

2155 - Ursa Minor

# constellation™

assembly instructions





# **Constellation™ Product Information and Warnings**

#### **Important**

- Always disconnect the power before installing or replacing Luminaires and before cleaning or other maintenance.
- Consult a qualified, licensed electrician to ensure correct branch circuit conductor.

  Consulter un électricien qualifié pour vous assurer que les conducteurs de la dérivation sont adéquats.
- Please read all included assembly instructions and warnings carefully before installation. Contact Customer
  Service if you have any questions or concerns. Before installation, please confirm that the fixture is compatible
  with your supply voltage and dimming system, if present.
- LEDs are highly sensitive electronic devices, and must be treated with care. Do not open any factory sealed compartments, and avoid touching the LEDs with your hands or any object.
- Although all our fixtures are equipped with protective devices, LED electronic systems are vulnerable to power surges and supply variations. Do not install LED fixtures on the same circuit as any motors, appliances, or HVAC systems.
- Remote LED Driver installation must be done by a licensed electrician and in accordance with local building and electrical codes. Remote installations should be in an accessible location, as close to the fixture as possible. The appropriate wire gauge must be used to limit the voltage drop to avoid overloading the LED Driver.
- Any mounting hardware is provided for your convenience and should be used with discretion. Always use the appropriate hardware for the mounting surface.
- Constellation™ LED Drivers are 24VDC Constant Voltage output, and are dimmable with 0-10V dimmers ONLY.
- Constellation™ must be installed in dry locations ONLY.

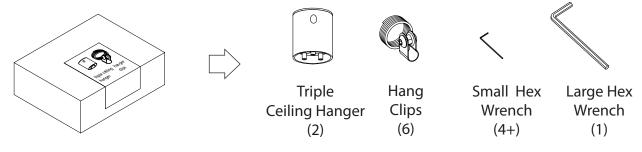


## Welcome to Constellation™

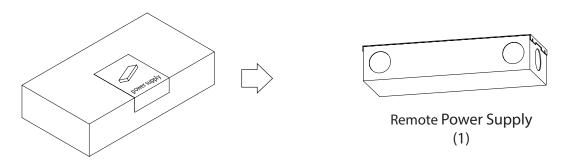
A Constellation configuration is built from LED hubs, connecting arms, end arms, and cable ceiling hangers. Illumination radiates through either the white optical acrylic lenses, or sparkles with refracted light through micro-faceted clear acrylic crystal lenses. Each hub is a complete LED light engine, using an array of LEDs with driver circuitry on each of the two faces of the hub. The connecting arms form a structural and electrical connection between the hubs, and are easily assembled by inserting the arm into the hub and are secured in place by a retaining set screw. The hubs can revolve around the connecting arms to alter the orientation of the illumination and that of the intersecting connecting arms. The configuration is supported by cable ceiling hangers that slide onto an arm and lock into place as needed, and is powered by a special power feed hub connected to the ceiling power feed.

#### WHAT COMES IN THE BOX

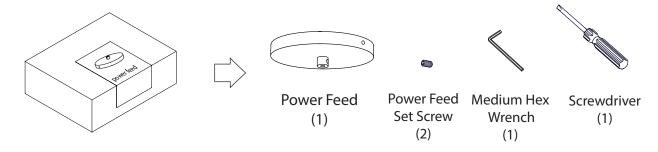
Triple Ceiling Hanger/Hanger Clips - Contains the cable ceiling hangers and hang clips as well as a parts bag necessary for configuration assembly.



Power Supply - Contains the LED Driver necessary for connecting to the branch circuit and housed in an enclosure for remote installation.

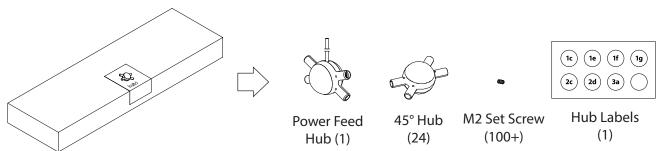


Power Feed - Contains the power feed for attaching the configuration to the outlet box and connecting to the power supply. Also includes a parts bag necessary for installation.

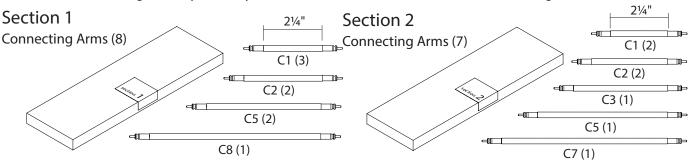


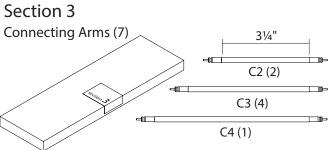


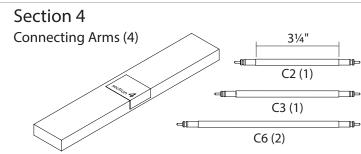
Hubs - Contains the LED hubs, arranged by Ursa Minor assembly sections and identified with a chart inside the box cover.

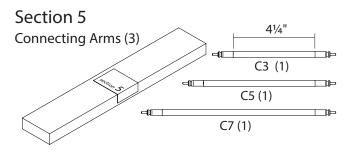


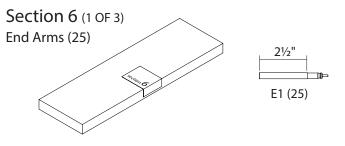
Section Boxes - Organized by assembly section, each box contains various sizes of connecting arms or end arms.

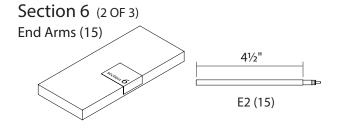


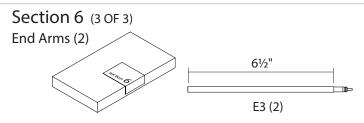






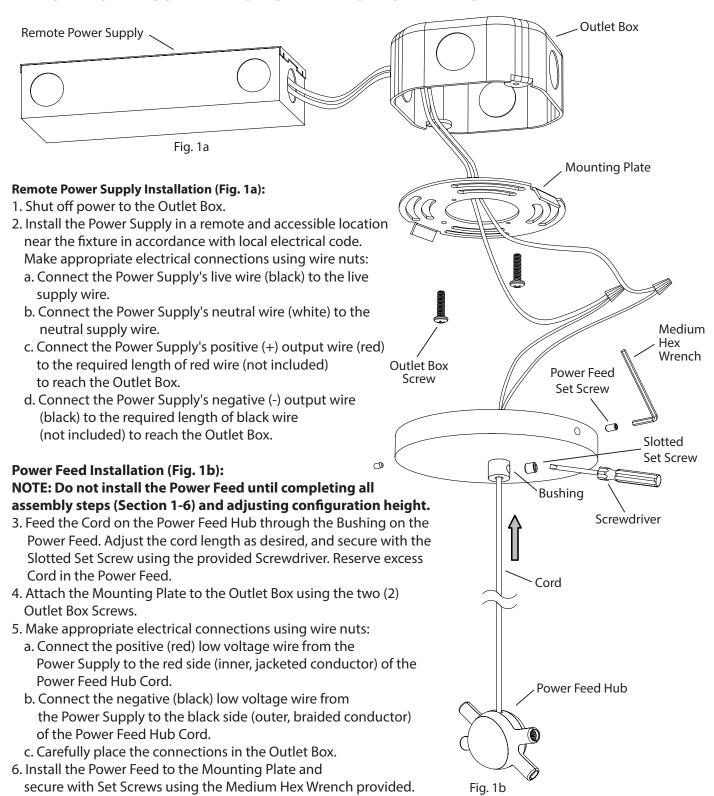








#### REMOTE POWER SUPPLY AND POWER FEED INSTALLATION

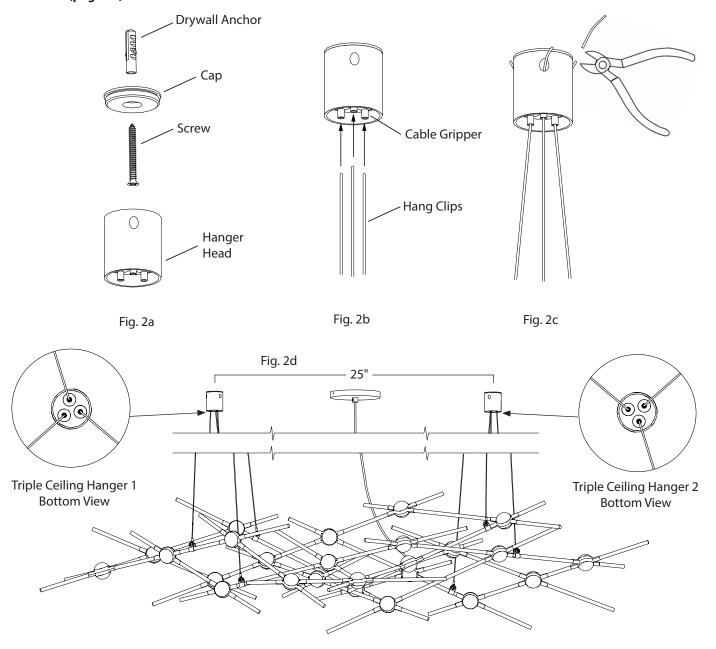




#### TRIPLE CEILING HANGER AND HANG CLIP INSTALLATION

IMPORTANT: Ursa Minor is a linear configuration and the orientation of the ceiling hangers will determine the orientation of the fixture.

- 1. Mount the Triple Ceiling Hangers (2) by first installing the Caps onto the ceiling 25" apart (Fig. 2d) using the supplied Screws. Use provided Drywall Anchors if no joist is present (Fig. 2a).
- 2. Screw a Hanger Head onto each Cap. Note the Hanger Head orientation to align the Cable Grippers (Fig. 2d, bottom views).
- 3. Insert the Hang Clips (Fig. 2b) into the 3 Cable Grippers on each of the Triple Ceiling Hangers until approx. 1" of cable has exited the Hanger Head. NOTE: The final height of the configuration will be set by adjusting each Hang Clip while installing Sections 1-6 on pages 10-15.
- 4. After Constellation has been assembled and suspended to the desired height, cut and remove extra Hang Clip cable from each of the (6) Hang Clip locations (Fig. 2c). **DO NOT PERFORM THIS STEP UNTIL THE CONFIGURATION HAS BEEN SET IN ITS FINAL POSITION (page 16).**

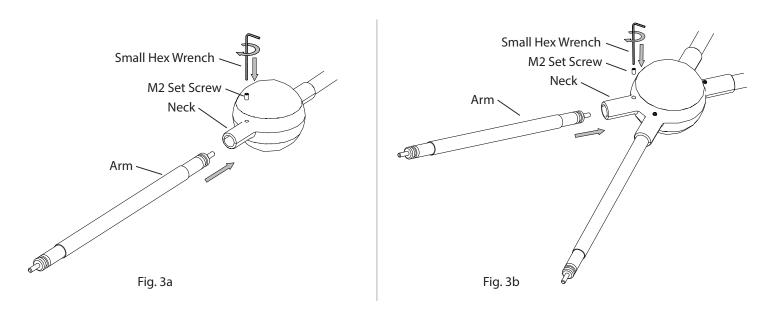




## COMPONENT INSTALLATION INSTRUCTIONS D'INSTALLATION

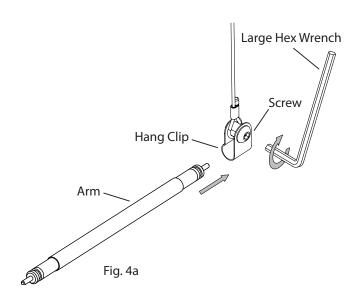
#### **Arm and LED Hub Assembly:**

- 1. Install each Arm into an LED Hub by fully inserting the Arm into a Neck on the Hub (Figs. 3a/3b).
- 2. After each Arm is connected to the Hub, install the M2 Set Screw into the Neck of the Hub, using the Small Hex Wrench provided, and tighten until it comes in contact with the plastic cap on the Arm. DO NOT OVERTIGHTEN THE SCREWS.



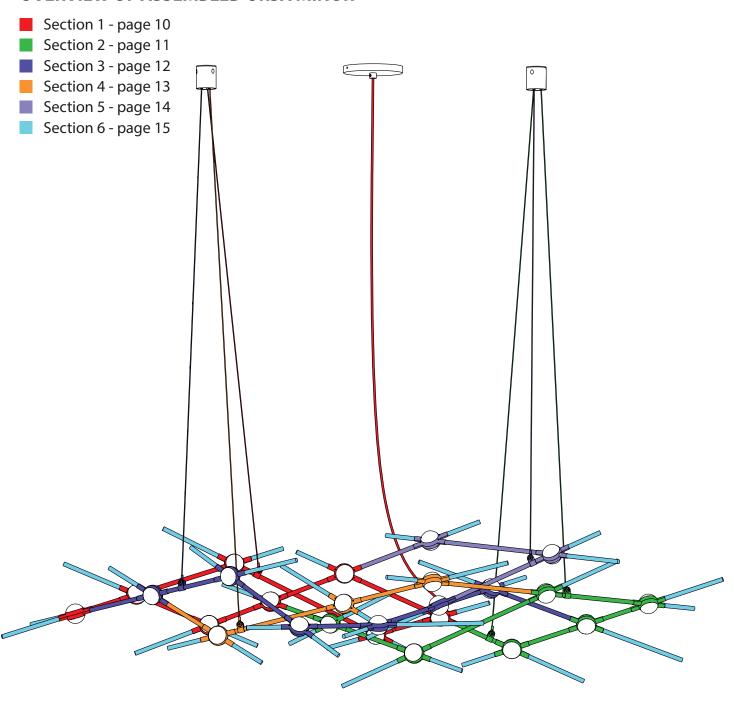
#### **Arm and Hang Clip Assembly:**

- 1. Install Arm into the Hang Clip (Fig. 4a) by sliding the Arm through the Clip.
- 2. Once the Arm is in the desired location, tighten the Screw using the Large Hex Wrench provided.



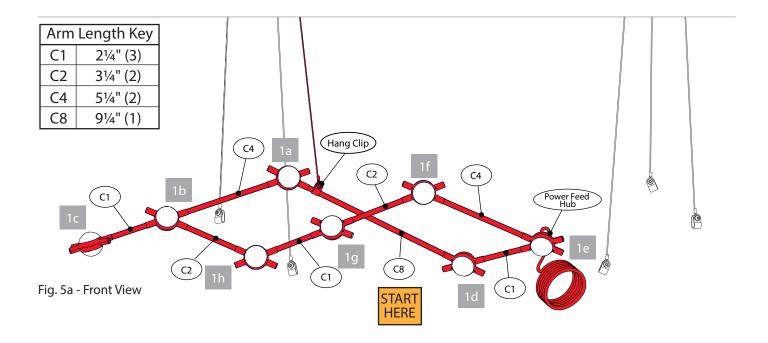


#### **OVERVIEW OF ASSEMBLED URSA MINOR**



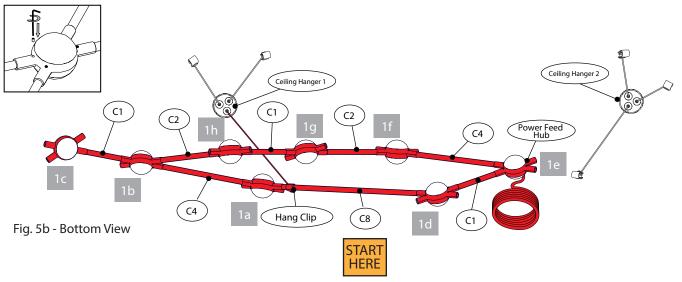


- a. Build this section using the Hubs labeled Section 1 in the Hubs box, and Connecting Arms from the Section 1 box.
- b. Start by connecting the C8 Arm to a Hang Clip from Ceiling Hanger 1 (note the Hang Clip orientation in Fig. 5b) approx. ½" from one end (Fig. 5a). Connect a 45° Hub (1d) to the other end and continue by connecting a C1 Arm followed by the Power Feed Hub (1e). Then connect Arms and 45° Hubs following the order and pattern in the Figs. 5a/5b.
- c. To help with connecting Sections 2, 3, and 4, add the matching Hub Labels to Hubs 1c, 1e, 1f, and 1g.



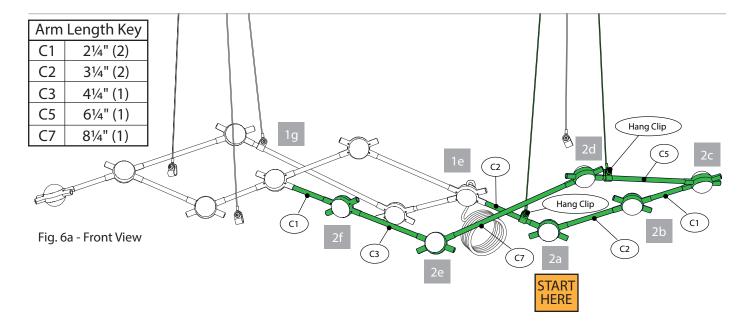
#### **IMPORTANT:**

Be sure to install all M2 Set Screws to secure the Arms to the Hubs, as shown on page 8.



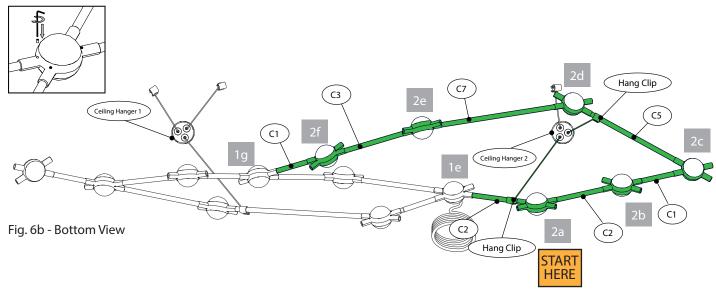


- a. Build this section using the Hubs labeled Section 2 in the Hubs box, and Connecting Arms from the Section 2 box.
- b. Start by connecting a C2 Arm and 45° Hub (2a) to a Hang Clip from Ceiling Hanger 2 (note the Hang Clip orientation in Fig. 6b), approx. ½" from the Hub, and connect to the Power Feed Hub (1e) from Section 1. Continue by connecting the other C2 Arm and a 45° Hub (2b), a C1 Arm and 45° Hub (2c), then secure the C5 Arm and 45° Hub (2d) to another Hang Clip from Ceiling Hanger 2 (note the Hang Clip orientation in Fig. 6b), approx. ½" from the Hub (2d).
- c. Continue by connecting Arms and 45° Hubs following the order and pattern in Figs. 6a/6b and complete this section by connecting the remaining C1 Arm to the 45° Hub (1g) from Section 1.
- d. To help with connecting Sections 3, 4, and 5, add the matching Hub Labels to Hubs 2c and 2d.



#### **IMPORTANT:**

Be sure to install all M2 Set Screws to secure the Arms to the Hubs, as shown on page 8.





- a. Build this section using the Hubs labeled Section 3 in the Hubs box, and Connecting Arms from the Section 3 box.
- b. Start by connecting a C3 Arm and 45° Hub (3a) to the 45° Hub (1c) from Section 1, then connect another C3 Arm and 45° Hub (3b) to a Hang Clip from Ceiling Hanger 1 (note the Hang Clip orientation in Fig. 7b), approx. 1" from Hub (3a).
- c. Continue by connecting Arms and 45° Hubs following the order and pattern in Figs. 7a/7b and complete this section by connecting the C4 Arm to the 45° Hub (2c) from Section 2.
- d. To help with connecting Section 4, add the matching Hub Label to Hub (3a).

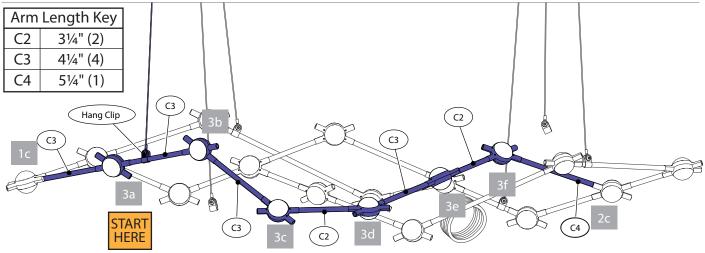
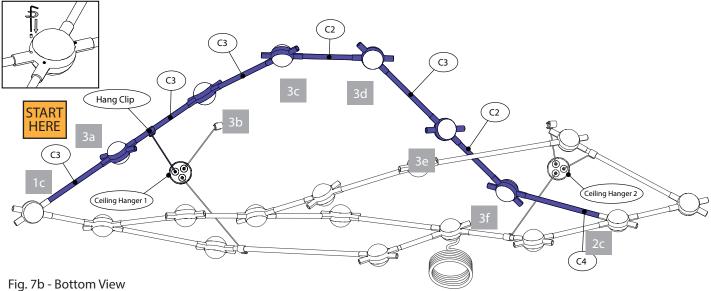


Fig. 7a - Front View

#### **IMPORTANT:**

Be sure to install all M2 Set Screws to secure the Arms to the Hubs, as shown on page 8.





- a. Build this section using the Hubs labeled Section 4 in the Hubs box, and Connecting Arms from the Section 4 box.
- b. Start by connecting the C2 Arm and 45° Hub (4a) to the 45° Hub (3a) from Section 3. Then secure a C6 Arm to the remaining Hang Clip from Ceiling Hanger 1 (note the Hang Clip orientation in Fig. 8b), approx. 1/2" from the end, and connect to the 45° Hub (4a).
- c. Continue by connecting 45° Hubs and Arms following the order and pattern in Figs. 8a/8b and complete this section by connecting the remaining C6 Arm to the 45° Hub (2d) from Section 2.

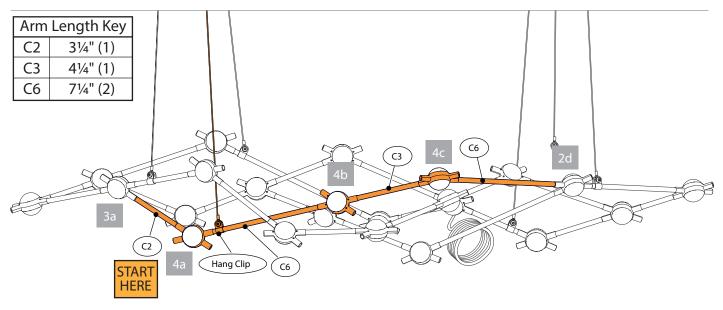


Fig. 8a - Front View

#### **IMPORTANT:**

Be sure to install all M2 Set Screws to secure the Arms to the Hubs, as shown on page 8.

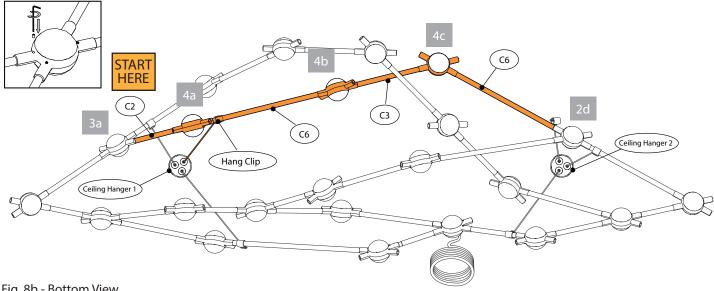
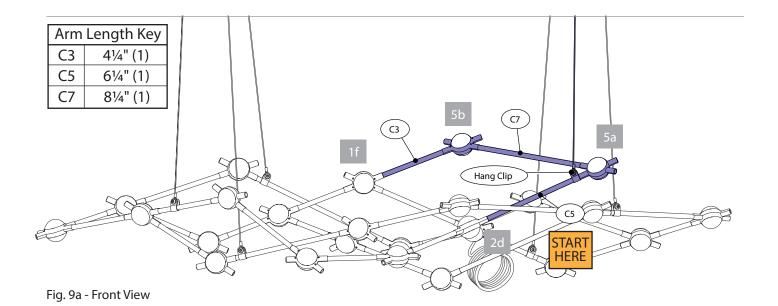


Fig. 8b - Bottom View



- a. Build this section using the Hubs labeled Section 5 in the Hubs box, and Connecting Arms from the Section 5 box.
- b. Start by connecting the C5 Arm and 45° Hub (5a) to the remaining Hang Clip from Ceiling Hanger 2 (note the Hang Clip orientation in Figs. 9a/9b) and then to the 45° Hub (2d) from Section 2.
- c. Continue by connecting Arms and 45° Hubs following the order and pattern in the Figs. 9a/9b and complete this section by connecting the C3 Arm to the 45° Hub (1f) from Section 1.



#### **IMPORTANT:**

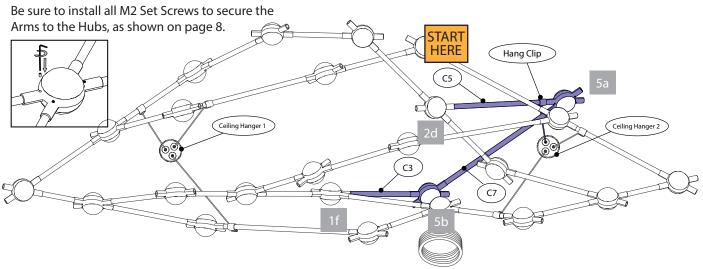


Fig. 9b - Bottom View



#### **ADDING THE END ARMS (SECTION 6)**

- a. Build this section using the End Arms from the Section 6 boxes (3).
- b. Start by connecting the E3 End Arms (2) as indicated in Figs. 10a/10b.
- c. Continue by connecting the remaining End Arms onto the 45° Hubs until all remaining Hub openings have been filled. There is no specific order for connecting the remaining End Arm lengths.
- d. Remove the Hub Labels (7) from Hubs 1c, 1e, 1f, 1g, 2c, 2d, and 3a.
- e. Complete the installation by adjusting the height, as desired, and trimming the Hang Clip Cables (as shown on page 7, Fig. 2c), and installing the Power Feed as shown on page 6.

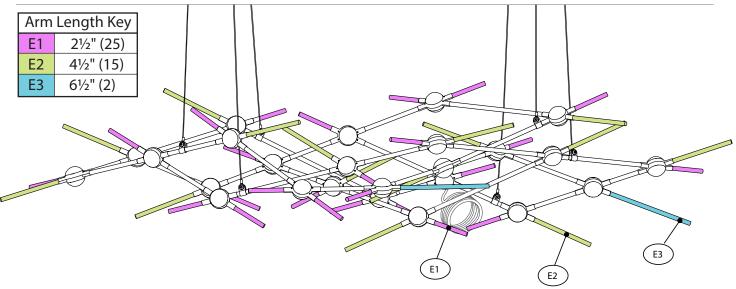


Fig. 10a - Front View

#### **IMPORTANT:**

Be sure to install all M2 Set Screws to secure the Arms to the Hubs, as shown on page 8.

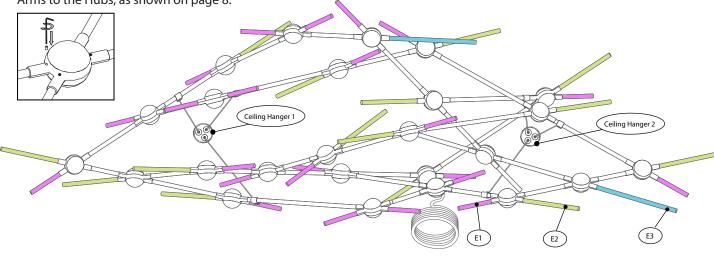


Fig. 10b - Bottom View



### **COMPLETED ASSEMBLY**

