceiling plane while proving to be ideal centerpieces for your space. Engineered for all environments, it delivers up to 153 LPW through Diffused, Batwing, or Extra-Wide Batwing distributions to ensure high performance illumination.



BELLOWS TRIANGLE

The dynamic and energetic triangle shape adds a profound sense of style that integrates beautifully with the architectural elements of the space.



BELLOWS HEXAGON

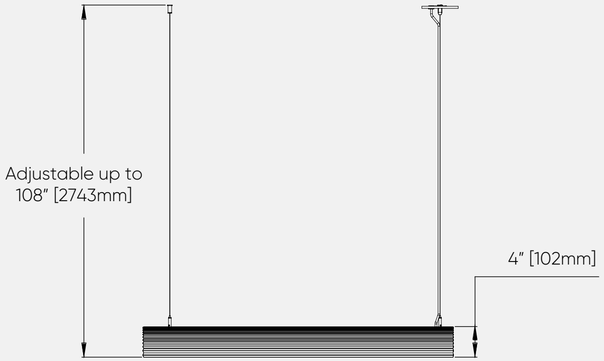
The hexagonal shape introduces a serene visual element with pristine balance that evokes a feeling of harmony in the space.

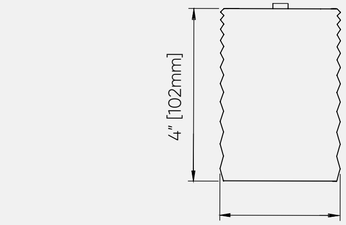


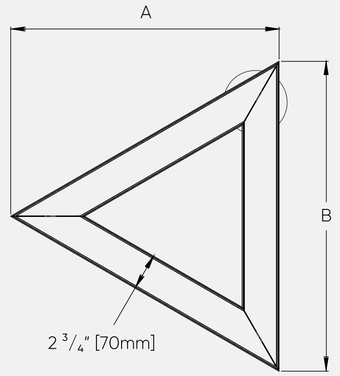
DIMENSIONS

The Bellows Triangle is offered in five sizes, spanning 2 feet to 6 feet in length,
while the Bellows Hexagon comes in 4 sizes ranging from 4 feet to 7 feet in length.

FRONT VIEW



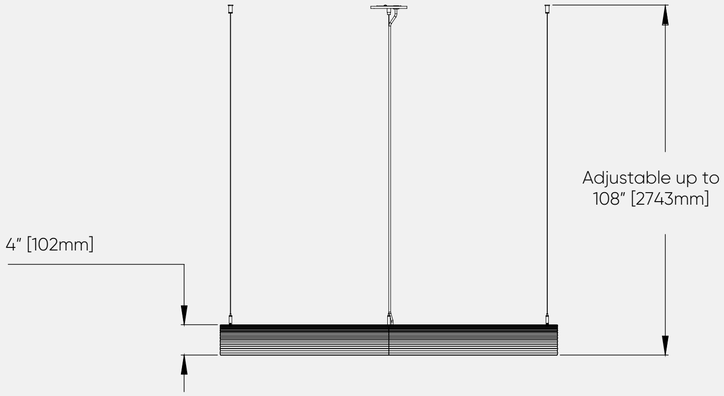


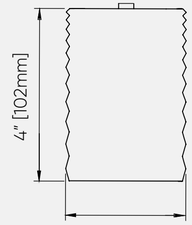


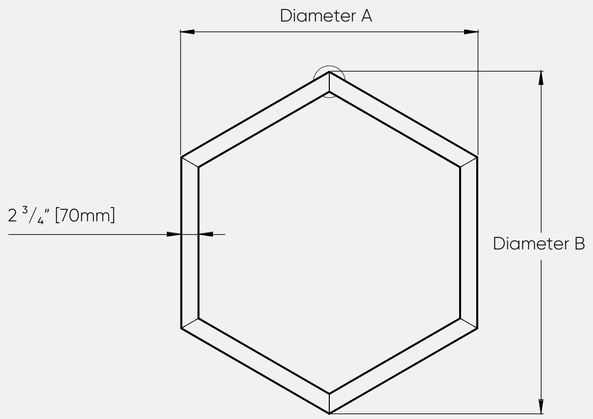
3 SUSPENSION POINTS

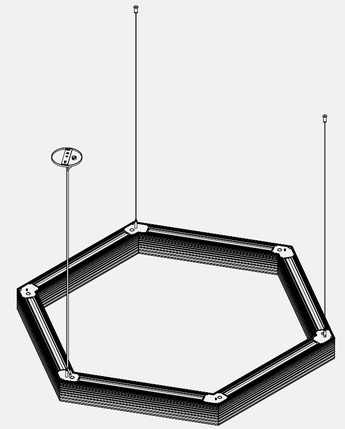
SIZE	DIMENSION A	DIMENSION B
2FT	20 1/8" [511mm]	23 1/4" [591mm]
3FT	29 7/8" [759mm]	34 1/2" [876mm]
4FT	40 3/4" [1035mm]	47" [1194mm]
5FT	51 1/8" [1299mm]	59" [1499mm]
6FT	61" [1549mm]	70 1/2" [1791mm]

FRONT VIEW









3 SUSPENSION POINTS

SIZE	DIAMETER A	DIAMETER B
4FT	44 1/2" [1130mm]	51 1/4" [1302mm]
5FT	53 3/8" [1356mm]	64" [1626mm]
6FT	65 1/2" [1664mm]	75 5/8" [1921mm]
7FT	75 3/4" [1924mm]	87 1/2" [2223mm]



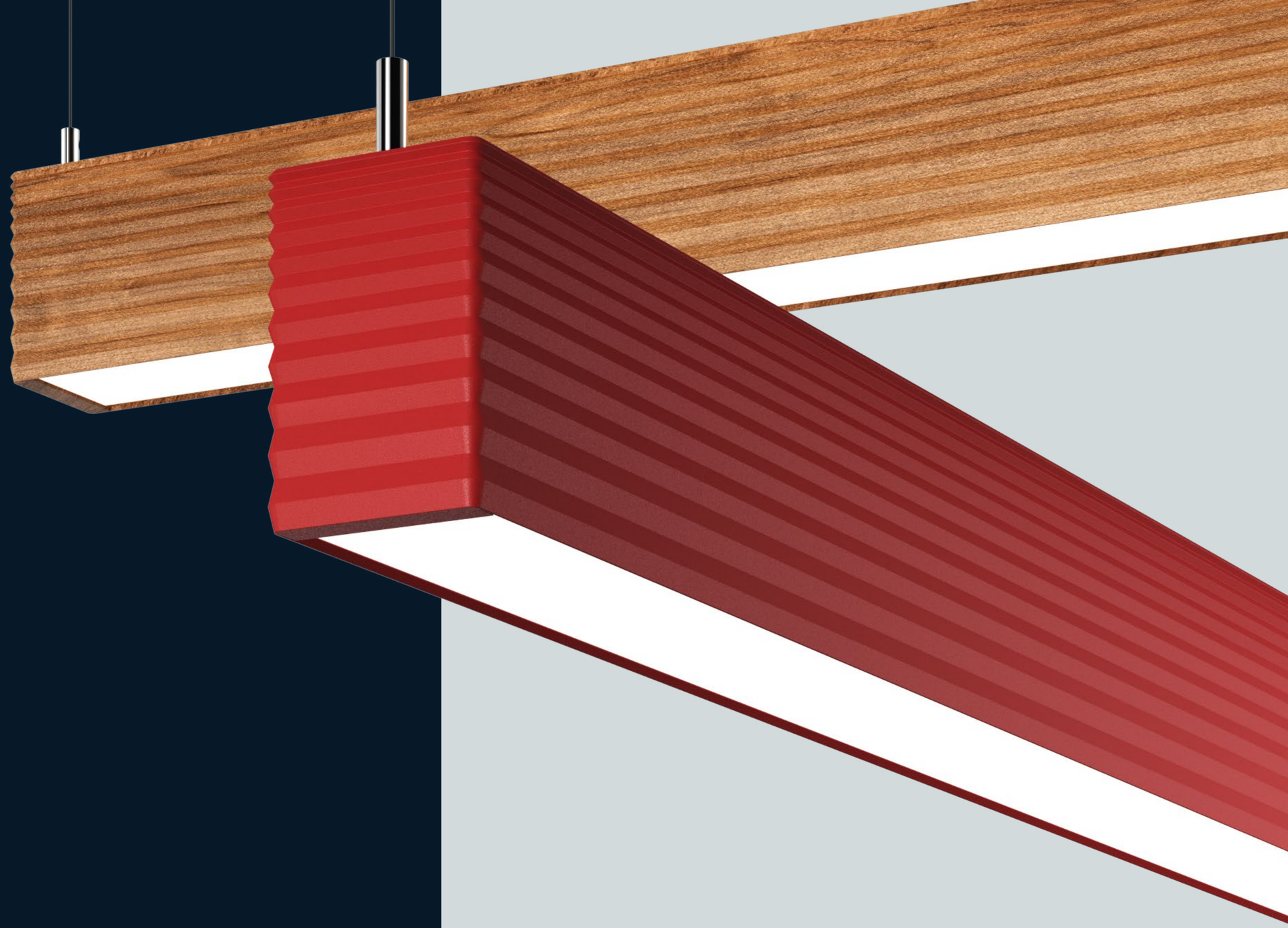
BELLOWS QUAD

Bellows comes together in a four-sided geometric form, carrying its pleated texture seamlessly around every corner.

Technical Specifications	Linear, Systems, Quad	Hexagon, Triangle	Ring
Lumen Packages	**Direct:** 200–1400 LM/FT **Indirect:** 200–1650 LM/FT	**Direct:** 200–1400 LM/FT **Indirect:** 200–1650 LM/FT	**Direct:** 200–1000 LM/FT **Indirect:** 200–1000 LM/FT
CCT	2700K, 3000K, 3500K, 4000K, RGBW, BIOS, Tunable White	2700K, 3000K, 3500K, 4000K, RGBW, BIOS, Tunable White	2700K, 3000K, 3500K, 4000K, BIOS
CRI	80+ or 90+	80+ or 90+	80+ or 90+
Light Distribution	**Direct:** Diffused, Widespread, Asymmetric **Indirect:** Diffused, Batwing, Asymmetric, Extra-Wide Batwing	**Direct:** Diffused **Indirect:** Diffused, Batwing, Extra-Wide Batwing	**Direct:** Diffused **Indirect:** Diffused
Circuits	Single or Dual	Single or Dual	Single or Dual
Emergency	Integral Emergency Generator Circuit	Integral Emergency Generator Circuit	Emergency System – Remote
Dimming	0–10V: 0.1% & 1.0% DALI: 0.1%, 1.0% & DT8 0.1% (for Tunable White Only) DMX PoE	0–10V: 0.1% & 1.0% DALI: 0.1%, 1.0% & DT8 0.1% (for Tunable White Only) DMX PoE	0–10V: 1.0% DALI: 0.1% & 1.0% PoE
Sensors	Cooper WaveLinx PRO, Legrand Wattstopper/Wattstopper PLUS, Lutron; Consult Factory	Consult Factory	Consult Factory

FINISHES

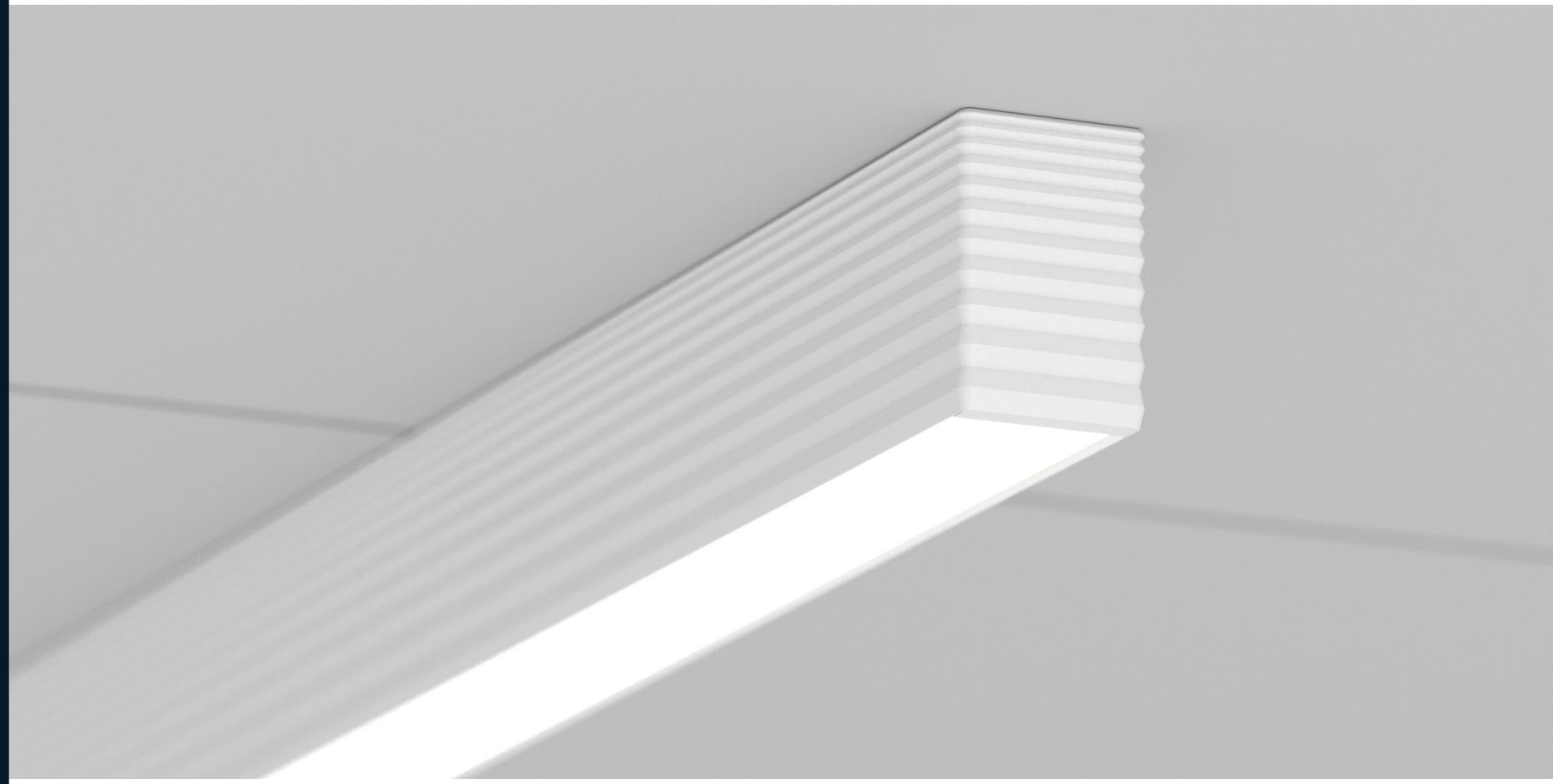
- Black Metallic Textured
- Bronze Metallic Textured
- Midnight Blue Metallic Textured
- Charcoal Metallic Textured
- Red Metallic Textured
- Gold Metallic Textured
- Champagne Metallic
- Copper Metallic
- Silver Metallic Textured
- White Textured
- Wood Grain - Light Cherry
- Wood Grain - Dark Walnut
- Wood Grain - White Oak



Boost Health and Wellness

with Circadian Lighting

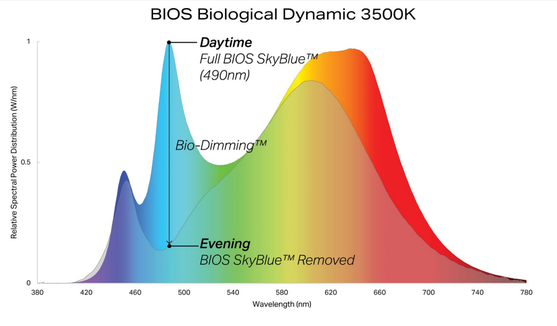
Modern living confines building occupants to artificial lighting for 90% of their time. While functional, it lacks the vital circadian signals present in natural sunlight. This disconnect disrupts the internal clock, impacting various aspects of occupant health, including alertness, mood, sleep quality, and even long-term well-being.



bios ILLUMINATED

Introducing BELLOWS Linear with BIOS SkyBlue™ Integration

BIOS SkyBlue represents a groundbreaking advancement in lighting technology which can be integrated with the BELLOWS linear collection. It incorporates the essential blue-sky signals (490nm) that the human body relies on to maintain a healthy circadian rhythm, promoting well-being and aligning indoor lighting with natural light cycles.



BENEFITS OF INTEGRATED CIRCADIAN LIGHTING

Enhanced Circadian Regulation
BIOS SkyBlue promotes healthier sleep-wake cycles for building occupants, leading to improved overall health and well-being.

Increased Alertness and Productivity
Experience sharper focus and a more energized workday for occupants.

Elevated Mood
Foster a positive and productive work environment with a boost in occupant emotional well-being.

Improved Sleep Quality
BIOS SkyBlue can help occupants fall asleep more easily and achieve a more restful night's sleep.

UNCOMPROMISING QUALITY FOR BUILDING SUCCESS

BIOS SkyBlue prioritizes exceptional quality without compromise, ensuring optimal performance and occupant comfort.

Industry-Leading Melanopic Ratios
Delivers optimal circadian stimulation at comfortable color temperatures (3000K, 3500K, 4000K).

Brilliant Color Rendering
Maintains exceptional visual comfort with a CRI of 80+ and R9>90.

Simple and Flexible Controls
Single-channel dimming offers seamless compatibility with 0-10V, wireless controls, and even 2-channel systems for easy integration into existing building management systems.

WELL Building Standard™ Compliance
Contributes to achieving WELL certification for projects, signifying a commitment to creating healthier spaces.



FOSTERING WELL-BEING IN EVERY SPACE

Offices
Boost employee focus, productivity, and energy levels throughout the day, creating a more dynamic and positive workplace.

Educational Institutions
Enhance students' concentration and learning by encouraging healthy sleep-wake patterns and sharper cognitive abilities.

Healthcare Facilities
Foster a healing atmosphere for both patients and staff by improving sleep quality, reducing stress, and enhancing overall wellness.

Senior Living Facilities
Elevate residents' sleep quality and daytime alertness, contributing to their overall well-being and life satisfaction.

Retail Spaces
Craft a more engaging shopping experience for customers by enhancing alertness and fostering positive emotions.

BELLOWS with integrated circadian lighting offers a groundbreaking approach to lighting. Embrace the science of natural light and unlock the potential for a healthier, more productive built environment.




Declare.

Declare.

Linear Series
BETA-CALCO INC

Final Assembly: Toronto, Ontario, Canada
Life Expectancy: 5 Year(s)
End of Life Options: Recyclable (99.6%), Landfill (0.4%)

Ingredients:

Aluminum Housing (2 parts): Aluminum; Manganese; Magnesium; Silicon; Iron; Chromium, metallic; Copper; Titanium; Zinc; **Drivers:** Glass, oxide, chemicals; **Lenses (2 parts):** Polymethyl methacrylate; **LEDs 6+6:** Glass, oxide, chemicals; **Louvre:** Acrylonitrile-Butadiene-Styrene Copolymer; **Hardware-Set (bought parts, including screws and nuts):** Steel; **Power Cord:** Copper; Polyvinyl chloride; Antimony oxide (Antimony trioxide); Magnesium, [carbonato(2-)]hexadecahydroxybis(aluminum)hexa-; Tin, Organic; Octadecanoic acid, calcium salt; Methyl Ethyl Ketone; Cyclohexanone; **Canopy & Celing Cover (2 parts):** Steel; **End Cap:** Aluminum; Silicon; Copper; Iron; Zinc; magnesium dioxide; Tin, Organic; **Grommets & Clips -Set:** Carbonic acid, polymer with 4,4′-(1-methylethylidene)bis[phenol]; **Hardware- Galv- Set:** Iron; Manganese; Chromium, metallic; Silicon; **Paint:** Phenol, 4,4′-(1-methylethylidene)bis-, polymer with 2,2′-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)]bis[oxirane]; Titanium dioxide; 1,3,5-Triglycidyl-s-triazinetrione; 2-Methylimidazole; Carbon black; **Hardware- CRS- Set (PLTC860):** Iron

Living Building Challenge Criteria:

I-13 Red List:
☐ LBC Red List Free
☐ LBC Red List Approved
■ Declared

% Disclosed: 100% at 100ppm
VOC Content: Not Applicable

I-10 Interior Performance: Not Applicable
I-14 Responsible Sourcing: Not Applicable

BET-0001

MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY
INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

Declare.

Decorative Series
BETA-CALCO INC

Final Assembly: Toronto, Ontario, Canada
Life Expectancy: 5 Year(s)
End of Life Options: Recyclable (99.7%), Landfill (0.3%)

Ingredients:

Aluminum Housing: Aluminum; Manganese; Magnesium; Silicon; Iron; Chromium, metallic; Copper; Titanium; Zinc; **Reflector:** Aluminum; Carbonic acid, polymer with 4,4′-(1-methylethylidene)bis[phenol]; Polyethylene; Manganese; Magnesium; **LED boards (including t.blocks):** Glass, oxide, chemicals; **Acoustic Panel:** Polyethylene Terephthalate; **Hardware- CRS- Set (Including Ceiling Plate):** Iron; Manganese; **Drivers- Set:** Glass, oxide, chemicals; **Gimbal pin:** Aluminum; Manganese; Magnesium; **Aircraft Cable:** Steel; **Glass Components- Spacer disc, Dust cover:** Glass, oxide, chemicals; **Cylindrical Tube:** Aluminum; Manganese; **Decorative disc:** Steel; **Hardware- Set (bought parts, including screws, nuts, washers):** Steel; **Heat Sink:** Aluminum; Silicon; Copper; Zinc; Iron; **Brass Components (Strain relief bushings, Bushings, Suspension Hub):** Brass; **Hardware- Galv- Set:** Iron; Manganese; Chromium, metallic; Silicon; **Silicone diffuser:** Siloxanes and Silicones, di-Me, Me vinyl, vinyl group-terminated; Siloxanes and Silicones, di-Me, di-Ph, vinyl group-terminated; Silanol terminated polydimethylsiloxane; **Power Cord:** Copper; Polyvinyl chloride; Antimony oxide (Antimony trioxide); Magnesium, [carbonato(2-)]hexadecahydroxybis(aluminum)hexa-; Tin, Organic; Octadecanoic acid, calcium salt; Methyl Ethyl Ketone; **Rail Lite II Spring:** Iron; Chromium, metallic; Nickel (Metallic); Manganese; Molybdenum; Tungsten; Copper; Cobalt metal powder; Vanadium; Aluminum; Silicon; Titanium; **Clips, Strain Relief and Insulating Bushings, Zip Tie - Set 1:** Poly[imino(1,6-dioxo-1,6- hexanediyl)imino-1,6-hexanediyl]; **Paint:** Phenol, 4,4′-(1-methylethylidene)bis-, polymer with 2,2′-[(1-methylethylidene) bis(4,1-phenyleneoxymethylene)]bis[oxirane]; Titanium dioxide; 1,3,5-Triglycidyl-s-triazinetrione; **Clips:** Zinc; **Reflector Holder:** Iron; Chromium, metallic; Nickel (Metallic); **Nylon Parts (Hole plug, Dome plug):** Nylon; **Lens- Poly:** Polyethylene; **Silicone sealant:** Cyclotetrasiloxane; Diisopropoxytitanium bis(ethylacetoacetate); **Sleeve:** Glass, oxide, chemicals; **Lens and Optic- Acrylic:** Polymethyl methacrylate; **Knob:** Brass; **Grommets and Clips - Set:** Carbonic acid, polymer with 4,4′-(1-methylethylidene)bis[phenol]; **Thermal protector:** nickel zinc

Living Building Challenge Criteria:

I-13 Red List:
☐ LBC Red List Free
☐ LBC Red List Approved
■ Declared

% Disclosed: 100% at 100ppm
VOC Content: Not Applicable

I-10 Interior Performance: Not Applicable
I-14 Responsible Sourcing: Not Applicable

BET-0002

MANUFACTURER RESPONSIBLE FOR LABEL ACCURACY
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WHY DECLARE MATTERS

Every year, the building industry accounts for 39% of global carbon emissions, and the health impacts of the built environment are drawing increased scrutiny. In earning a Declare label for our linear and decorative lines, we're joining over 200 manufacturers by responding to the market's demand for decreased emissions and increased transparency.



BETACALCO

Since 1941, we have held a passion for designing cutting-edge professional lighting that changes how spaces are illuminated while upholding the enduring principles of quality and craftsmanship.

Our objective is to work in lockstep with our clients by developing innovative products that meet their varied design needs and comply with the latest energy and construction standards. Furthermore, our manufacturing infrastructure allows us to scale products and satisfy niche design requirements.

We use leading-edge wellness technologies including BIOS, Tunable White, and Dim to Warm; and employ open-source connectivity to intelligent control systems, including Power over Ethernet.

Our customer-centric approach to service and product design is the basis of our reputation and how we have become a key lighting supplier across the globe.

betacalco.com

sales@betacalco.com