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Installation Instructions for **Saber Suspension, 0.8" Round 24VDC Outdoor Wet Location, Tunable White**

FN-SCS8-___

IMPORTANT INFORMATION
- This instruction shows a typical installation.
- Saber is an IP67 rated wet location system featuring water tight barrel connections.
- This product bends up or down.

**SAVE THESE INSTRUCTIONS!**
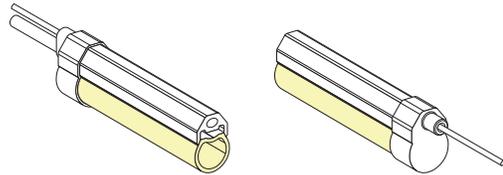
Section One: Install the Turnbuckle

A

INCORRECT ORIENTATION

② ➤ ← BASE

AIRCRAFT CABLE

CORRECT ORIENTATION

② ➤ ← BASE

AIRCRAFT CABLE
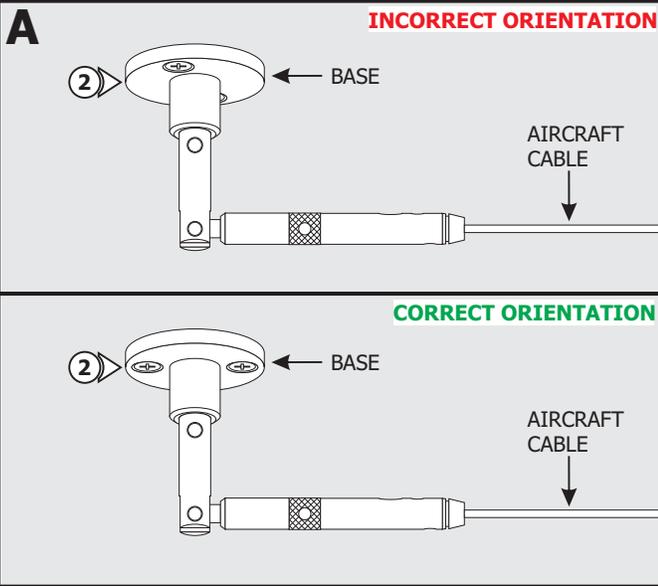
**NOTE:** Ensure the turnbuckles are mounted to a solid structure such as brick, cement, or wood studs.

1: Determine the location of each turnbuckle.

2: When mounting the turnbuckle onto the ceiling or at an angle, the screw holes of the turnbuckle base should be inline with the aircraft cable.

3: Place the turnbuckle base against the surface and mark the location of the two screw holes.

NOTE: Step 4 is for drywall mounting. Omit this step if mounting directly to a wood surface.

4: Masonry anchors are not provided. Tap the anchors onto the marked points up to the threaded portion with a hammer. Screw in the threaded portion of the anchors with a Phillips screwdriver.

B

ANCHOR

1.185"

④

SURFACE

ANCHORS MUST BE FLUSH TO SURFACE

④

C

SCREW

TURNBUCKLE

5
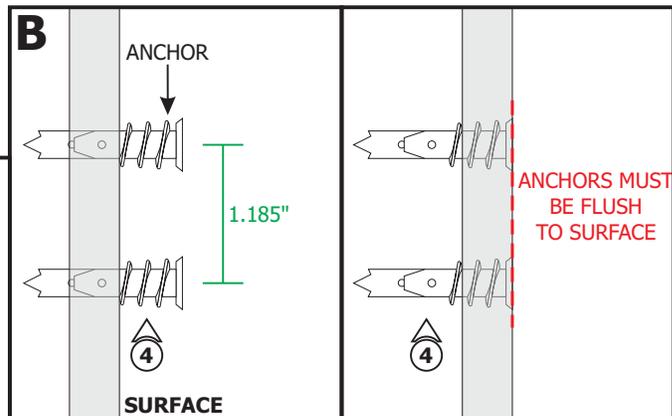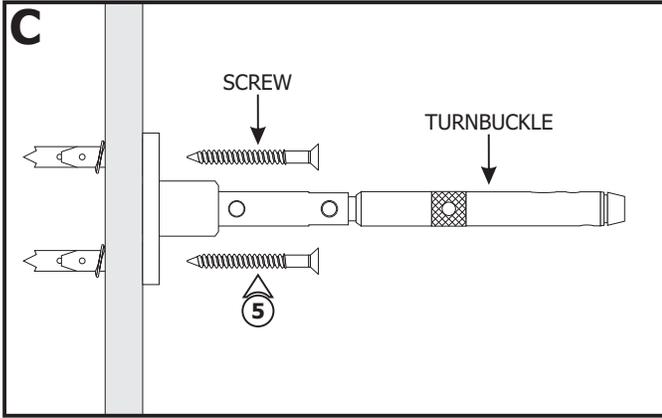
5: Secure the turnbuckle base to the anchors using two #8 screws provided.

6: Repeat steps 3 through 5 for the other turnbuckle.

Section Two: Install the Saber Channel

D

1
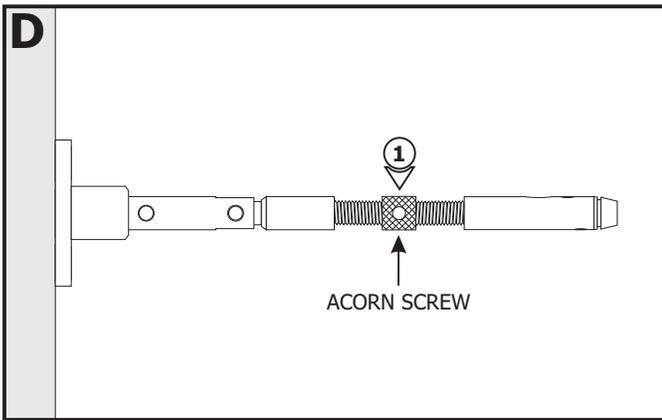
ACORN SCREW

1: Unscrew the acorn screw on the turnbuckle body to its full extension for maximum adjustments.

E

AIRCRAFT CABLE

SET SCREW

3

4

ACORN SCREW

2: Loosen **(Do Not Remove)** the two set screws on the end of the turnbuckle body using an Allen wrench.

3: Insert the aircraft cable into the turnbuckle body and tighten the set screws.

4: Insert the other end of the aircraft cable into the opposite turnbuckle. Pull the cable taut between the two turnbuckles. Tighten the set screws on the opposite turnbuckle using an Allen wrench.

F

5
TURN

TURNBUCKLE BODY

ACORN SCREW

HOLD HERE
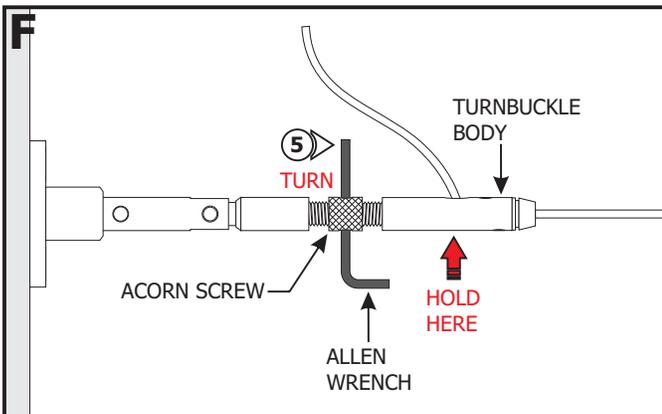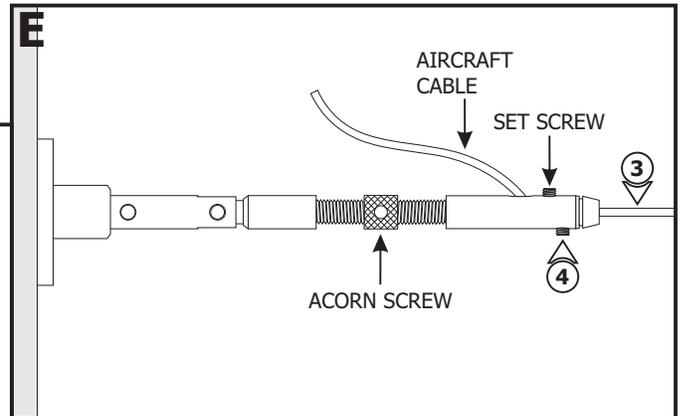
ALLEN WRENCH

5: For final adjustments, insert an Allen wrench into the acorn screw hole and rotate counter clockwise with one hand while holding the turnbuckle body with the other hand.

6: Tighten the acorn screw on each turnbuckle for the Saber channel to stay taut.

G

TURNBUCKLE

TURNBUCKLE

⑦

SABER
POWER
CABLE

SABER
CHANNEL

OUTDOOR
JUNCTION
BOX

TRIM
EXCESS
CABLE

⑧
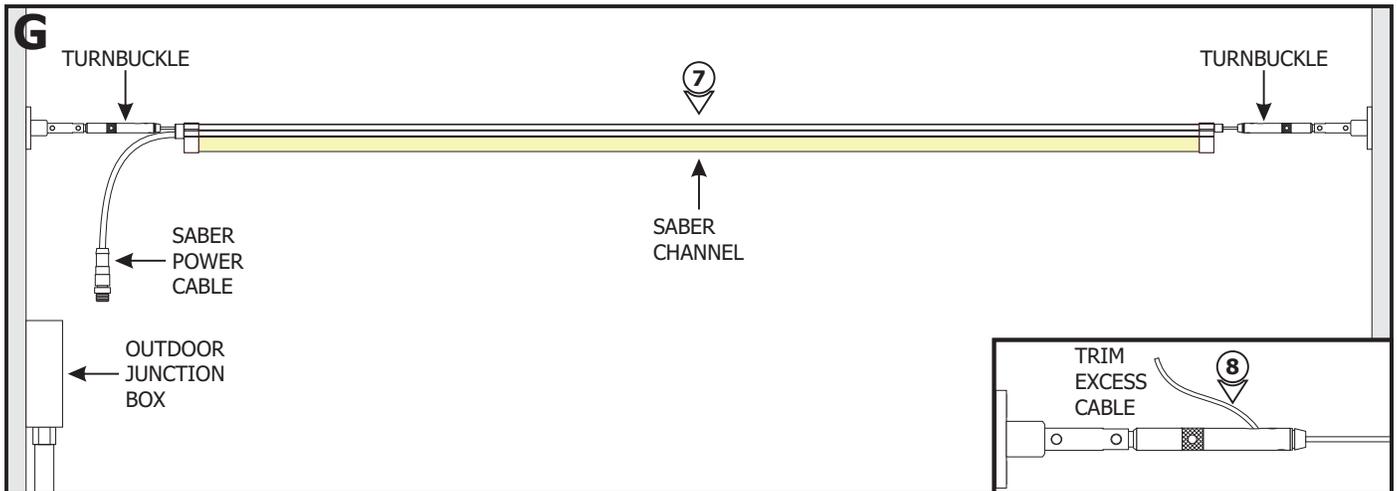
7: Ensure the Saber channel is taut before continuing.

8: If necessary, trim off excess aircraft cable using sharp cutters.

Section Three: Connect to Power

H

①

CUT

POWER CABLE

②
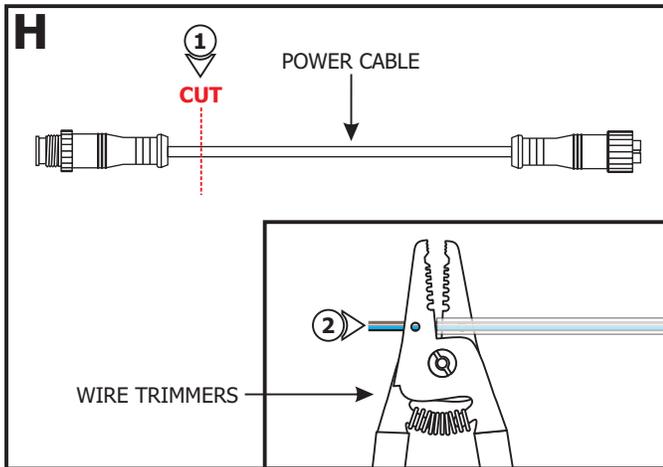
WIRE TRIMMERS

1: Keep one end of the connector (either the male or female end) that is going to be connected to the fixture. Cut and discard the other end connector.

2: Use AWG wire trimmers to remove the outer insulation from the wire harness where electrical connection will be made.

I

CANOPY

③
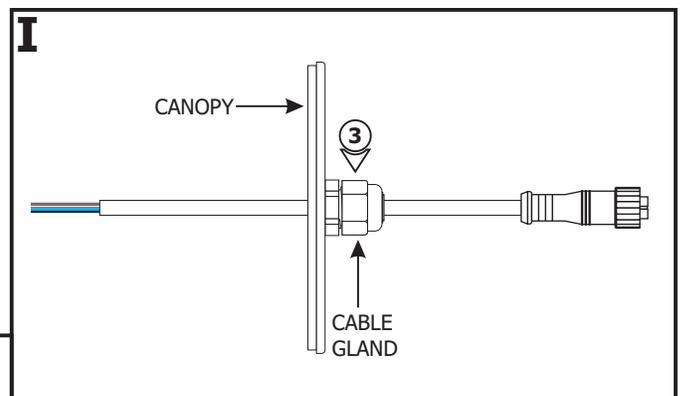
CABLE
GLAND

3: Insert the power cable through the outdoor canopy and tighten the waterproof cable gland to lock in place.

J

BROWN (+2000K or +2700K)
BLACK (-2000K or -2700K)
WHITE (+6500K)
BLUE (-6500K)

red
green
blue
white
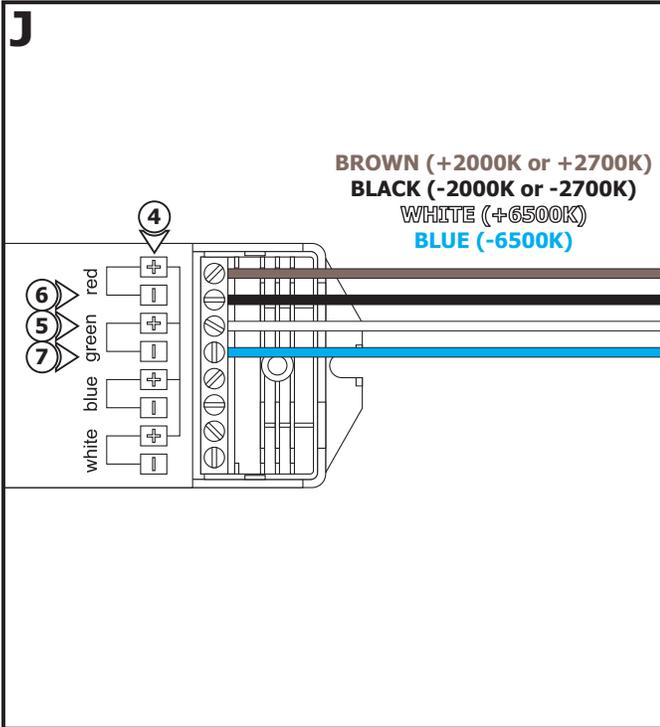
NOTE: The color of the power cord wires are represented as:
Brown for +24VDC (2000K or 2700K)
Black for -24VDC (2000K or 2700K)
White for +24VDC (6500K)
Blue for -24VDC (6500K)

NOTE: Omit steps 4 through 8 if using two channel controls. Refer to steps 9 through 14.

Tunable White with DMX Control:

4: Connect the brown wire to the red "+" DMX terminal and tighten the screw.

5: Connect the white wire to the green "+" DMX terminal and tighten the screw.

6: Connect the black wire to the red "-" DMX terminal and tighten the screw.

7: Connect the blue wire to the green "-" DMX terminal and tighten the screw.

8: Refer to the wiring diagram on page 6 and the instructions provided with the power supply to complete the installation.

Tunable White Strip with Two Channel Controls:

9: The Vin2+ Red and Vin2- Black wires are not used in this procedure. Cap the Vin2+ Red and Vin2- Black wires using wire nuts.

10: Connect the brown wire for +2000K or +2700K to the Warm+ Yellow dimming module wire using a wire nut.

11: Connect the black wire for -2000K or -2700K to the Warm- Blue dimming module wire using a wire nut.

12: Connect the white wire for +6500K to the Cool+ Yellow dimming module wire using a wire nut.

13: Connect the blue wire for -6500K to the Cool- Blue dimming module wire using a wire nut.

14: Refer to the wiring diagram on page 7 and the instructions provided with the power supply to complete the installation.

K

BROWN
(+2K or +27K)

BLACK
(-2K or -27K)

WHITE
(+6K)

BLUE
(-6K)

WARM+ YELLOW
VIN1+ RED
VIN1- BLACK
WARM- BLUE
COOL- BLUE
VIN2- BLACK
VIN2+ RED
COOL+ YELLOW

COLOR TEMP
INTENSITY
PURPLE +
PURPLE +

DIMMING MODULE

L

OUTDOOR JUNCTION BOX

POWER CABLE

CANOPY
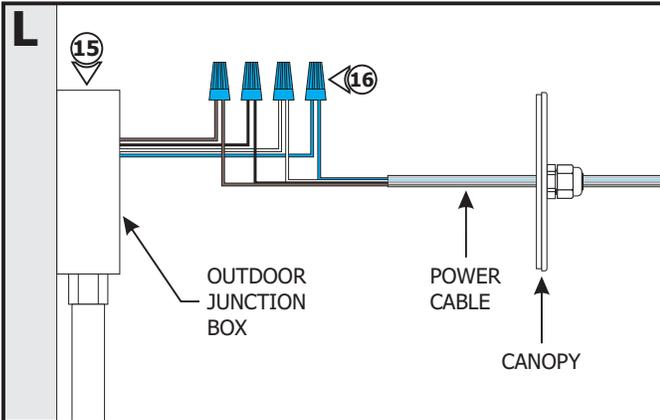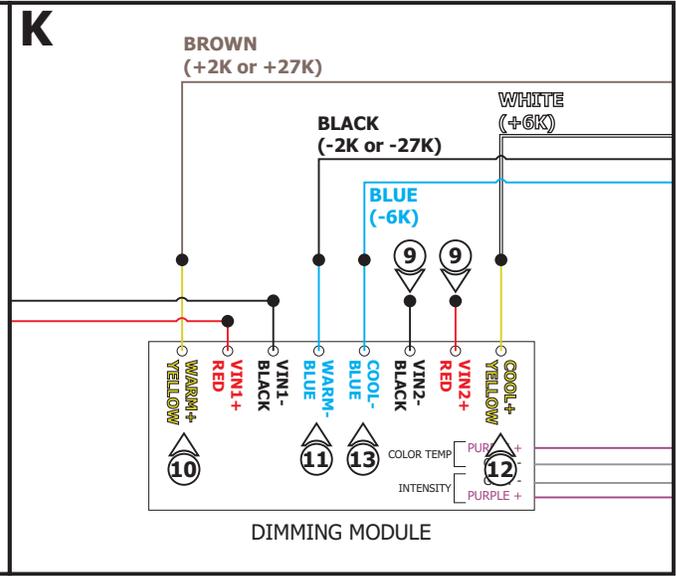
NOTE: Outdoor electrical connections must be made inside a waterproof junction box or using waterproof wire nut connections.

15: Route the wires coming from the power supply to the outdoor junction box.

16: Connect the brown, black, white, and blue wires from the power supply to the brown, black, white, and blue wires from the canopy power cable respectively using wire nuts.

CAUTION: Test the fixture.

M

17 ⊳⊗ —— SCREW

CANOPY
(OC8P-CFX-RD-ZN)

17 ⊳⊗

CANOPY
(OC8P-CFX-RE-ZN)

17 ⊳⊕

17 ⊳⊕
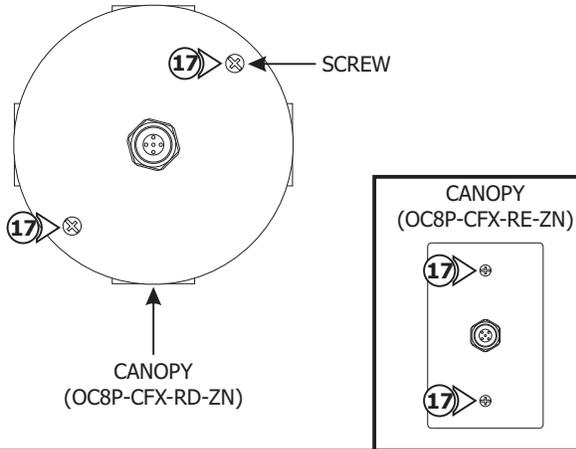
17: Place the outdoor canopy over the outdoor junction box. Secure it by tightening the screws.

N

CANOPY POWER CABLE

FEMALE CONNECTOR

MALE PINS

SABER POWER CABLE

19

18

18: Align the power cables from the canopy and the Saber channel and push into place, ensuring that the female connector and male pins mate properly.

19: Twist the connector nut to lock in place.

General Wiring Diagram with CDMX

TURNBUCKLE

END CAP

OUTDOOR 24VDC SABER

POWER
END CAP

TURNBUCKLE

OUTDOOR
JUNCTION BOX

OUTDOOR
CANOPY

WET LOCATION
CABLE CONNECTOR

PSB-100W-24VDC-2XK-W

POWER SUPPLY

DRIVER

GND

L
N

DMX DATA
TO NEXT POWER/
DATA SUPPLY

DMX CABLE

CDMX1-2XK

CONTROLLER
POWER ADAPTER

BN (+2K or +27K)
BK (-2K or -27K)
WH (+6K)
BL (-6K)

red
green
blue
white
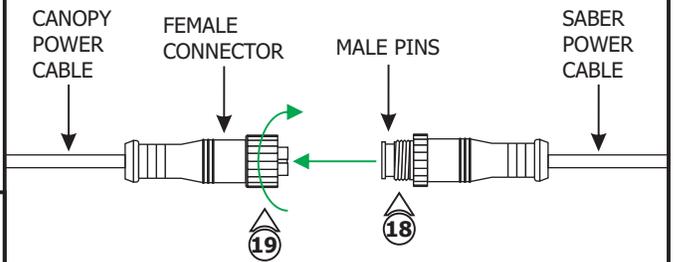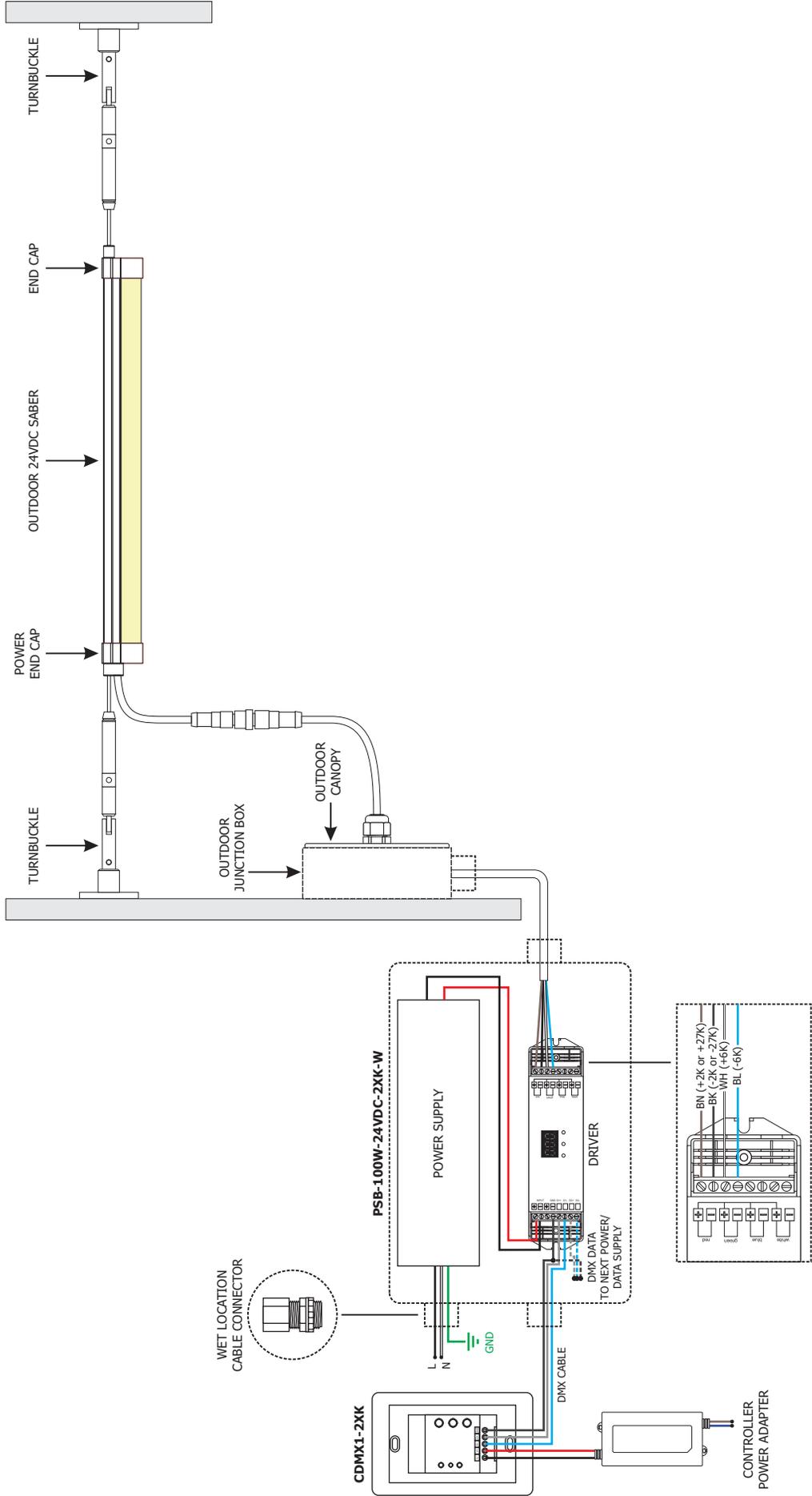
General Wiring Diagram with Two Channel Controls

TURNBUCKLE

END CAP

OUTDOOR 24VDC SABER

POWER END CAP

TURNBUCKLE

OUTDOOR CANOPY

OUTDOOR JUNCTION BOX

WHITE +6K

COOL+ YELLOW
VIN2+ RED
VIN2- BLACK
COOL- BLUE
WARM- BLUE
VIN1- BLACK
VIN1+ RED
WARM+ YELLOW

COLOR TEMP
INTENSITY

PUR +
GY -
GY -
PUR +

BLUE -6K

BLACK -2K or -27K

BROWN +2K or +27K

DIMMING MODULE

-24VDC
+24VDC

LOAD
N
GND

24V POWER SUPPLY

24VDC+
24VDC-

PSB-96W-010-24VDC-2XK-W

LOAD
N
GND

24V POWER SUPPLY

0-10V CONTROLLER
CONTROL INPUT 2
(DIMMING COLOR TEMP)

0-10V CONTROLLER
CONTROL INPUT 1
(DIMMING INTENSITY)

LINE

LOAD

INPUT:
120-277VAC

TO POWER SUPPLY

7