AERA Multi-aperture
Downlight - Recessed Open Frame (OF), Type-IC (IC), Chicago Plenum (CP)

⚠ This product must be installed in accordance with the National Electrical Code and all applicable local codes, by a person familiar with the construction and operation of the product, and the hazards involved. Proper grounding is required for safety.

Ce produit doit être installé suivant le code national de l'électricité, ainsi que tous les codes locaux applicables, par une personne familière avec la construction et le fonctionnement du produit, ainsi que tous les risques qui y sont associés. La mise à terre électrique est obligatoire pour la sécurité.

⚠ Wire dimming conductors as Class 1.

💡 For electrical connections, please refer to the wiring diagram guide.

OVERVIEW

⚠ Warnings

Install per national installation and accident prevention regulations.

Clearance between sides of luminaire and parts of building must be 1/2" minimum; clearance to insulating materials to be 3" minimum.

Fixtures must be installed in applications where the ambient temperature does not exceed 40° C during normal operation.

Do not connect or disconnect LED board wire connector when the fixture is energized. This may result in permanent damage to the LED array.

Warranty claims will not be accepted if incorrect driver or light element is used.

Do not cover the light element lens or heatsink with any materials or adhesive tapes.

💡 Shown with Aera 3" Multi-aperture Round Recessed (fixed) with open frame installation type. Applicable to all Aera Multi-aperture models.
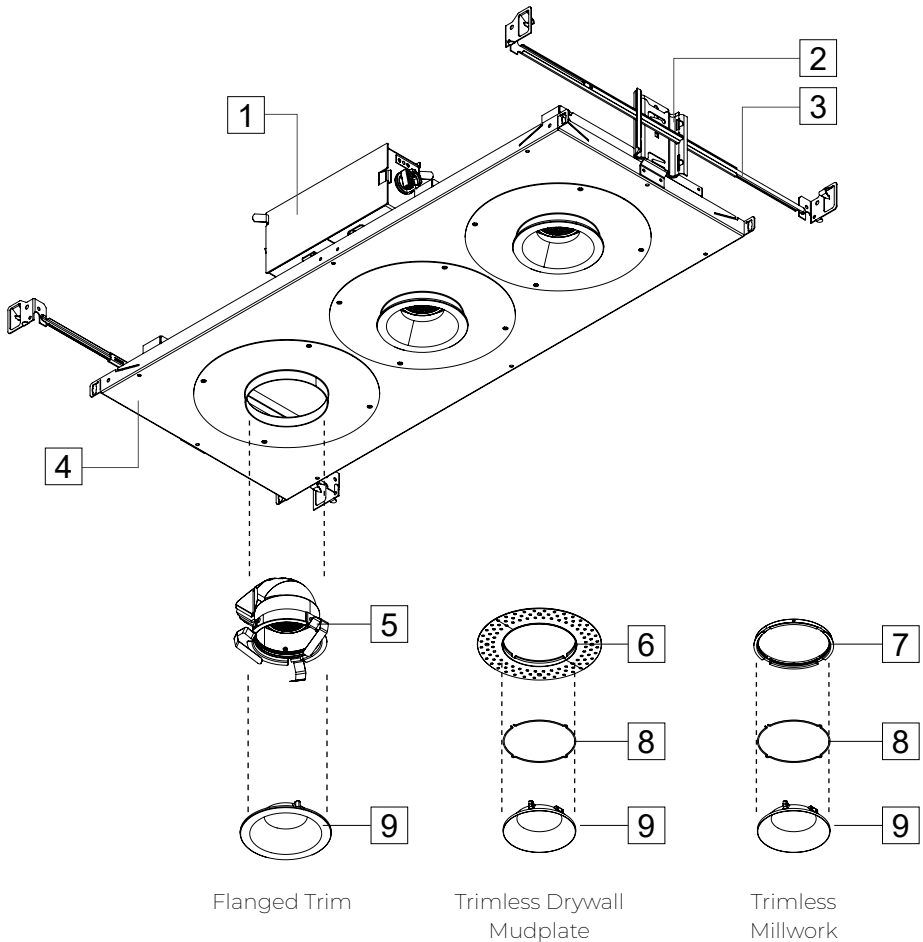
Flanged Trim

Trimless Drywall Mudplate

Trimless Millwork

Index

🔧 Tools Required

Allen Key 1/16" [1]
Adjustable Hole Cutter
Drywall Knife [2]
Hammer

[1] For millwork adapter only.
[2] Or router.

Items List

[1] - Electrical Box
[2] - Butterfly Bracket
[3] - Hanger Bar
[4] - Mounting Frame
[5] - Light Element
[6] - Mudplate
[7] - Millwork Adapter
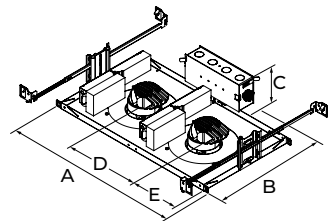**[8]** - Spring Ring
[9] - Baffle

AERA Multi-aperture
Downlight - Recessed Open Frame (OF), Type-IC (IC), Chicago Plenum (CP)

Lumenwerx
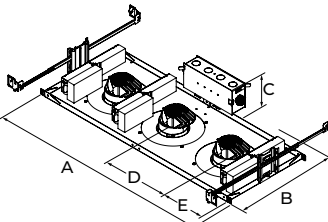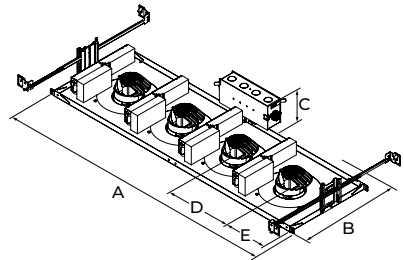
OVERVIEW - INSTALLATION TYPES

Open Frame Type Non-IC

1 X 2

	A	B	C	D	E
2"	15 11/16"	10 1/4"	4"	6 1/2"	4"
3"	20 3/16"	13 1/4"	4"	8"	5 1/2"
4"					

1 X 3

	A	B	C	D	E
2"	22 3/16"	10 1/4"	4"	6 1/2"	4"
3"	28 3/16"	13 1/4"	4"	8"	5 1/2"
4"					

1 X 4

	A	B	C	D	E
2"	28 11/16"	10 1/4"	4"	6 1/2"	4"
3"	36 3/16"	13 1/4"	4"	8"	5 1/2"
4"					

2 X 2
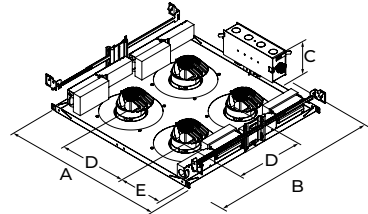
	A	B	C	D	E
2"	15 11/16"	16 3/4"	4"	6 1/2"	4"
3"	20 3/16"	21 1/4"	4"	8"	5 1/2"
4"					

Type-IC / Chicago Plenum Type-IC

1 X 2
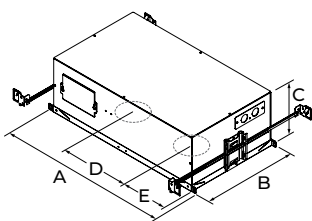
	A	B	C	D	E
2"	15 11/16"	8"	5 1/16"	6 1/2"	4"
3"	20 3/16"	11"	6 7/16"	8"	5 1/2"
4"					

1 X 3
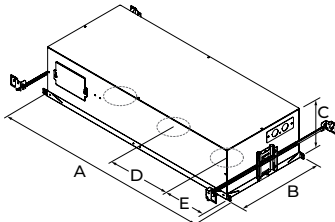
	A	B	C	D	E
2"	22 3/16"	8"	5 1/16"	6 1/2"	4"
3"	28 3/16"	11"	6 7/16"	8"	5 1/2"
4"					

1 X 4
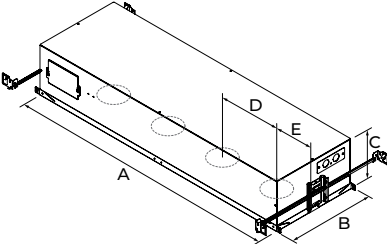
	A	B	C	D	E
2"	28 11/16"	8"	5 1/16"	6 1/2"	4"
3"	36 3/16"	11"	6 7/16"	8"	5 1/2"
4"					

2 X 2
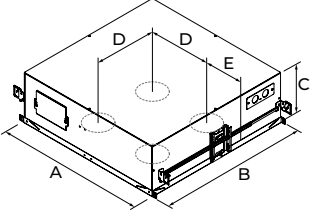
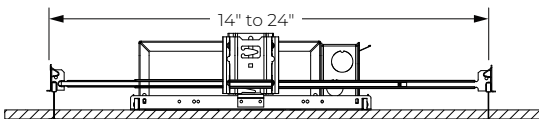|	A	B	C	D	E
2"	15 11/16"	14 1/2"	5 1/16"	6 1/2"	4"
3"	20 3/16"	19"	6 7/16"	8"	5 1/2"
4"					

AERA Multi-aperture
Downlight - Recessed Open Frame (OF), Type-IC (IC), Chicago Plenum (CP)

Lumenwerx

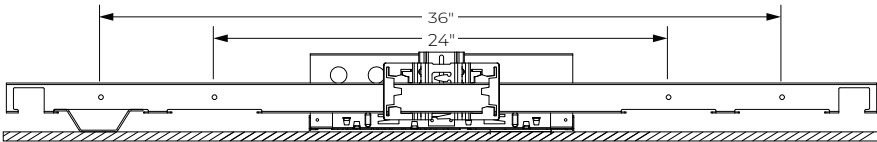## OVERVIEW - MOUNTING OPTIONS

ASB - ADJUSTABLE STANDARD BARS

14" to 24"

PAGE 4

ACB - ADJUSTABLE COMMERCIAL BARS

16" to 24"joist spacing & 24" T-bar
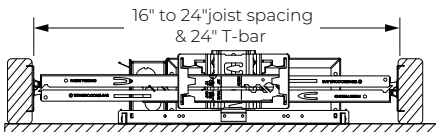
PAGE 5

AHC - ADJUSTABLE HAT CHANNEL BARS

36"
24"

PAGE 6

FMB - FLUSH MOUNT BARS

14" to 24"
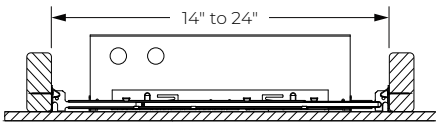
PAGE 7
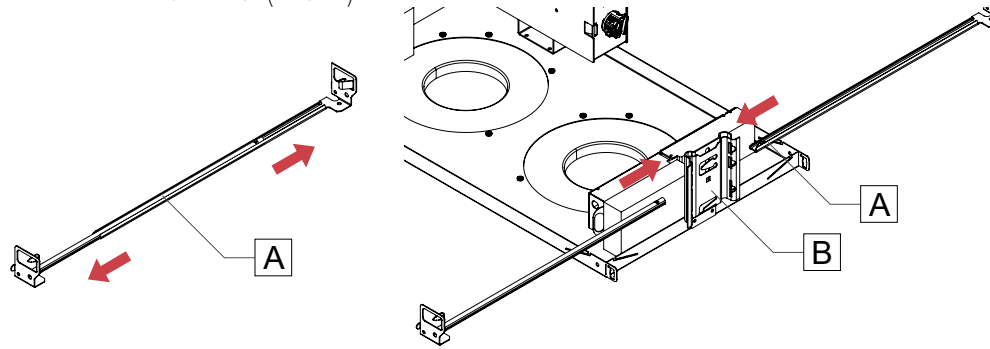
AERA Multi-aperture
Downlight - Recessed Open Frame (OF), Type-IC (IC), Chicago Plenum (CP)

Lumenwerx

ADUSTABLE STANDARD BAR HANGERS (ASB)

1 ADJUST HANGER BARS.

Separate the hanger bars **[A]**.
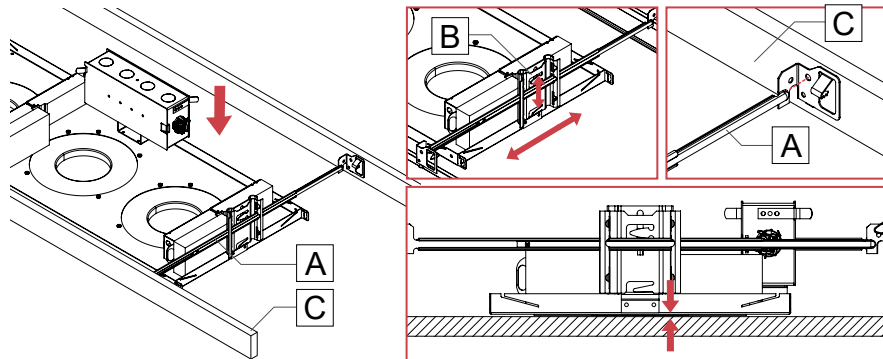Insert the hanger bars **[A]** into the caterpillar brackets **[B]**.

HOUSING

2 MOUNT HOUSING IN CEILING.

DRYWALL CEILING

Mount hanger bars **[A]** on supports **[C]** in ceiling.

Adjust the caterpillar bracket **[B]** to align the bottom of the mounting plate to the top of the ceiling surface. The caterpillar bracket can be adjusted from 1" to 3". Adjust the housing position as well. Screw the hanger bars **[A]** to supports.

GRID CEILING

Mount hanger bars **[A]** on T-bar **[D]** in ceiling.

Adjust the caterpillar bracket **[B]** to suit the ceiling thickness. The caterpillar bracket can be adjusted from 1" to 3". Adjust the housing position as well.
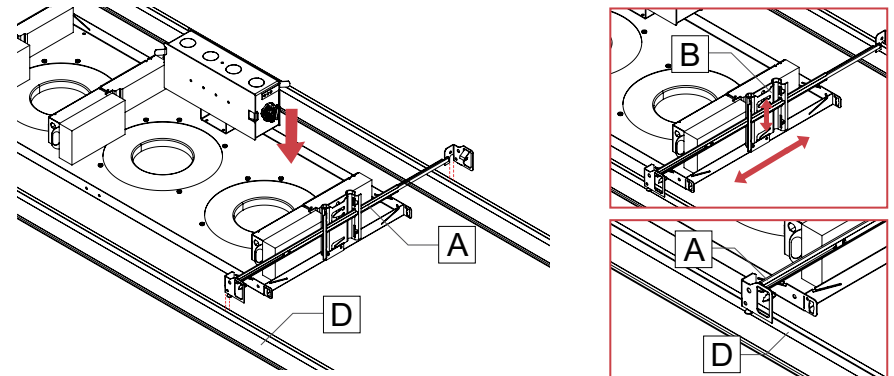
3 GO TO PAGE 8 FOR ELECTRICAL CONNECTION INSTRUCTIONS.

AERA Multi-aperture
Downlight - Recessed Open Frame (OF), Type-IC (IC), Chicago Plenum (CP)
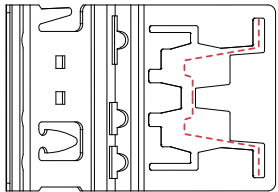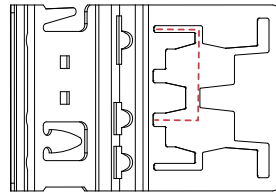
Lumenwerx

ADJUSTABLE COMMERCIAL BAR HANGERS (ACB)

1 DETERMINE HANGER BARS POSITION.

Insert hanger bars into butterfly brackets according to hanger types used.
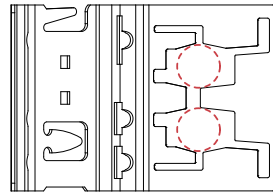
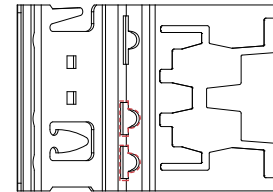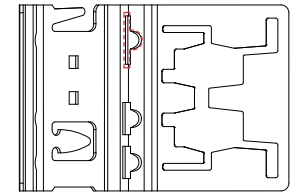| FURRING STRIP CHANNEL	1/2" x 1 1/2" CHANNEL (2 POSITIONS)	1/2" DIAMETER EMT	1/2" HANGER BARS 1287 & 1240	5/8" - 3/4" HANGER BARS

2 PREPARE BUTTERFLY BRACKET.

Squeeze the edges of the butterfly bracket **[E]** to unlock.

Mount butterfly bracket **[E]** to housing bracket with screw **[F]** and wing nut **[G]**.

Note: This step applies to all variation of hanger bars installed into this bracket.

3 INSTALL HANGER BARS.

Slide in the first part of the adjustable commercial hanger bar **[H]** into the butterfly bracket **[E]**

4 ADJUST AND SET HANGER BARS.

Insert the second part of the adjustable commercial hanger bar **[I]** to the first part **[H]**. Push the hanger bars **[H+I]** further into the butterfly bracket **[E]** and adjust the length.

Twist tab **[J]** inward to lock in place the bar hanger **[H+I]**.

5 GO TO PAGE 8 FOR ELECTRICAL CONNECTION INSTRUCTIONS.

AERA Multi-aperture
Downlight - Recessed Open Frame (OF), Type-IC (IC), Chicago Plenum (CP)

Lumenwerx

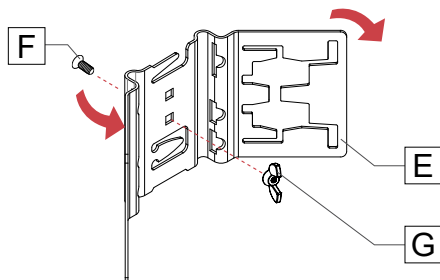## ADJUSTABLE HAT CHANNEL BAR HANGERS (AHC)

1 PREPARE BUTTERFLY BRACKET.

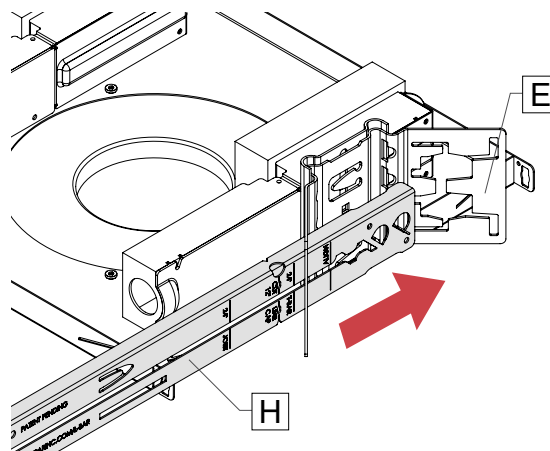Squeeze the edges of the butterfly bracket [E] to unlock. Mount butterfly bracket [E] to housing bracket with screw [F] and wing nut [G].

Note: This step applies to all variation of hanger bars installed into this bracket.
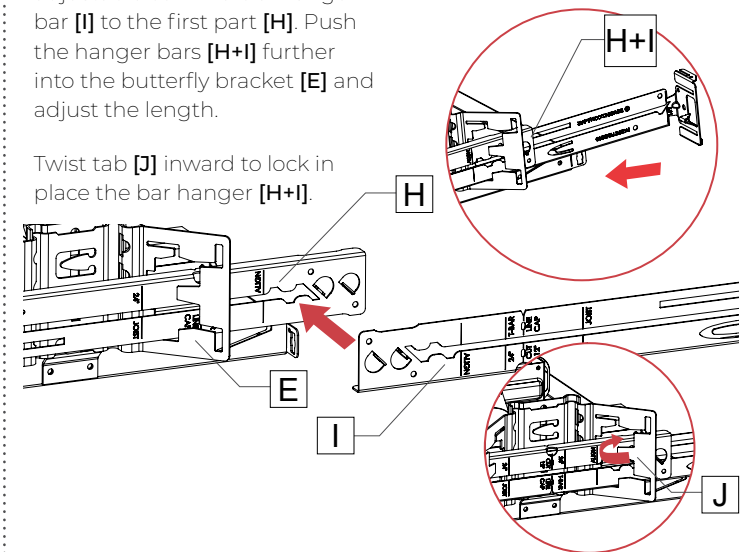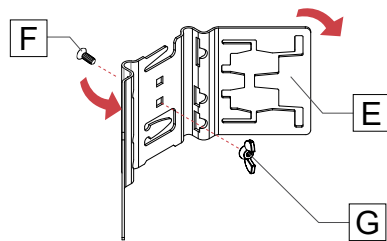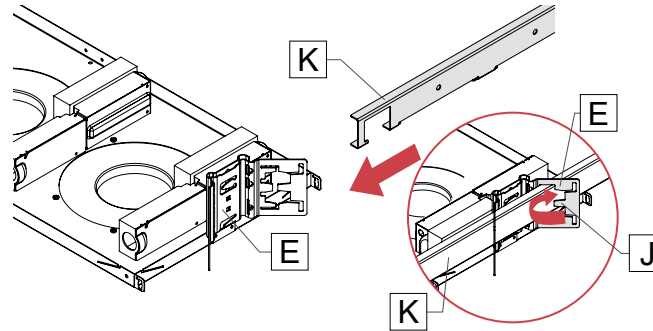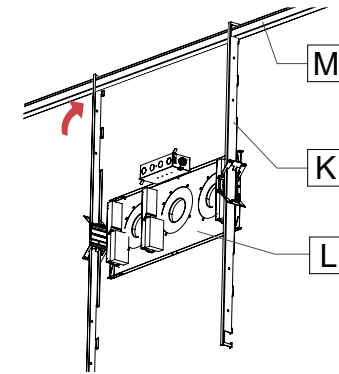

2 INSERT HANGER BARS.

Insert hat channel bar hanger [K] into butterfly bracket [E]. Lock hat channel bar hangers [K] in place in butterfly bracket [E] by twisting the tab [J] inwards to the bar hangers [K].
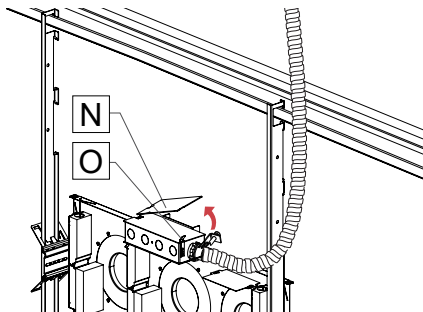

3 HANG MOUNTING FRAME.

With hat channel bar hangers [K] locked in place, hang the housing [L] onto the hat channel [M] in ceiling.
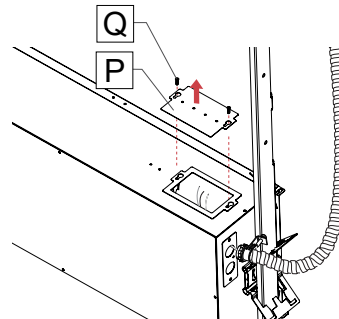

4 REMOVE COVER.

OPEN FRAME

Unsnap the cover [N] from the hook [O] and pivot the cover. Go to step 2 on page 8 for electrical connection instructions.
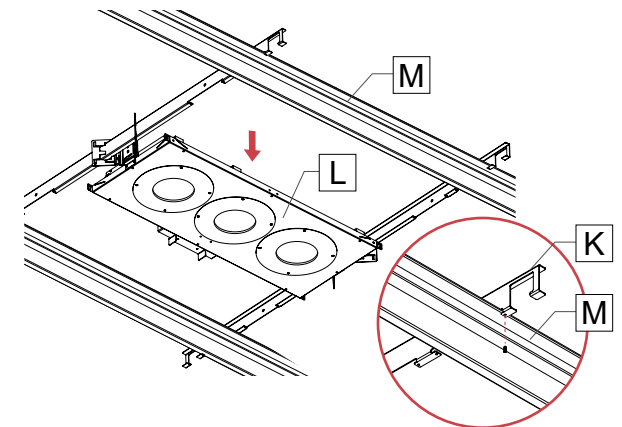

TYPE-IC / CHICAGO PLENUM

Remove the cover [P] from the side by removing screws [Q]. Keep the screws in a safe place. Go to step 2 on page 8 for electrical connection instructions.

5 MOUNT ON HAT CHANNEL.

Place housing [L] onto hat channels [M] in ceiling. Affix the housing into the hat channels [M] by screwing into the hat channel bar hanger [K].

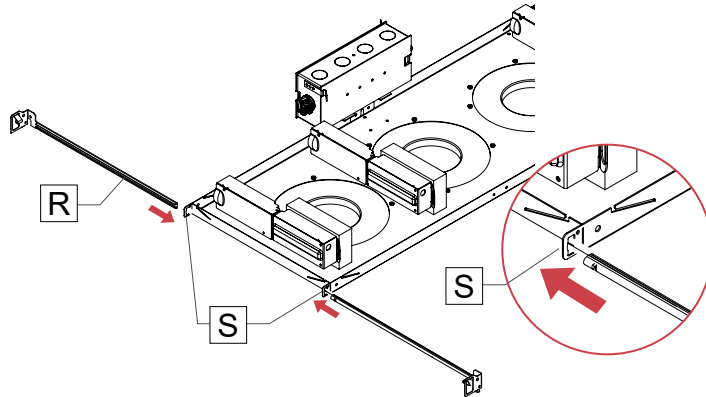### 6 GO TO PAGE 10 FOR LIGHT ELEMENT & BAFFLE INSTRUCTIONS.

AERA Multi-aperture
Downlight - Recessed Open Frame (OF), Type-IC (IC), Chicago Plenum (CP)

Lumenwerx
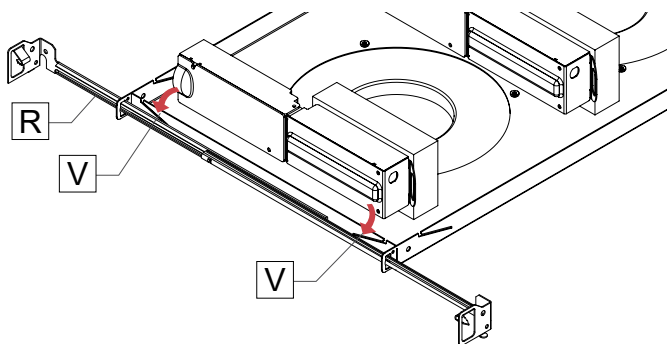
FLUSH MOUNT BARS (FMB)

1 INSERT HANGER BARS.

Insert flush mount bars **[R]** into slots **[S]** in the mounting frame.

3 LOCK HANGER BARS.

Lock flush mount bars **[R]** in place by twisting tabs **[V]** outwards to the bar hangers **[R]**.
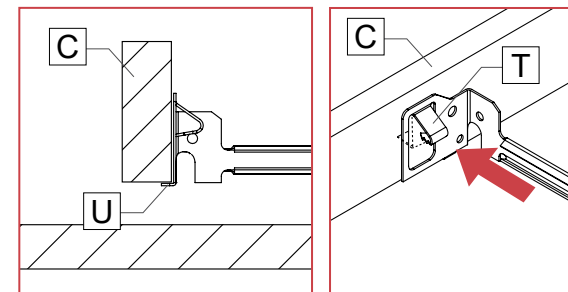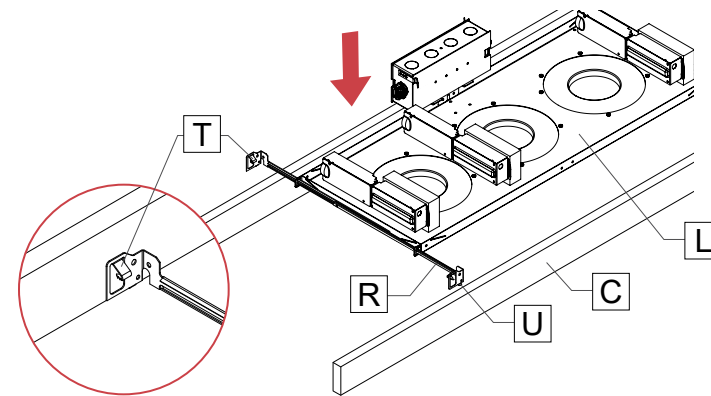

2 MOUNT HOUSING IN CEILING.

Place housing **[L]** into ceiling next to ceiling supports **[C]**. Mount bar hangers **[R]** into supports **[C]** by hammering in pin tabs **[T]** into the supports.

Note: Make sure to have tabs **[U]** under supports **[C]** before hammering pin tabs **[T]**.

4 GO TO PAGE 8 FOR ELECTRICAL CONNECTION INSTRUCTIONS.

AERA Multi-aperture
Downlight - Recessed Open Frame (OF), Type-IC (IC), Chicago Plenum (CP)

Lumenwerx

ELECTRICAL CONNECTIONS

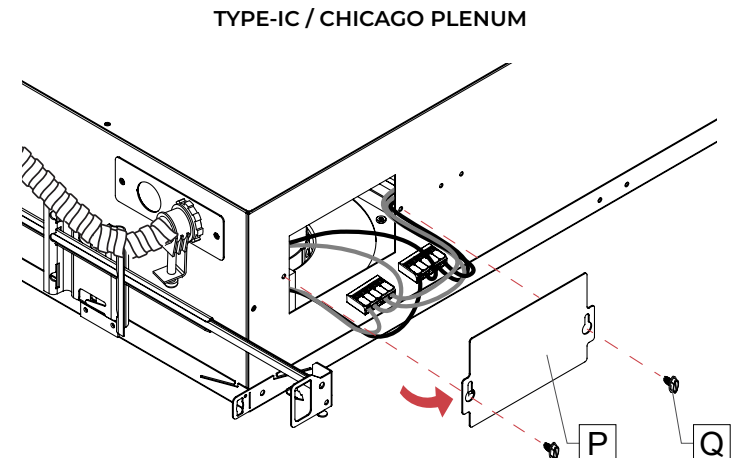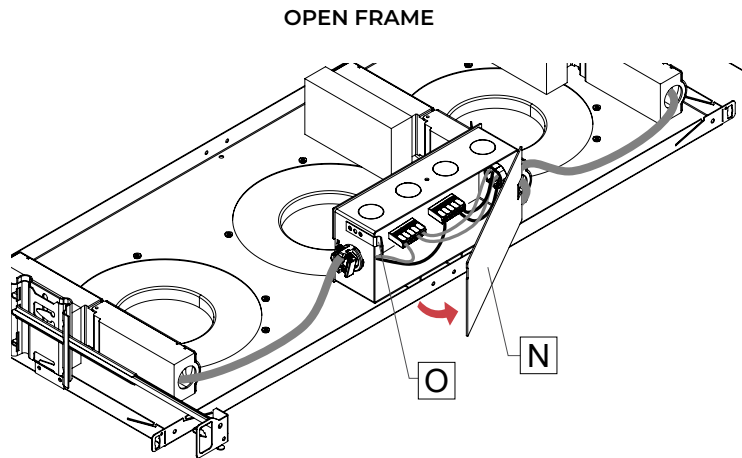### 1 UNSNAP COVER.

OPEN FRAME

Unsnap the cover **[N]** from the hook **[O]** and pivot the cover.

TYPE-IC / CHICAGO PLENUM

Remove the cover **[P]** from the side by removing screws **[Q]**. Keep the screws in a safe place.

OPEN FRAME

TYPE-IC / CHICAGO PLENUM
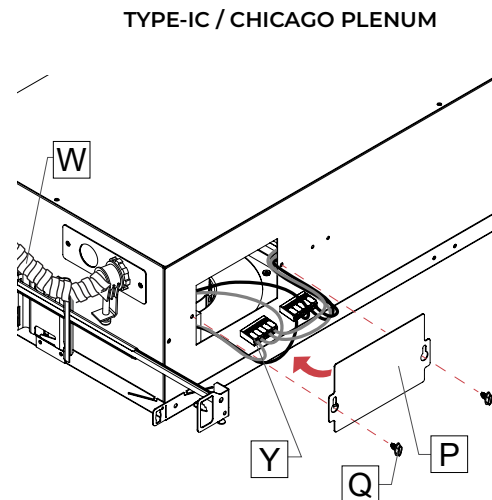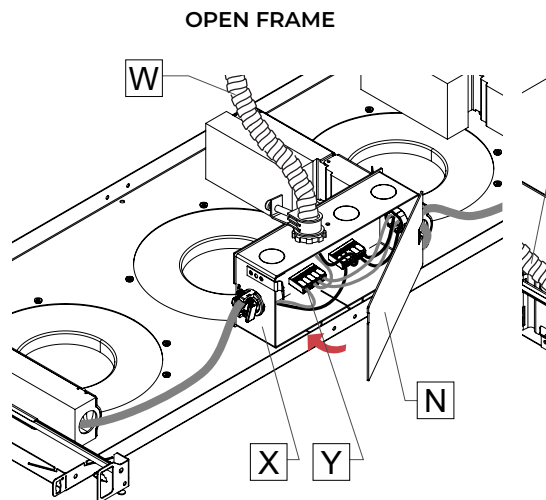

2 MAKE ELECTRICAL CONNECTIONS.

Install armored main power cable **[W]** to knockout and make electrical connections inside the electrical box **[X]**. Connect wires to the quick connectors **[Y]**.
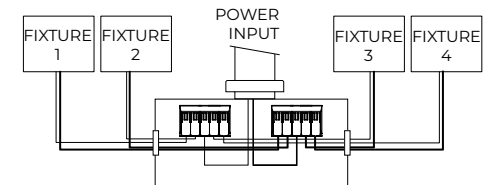
OPEN FRAME

Snap the cover **[N]** back to finish.

TYPE-IC / CHICAGO PLENUM

Reinstall the cover **[P]** with screws **[Q]**.

OPEN FRAME

TYPE-IC / CHICAGO PLENUM

Single circuit . Default from factory.

FIXTURE 1 | FIXTURE 2 | POWER INPUT | FIXTURE 3 | FIXTURE 4

Multi-circuit. Remove connector and connect multi-circuit as needed.

FIXTURE 1 | FIXTURE 2 | POWER INPUT | FIXTURE 3 | FIXTURE 4

For electrical connections, please refer to the wiring diagram guide.

AERA Multi-aperture
Downlight - Recessed Open Frame (OF), Type-IC (IC), Chicago Plenum (CP)
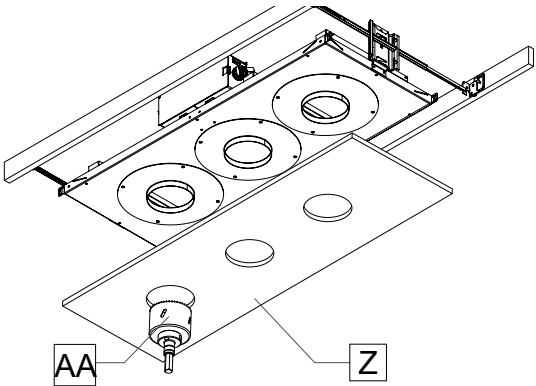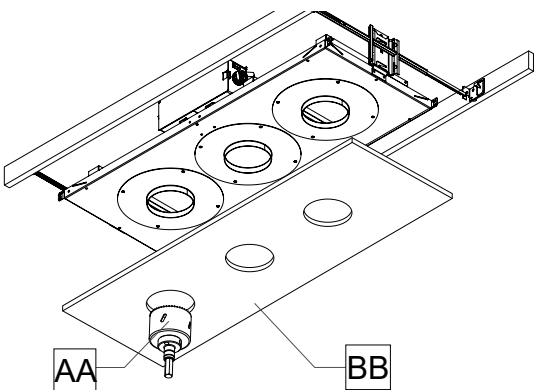
Lumenwerx
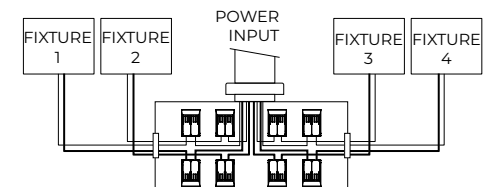
CEILING PREPARATION.

1 CEILING CUT-OUTS.

DRYWALL CEILING / GRID CEILING
Cut opening in drywall ceiling **[Z]** or grid ceilling tile with drywall knife or router **[AA]**.

AA — Z

MILLWORK CEILING
Cut opening in wood ceiling **[BB]** with router **[AA]**.

AA — BB

Follow the table for cut-out dimensions based on size and baffle shape.
Note: For trimless millwork (TLMW), the baffle opening is cut-through, but the collar opening is a step-hole that is at the back face of the ceiling.

1 X 2   **1 X 3**   **1 X 4**   **2 X 2**

TRM/TLMP   **TLMW**

5/16" to 5/8" wood thickness   1/8" lip thickness
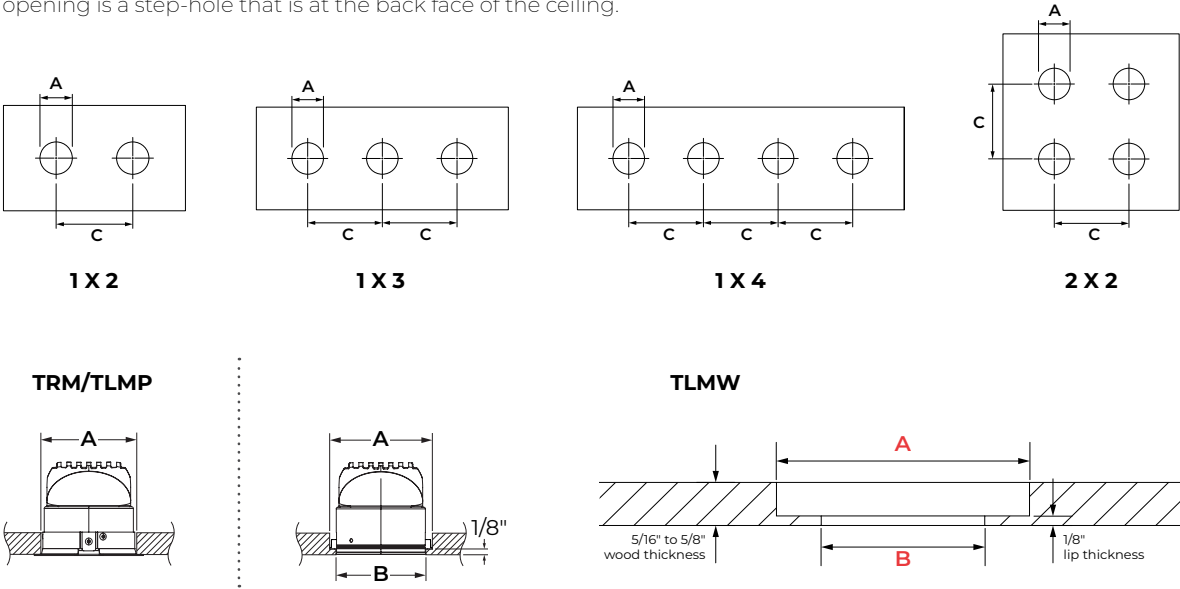
CUT-OUT DIMENSIONS

		A	B	C
		Collar Opening	Baffle Opening	
2"	**ROUND**	Ø 2 1/2"	Ø 2 1/16" with 1/8" lip	6 1/2"
	SQUARE	2 1/2" x 2 1/2"	2 1/16" x 2 1/16" with 1/8" lip	
3"	**ROUND**	Ø 3 1/2"	Ø 3 1/16" with 1/8" lip	8"
	SQUARE	3 1/2" x 3 1/2"	3 1/16" x 3 1/16" with 1/8" lip	
4"	**ROUND**	Ø 4 1/2"	Ø 4 1/16" with 1/8" lip	8"
	SQUARE	4 1/2" x 4 1/2"	4 1/16" x 4 1/16" with 1/8" lip	

BACK FACE OF CEILING
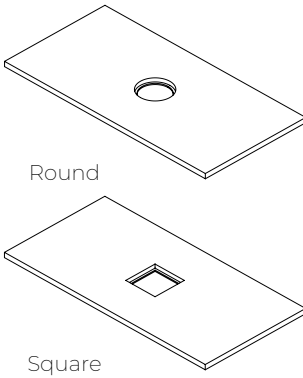
Round

Square

AERA Multi-aperture
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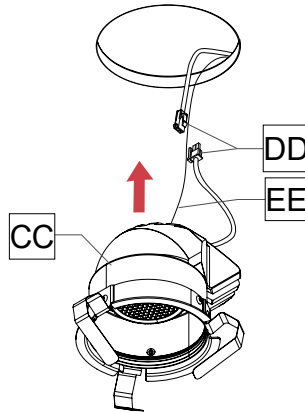
Lumenwerx

LIGHT ELEMENT & BAFFLE

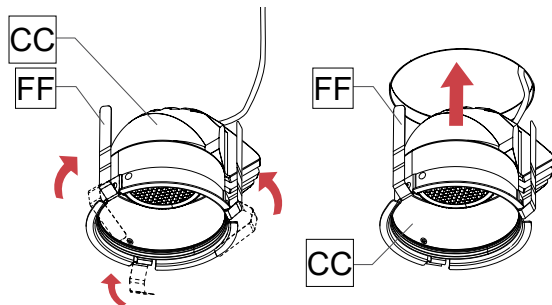## 1 INSTALL LIGHT ELEMENT.

FLANGED TRIM

Connect the light element **[CC]** to driver in housing with quick connectors **[DD]**.

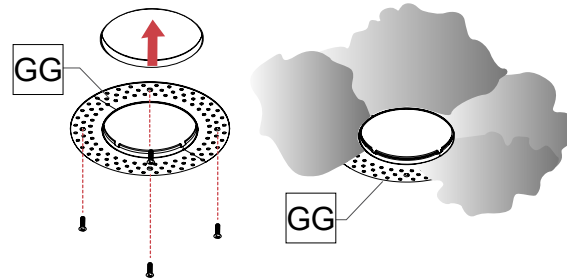Attach the safety cable **[EE]** to a suitable point in the ceiling.

Squeeze spring clips **[FF]** upwards onto light element **[CC]**. Insert light element **[CC]** into opening until spring clips **[FF]** snap back above the ceiling in the housing.
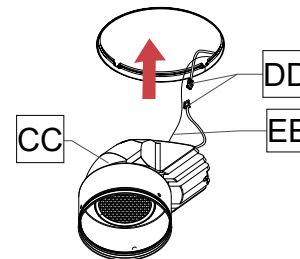

TRIMLESS DRYWALL MUDPLATE

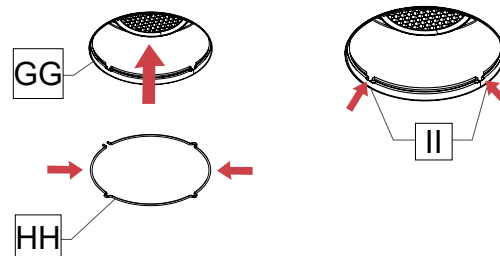Attach mudplate **[GG]** to ceiling and screw onto ceiling. Plaster and sand over mudplate **[GG]**.

Connect the light element **[CC]** to driver in housing with quick connectors **[DD]**.

Attach the safety cable **[EE]** to a suitable point in the ceiling and install the light element **[CC]** from below.

Squeeze spring ring **[HH]** into the mudplate **[GG]** at the edge. Spring ring **[HH]** will snap into the mudplate notches **[II]** around the mudplate edge.

TRIMLESS MILLWORK

Connect the light element **[CC]** to driver in housing with quick connectors **[DD]**. Attach the safety cable **[EE]** to a suitable point in the ceiling and install the light element **[CC]** from below.
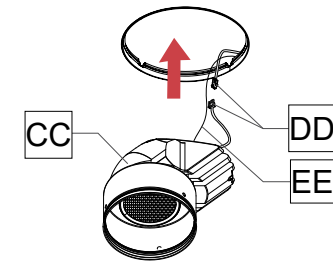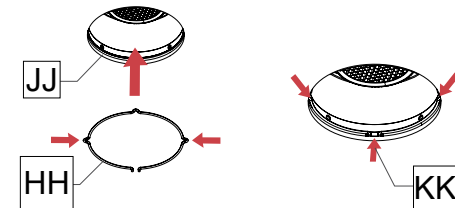

Squeeze spring ring **[HH]** into the millwork adapter **[JJ]** to keep the light module in place. Spring ring **[HH]** will snap into the millwork adapter notches **[KK]** around the millwork adapter edge.
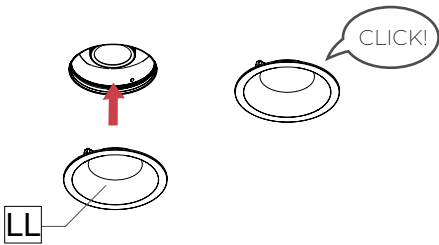

AERA Multi-aperture
Downlight - Recessed Open Frame (OF), Type-IC (IC), Chicago Plenum (CP)

Lumenwerx
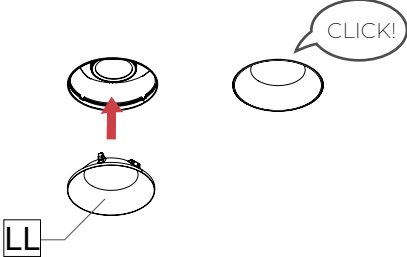
2 INSTALL BAFFLE.

FLANGED TRIM

Snap in baffles **[LL]** in place into ceiling opening until audible click is heard.

CLICK!

LL

TRIMLESS DRYWALL MUDPLATE

Snap in baffles **[LL]** in place into ceiling opening until audible click is heard.

CLICK!

LL

TRIMLESS MILLWORK

Snap in baffles **[LL]** in place into ceiling opening until audible click is heard.

Note: Edge of the trim should be flush with the surface.

CLICK!

LL