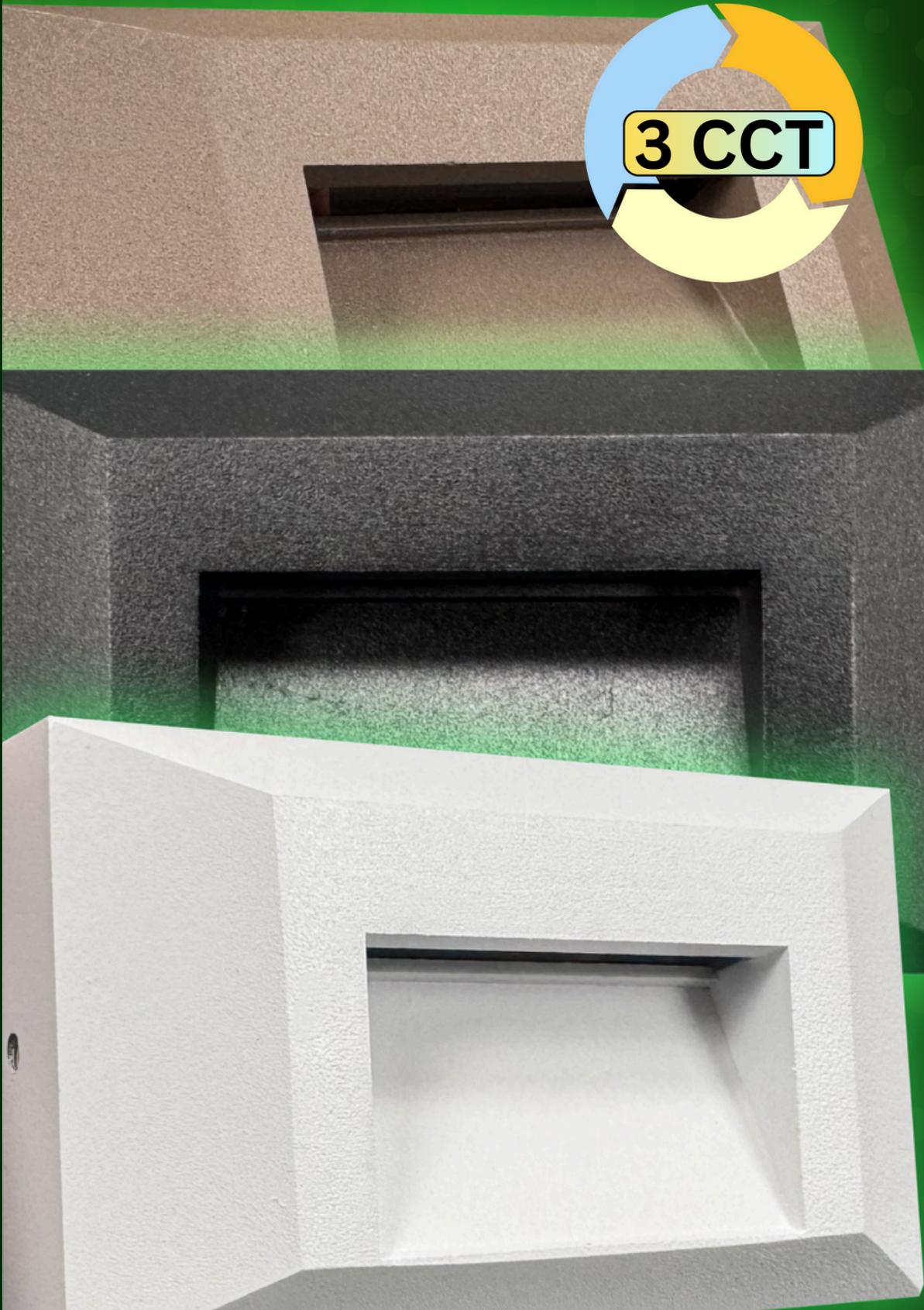


# STAO3

STEP LIGHT



3 CCT



## INSTALLATION GUIDE

ABBA LIGHTING USA

# STAO3 STEP LIGHT

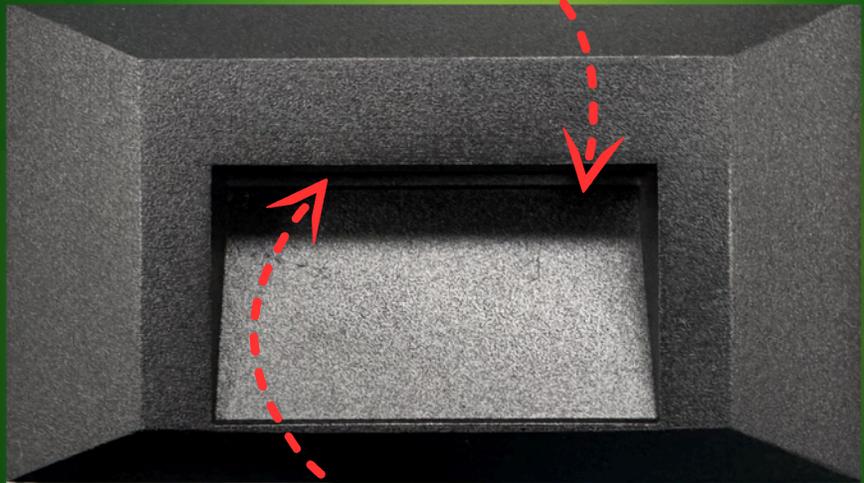
**FEATURE:**  
**SURFACE  
MOUNT**

**MATERIAL:**  
**HEAVY  
DUTY  
CAST  
ALUMINUM**

**WATERPROOF  
RATING:**  
  
**IP65**



2W AC/DC 12V



240 LUMENS



3000K



4000K



5000K

ABBA LIGHTING USA

Thank you for choosing our high-quality product. To ensure the best possible experience, please take a moment to carefully read and follow all instructions before assembly, installation, and use. Doing so will not only guarantee proper function and safety but also help you maximize the full potential of this exceptional product. We truly appreciate your business and are honored to be your trusted provider of top-notch products!



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# WARNING

## TO REDUCE THE RISK OF FIRE OR INJURY TO PERSONS:

- ✓ Please exercise caution when using the lamp, as it tends to HEAT up rapidly. We recommend taking necessary safety measures to ensure optimal usage.
- ✓ For your safety, please refrain from touching the HOT lens, guard, or enclosure. We recommend waiting for the product to cool down before handling it.
- ✓ To prevent any fire hazards, please ensure that the lamp is kept away from materials that may easily catch fire. We appreciate your cooperation in maintaining a safe and secure environment.
- ✓ For safety reasons, we recommend that only a qualified professional install this electrical product.
- ✓ Before attempting to install this unit, ensure all power connections are off for your own safety.

# WARRANTY

- We stand behind the quality of our product and offer a 2 year warranty. Kindly ensure that you keep the proof of purchase as it will be required for any warranty claims.
- Warranty will be void if there is any damage due to improper usage or modification to the fixture.
- Failure to comply with the instruction in this manual may increase the risk of damage or injury and will void warranty.



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# CAUTION:

**FIXTURE(S) MUST BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.**

**DO NOT INSTALL WITHIN 10 FEET OF A POOL, SPA OR FOUNTAIN**

## STA03 Integrated 3CCT Aluminum Step/Deck Light – Refined Outdoor Illumination

The STA03 Integrated 3CCT Aluminum Step/Deck Light from Abba Lighting USA is a sleek and reliable solution for accenting stairs, deck surfaces, and low-level architectural features with customizable light tones. Designed for outdoor and indoor environments, this fixture combines minimalist aesthetic with practical illumination control, making it an excellent choice for modern landscape, patio, or interior accent lighting.

This integrated light is constructed from precision-machined aluminum, offering durability and corrosion resistance for long-term performance. Its low-profile design sits cleanly within stairs, deck boards, or wall surfaces, creating a refined visual effect that enhances both safety and ambiance. With three selectable color temperatures, you can set the lighting to match the mood or match existing lighting schemes – from warm and inviting to cool and contemporary.

The STA03 is engineered for direct installation into steps, decking, or vertical surfaces, delivering smooth, even illumination that enhances visibility along walking surfaces without harsh glare. Its integrated LED technology ensures energy efficiency and long life, reducing maintenance while providing consistent, pleasing light quality.



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## Integrated LED Module

The built-in LED light source delivers balanced illumination without the need for separate bulbs, simplifying installation and reducing upkeep.

## 3CCT Selectable Color Temperatures

Allows you to choose from multiple color tones — warm, neutral, or cool white — so the lighting can be tailored to the space or design preference.

## Aluminum Construction

Durable, corrosion-resistant aluminum housing offers long-lasting performance in outdoor and indoor applications.

## Low-Profile Design

Flush mounting and compact form make this fixture discreet and elegant, ideal for steps, decks, risers, and vertical surfaces.

## Outdoor Rated

Built to withstand moisture and environmental exposure, making it suitable for exterior installation near walkways, patios, and decks.

## Installation-Friendly

Designed for straightforward installation with trim-less mounting, and compatible with standard low-voltage lighting systems.



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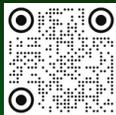
| Specification                | Details                                |
|------------------------------|--|
| <b>Model</b>                 | STA03                                  |
| <b>Construction Material</b> | Aluminum                               |
| <b>LED Type</b>              | Integrated LED                         |
| <b>Selectable CCT</b>        | 3-Color Temperature<br>(Warm, Neutral) |
| <b>Operating Voltage</b>     | Low-Voltage<br>(typically 12V)         |
| <b>Mounting Type</b>         | Inset step or deck installation        |
| <b>Weather Rating</b>        | Outdoor-compatible                     |
| <b>Color Options</b>         | 3000K, 4000K, 5000K (selectable)       |
| <b>Application Type</b>      | Steps, Deck Risers, Walls, Accents     |



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## Ideal Applications

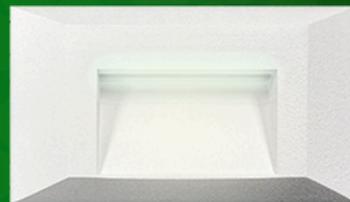
- Stair risers along outdoor decks or patios
- Vertical accents on walls and architectural surfaces
- Pathway and step safety illumination
- Interior step lighting for transitional spaces
- Commercial exterior accent lighting



3000K



4000K



5000K



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**CAUTION:**

# INSTALLATION GUIDE FOR STA03

## STEP-BY-STEP INSTALLATION INSTRUCTIONS

To ensure optimal performance and maximum safety, use this fixture **ONLY** with a low-voltage landscape transformer.

The transformer reduces standard household voltage from 120V to 12V, making it safe and suitable for outdoor applications.

### 1. Open the Fixture

- Using the Allen wrench provided, loosen and remove the two side screws.
- Carefully open the fixture to access the interior components.

### 2. Position the Mounting Plate

- Hold the outlet box / metal mounting plate against the wall at the desired height and orientation.
- Use a level to ensure the plate is properly aligned (horizontal or vertical as desired).

### 3. Mark the Drill Points

- With a pencil or marker, mark the screw hole locations through the holes in the mounting plate.

### 4. Drill Pilot Holes

- Select a drill bit slightly smaller than the mounting screws.
- Drill pilot holes at each marked location.
- Do not drill deeper than the length of the screws.

### Concrete Installation:

If installing into concrete or stairs, create conduit raceways inside the formwork using 1-inch dowels and PVC pipe before pouring concrete.

After the concrete cures, remove the dowels and finish the surface of each riser as required.



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# INSTALLATION GUIDE FOR STA03

## 5. Prepare the Electrical Connections

We recommend using WN12 Waterproof Wire Nuts (sold separately) for optimal performance and protection.

### a. Strip the Wires

- Strip approximately  $\frac{3}{4}$  inch (1.9 cm) of insulation from each wire end.
- Ensure the exposed conductors are clean and free of frayed strands.

### b. Align the Wires

- Hold the stripped ends together neatly, with no stray strands crossing.

### c. Install the Wire Nut

- Insert the aligned wires fully into the wire nut.
- Twist the wire nut clockwise until snug and secure.
- For additional protection, wrap the connection with electrical tape.

### d. Test the Connection

- Gently tug each wire to verify a secure connection.

## 6. Mount the Fixture

- Align the metal mounting plate with the pilot holes.
- Insert the screws through the mounting plate.
- Tighten evenly using a screwdriver.
- Do not overtighten.
- Confirm the plate is firm, level, and free from wobble.

### Deck Installation:

Carefully position the mounting plate within the deck opening before securing.

## 7. Final Assembly

- Place the top cover of the fixture in position.
- Secure it by tightening the side screws firmly.

## 8. Power & Testing

- Restore power at the transformer or breaker.
- Turn the system on and verify proper operation.
- Adjust the fixture orientation as desired and re-test.



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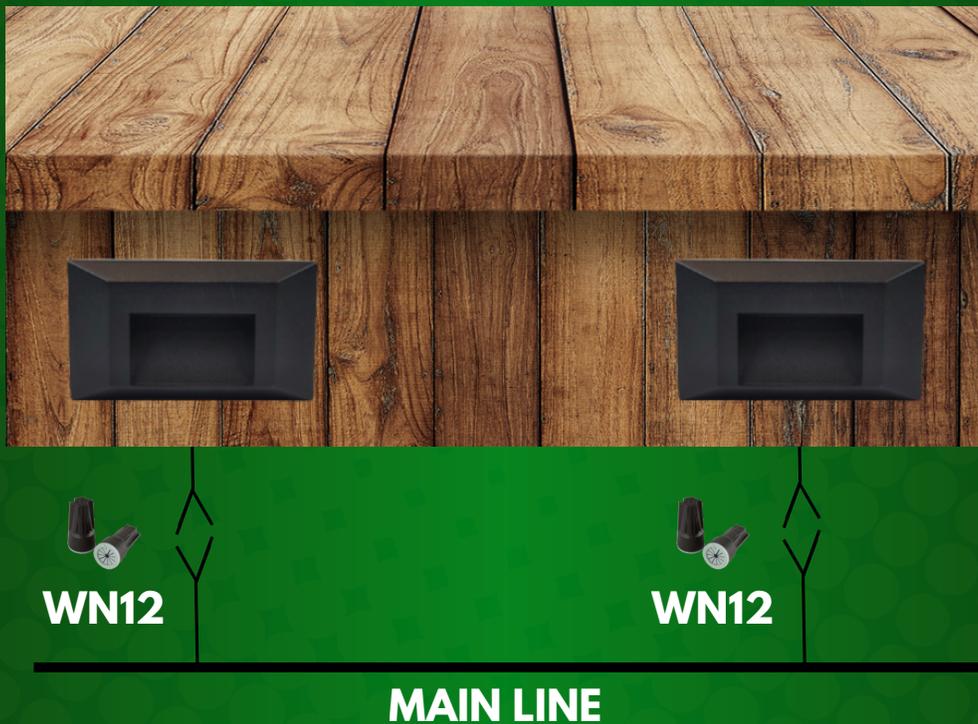
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# INSTALLATION GUIDE FOR STA03

## 9. Maintenance Reminder

To maintain optimal performance and longevity:

- Clean the fixture periodically.
- Inspect wiring connections regularly.
- Ensure all screws remain secure.



**Attach the wires from the fixture(s) to the main cable, For best results, we recommend using WN12 waterproof wire nuts (which are sold separately)**



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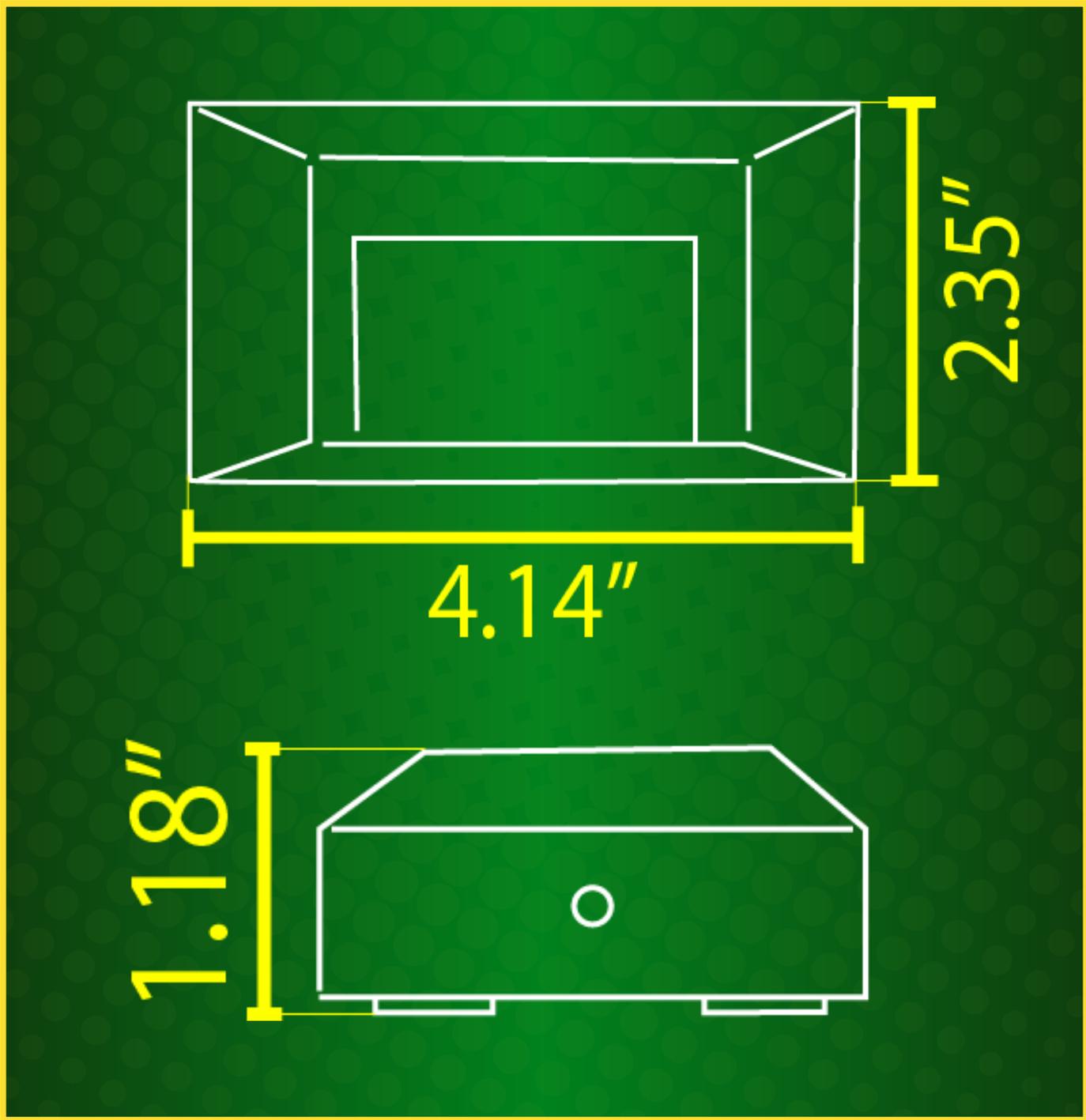


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# INSTALLATION GUIDE FOR STA03

## MAINTENANCE TIPS

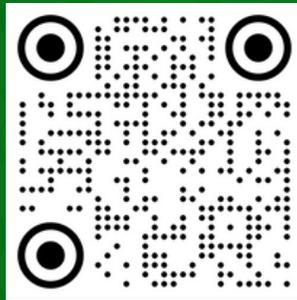
- **Regular Inspection:** Periodically check the bracket and fixture to ensure they are still securely mounted and functioning correctly.

## SAFETY PRECAUTIONS

- Always wear appropriate safety gear, such as gloves and safety glasses, during installation.
- Ensure the mounting surface is capable of supporting the weight of both the bracket and the lighting fixture.

## ADDITIONAL RESOURCES

For a detailed video tutorial on how to install, visit our YouTube channel and search for "STA03"



Please visit our website for more of our products.

[www.ABBALightingUSA.com](http://www.ABBALightingUSA.com)



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4000K

5000K