

# LUMINOSCAPE®

*Architectural Lighting Solutions*

## Cobra Static White Cobra RGBW Combined Source



# INSTALLATION GUIDE

**Important Note:**

This installation guide is intended for reference purposes only. All installations should comply with local laws, regulations, and site-specific conditions. The recommendations provided are general guidelines and may require adjustments based on the actual site situation. Always consult a qualified professional for final installation decisions.



WARNING:

- This product must be installed according to national and local electrical codes by a qualified individual familiar with DC systems, the product’s operation, and associated risks.
- Failure to follow the installation instructions may result in serious injury or death.
- Disconnect power before installation or maintenance to avoid electrical shock.
- Ensure the fixture is connected to the correct DC voltage and polarity as specified in the product documentation. Do not exceed the rated voltage.
- Do not install if the fixture, parts, or connectors are damaged.
- The fixture is rated IP66 and suitable for outdoor, wet locations.
- Do not submerge the fixture in water or other liquids.
- Avoid direct exposure to concentrated light from the pixel bar as it is designed for visual impact.
- Do not exceed the maximum number of fixtures in any single run. Refer to Table 1 for wiring limitations and power configurations.

**CAUTION:** Unauthorized modifications or repairs will void the warranty.

| MAXIMUM LOAD CAPACITY PER RUN (Table 1)                                       |                                                   |
|-------------------------------------------------------------------------------|---------------------------------------------------|
| Series                                                                        | Cobra Static White/<br>Cobra RGBW Combined Srouce |
| Input Voltage Range                                                           | 24VDC                                             |
| Max Power                                                                     | 11.25W per ft                                     |
| Max. Power Linking                                                            |                                                   |
| 310mm (1 ft)                                                                  | 10 nos.                                           |
| 610mm (2 ft)                                                                  | 5 nos.                                            |
| 1210mm (4ft)                                                                  | 2 nos.                                            |
| Max run length is for interlink and leading<br>cables (Fixtures not included) | 10 Meters                                         |

Remark:

- Please be aware that mounting screws and hex-head bolts are not included with your purchase. Installers will need to supply these items for installation.
- The actual maximum daisy chain limit may vary based on the gauge of the leading cable and the specific installation conditions. The values provided are recommended guidelines and should be considered as such. Please ensure that all installations comply with local electrical codes and safety standards.

# INSTALLATION INSTRUCTIONS

Cobra Flexible Linear

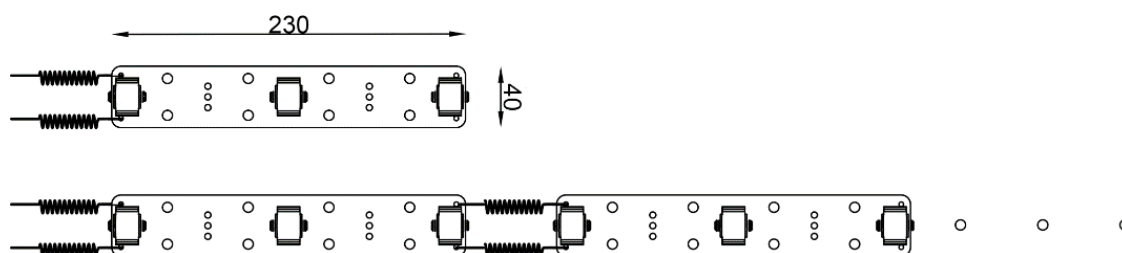
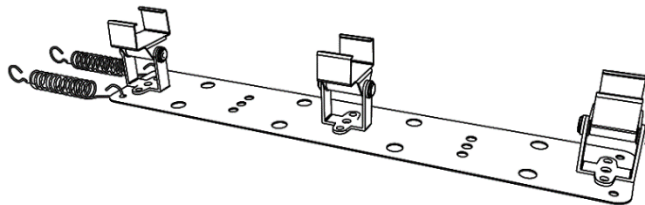
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## HARDWARE INSTALLATION STEPS (Tree/Cylinder Type Objection) – LS-TM-COBRA

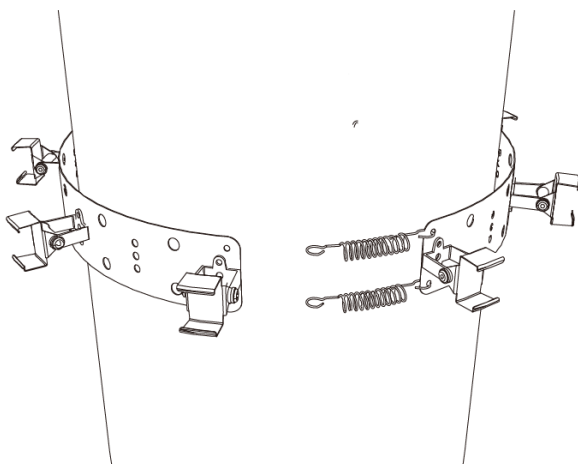
### STEP 1) Connect Mounting Plate:

Attach the mounting plate and slingshot as illustrated below. Link the mounting plates to achieve the desired length. Part number: LS-TM-COBRA.



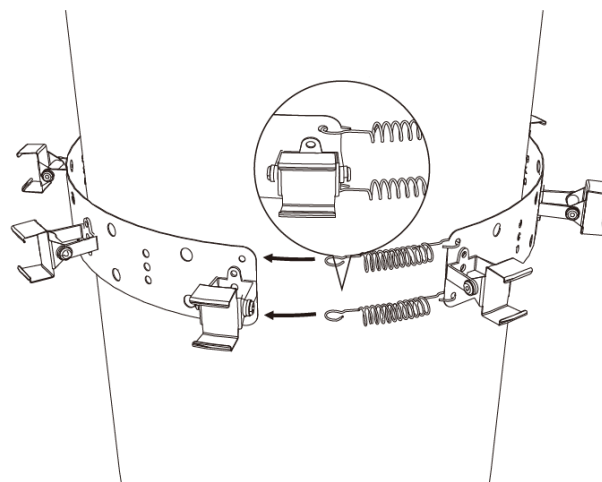
### STEP 2) Secure Attachment to Cylinder:

Ensure the mounting plate is firmly attached to the cylindrical object. Adjust the connection to accommodate the cylinder's diameter, ensuring adequate draw weight to hold the mounting plate securely in place and prevent it from slipping.



### STEP 3) Attach Slingshot:

Secure the slingshot to the previously installed mounting plate.



# INSTALLATION INSTRUCTIONS

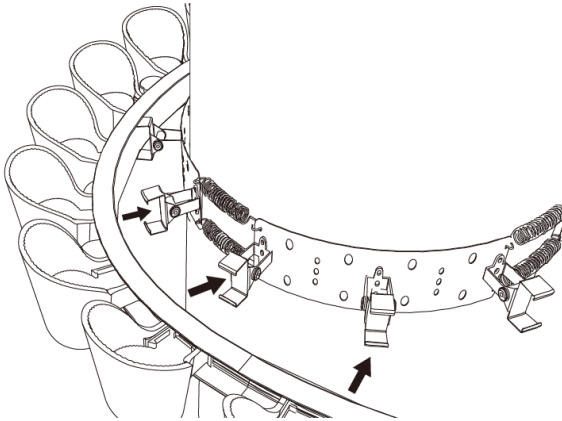
## Cobra Flexible Linear

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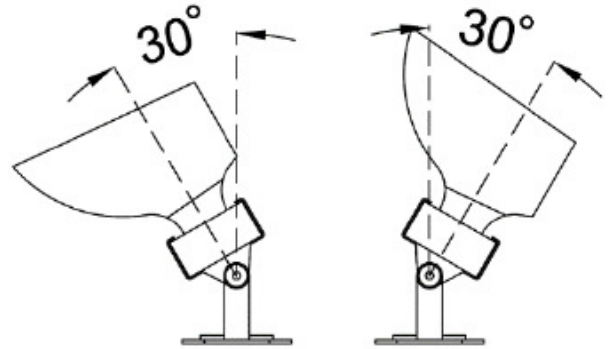
### STEP 4) Secure Fixture Firmly:

Press the fixture firmly against the mounting plate until it is fully secured.



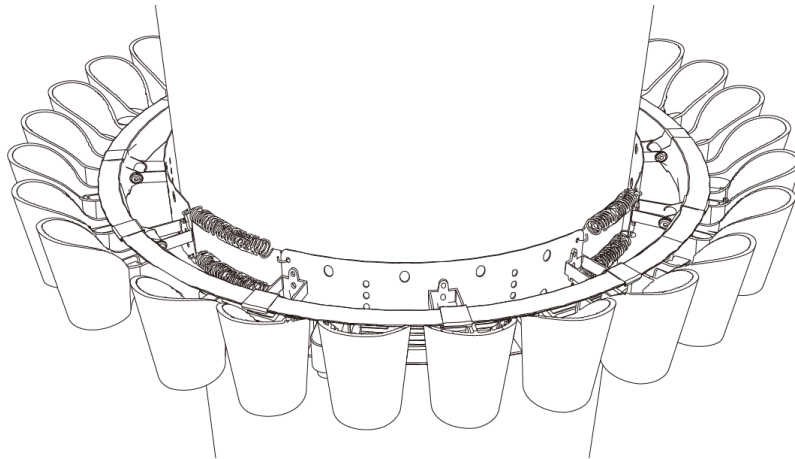
### STEP 5) Rotate Bracket Angle:

Adjust the mounting bracket to the desired angle.



### STEP 6) Connect Power and Controller:

Connect the fixture to a 24V constant power supply for static white. For RGBW, connect the fixture to both the power supply and the DMX controller.



# INSTALLATION INSTRUCTIONS

## Cobra Flexible Linear

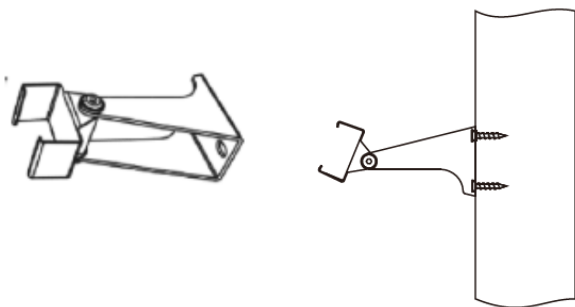
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### HARDWARE INSTALLATION STEPS (Wall Mounting) – LS-WM-COBRA

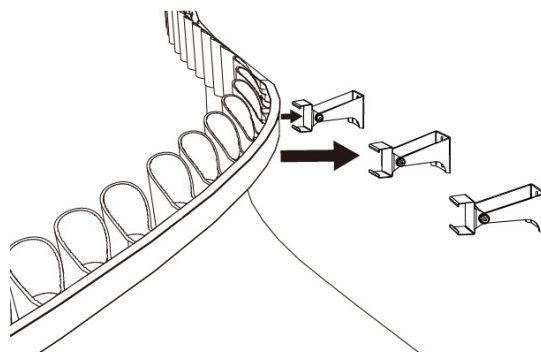
#### STEP 1) Position and Secure Bracket

Place the bracket in the desired location and firmly secure it by fastening screws through the holes on one side of the adjustable bracket.



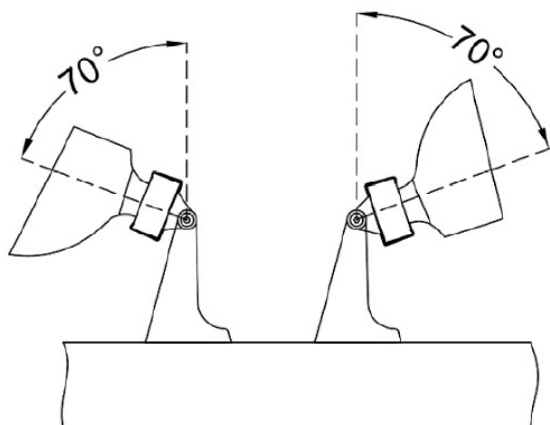
#### STEP 2) Press and Tighten Fixture:

Firmly press the fixture against the mounting plate until it is securely fastened.



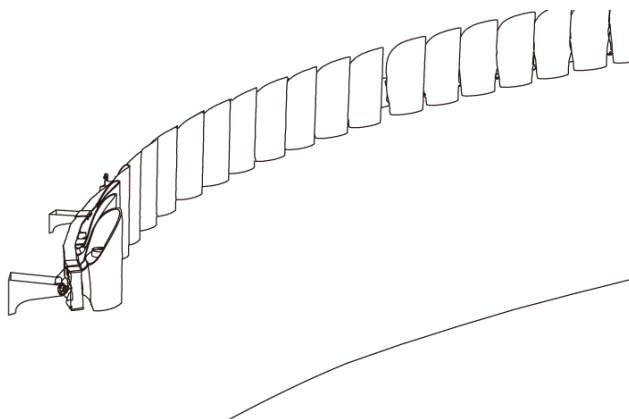
#### STEP 3) Adjust Bracket Angle:

Rotate the mounting bracket to the desired angle.



#### STEP 3) Connect Power and Controller:

Connect the fixture to a 24V constant power supply for static white. For RGBW, connect the fixture to both the power supply and the DMX controller.



# INSTALLATION INSTRUCTIONS

## Cobra Flexible Linear

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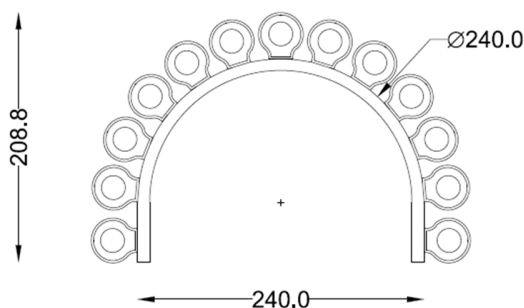
### WARNING (Static White):

- Ensure the Cobra is properly grounded, and the DC power supply includes overcurrent protection (e.g., a fuse or circuit breaker) and a disconnect device for servicing or when not in use.
- Confirm all wiring adheres to the recommended standards to prevent communication issues or damage.
- Disconnect the DC power supply entirely before performing any maintenance or troubleshooting.
- Verify that the voltage and polarity match the product label and power supply specifications before powering on the fixture.
- Ensure the power supply connections are securely fastened and meet all recommended wiring guidelines.
- Confirm all connections are properly insulated to avoid accidental short circuits or electrical hazards.

### Wire Identification Schemes Table (Static White):

| Cable                                   | Function | Core(US) | Wire Size | Core(EU) | Wire Size           |
|-----------------------------------------|----------|----------|-----------|----------|---------------------|
| Power lead in/<br>Power extension Cable | DC+      | Red      | 18AWG     | Brown    | 0.75mm <sup>2</sup> |
|                                         | DC-      | Black    | 18AWG     | Blue     | 0.75mm <sup>2</sup> |

### Bending Strengths:



# INSTALLATION INSTRUCTIONS

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### WARNING (RGBW):

- Ensure the DC RGBW Pixel Bar is properly grounded, and the DC power supply includes overcurrent protection (e.g., a fuse or circuit breaker) and a disconnect device for servicing or when not in use.
- Before connecting DMX cables, confirm all wiring adheres to DMX standards to prevent communication issues or damage.
- Disconnect the DC power supply and DMX signal entirely before performing any maintenance or troubleshooting.
- Verify that the voltage, polarity, and DMX settings match the product label and power supply specifications before powering on the fixture.
- Ensure the DMX address and control settings are correctly configured to prevent unintended lighting behavior. - For DMX networks, use proper termination (DMX Terminator) to avoid signal interference or reflections. (modify above for DC On off wiring)

### Wire Identification Schemes Table (RGBW Combined Source):

| Cable                                                           | Function | Core   | Wire Size          |
|-----------------------------------------------------------------|----------|--------|--------------------|
| <b>Power and Data<br/>Power Lead in and<br/>Interlink Cable</b> | DC+      | Red    | 1.0mm <sup>2</sup> |
|                                                                 | DC-      | Black  | 1.0mm <sup>2</sup> |
|                                                                 | DMX+     | Yellow | 0.5mm <sup>2</sup> |
|                                                                 | DMX-     | Blue   | 0.5mm <sup>2</sup> |
|                                                                 | DMX GND  | Green  | 0.5mm <sup>2</sup> |

INSTALLATION COMPLETION CHECKILIST

| Checklist Category             | Task                                                                                                                                | Completed (✓) |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|---------------|
| General Preparation            | Verify all components are present and undamaged (fixtures, cables, connectors, etc.).                                               |               |
|                                | Confirm the DC power supply matches the voltage and polarity specified on the product label.                                        |               |
|                                | Ensure the power supply includes overcurrent protection (e.g., fuse or circuit breaker) and a power disconnect device is installed. |               |
| Mounting and Fixture Alignment | Check that all fixtures are securely mounted using appropriate screws and brackets.                                                 |               |
|                                | Verify alignment and angles are adjusted to achieve the desired lighting effect.                                                    |               |
| Electrical Connections         | Confirm all power and data cables are securely connected and meet the recommended wiring standards.                                 |               |
|                                | Verify proper grounding of the fixture for safety and compliance.                                                                   |               |
|                                | Ensure DMX cables (if applicable) are terminated correctly to prevent signal interference.                                          |               |
| Safety and Testing             | Confirm that power is disconnected before performing any adjustments or maintenance.                                                |               |
|                                | Test the installation for proper functionality, including DMX addressing and control settings (if applicable).                      |               |
|                                | Inspect for any exposed wiring, loose connections, or mechanical stress on cables.                                                  |               |
|                                | Verify that the installation complies with all national and local electrical codes.                                                 |               |
| Safety and Testing             | Confirm that power is disconnected before performing any adjustments or maintenance.                                                |               |
|                                | Test the installation for proper functionality, including DMX addressing and control settings (if applicable).                      |               |
|                                | Inspect for any exposed wiring, loose connections, or mechanical stress on cables.                                                  |               |
|                                | Verify that the installation complies with all national and local electrical codes.                                                 |               |