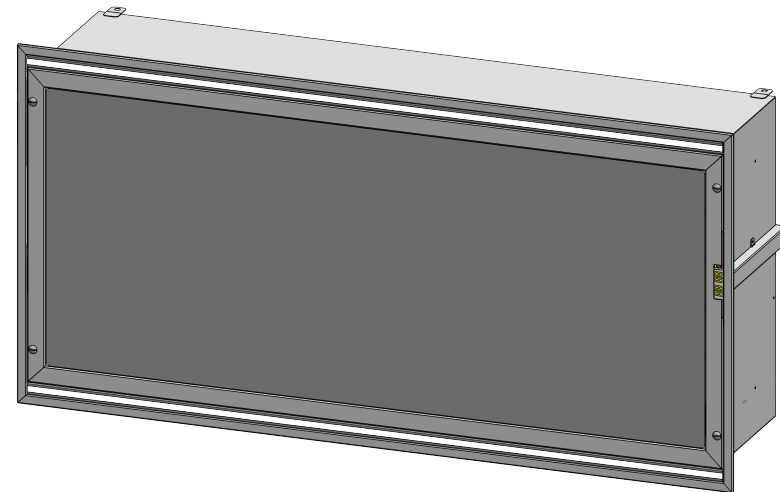
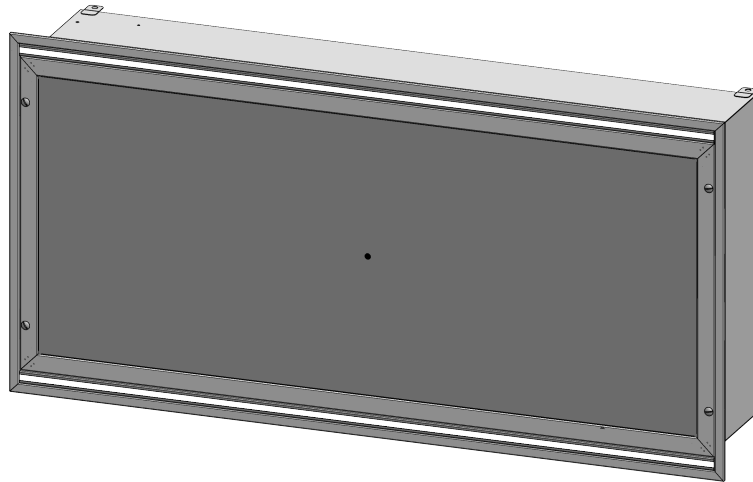


# STAINLESS STEEL

## CRITICAL ENVIRONMENT

### DIFFUSERS W/LED LIGHTING OPTION

READ COMPLETELY AND SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE



These instructions cover all models with led lighting option noted with "-LED" in the model number.

Refer to the IOM for the base product for instructions on non-LED related installation and service items.



#### AJ Manufacturing

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DRAWN SLG	CATEGORY CRITICAL ENVIRONMENT INSTALLATION MANUAL	TAG	QTY	REV # A
CHKD HT	PRODUCT ANY DIFFUSER WITH -LED SUFFIX	DRAWING NAME		SHT 1/8
APRVD 06-16-22	SIZE			SCL 1:12
				DO NOT SCALE

# STAINLESS STEEL CRITICAL ENVIRONMENT

## DIFFUSERS W/LED LIGHTING OPTION

READ COMPLETELY AND SAVE THESE INSTRUCTIONS

**WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS,  
ALLOW ONLY QUALIFIED TECHNICIANS TO INSTALL AND SERVICE THE UNIT. ALL  
PERSONS SHOULD OBSERVE THE FOLLOWING:**

- a) Use this unit only in a manner intended by the manufacturer. If you have questions, contact the manufacturer.
- b) Before servicing or cleaning unit, switch power off at the service panel and lock-out the service in accordance with OSHA (LOTO) practices and procedures to prevent power from being accidentally switched on avoiding accidental electric shock and injury. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.
- Installation work and electrical wiring must be completed by qualified personnel in accordance with all applicable codes and standards, to include fire-rated constructions.
- When cutting or drilling into walls and ceilings, be careful not to damage electrical wiring and other hidden utilities.
- If this unit is to be installed within close proximity to water, mark the unit in accordance with applicable codes and standards.
- This unit is to be used only as intended by the manufacturer. If you have any questions regarding the use, installation, or operation of this unit, contact the manufacturer:

**AJ Manufacturing Co., Inc.**  
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Kansas City, MO 64132  
Tel: 816-231-5522



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DRAWN SLG	CATEGORY CRITICAL ENVIRONMENT INSTALLATION MANUAL	TAG	QTY	REV # A
CHKD HT	PRODUCT ANY DIFFUSER WITH -LED SUFFIX	DRAWING NAME		SHT 2/8
APRVD 06-16-22	SIZE			SCL 1:10
				DO NOT SCALE

# STAINLESS STEEL

## CRITICAL ENVIRONMENT

### DIFFUSERS W/LED LIGHTING OPTION

#### PRODUCT FEATURES

- INPUT VOLTAGE (100-305VAC) & AMP DRAW (50/60 Hz):

Voltage	115VAC	230VAC	277VAC
Amp Draw	1.1A	0.5A	0.42A

- DIMMING OPTION: 0-10V FOR INTENSITY & CCT MIX
- EXPECTED LIFE SPAN:

Product	DRIVER	LED LIGHT BOARD
Hours	100,000 hrs up to 70°C   35,000 hrs up to 85°C	L80>60,000 up to 105°C   L80>72,000 up to 85°C

- LUMINOSITY:

Unit Size	48 x 24	36 x 24	24 x 24
Lumens	8,800	7,040	4,400

- LED CHARACTERISTICS:
  - FULLY TUNABLE - WARM TO COOL WHITE - 2700-6500K; 90CRI
  - VARIOUS COLORS AVAILABLE INCLUDING: GREEN--525nm and RED--612-630nm



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CHKD HT	PRODUCT ANY DIFFUSER WITH -LED SUFFIX	DRAWING NAME		SHT 3/8
APRVD 06-16-22	SIZE			SCL 1:10
				DO NOT SCALE

## ELECTRICAL CONNECTIONS

### WARNING!

Shut off the the electrical power source to the unit before installing.

- Installation work and electrical wiring must be completed by qualified personnel in accordance with all applicable codes and standards, to include fire-rated constructions.
- When cutting or drilling into walls and ceilings, be careful not to damage electrical wiring and other hidden utilities.
- Wire connection points are provided inside the LED electrical box.
- See wiring diagram for more specific connections

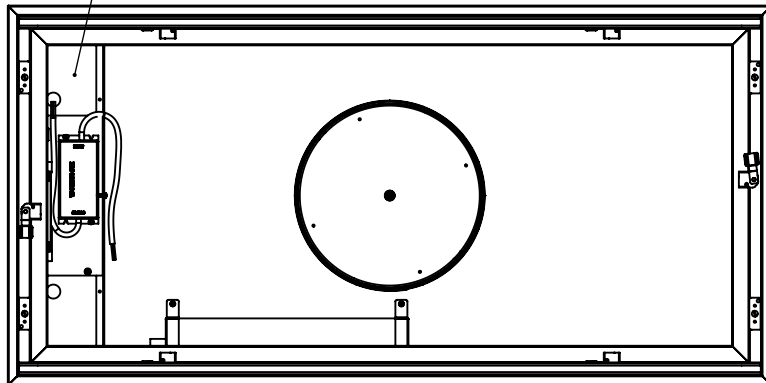
# STAINLESS STEEL

## CRITICAL ENVIRONMENT

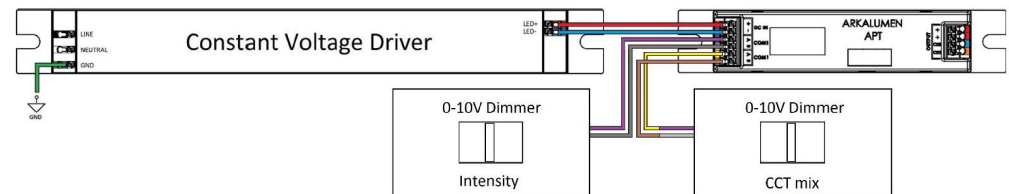
### DIFFUSERS W/LED LIGHTING OPTION

(2) KNOCK-OUTS  
FOR LINE VOLTAGE/DIMMER WIRES

LED Electrical Box  
(Shown Without Cover)



Wiring Diagram



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DRAWN

SLG

CHKD

HT

APRVD

06-16-22

CATEGORY

CRITICAL ENVIRONMENT INSTALLATION MANUAL

PRODUCT

ANY DIFFUSER WITH -LED SUFFIX

SIZE

TAG

QTY

REV # A

SHT 4/8

SCL 1:14

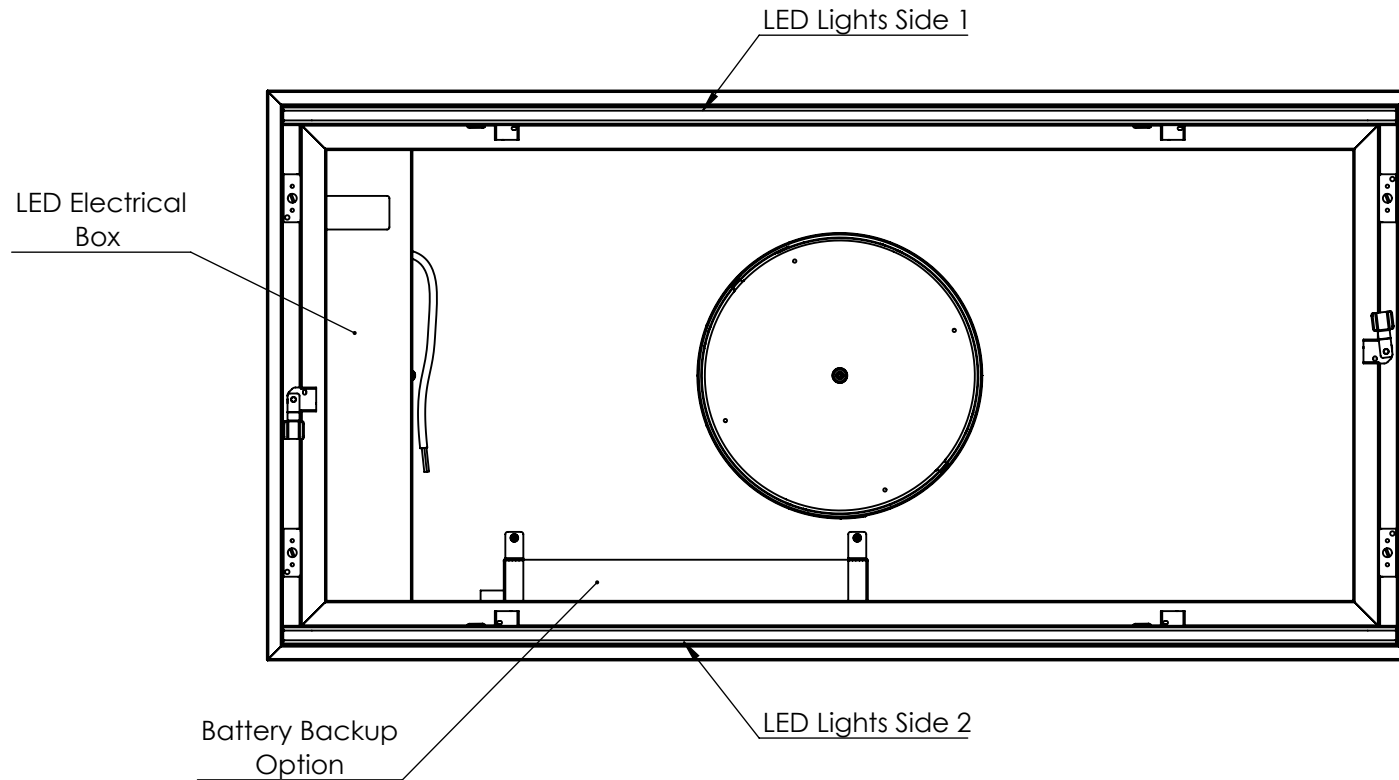
DRAWING NAME

DO NOT  
SCALE

# STAINLESS STEEL

## CRITICAL ENVIRONMENT

### DIFFUSERS W/LED LIGHTING OPTION



**WHEN ORDERING REPLACEMENT LED COMPONENTS, PLEASE PROVIDE THE ORIGINAL PO # OR SALES ORDER # TO ENSURE WE SEND THE APPROPRIATE COMPONENTS**



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CHKD HT	PRODUCT ANY DIFFUSER WITH -LED SUFFIX	DRAWING NAME		SHT 5/8
APRVD 06-16-22	SIZE			SCL 1:8
				DO NOT SCALE

## SERVICING AND REPLACING LED ELECTRICAL COMPONENTS

### **WARNING!**

Disconnect unit from the electrical power source before attempting to service.

**BEFORE working on any wire connections, take a picture of unit wiring as built and shipped from the factory. Use as a reference when reconnecting.**

Step 1 -- Turn the unit lights off with the wall switch.

Step 2 -- Disconnect the unit at the power source or at the service panel in accordance with OSHA (LOTO) practices and procedures.

Step 3 -- Using a flat screwdriver, release the face frame by rotating the fasteners a 1/4-turn counter clock-wise.

Step 4 -- If applicable, remove HEPA Filter and set aside. See main product IOM for more instructions.

Step 5 -- Using a philips screwdriver, remove the LED electrical box cover and set aside.

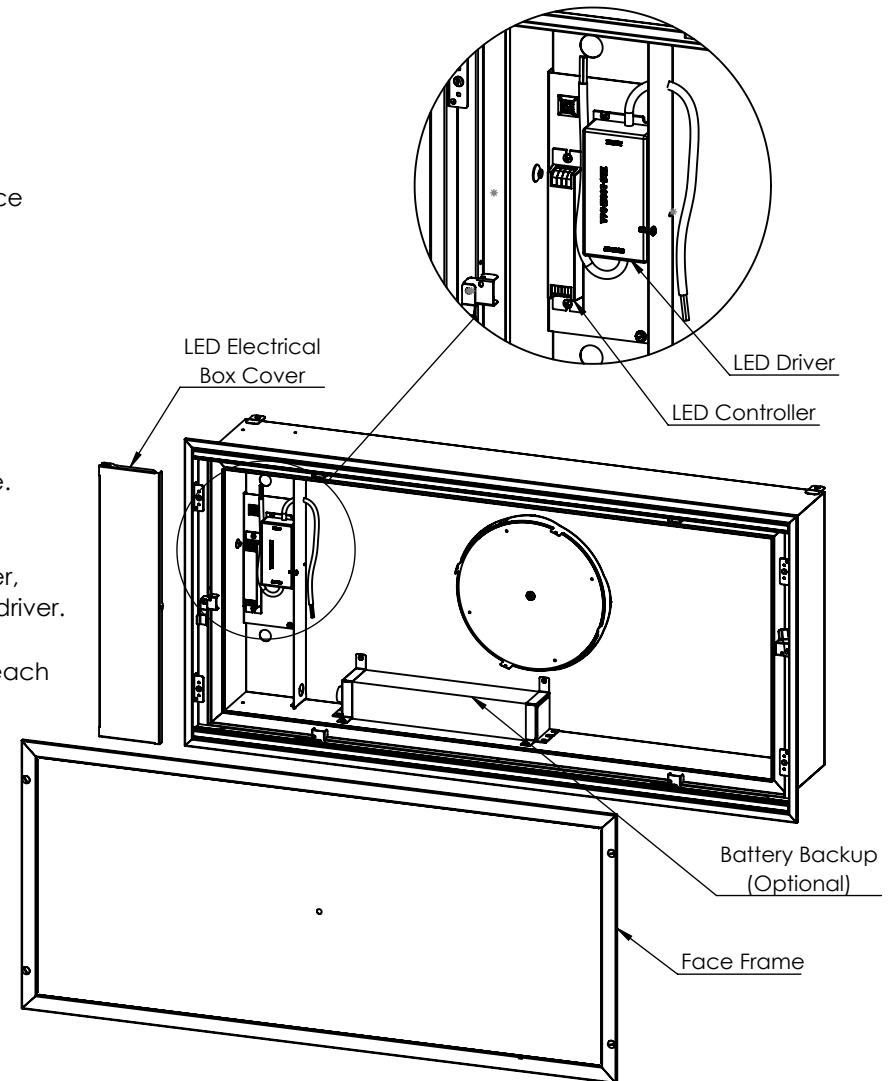
Step 6 -- IF replacing the LED driver, use a small screw driver to release wires from the controller and disconnect wires from power supply. Using a philips screwdriver, remove the LED driver from the electrical box and replace with the new LED driver.

Step 7 -- IF replacing the LED controller, use a small screw driver to release wires from each end of the controller. Using a philips screwdriver, remove the LED controller from the electrical box and replace with the new LED controller.

Step 8 -- IF replacing the battery backup, use a philips screwdriver to remove the bracket closest to the LED electrical box and carefully slide the battery backup out of the other bracket. Cut wires at all connections to the LED electrical box and disconnect wires from the power supply. Replace with a new battery backup. Reconnect all wire connections with wire nuts and wrap wire nuts with electrical tape.  
(Wire nuts and electrical tape - Supplied By Others)

Step 9 -- Reverse steps 3 - 5 to return units to operating condition.

## **CRITICAL ENVIRONMENT** DIFFUSERS W/LED LIGHTING OPTION



ALL COMPONENTS ARE ROOM SIDE REPLACABLE



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CHKD HT	PRODUCT ANY DIFFUSER WITH -LED SUFFIX	DRAWING NAME		SHT 6/8
APRVD 06-16-22	SIZE			SCL 1:14
				DO NOT SCALE

## SERVICING AND REPLACING LED LIGHT COMPONENTS

### WARNING!

Disconnect unit from the electrical power source before attempting to service.

**BEFORE** working on any wire connections, take a picture of unit wiring as built and shipped from the factory. Use as a reference when reconnecting.

Step 1 -- Turn the unit lights off with the wall switch.

Step 2 -- Disconnect the unit at the power source or at the service panel in accordance with OSHA (LOTO) practices and procedures.

Step 3 -- Using a flat screwdriver, release the face frame by rotating the fasteners a 1/4-turn counter clock-wise.

Step 5 -- Using a 11/32" driver, remove all the nuts holding the LED channels in place. Then remove the wire covers from each corner.

Step 6 -- Remove the LED channels; which will consist of (2) two loose pieces.  
(Top LED Channel w/LED Light Board and the Frosted Lens)  
(The Bottom LED Channel will remain attached to the unit.)

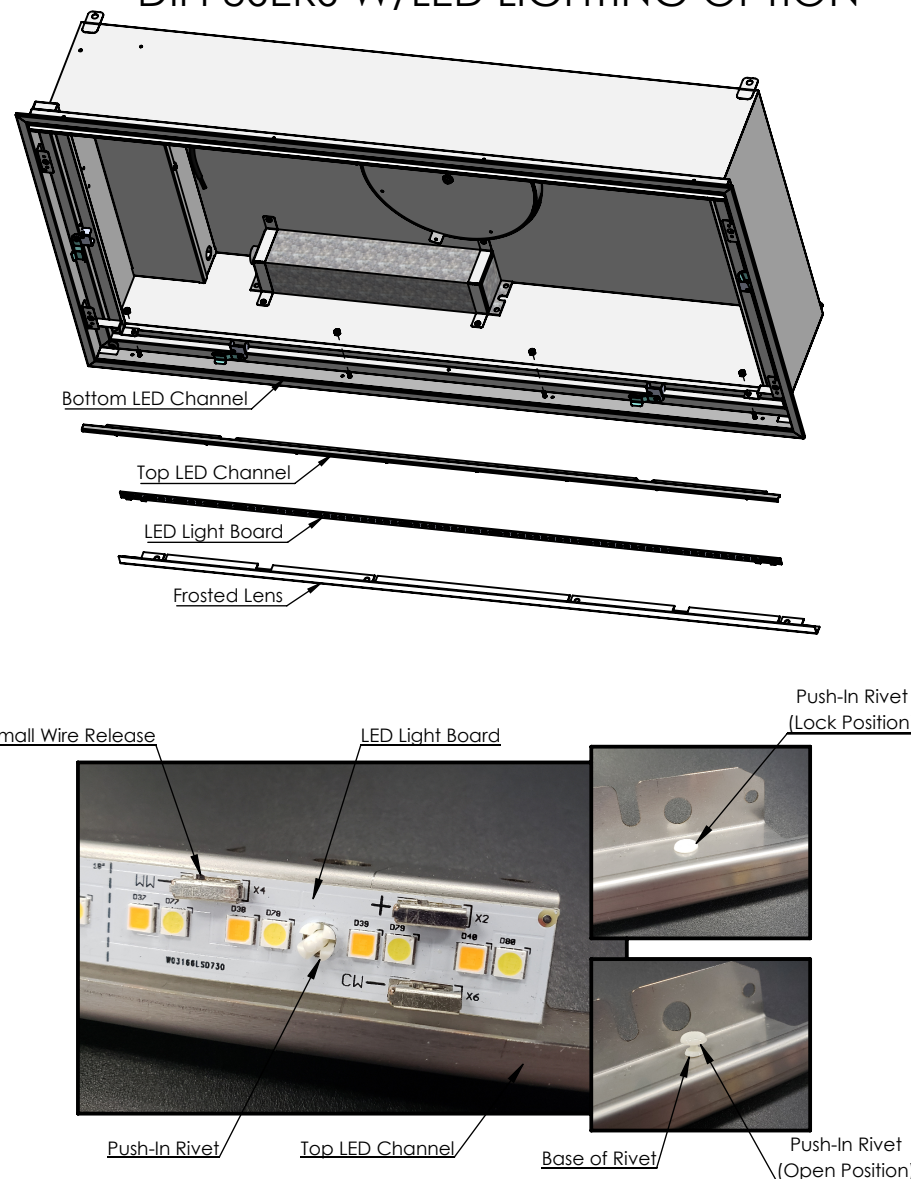
Step 7 -- To remove the LED Light Board and channel, first detach the wires from the board. To detach the wires, use a small screwdriver or a knife to press on the small wire release lever on the wire connect and remove the wires. Repeat until all wires are disconnected from the LED Light Board.

Step 8 -- To remove the LED Light Board from the channel, on the back of the channel using a small knife lift the push-in rivet up to the open position. Once the rivet is open, pull up the base of the rivet still in the channel to remove it from the board. Repeat until all rivets are removed. Keep the rivets to reinstall the board or replace with a new board.

Step 9 -- Replace components as needed.

Step 10 -- Reverse Steps 3 to 8 to return unit to operating condition.

## CRITICAL ENVIRONMENT DIFFUSERS W/LED LIGHTING OPTION



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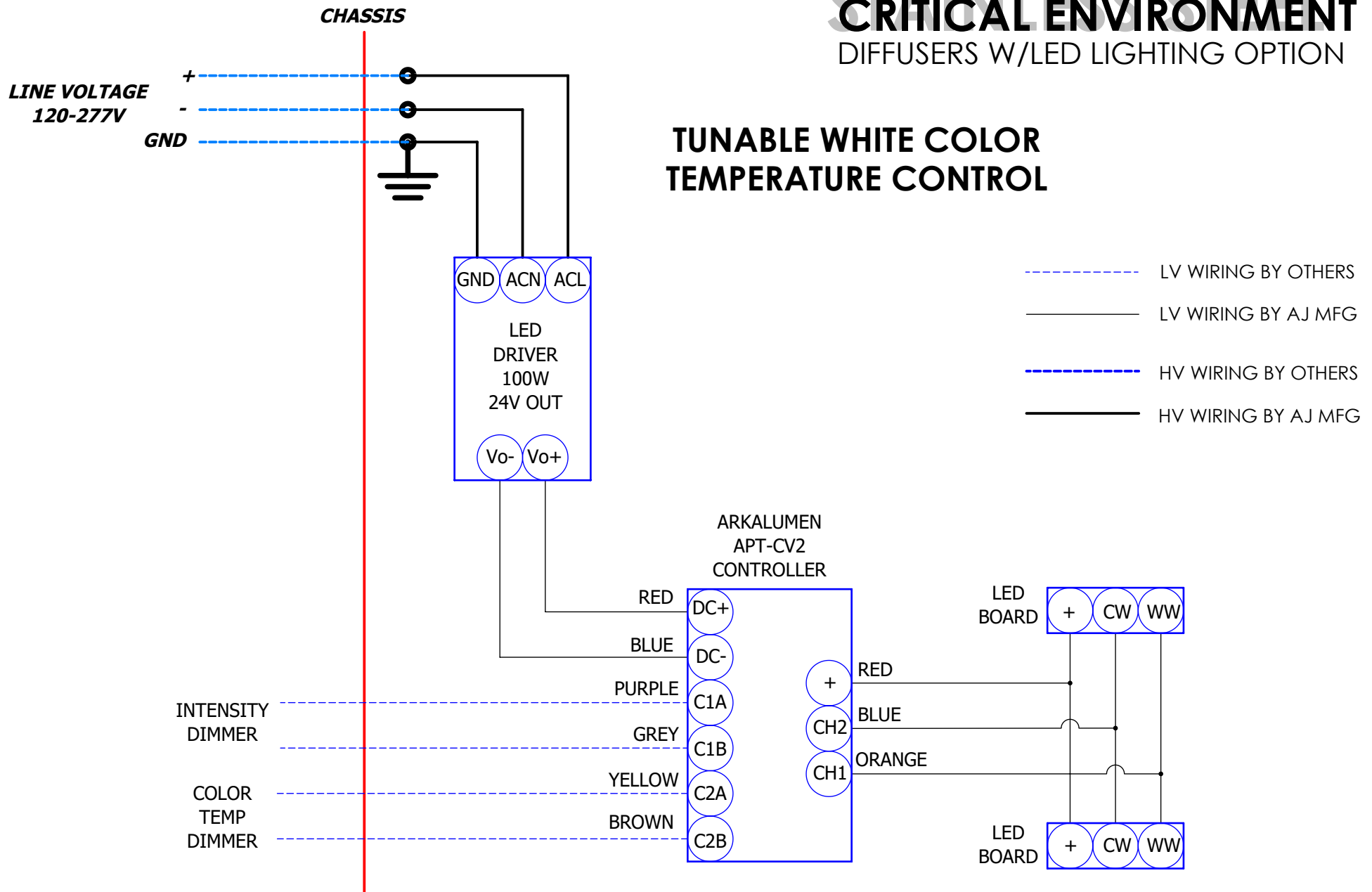
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CHKD HT	PRODUCT ANY DIFFUSER WITH -LED SUFFIX	DRAWING NAME		SHT 7/8
APRVD 06-16-22	SIZE			SCL 1:14
				DO NOT SCALE

# CRITICAL ENVIRONMENT

## DIFFUSERS W/LED LIGHTING OPTION

### TUNABLE WHITE COLOR TEMPERATURE CONTROL



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DRAWN SLG	CATEGORY CRITICAL ENVIRONMENT INSTALLATION MANUAL	TAG	QTY	REV # A
CHKD HT	PRODUCT ANY DIFFUSER WITH -LED SUFFIX	DRAWING NAME		SHT 8/8
APRVD 06-16-22	SIZE			SCL 1:1
				DO NOT SCALE