

VIAZ

APPLICATION GUIDE

selux

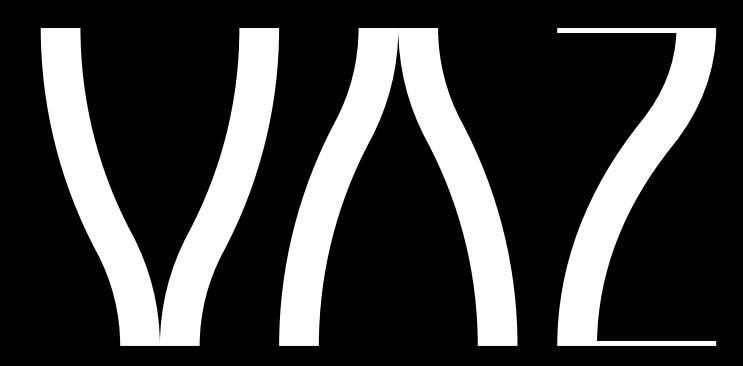


# A Modern Beacon of Light

## Guiding Spaces Like a Contemporary Lighthouse

Like a modern interpretation of a lighthouse, Selux VAZ delivers clarity, guidance, and precision through light. Its eye-catching vertical form and controlled distributions echo the focused beams that once helped sailors navigate the coastline—only now the purpose is architectural—enhancing pathways, facades, and public spaces with the same sense of direction and intent. VAZ doesn't just illuminate; it creates visual orientation, drawing people through environments with a calm, confident glow reminiscent of a beacon built to lead the way.





# Crafted by Craig Copeland

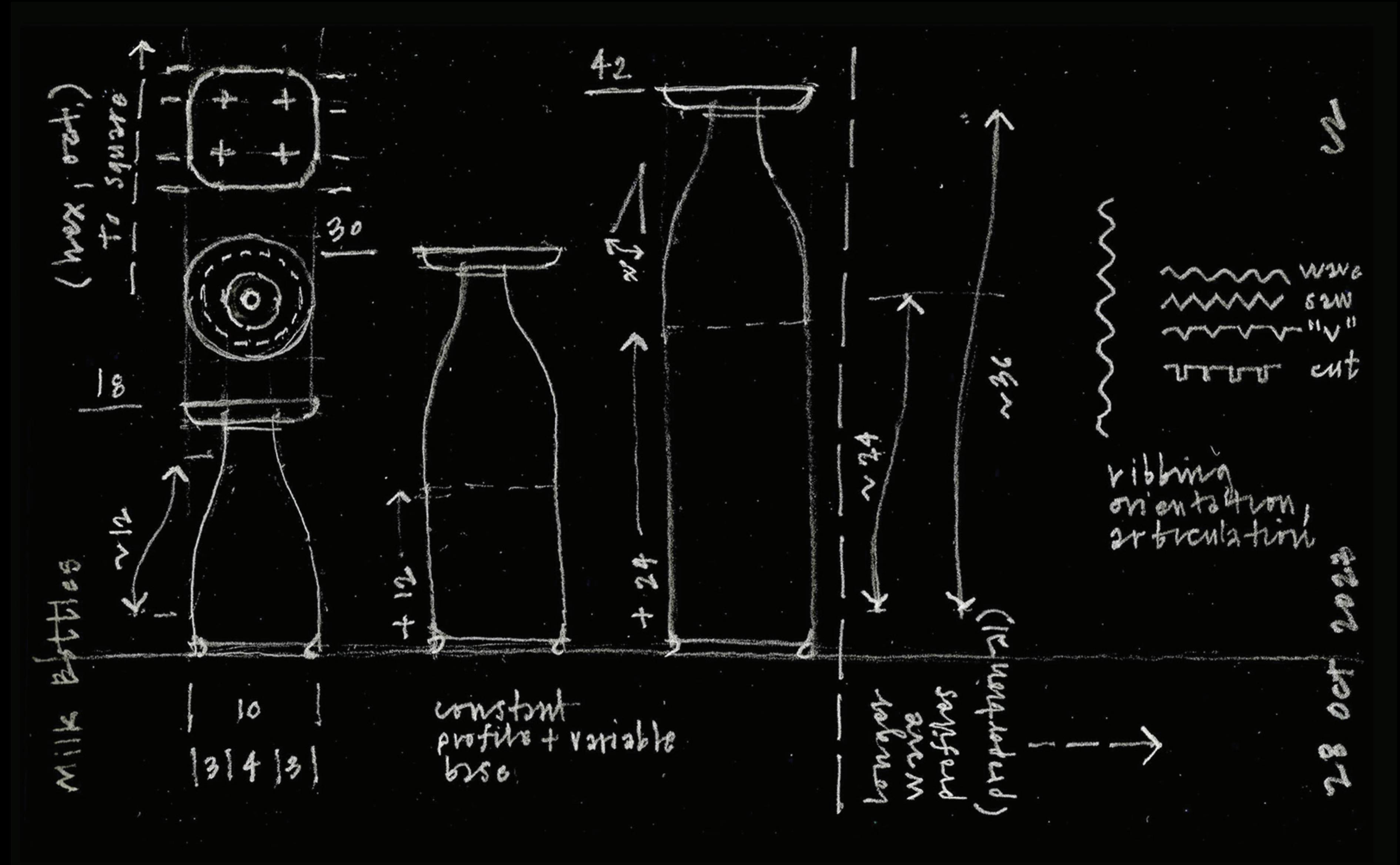
The first versions of VAZ that I modeled were inspired by figurative profiles that celebrate the beautiful efficiency of timeless vessels. From ancient Mediterranean amphoras (elongated terra cotta jugs) to contemporary glass milk bottles - such shapely forms have effectively carried the most essential materials over time. For VAZ, the essential is light.

Later refined by adding a wide lid to house the optics, VAZ began to take the shape of a lighthouse. Each VAZ is a miniature lighthouse in form and capability. Playfully-shaped and fully adaptable, VAZ offers broad material options that are scalable to deliver wide-ranging illumination possibilities and robust security.

- Craig Copeland



Craig Copeland is an architect, product designer, and monumental stone sculptor who lives and works in New York. In 1996, he received a Fulbright Fellowship and was a Visiting Artist at the American Academy in Rome from 1996-1998.

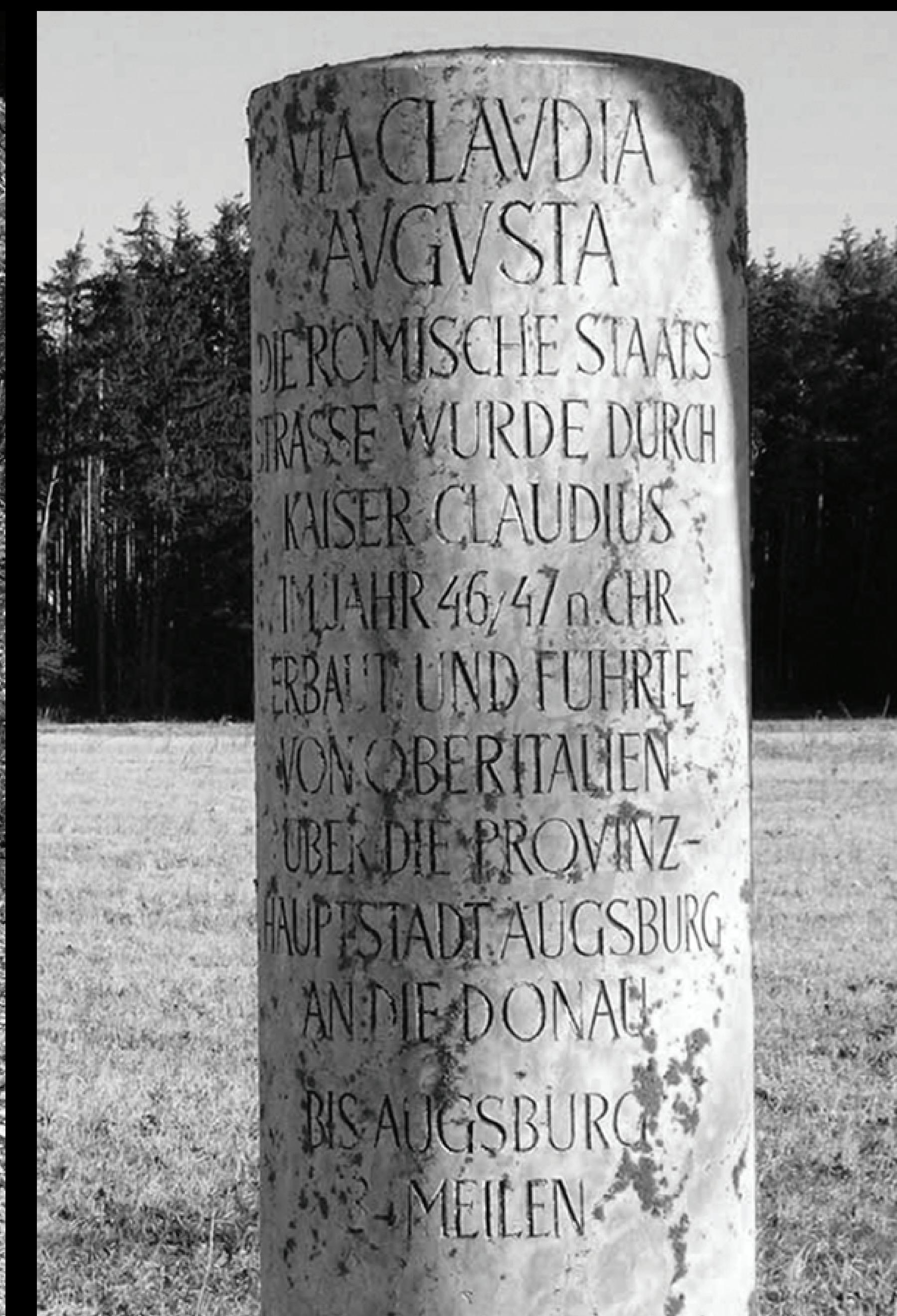
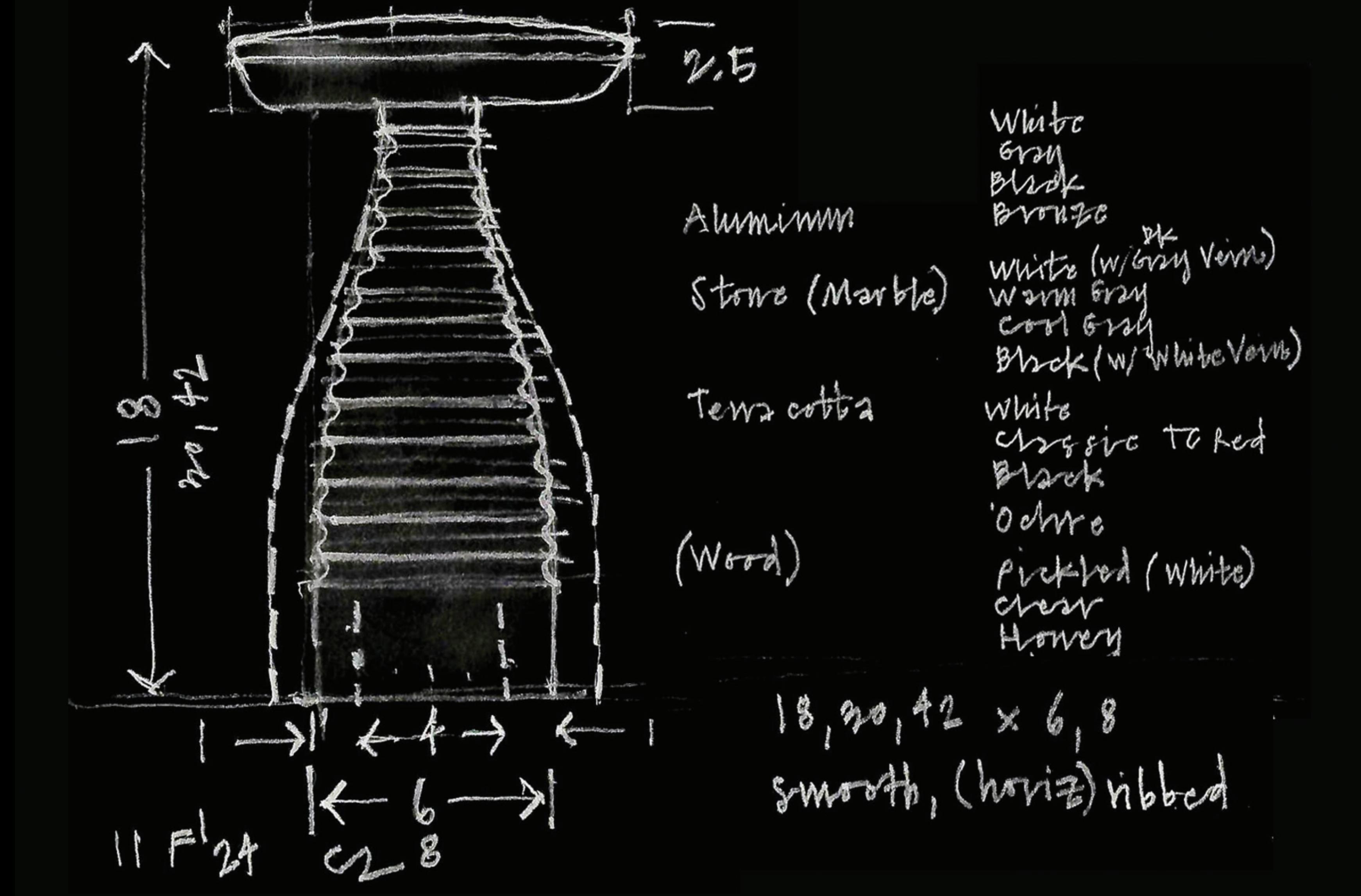


# Enduring material and textures for lighting

In stone, VAZ bollards are contemporary takes on ancient Roman milestones that mark historic roadways in Europe and Asia, which are present, even today after thousands of years.

The porcelain options provide time-tested durability along with more vivid color possibilities. The glazed surfaces deepen the refracting light and add extra sparkle, like the celebrated and enduring roof tiles adorning centuries-old temples in Kyoto.

The stone and porcelain options evoke nature's enduring strength and timeless beauty, offering a meaningful connection to the natural world.



## Product Specifications

### Product:

Bollard  
SteelCore Bollard

### Construction:

Cast Aluminum Head  
Smooth Spun Aluminum Base  
Ribbed Machined Stone Base  
Ribbed Molded Porcelain Base

### Light Engine:

1, 2, 3, or 4 Quadrants  
Standard or High Output levels  
1Q: 172 - 403lm  
2Q90: 356 - 832lm  
2Q180: 359 - 841lm  
3Q: 535 - 1,253lm  
4Q: 703 - 1,646lm  
up to 110lm/W

### CCT:

Amber  
2700K  
3000K  
3500K  
4000K  
5000K

### CRI:

80CRI minimum

### Options:

GFCI Receptacle  
Speaker  
Surge Protection  
Separate Dimming of Quadrants  
Hot Dip Galvanized finish (SteelCore only)

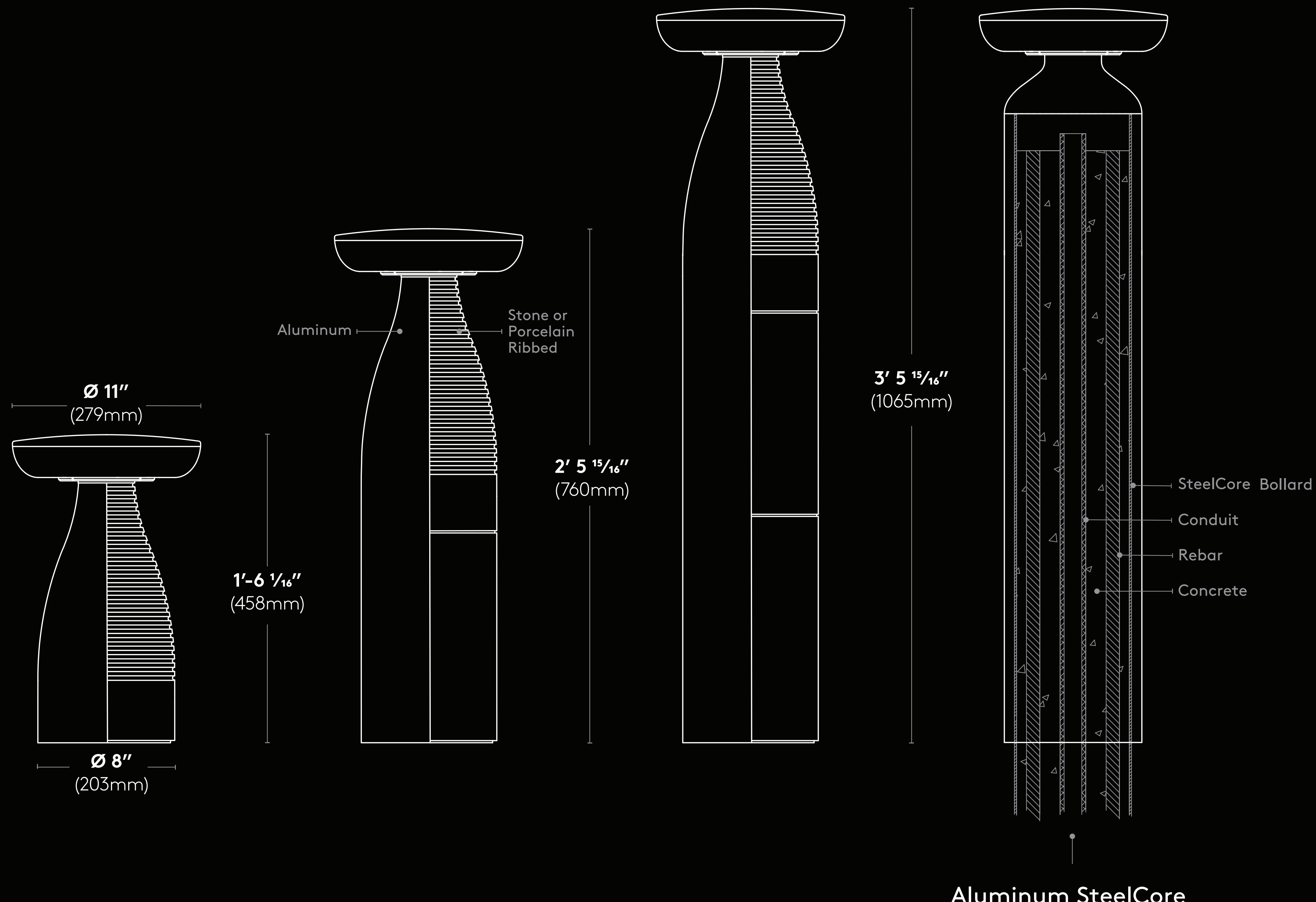
### Declare.

IP65

IK10

DarkSky Approved

# Your Guide to VAZ Sizes and Specifications



# Sculpted Materials Brought to Life by Light

The Signature Series of VAZ is distinguished by the way light interacts with its horizontally ribbed form. As the fixture illuminates, soft gradients of light cascade down each rib, enhancing the texture, depth, and sculptural character of the material. This gentle flow of illumination creates a subtle glow that elevates the fixture's visual presence in any environment.

By treating light as an integral design element, VAZ reveals its form in a refined, timeless way — appearing elegant by day and strikingly dimensional at night. The interplay of ribbing, smooth surfaces, and illumination creates a cohesive aesthetic across the entire family, bringing a sense of craftsmanship and harmony to pathways, plazas, and other outdoor spaces.



Open Spaces Come to Life  
with the Flowing  
Shape of VAZ



# Diverse in Material, and in Stature

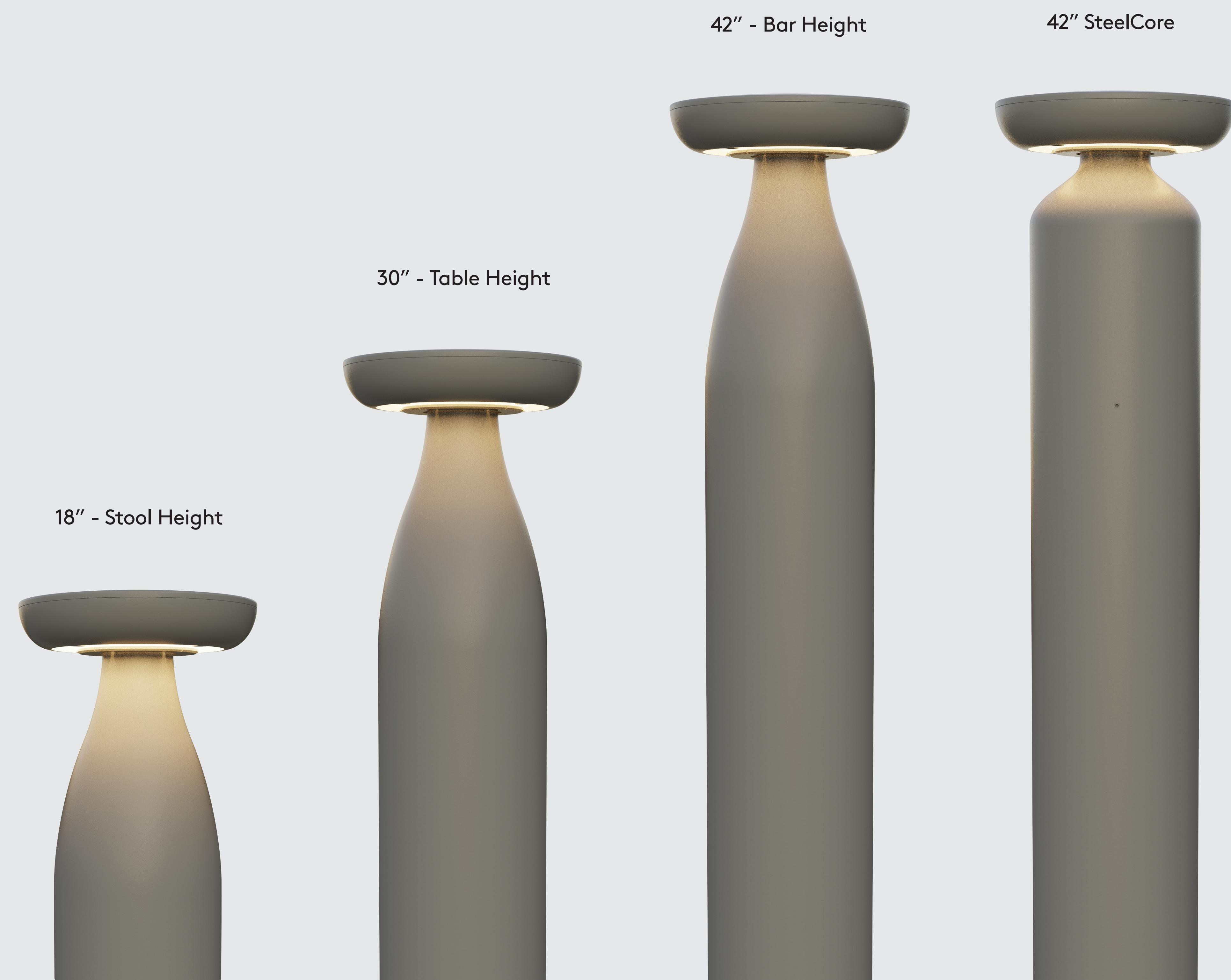
Adaptable for every application, size differences allow VAZ to integrate seamlessly with site furnishing plans. Designed specifically to coincide with typical furniture heights and to have full cutoff lighting, this bollard can be used throughout outdoor spaces without worry of interference of form or function.

**18" - Stool Height** - sized at the height of stools so that when space is at a premium, the lighting doesn't interfere with the seating area, and illuminates low areas with great spacing.

**30" - Table Height** - not to overtake the space when occupants are sitting at tables, this height allows for efficient and uniform lighting throughout the setting.

**42" - Bar Height** - bring height into your design by using the tallest VAZ, elevating not just the sight line but also the entire project.

**42" SteelCore** - provides protection while maintaining a consistent aesthetic for use with other VAZ bollards.



# Blending Form into the Landscape



# Highly Efficient and Comfortable Lighting

VAZ features a proprietary light engine housed in a precision-tooled fixture head, paired with stone, porcelain, or metal finishes that define its character. Designed for efficiency and comfort, it delivers uniform, glare-controlled illumination for paths and walkways while maintaining an uplight of U0 to preserve the night sky.

The **smooth White reflector** is highly efficient and helps guide light down the side of the bollard, reducing dark areas around the bollards and illuminating the smooth surface of the aluminum version, or bringing a striking illusion down the ribs of the stone or porcelain base.

The **injection-molded lens** seals the light chamber, and also helps create a wide lateral throw of light for greater spacing of even the shortest bollards.

**Indirect placement of the LED** prevents direct view of the source, and helps aim the light onto the reflector systems.

The **highly specular tooled reflector** increases the efficiency, while ensuring the light is aimed where intended - out for wide spacing, and down for visually-appealing illumination of the base material.



# Innovative Modular Light Distribution

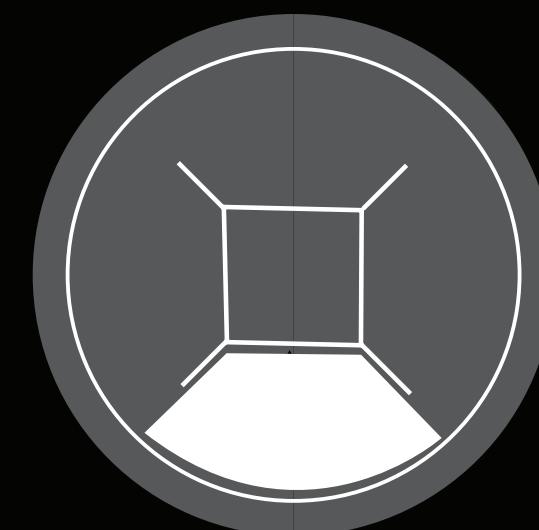
VAZ features a customizable radial emission pattern, offering 90°, 180°, 270°, and 360° quadrant lighting to focus light where it is needed. The targeted illumination of VAZ was designed with a strong commitment to DarkSky preservation.

With its advanced optical system, VAZ not only meets the rigorous standards of DarkSky International but also enhances performance. The optical design enables wider on-center spacing and exceptional uniformity to deliver efficient, comfortable illumination across pathways and walkways.

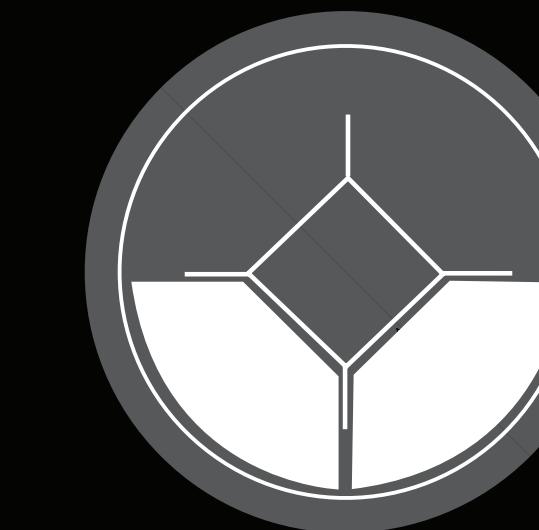
The VAZ quadrant system divides the luminaire into independently defined light segments, allowing designers to direct illumination precisely where it is needed while minimizing unnecessary spill. Each quadrant (90°, 180°, 270°, or full 360°) can be specified and selectively dimmed to respond to site conditions such as adjacent buildings, planting zones, or sensitive environments. This level of control is ideal for pathways, plazas, courtyards, and waterfronts where different light levels may be required on each side of the luminaire. Separate dimming also supports time-based or adaptive lighting strategies, reducing energy use and maintaining visual comfort without sacrificing safety or visibility.

Standard Quadrants with Distributions

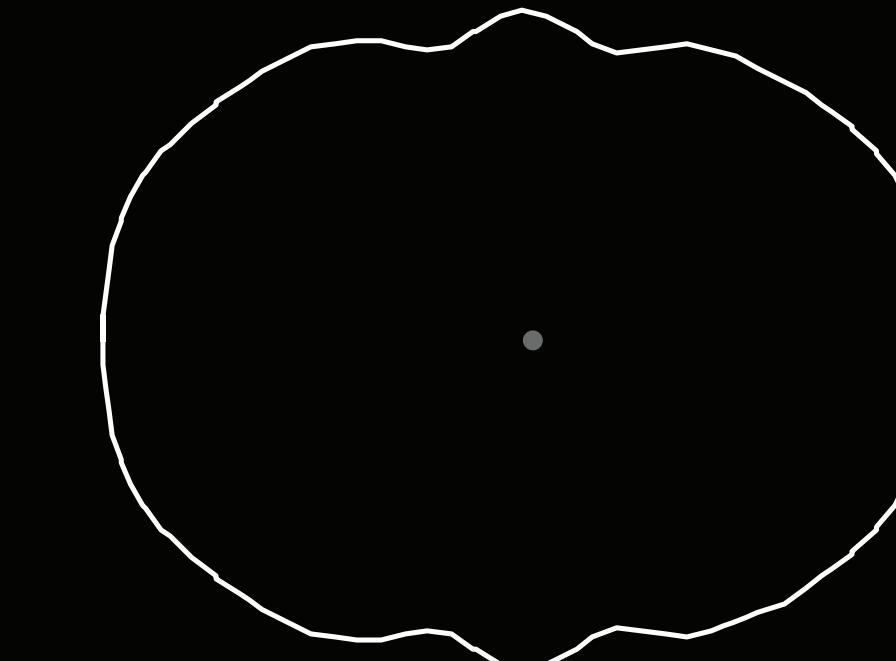
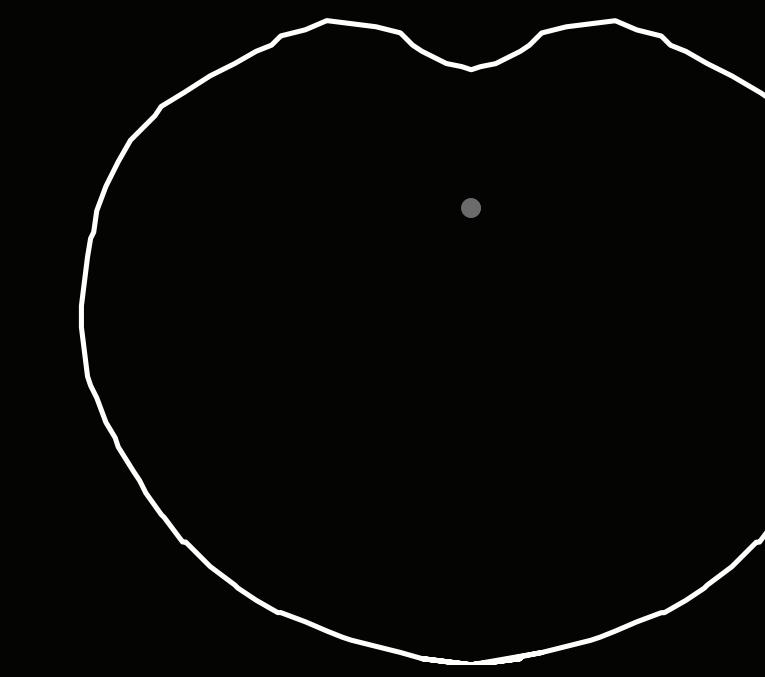
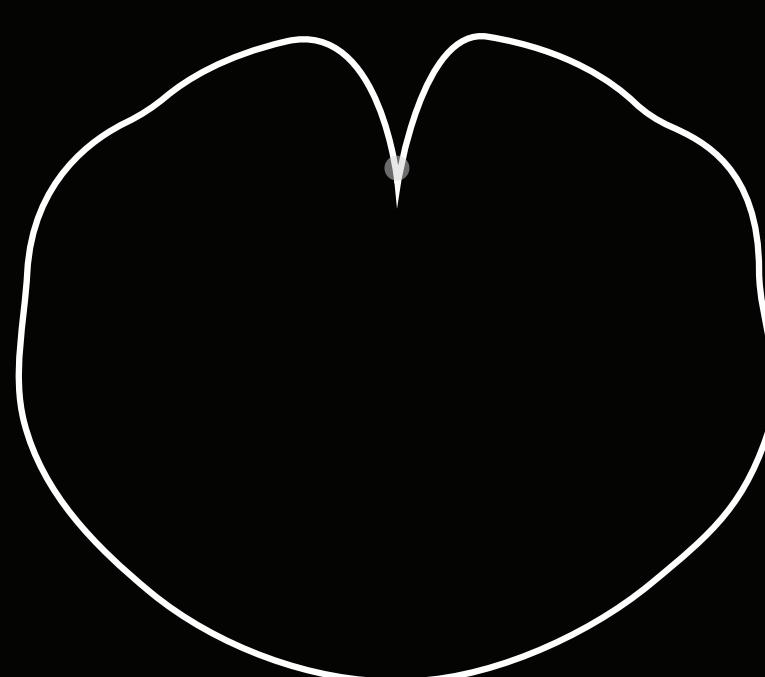
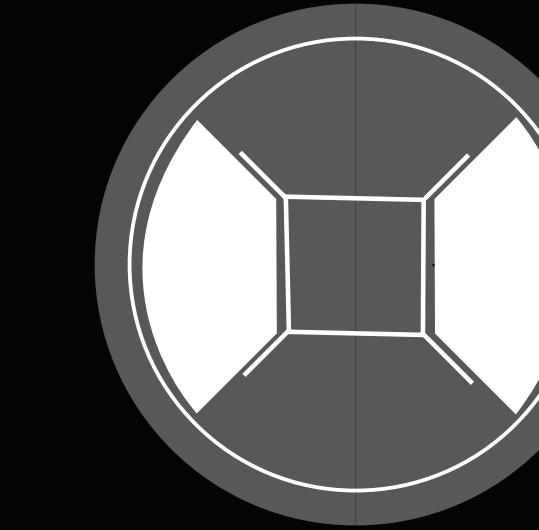
1Q



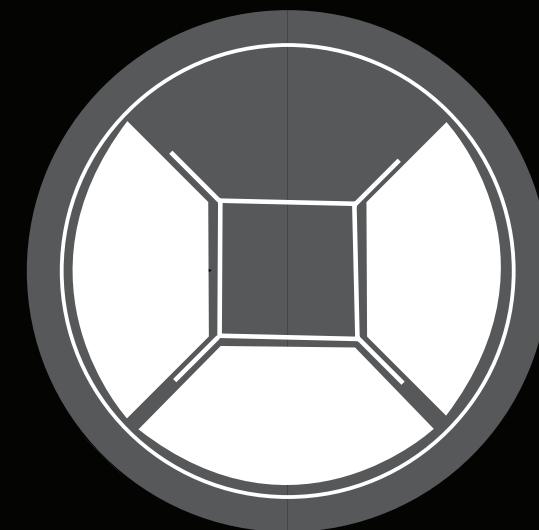
2Q90



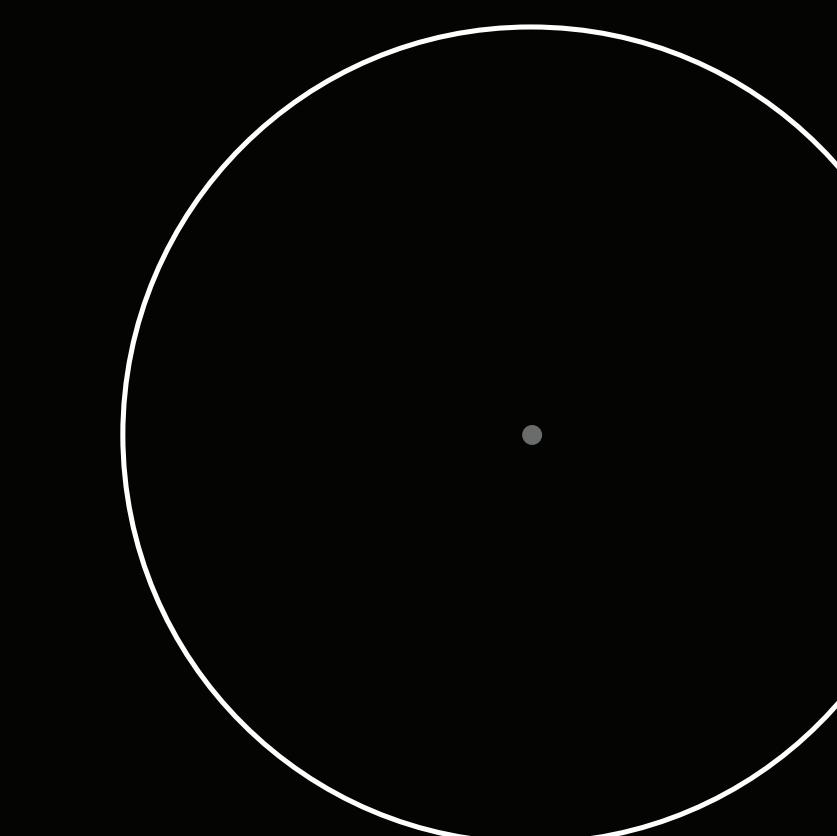
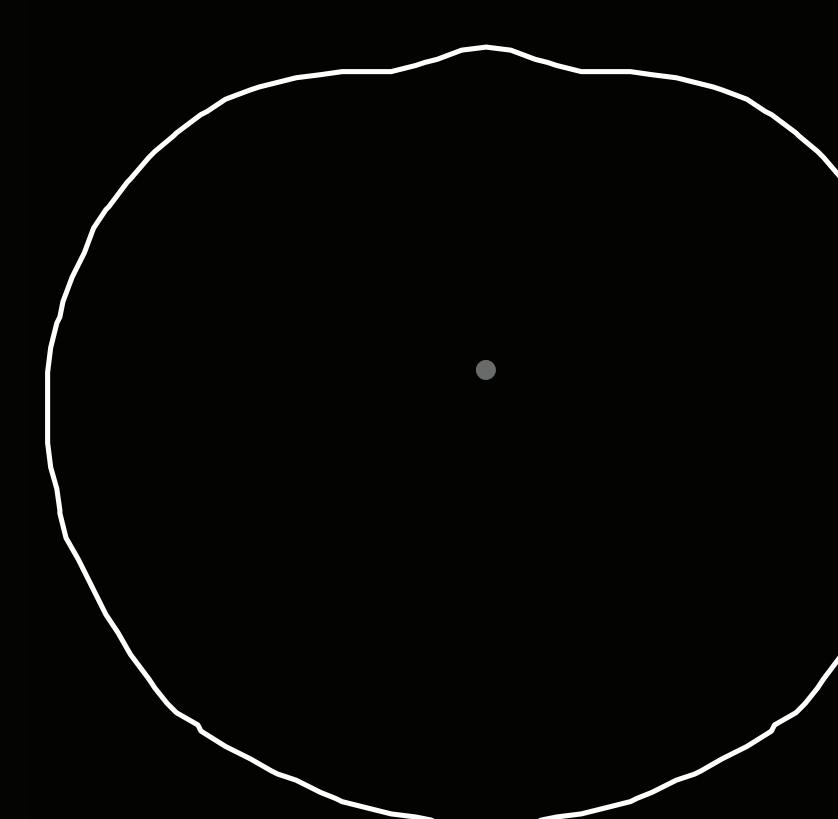
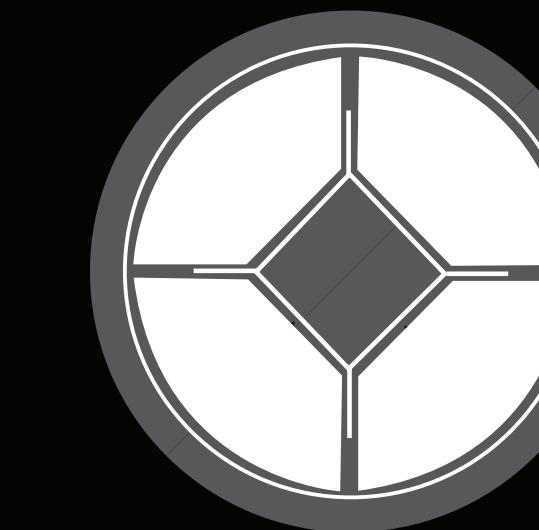
2Q180

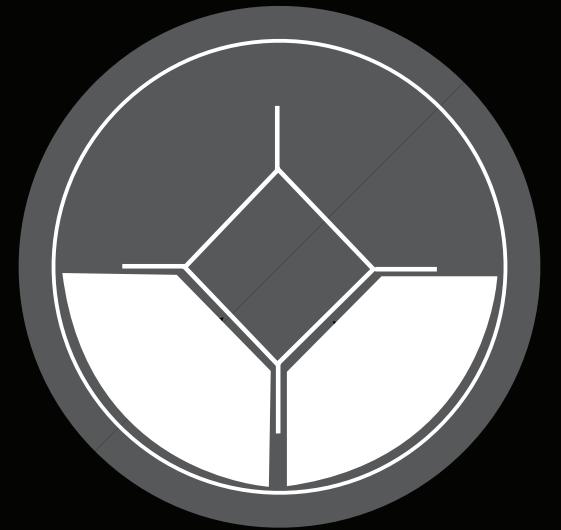


3Q



4Q



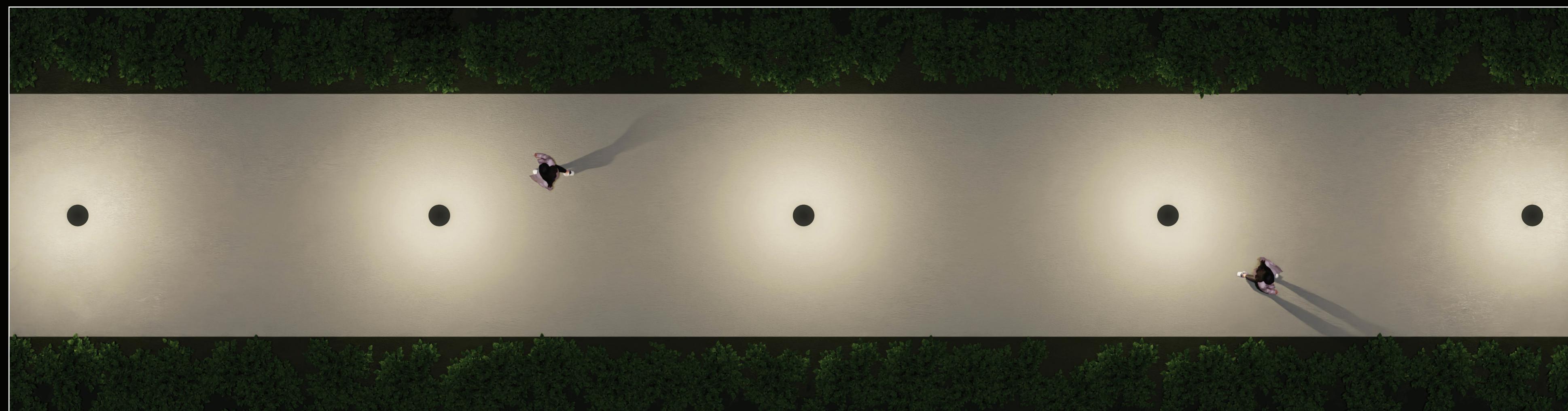
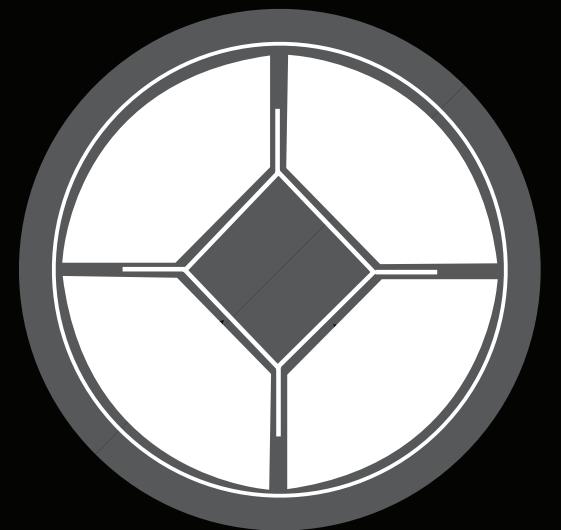


VAZ-2.5-4Q at 26' O.C. Spacing  
6' pathway width, target minimum illuminance of 0.1fc and avg/min illuminance ratio of 4:1.

Adequate  
Illumination to  
Ensure Safe  
Navigation in any  
Application

VAZ can be specified with different distributions to best suit the needs of the project. With all four quadrants illuminated, VAZ casts a uniform radial distribution (360°). This distribution is ideal for bollards located in the center of a path or to illuminate open areas, or accent plantings when located at the edge of a path.

To aim light at the path but reduce backlight the 2Q90 (180°) distribution can be used.



VAZ-3.5-4Q at 18' O.C. Spacing  
12' pathway width, target minimum illuminance of 0.1fc and avg/min illuminance ratio of 4:1.

# Consistent Light, Wherever Guidance is Needed

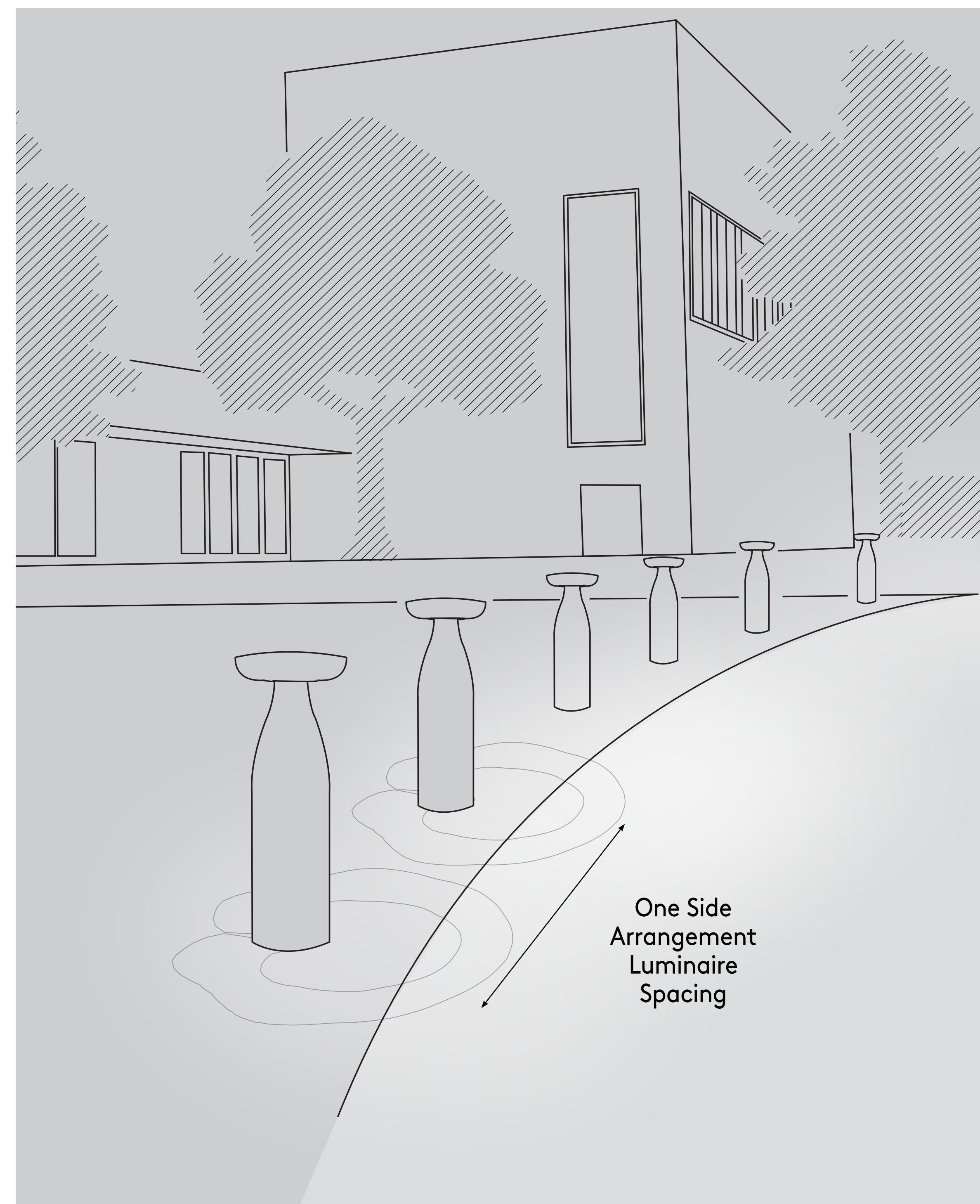


# Height-Based Spacing for Optimal Illumination

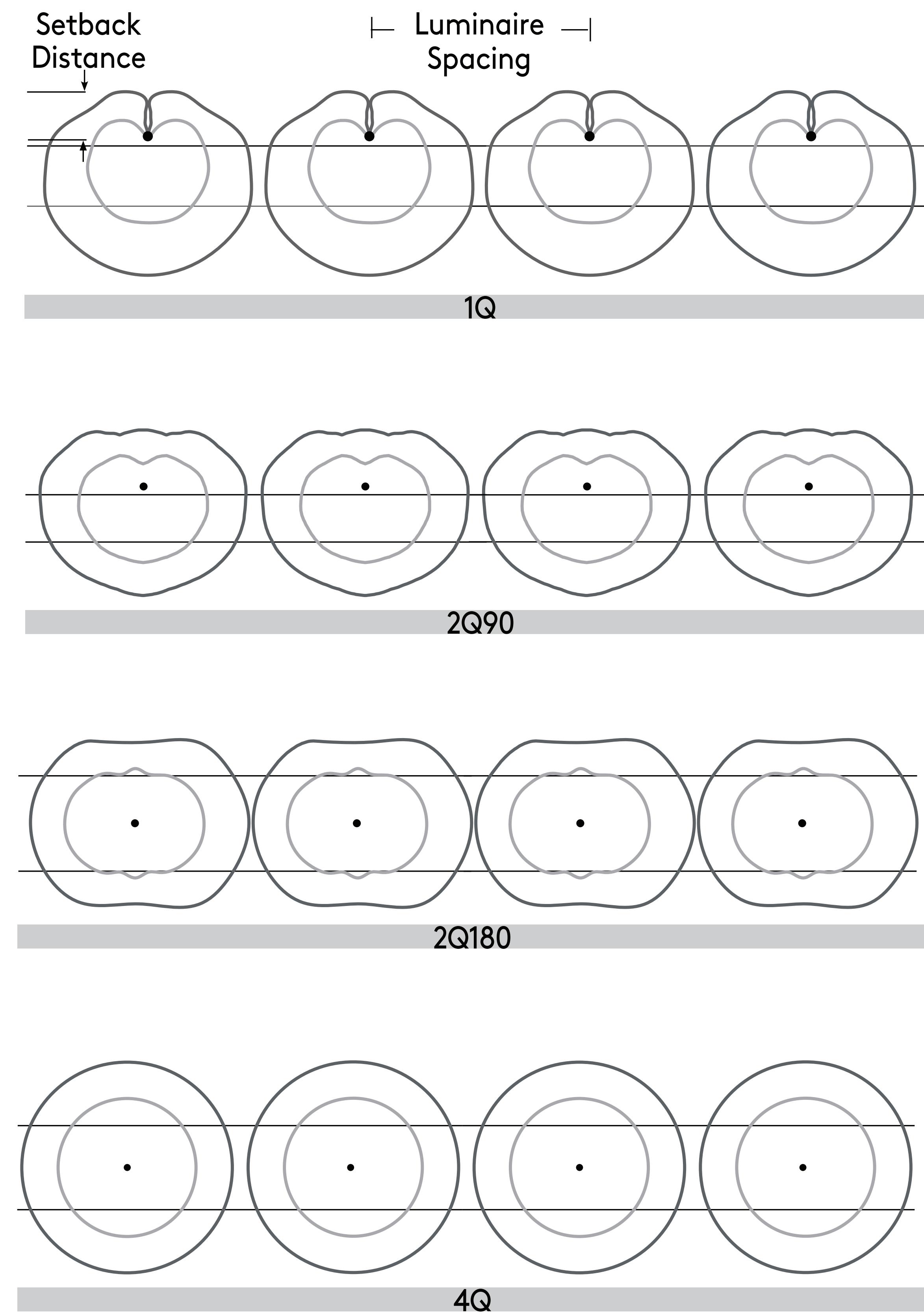
When lighting pedestrian pathways, spacing plays a critical role in both safety and visual comfort. VAZ is designed with precise optical control to deliver focused, uniform light at ground level. Following the recommended spacing based on bollard height ensures consistent illumination along the path while avoiding unnecessary overlap, glare, or light trespass.

Proper spacing not only supports clear visibility and orientation for pedestrians, but also reinforces VAZ's commitment to DarkSky principles. By keeping light directed where it is needed, the surrounding landscape and night sky remain protected from excess brightness.

Use the chart and line drawing to the right as a guide to know where to start with VAZ placement. Keep in mind that all applications are different, and there are so many options with VAZ heights and light engines, that not all lighting layouts are covered. For additional information please contact the Selux Lighting Solutions team.



One side arrangement, 6' wide path; 1' setback; 0.90 LLF; minimum illuminance = 0.1fc				
Overall Height	1Q		2Q90	
	SO	HO	SO	HO
<b>2.5 ft.</b>	17	16	16	18
<b>3.5 ft.</b>	22	23	25	28



# Strategic Centering for Consistent **All-Around Light**



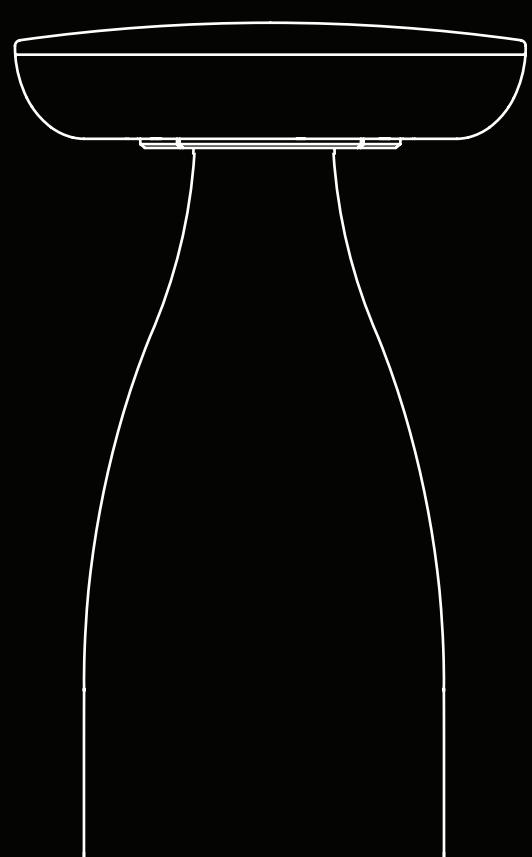
Center arrangement, 12' wide path; 0.90 LLF; Min. Illuminance = 0.1 fc.				
	2Q180		4Q	
	SO	HO	SO	HO
Overall Height	Luminaire Spacing (ft.)	Luminaire Spacing (ft.)	Luminaire Spacing (ft.)	Luminaire Spacing (ft.)
2.5 ft.	16	18	18	24
3.5 ft.	25	28	27	32



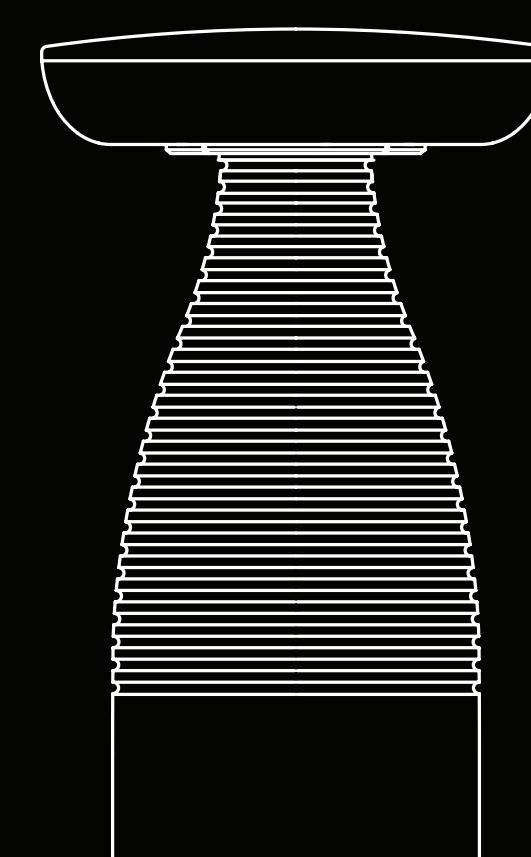
# VAZ Standard Color Palette:

## Perfectly Coordinated Head and Base Finishes

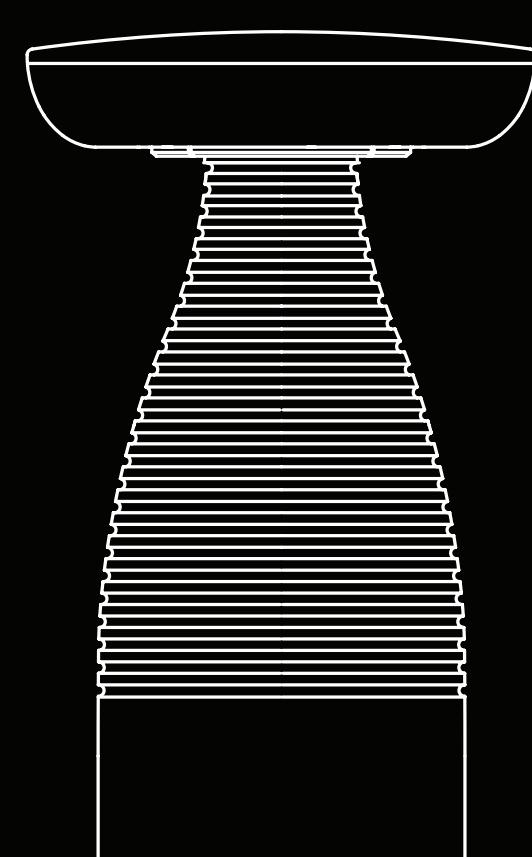
Coordinated Aluminum Head with same color Aluminum Base



Coordinated Aluminum Head with Stone Base



Coordinated Aluminum Head with Porcelain Base



Standard

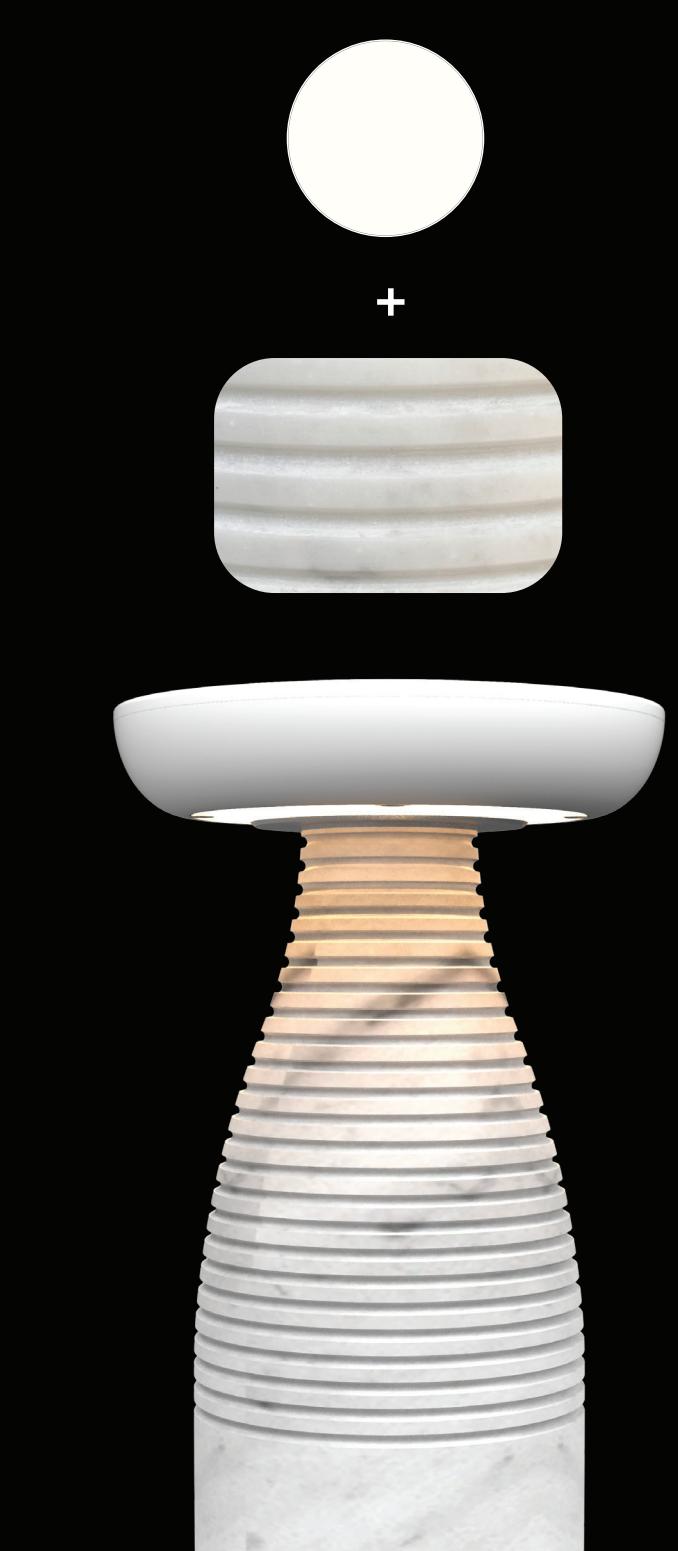
White (WH)	Glossy Black (BK)	Semi-Matte Black (BL)	Silver (SV)	Bronze (BZ)

Standard

Semi-Matte Black (BL)	White (WH)	Silver (SV)	Bronze (BZ)

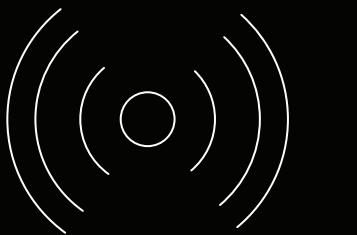
Standard

Glossy Black (BK)	White (WH)	Glossy Black (BK)	Glossy Black (BK)



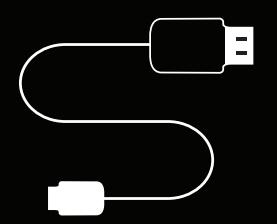
\*Premium finishes are available on a project-specific basis.

# VAZ Bollard Options



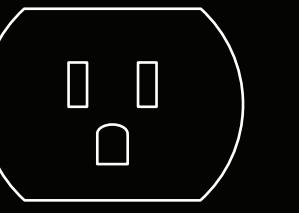
## Speaker

Combine lighting and sound within one bollard for a sleek, integrated design with benefits like enhanced security and immersive entertainment spaces.



## USB & Duplex Receptacle

The outdoor GFCI receptacle with USB charging port is intended for use of portable tools and equipment when attended by personnel. The USB charging port allows convenient charging of smart phones or other low voltage electronics.



## GFCI

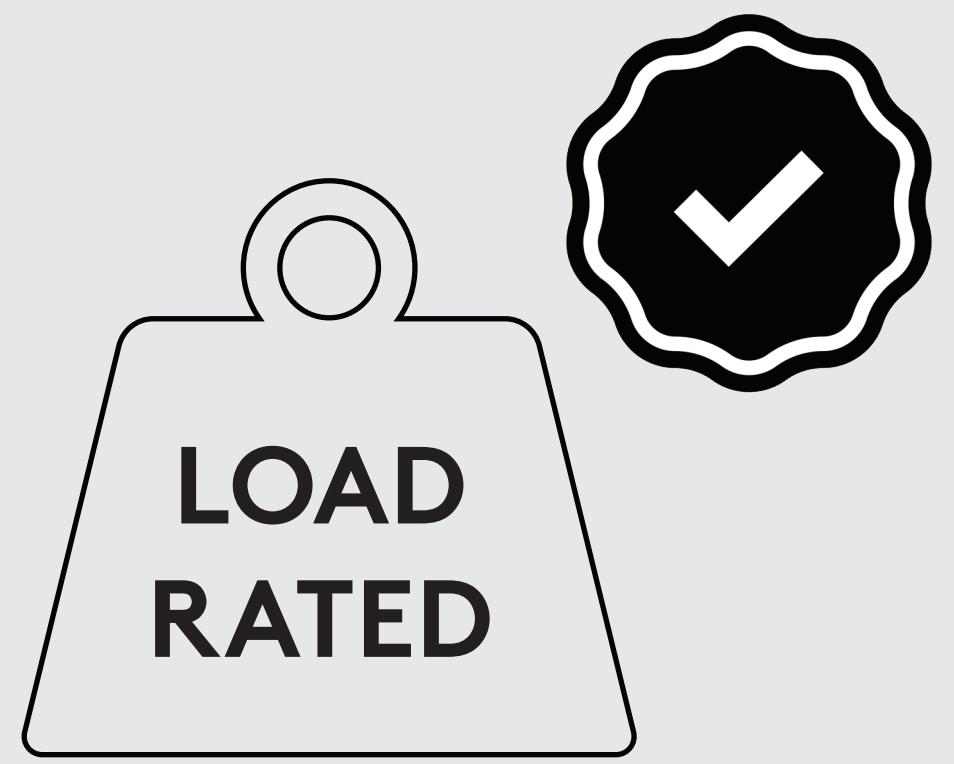
The outdoor GFCI duplex receptacle is intended for use of portable tools and equipment when attended by personnel. It is weatherproof with its self-closing cover and can be used with or without a padlock.



# Light, Interpreted in Material and Color

Select from our standard finishes and coordinated head color, or select your own combination by consulting the factory. Note that the variation in veining and color within the stone bases will make each bollard a unique piece of art, and that different stones might be preferred with a different head color. You may also consult the factory for complete custom stones if you want to match other natural materials within your project.





**VAZ handles the weight** - Designed for both performance and resilience, VAZ is load rated to withstand up to 500 lb. Its solid construction allows it to safely handle incidental contact or seating, blending seamlessly into public spaces without compromising strength or safety.



**IK10** - With an IK10 impact rating, VAZ is built to resist vandalism, accidental contact, and harsh environmental conditions. This added protection extends product lifespan while minimizing maintenance and replacement costs.



**UL Certification** - VAZ carries UL Certification, verifying that it meets stringent electrical safety, thermal performance, and mechanical load testing standards. This ensures reliable operation in demanding environments while reinforcing its tamper-resistant, impact-rated design.



**IP65** - VAZ is IP65 rated in accordance with IEC 60598-1 / IEC 60529, providing complete protection against dust and resistance to water jets from any direction. This makes it suitable for exterior environments and areas subject to regular hosing or wash-down.

Backed by  
Testing.  
Proven in  
Performance.

Quality that's verified.

# DarkSky Certified

Lighting that Respects  
Natural Darkness

Preserving the dark night sky is fundamental to healthy ecosystems and human well-being. Responsible outdoor lighting reduces glare, light trespass, and skyglow—supporting both environmental stewardship and high-quality visual comfort.

VAZ™ meets DarkSky International's rigorous requirements and is approved for use in **Commercial**, **Residential**, and **Pedestrian Comfort** applications.



## Engineered for Strength and Durability



### VAZ SteelCore Bollard

VAZ SteelCore crash rated bollard is designed for protecting pedestrians and property from the threat of vehicular impact. VAZ SteelCore Bollard meets IESNA recommended light levels while also meeting crash ratings set forth by the American Society for Testing and Materials (ASTM). With an overall outside diameter of 8 inches, VAZ SteelCore bollard blends inconspicuously into the hardscape and can be combined in a lighting plan with other Selux luminaires. This provides protection without the appearance of overwhelming security.

### SteelCore Bollard Certifications

ASTM Standard F3016/F3016M for Testing of Protective Devices at Low Speeds		
Vehicle	Speed Rating	Penetration Rating
Vehicle (with specified crumple zone) 5,000lbs	S30 - up to 30mph	P1 ≤ 1ft

The ASTM F3016/F3016M Test is performed with a vehicle with a designed crumple zone in the nose and must weigh 5,000lbs +/- 110 lbs. During the test, the vehicle must hit the bollard at 28 inches +/- 1 inch, head on, at 90° +/- 1.5°.

ASTM Standard F2656 for Small Passenger Car Testing of Protective Devices at High Speeds		
Vehicle	Speed Rating	Penetration Rating
Small Passenger Car 2,430lbs	C40 - up to 40mph	P1 ≤ 3.3ft

The ASTM F2656 Test is performed with a variety of vehicle sizes. This test was performed with a small passenger car that weighs 2,430lbs. Above are the test results based on the required testing on a small passenger car for ASTM F2656.



# Declared with Integrity. Trusted by Design.

**Our commitment to transparency isn't just a label — it's a promise.** Every product is verified, safety-tested, and built reliably in our Highland, NY facility to earn your trust.

# Declare.

## VAZ Prioritizing Sustainability

Declare is a platform to share and find healthy building products. Manufacturers willingly disclose product information that can be found on the Declare labels. These labels are then accessible on a free and searchable database used by prominent designers, real estate owners and home owners, to specify products they know they can trust and that meet the requirements of leading green building standards, including Core Green Building, LBC, LEED, and WELL Certification.

Declare has positively changed the materials marketplace to enable the creation of buildings that support human and environmental health and has made it extremely easy to facilitate and simplify the exchange of information.

Selux is also proud to be Living Future Corporate Member. With this credential, Selux is recognized for its proficiency in the world's more ambitious, advanced, and holistic sustainable design standards.

You can trust that with these credentials, VAZ by Selux supports a more sustainable future.

# Declare.



### VAZ Bollard Selux Corporation

**Final Assembly:** Highland, New York, USA

**Life Expectancy:** 5+ Year(s)

**End of Life Options:** Recyclable (90%), Landfill (10%)

#### Ingredients:

Aluminum; Aluminum Compounds; Polymethyl methacrylate; Silicon; LED Driver<sup>1</sup>; Carbonic acid, polymer with 4,4'-(1-methylethylidene)bis[phenol]; LED PCB<sup>1</sup>; Stainless Steel; Polydimethylsiloxane rubber; Nylon 6/6; Copper; Zinc; Acrylic acid

<sup>1</sup>LBC Temp Exception RL-002 - Small Electrical Components

**Living Building Challenge Criteria:** Compliant

#### I-13 Red List:

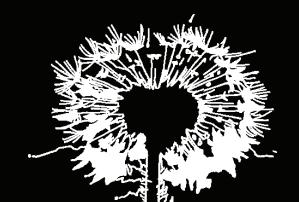
- LBC Red List Free % Disclosed: 100% at 100ppm
- LBC Red List Approved VOC Content: Not Applicable
- Declared

**I-10 Interior Performance:** Not Applicable

**I-14 Responsible Sourcing:** Not Applicable

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UNION MADE  
IBEW LOCAL 363  
IP65 IK10 Declare.

