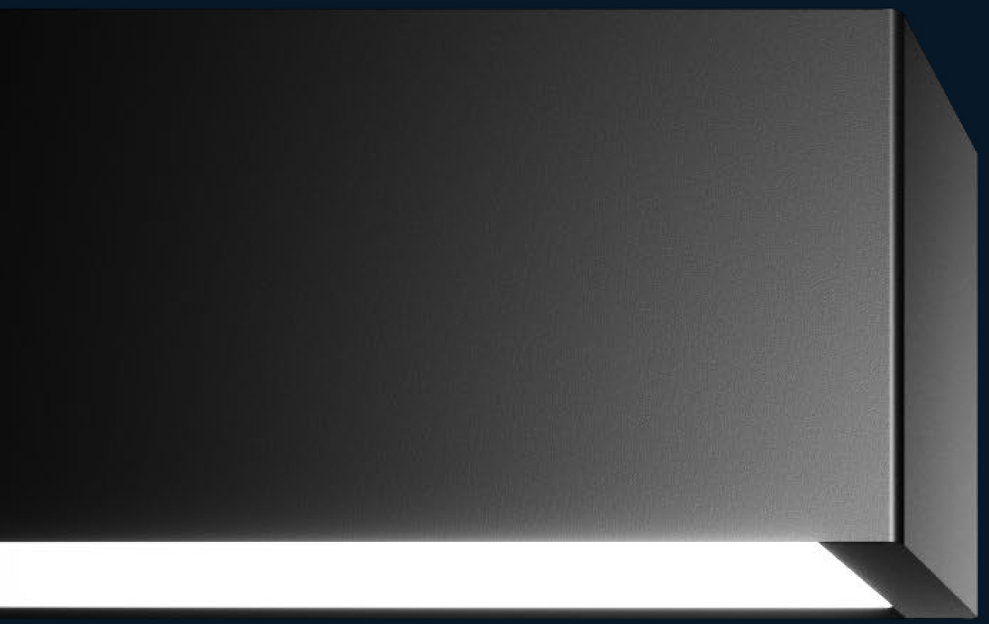


BLOCK™



BLOCK

INTRODUCTION

BLOCK stands as an unwavering workhorse among linear systems, delivering versatile performance to meet the specific aesthetic and functional needs of any project. Available in three aperture sizes (1.5", 2.5", and 3.5"), BLOCK allows designers to tailor lighting to suit any space. The choice of end caps in either sleek flat or elegant curved enhances the luminaire aesthetics, while a flexible opal acrylic diffuser ensures uniform, shadow-free illumination. With precision light distributions (Diffused, Batwing, and Asymmetric) and eight lumen packages ranging from 200 LM/FT to 1600 LM/FT, BLOCK offers powerful, energy-efficient lighting with luminous efficacy up to 152 LPW. By integrating BIOS technology, the series supports circadian regulation, enhancing the overall environment to promote health and well-being. Embodying precision, BLOCK fulfills its specification promises with finesse, making it an unequivocal choice for those seeking adaptability across a spectrum of performance criteria and budget considerations.



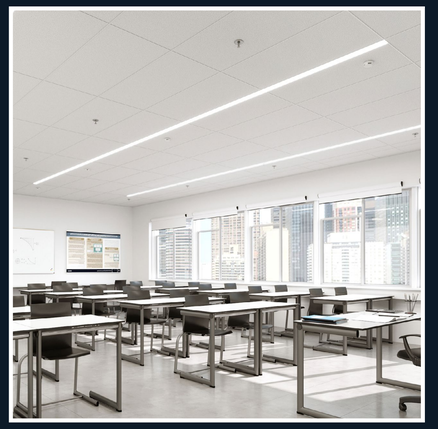
BLOCK



SUSPENDED



SURFACE



RECESSED



WALL

BLOCK CURVE



SUSPENDED



SURFACE



RECESSED



WALL

FEATURES

VERSATILE APERTURE CHOICES

Choose from three aperture sizes (1.5", 2.5", and 3.5") to tailor your lighting design. Whether you need a subtle line of light or a bold statement, these options provide the flexibility to create lighting that fits perfectly within the architectural context, meeting the unique aesthetic and functional requirements of any project.

TWO END CAP DESIGNS

Select between flat and curved end caps to enhance your fixture's aesthetics. These options let you align the fixture to your design theme, creating a cohesive look that complements the space's architecture. Whether you prefer a clean, classic architectural aesthetic with flat end caps or a smooth, contemporary feel with curved ones, BLOCK integrates with your vision.

PRECISION LIGHT DISTRIBUTIONS

The Diffused optic provides soft, uniform light, balancing aesthetics and functionality for general use. The 120° Batwing optic, available for indirect lighting, enhances ambient light by reflecting glare-free light from the ceiling.

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.

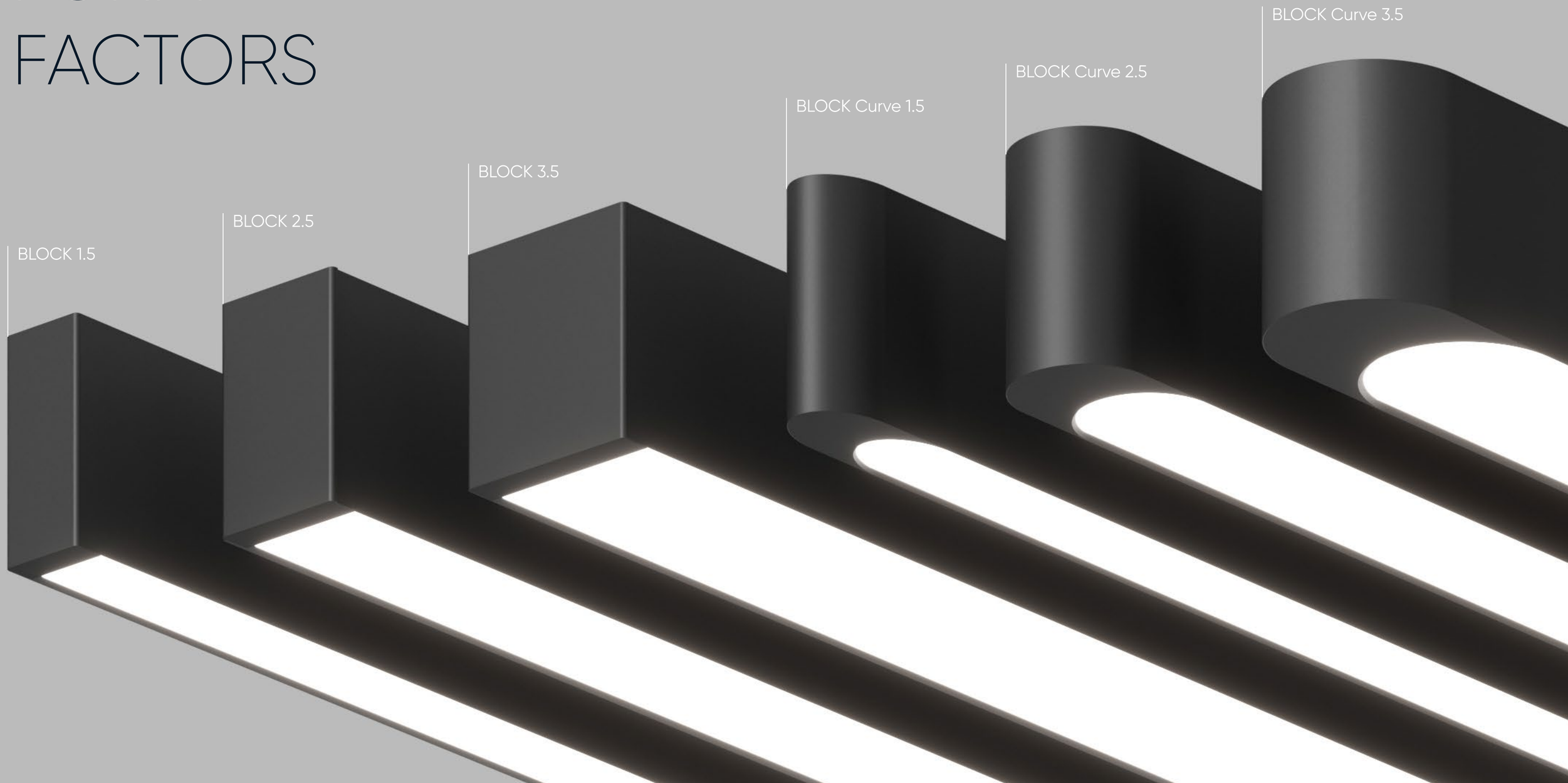
HIGH-EFFICIENCY ILLUMINATION

Benefit from exceptional lumen efficacy of 152 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

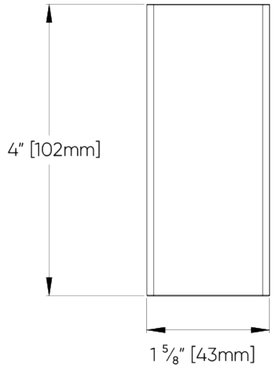
For a truly holistic environment, consider BIOS technology. This innovative system dynamically adjusts the light spectrum throughout the day, replicating natural daylight patterns. This fosters a healthy circadian rhythm in occupants, a scientifically proven approach to enhancing cognitive function,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

FORM FACTORS

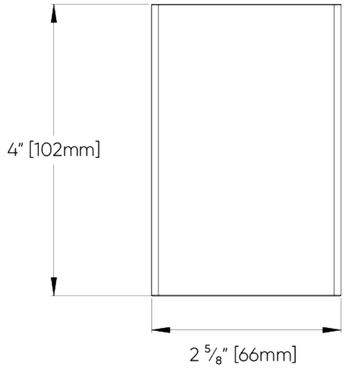


BLOCK™

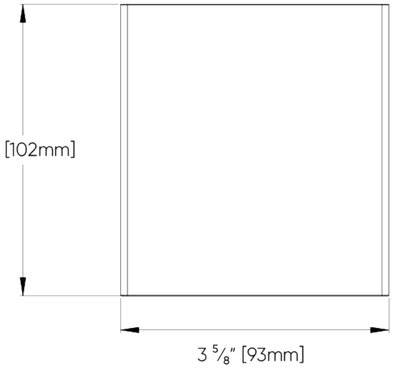
BLOCK 1.5

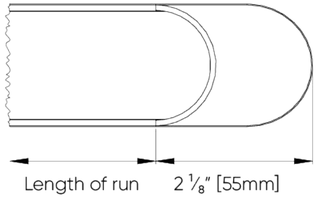


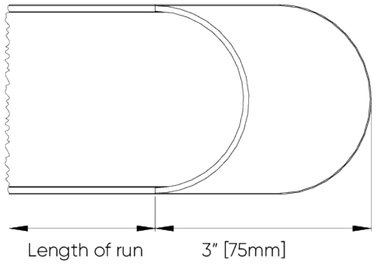
BLOCK 2.5

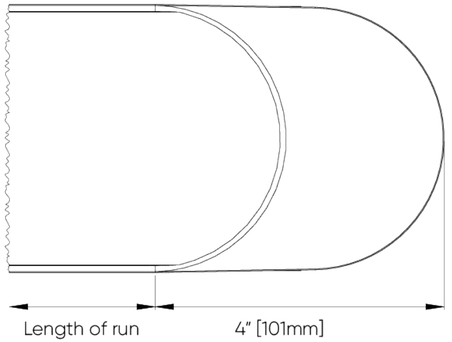


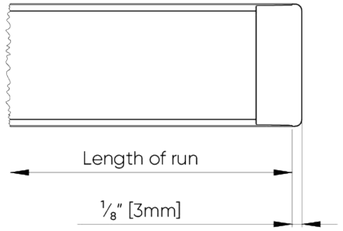
BLOCK 3.5

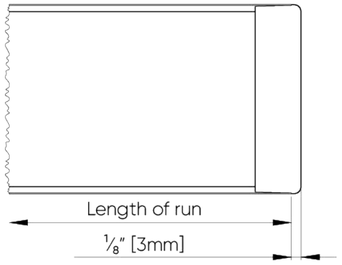


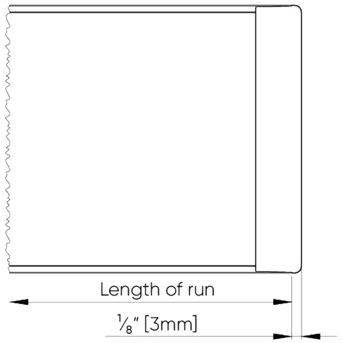




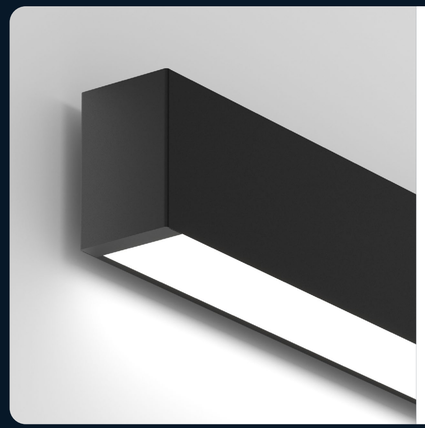






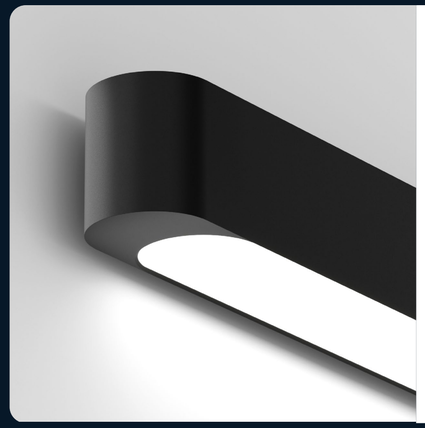


Choose the Perfect Ending



FLAT END CAP

The flat end cap delivers a clean, finished appearance that resonates with a classic architectural style. Ideal for projects that prioritize versatility and a minimalist aesthetic.



CURVED END CAP

The curved end cap introduces a subtle element of style to your design. It's well-suited for applications involving curved surfaces or for adding a refined, finished look to your project.

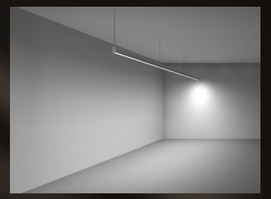
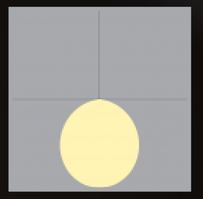
FINISHES

- 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

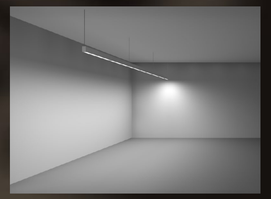
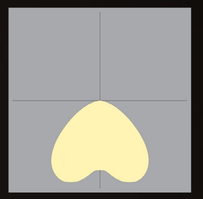


OPTICS

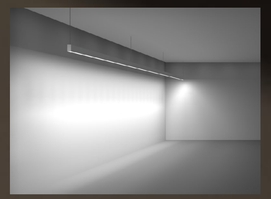
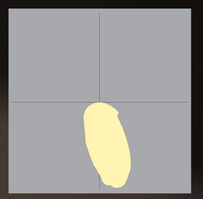
Direct

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.

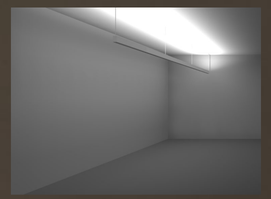
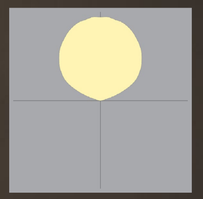



Widespread
Featuring a wider direct beam angle of 105°, this optic maximizes downward light distribution to cover more surface area with fewer luminaires. It brings strong, even illumination to tasks and workspaces.

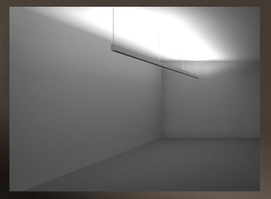
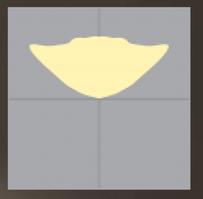



Asymmetric
The direct asymmetric lens channels illumination at a distinct angle, bringing textures and architectural details into sharp focus. It offers crisp, localized lighting effects alongside a highly uniform lateral light spread, making it the premier choice for highlighting displays, defining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

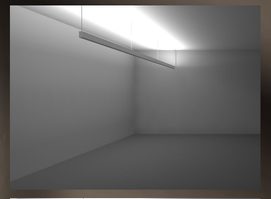
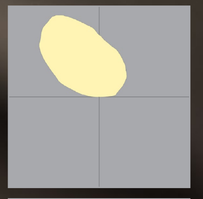
Indirect

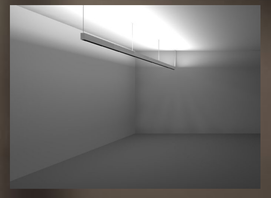
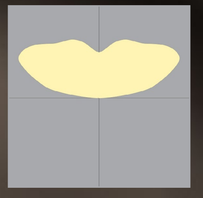
Diffused
The opal lens for indirect lighting ensures smooth and even light distribution, reducing ceiling glare and enhancing ambient brightness. Perfect for creating a welcoming atmosphere with gentle, reflected light.

Batwing
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
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
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.



SUSPENDED

BLOCK Suspended offers the most versatility in applicability, making it ideal for a range of space layouts. Designed for high ceilings and large, open areas, these fixtures provide ambient light, perfect for lobbies, conference rooms, and open-plan offices. With 3 light distributions - Diffused, Batwing, and Asymmetric, BLOCK Suspended allows you to optimize the useful light, whether for direct illumination or by reflecting light off ceilings and walls. This reflectance increases the overall light in the space while providing glare-free illumination, delivering up to 152 LPW. With flexible light distribution and minimalist design, BLOCK ensures functional lighting that adapts to diverse architectural designs.



Seamless Precision at Every Angle
BLOCK’s corner joint exemplifies meticulous craftsmanship, delivering a flawlessly clean corner that ensures a consistent visual flow throughout your lighting installation. The smooth, uninterrupted lines maintain cohesion, integrating seamlessly with any architectural space, focusing purely on functionality and precision.



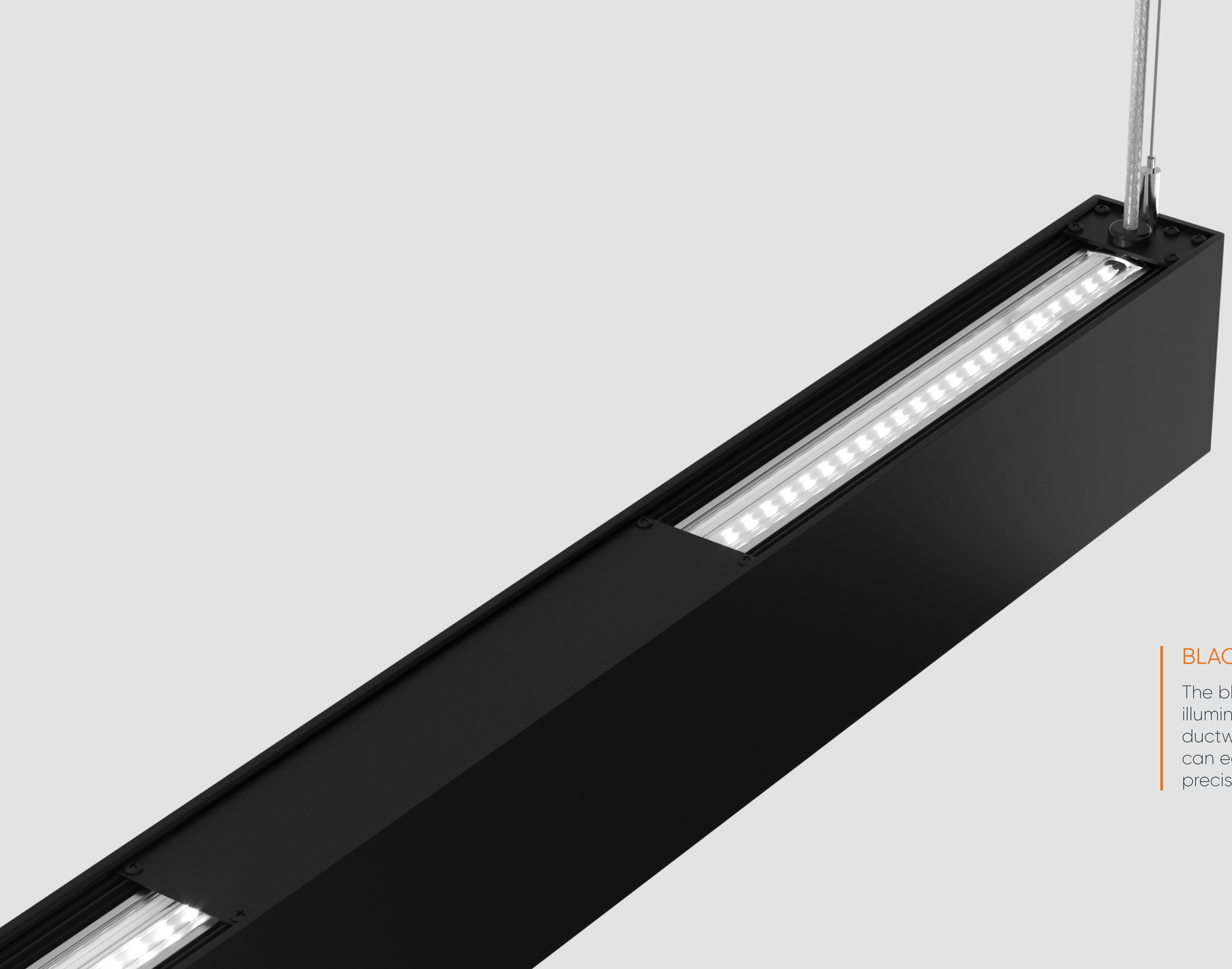




Continuous Perfection

Continuous Run Connection

Achieve uninterrupted brilliance with the Eclipse Joint. Our advanced interlocking extrusion design ensures zero light leakage for seamless illumination. This combination transforms linear lighting into a canvas of pure, continuous light.



BLACKOUT PLATE

The blackout plate blocks light from illuminating unflattering ceiling areas such as ductwork. It comes in one-foot sections and can easily slide along the top of the fixture for precise placement.



CONNECTED VERSATILITY

BLOCK luminaires offer an adaptable solution for seamless integration with a wide range of wireless control systems, including Avi-On, Casambi, Enlighted, Lutron Vive, nLight, NX Lighting Controls, Osram, and Philips. Experience the power of choice and intelligent lighting control for your project.



Unstoppable Light

BLOCK redefines continuous illumination with two key innovations that deliver seamless, uninterrupted light across any architectural space.



SEAMLESS CONNECTIVITY

The heart of BLOCK's seamless illumination lies in its advanced Eclipse Joint. This innovative connector guarantees perfect alignment and secure connections between fixtures, eliminating light leaks and ensuring a consistent, uninterrupted glow throughout extended runs.



PRECISION-CRAFTED CORNERS

BLOCK's precisely engineered corners create a sleek, continuous form that enhances the seamless flow of light across your space. The streamlined design ensures aesthetic unity and minimizes visual disruptions, allowing the light to integrate into the architecture without drawing undue attention.

DIMENSIONS

BLOCK Suspended 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 6 inch increments, consult factory.

Section Lengths

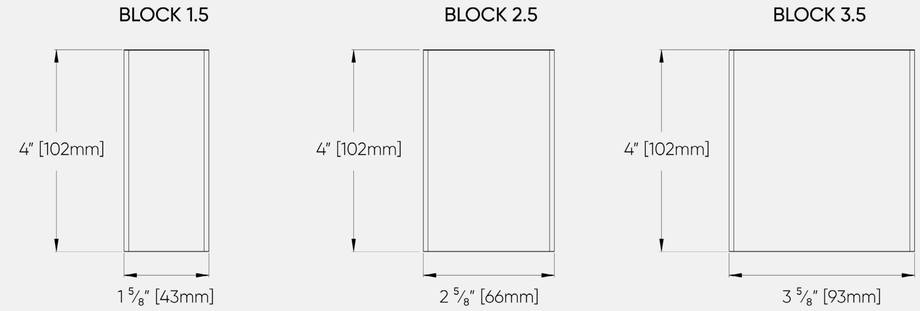
4 FT (1220mm)

6 FT (1829mm)

8 FT (2438mm)

10 FT (3048mm)

12 FT (3658mm)









SURFACE

Ideal for spaces with standard ceiling heights, BLOCK SURFACE offers reliable performance and a minimalist appearance. With the higher visibility of the luminaire, consider the curved end cap for a softer, more contemporary aesthetic. Easy to install and maintain, these fixtures deliver practical lighting solutions for workspaces, offices, and corridors where functionality is critical.

Minimalist Design, Maximum Impact

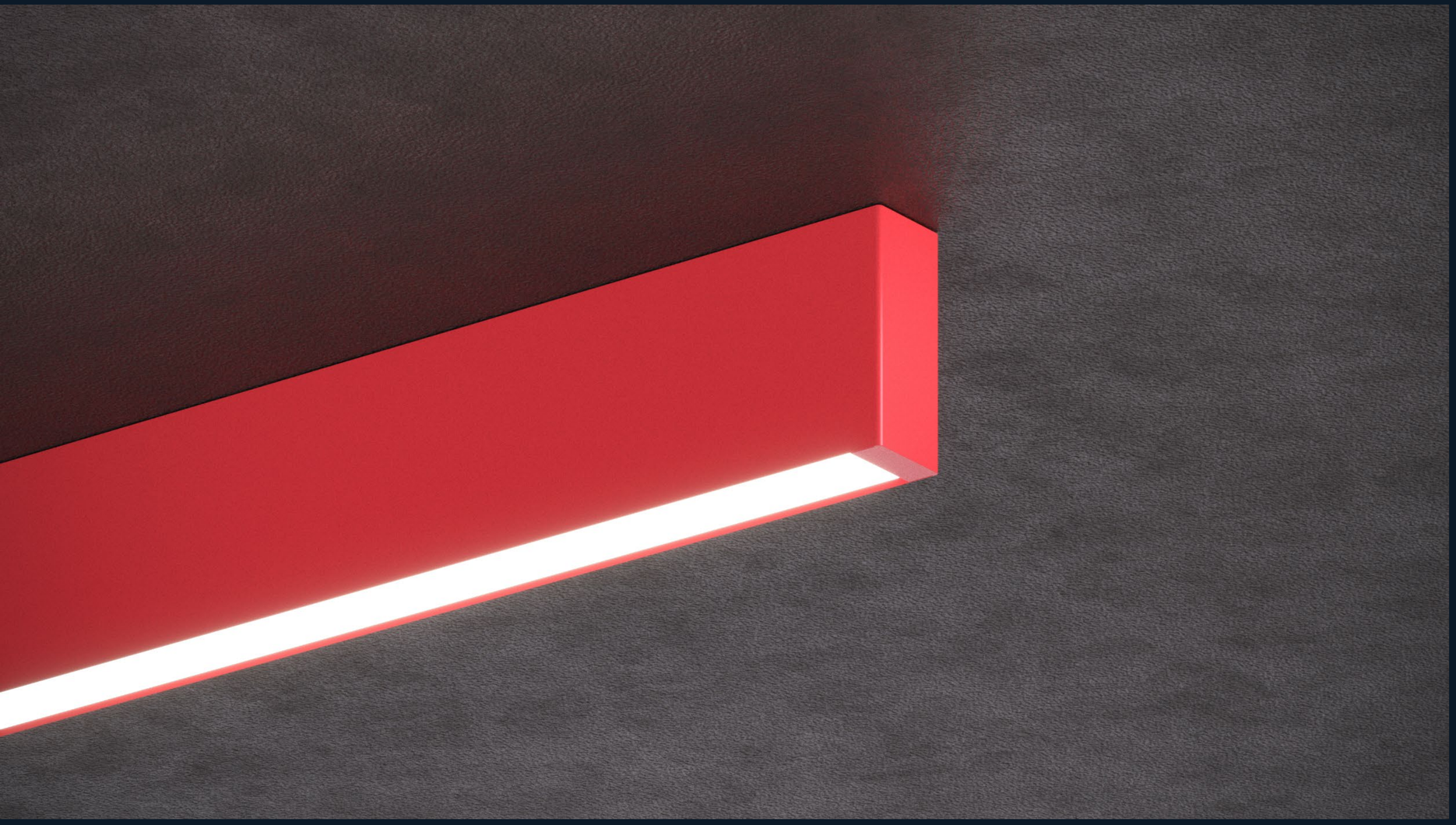
BLOCK's narrow 1 ½" profile with rounded end caps enhances your space with a clean, minimalist aesthetic without sacrificing performance. This streamlined fixture integrates seamlessly into modern designs, adding sleek, unobtrusive lines that elevate the overall look. Despite its compact size, it delivers powerful lighting at 121 LPW, ensuring both efficiency and impact. The rounded end caps provide a subtle, sophisticated touch, making this profile perfect for environments that demand both visual appeal and high performance.





DYNAMIC DESIGN IN MOTION

The vibrant red linears introduce a bold architectural statement in this fitness center, energizing the space with a striking contrast. Positioned to guide movement and emphasize structure, BLOCK turns the gym into a dynamic, visually stimulating environment.



MAGNETIC SIMPLICITY

Engineered for simplicity and security, BLOCK's innovative magnetic end caps ensure perfect alignment and a secure attachment. With a robust design, the end caps snap effortlessly into place, eliminating the need for complex tools or adjustments. It's a hassle-free setup designed to streamline the installation process.

ARCHITECTURAL SYNERGY

BLOCK SURFACE enhances the clean lines of this modern kitchen and lounge, delivering focused illumination that defines each space. The geometric arrangement complements the minimalist design, creating a harmonious blend of light and architecture that elevates both form and function.





Merge modern design with natural beauty. For wood slat ceiling integration, consult our factory.



DIMENSIONS

BLOCK SURFACE 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 6 inch increments, consult factory.

Section Lengths

4 FT (1220mm)

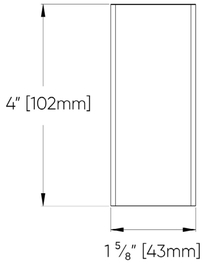
6 FT (1829mm)

8 FT (2438mm)

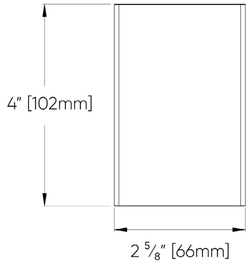
10 FT (3048mm)

12 FT (3658mm)

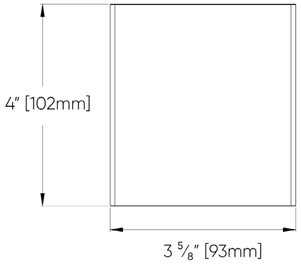
BLOCK 1.5



BLOCK 2.5



BLOCK 3.5





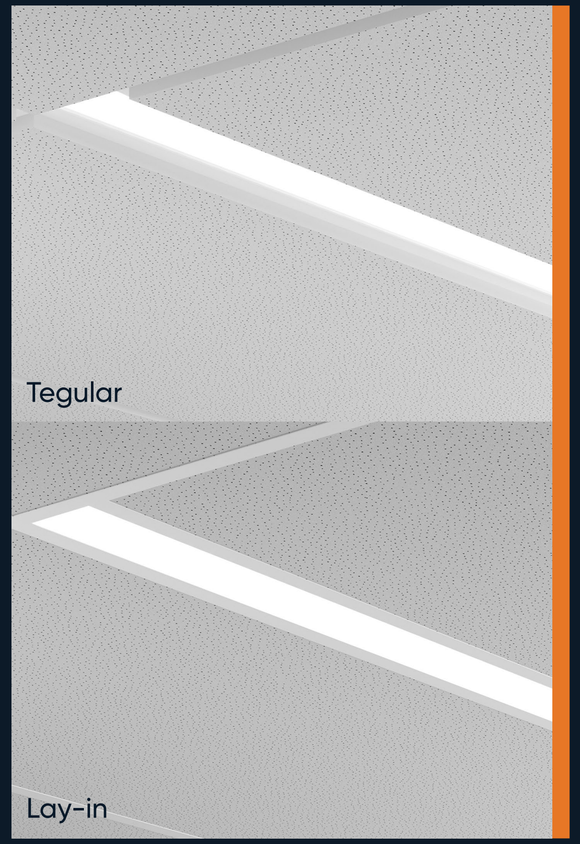




RECESSED

Achieve a clean, unobtrusive look with our BLOCK Recessed. The trimless profile offers a seamless aesthetic, ideal for modern offices, commercial spaces, galleries, and retail environments that demand the sophisticated aesthetic of clean lines. Enhanced by a flexible opal diffuser for even light distribution, this contemporary design focuses on the light effect, not the luminaire itself, contributing to a truly minimalist look. For more straightforward installations, BLOCK Recessed is available with a trim for drywall ceilings, and T-bar fittings for grid ceilings. Available in standard lengths or continuous run installations, BLOCK ensures a precise fit for your design vision.

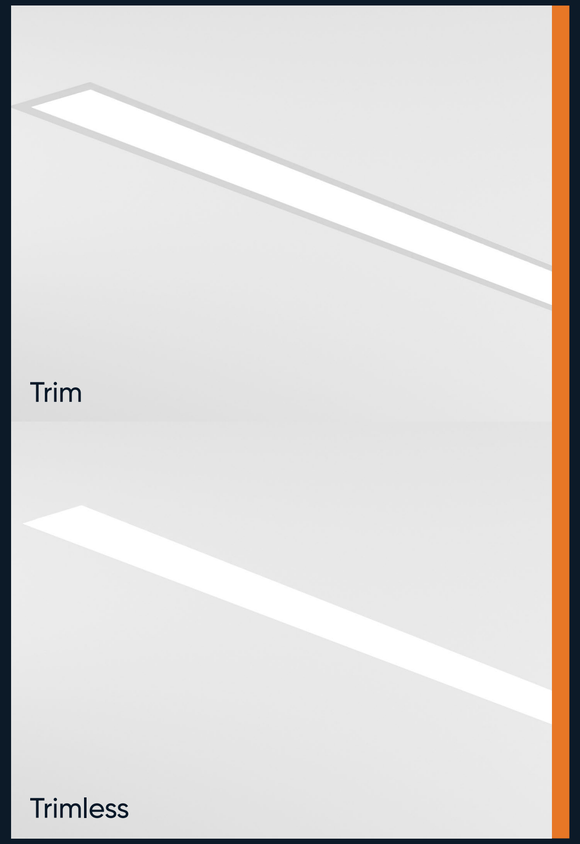
CEILING TYPES & TRIMS



1

GRID CEILING

Fits standard 9/16" or 15/16" T-bar systems.
Includes provisions for secondary support.
All metalwork in white finish.

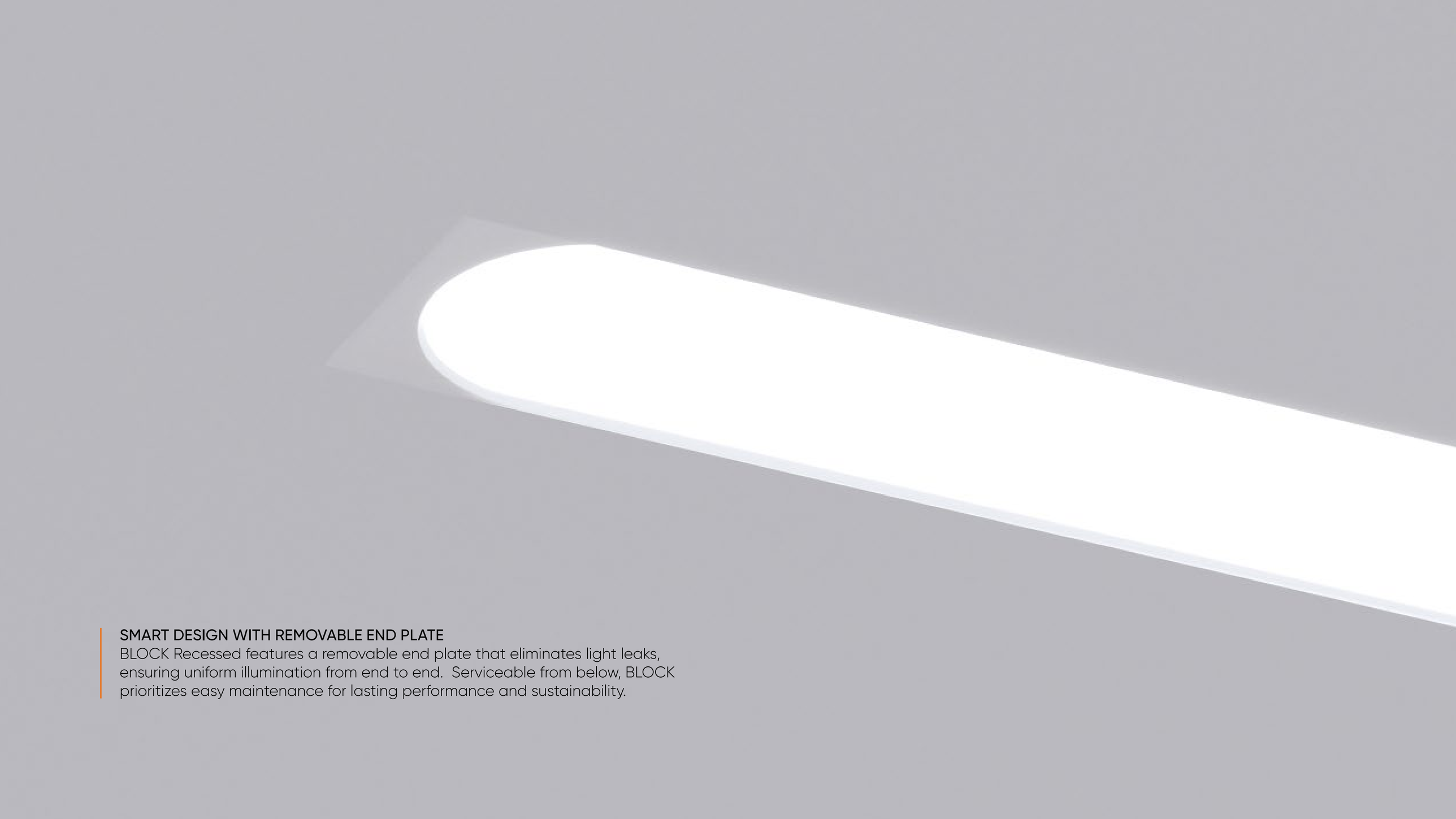


2

HARD CEILING

Suitable for drywall ceilings. Trim is
available in white or black finish.





SMART DESIGN WITH REMOVABLE END PLATE

BLOCK Recessed features a removable end plate that eliminates light leaks, ensuring uniform illumination from end to end. Serviceable from below, BLOCK prioritizes easy maintenance for lasting performance and sustainability.


LEVEL 2
LEVEL 1

BLOCK

ILLUMINATING COLLABORATION

BLOCK luminaires in this open meeting space bring clarity and focus. Their streamlined profile integrates effortlessly with the architectural design, providing uniform lighting that supports both individual tasks and collaborative efforts, making the space functional and visually appealing.





MODERN RETAIL PRECISION

BLOCK Recessed in this retail environment accentuates the clean, contemporary architecture. Strategically placed to highlight pathways and key areas, the luminaires enhance the contemporary design language, providing both guidance and ambiance throughout the space.

DIMENSIONS

BLOCK Recessed 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 6 inch increments, consult factory.

Section Lengths

4 FT (1220mm)

6 FT (1829mm)

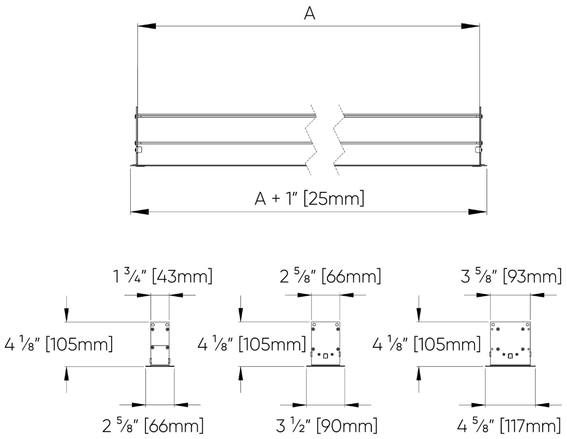
8 FT (2438mm)

10 FT (3048mm)

12 FT (3658mm)



Hard Ceiling - Trim



HARD CEILING	
Max Length (Per Section)	A
4ft	48" [1219mm]
6ft	72" [1829mm]
8ft	96" [2438mm]
10ft	120" [3048mm]
12ft	144" [3658mm]



WALL

BLOCK Wall expands the design vocabulary for projects demanding the soft, glare-free illumination offered by indirect lighting or for spaces where mounting to the ceiling is not feasible. Ideal for corridors, stairwells, and perimeter lighting, BLOCK Wall adds an additional layer to the architectural tapestry. BLOCK Wall's versatility makes it a valuable tool for creating diverse lighting designs.



DIMENSIONS

BLOCK Wall 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 6 inch increments, consult factory.

Section Lengths

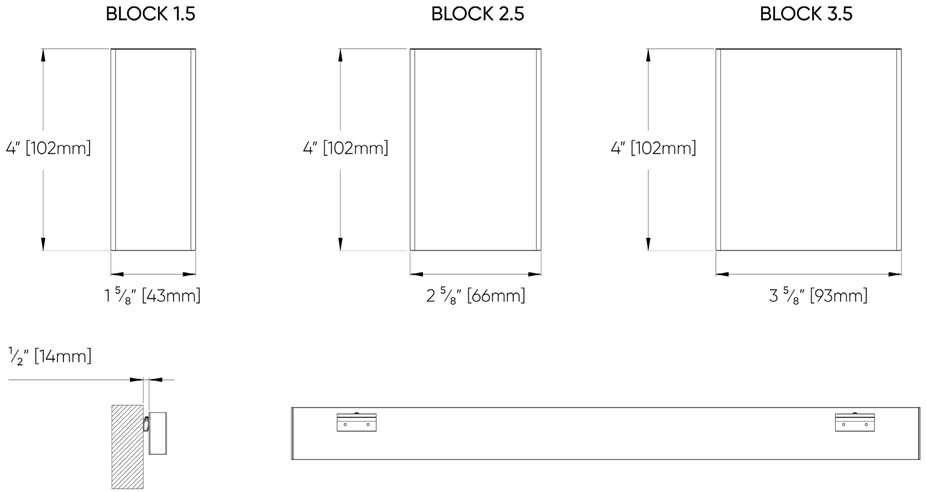
4 FT (1220mm)

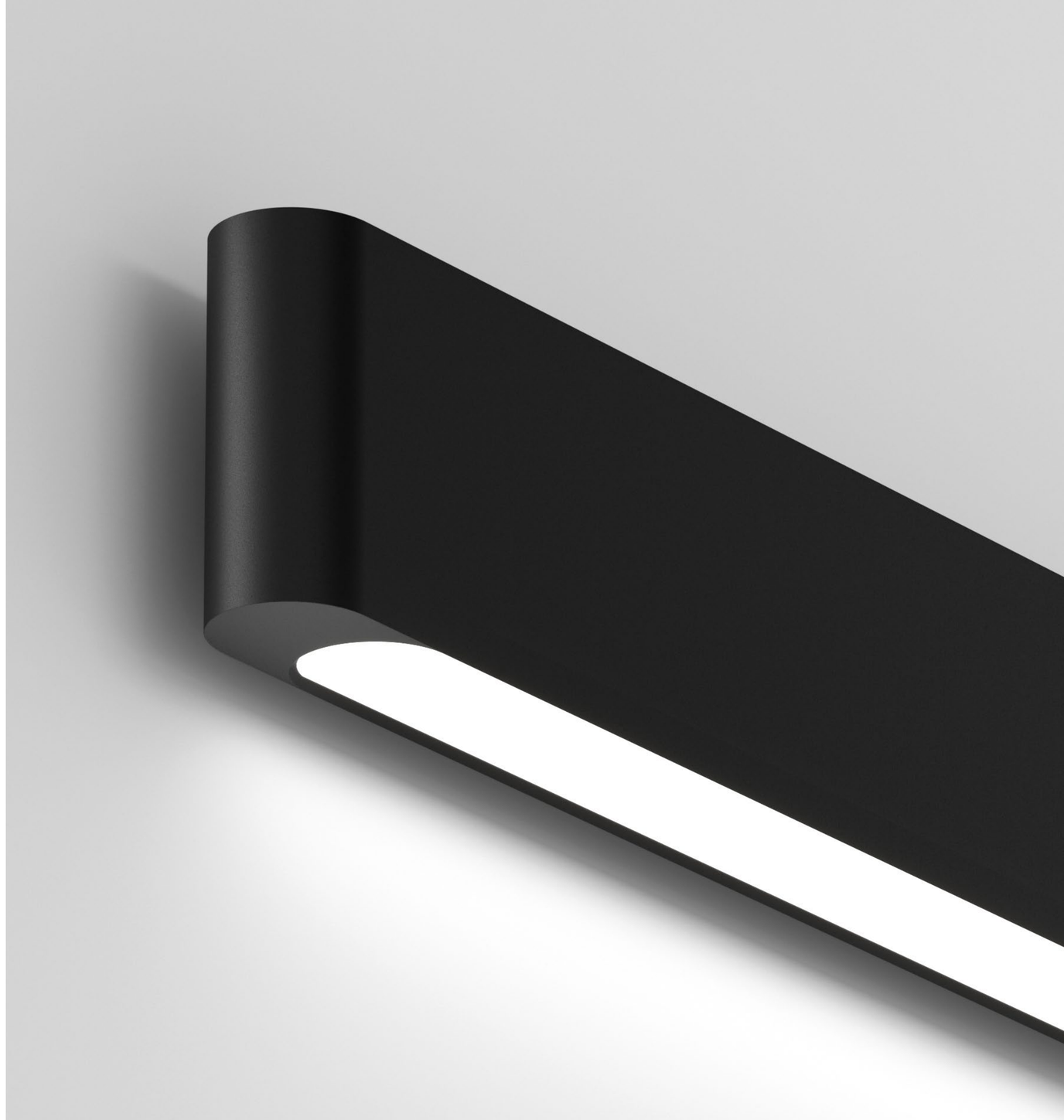
6 FT (1829mm)

8 FT (2438mm)

10 FT (3048mm)

12 FT (3658mm)





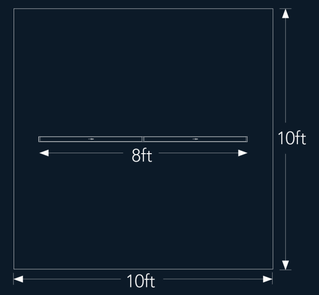


TECHNICAL SPECIFICATIONS

Lumen packages:
Direct: 200 LM/FT to 1400 LM/FT
Indirect: 200 LM/FT to 1650 LM/FT
CCT:
2700K, 3000K, 3500K, 4000K, RGBW, BIOS, Tunable White
CRI:
80+ or 90+
Light Distribution:
Diffused, Batwing, Asymmetric

Circuits:
Single & Dual (Suspended and Wall Only)
Emergency:
Integral
Emergency generated circuit
Dimming (Integral Drivers):
0-10V Dimming to 1.0% and 0.1%
Dali Dimming to 1.0% and 0.1%
DSI/switchDim
PoE
Sensors:
Compatible with Avi-On, Casambi, Enlighted, Lutron Vive, nLight, NX Lighting Controls, Osram, Philips, and others. Consult factory.

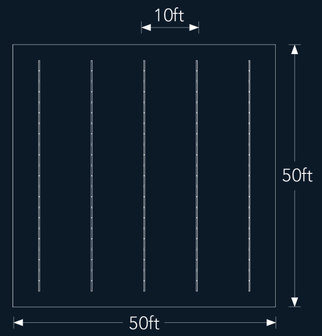
USE CASE SCENARIOS



SINGLE OFFICE SPACE

Suspended diffused 2.5" option with 400lms/ft direct and 200lms/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 sq/ft:	0.35
Light loss factor:	1.0		



OPEN PLAN OFFICE SPACE

Surface diffused 2.5" option with 400 lms/ft

Room size:	50'x50'	Workplane 30" above finished floor (fc level):	42
Ceiling height:	9'	Workplane uniformity max to min:	1.2:1
Reflectances:	80/50/20	Watt sq/ft:	0.27
Light loss factor:	1.0		

Boost Health and Wellness

with Circadian Lighting

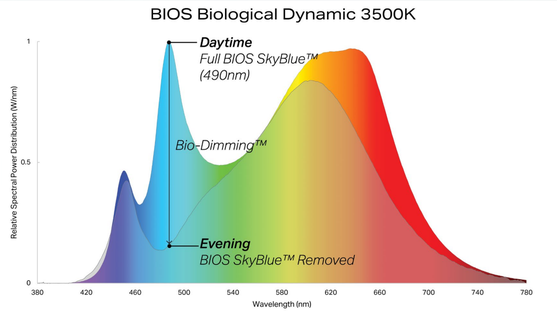
Modern living confines building occupants to artificial lighting for 90% of their time. While functional, it lacks the vital circadian signals present in natural sunlight. This disconnect disrupts the internal clock, impacting various aspects of occupant health, including alertness, mood, sleep quality,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



bios ILLUMINATED

Introducing BLOCK Linear with BIOS SkyBlue™ Integration

BIOS SkyBlue represents a groundbreaking advancement in lighting technology which can be integrated with the BLOCK 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.

BLOCK 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
INTERNATIONAL LIVING FUTURE INSTITUTE™ living-future.org/declare

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