WHIZ 2.0

⚠ IMPORTANT SAFETY INFORMATION
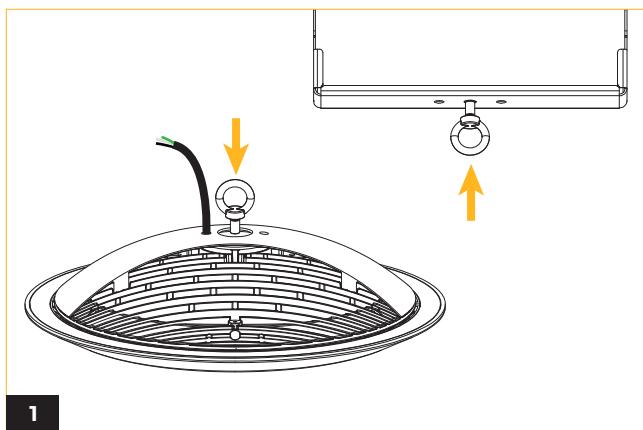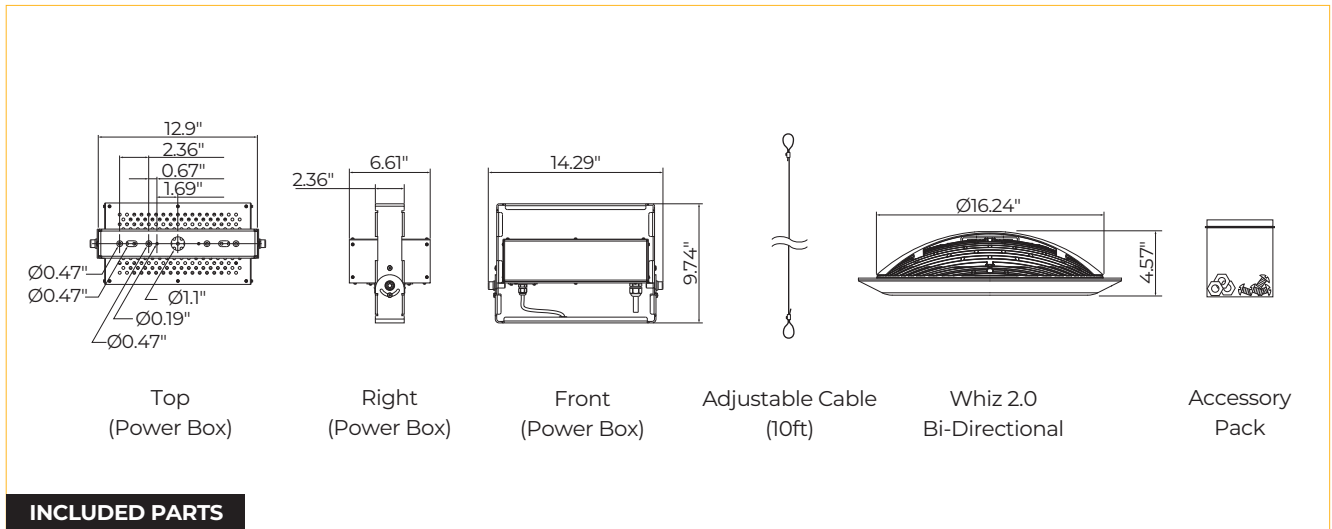### READ AND FOLLOW ALL SAFETY INSTRUCTIONS

FOR FIELD ASSISTANCE PLEASE CALL
+1-213-255-2060 #4

- Before wiring to power supply and during servicing or relamping, turn off power at fuse or circuit breaker.

- All servicing or relamping must be performed by qualified service personnel.

- Product must be grounded to avoid potential electric shock or other potential hazard.

- Product must be installed at locations and heights, in a manner consistent with its intended use, and in compliance with electrical code and local codes.

**SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE**

METEOR

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WHIZ 2.0 BI-DIRECTIONAL ADJUSTABLE CABLE

METEOR

12.9"
2.36"
0.67"
1.69"
2.36"
6.61"
14.29"
9.74"
Ø0.47"
Ø0.47"
Ø1.1"
Ø0.19"
Ø0.47"
Ø16.24"
4.57"

| Top (Power Box) | Right (Power Box) | Front (Power Box) | Adjustable Cable (10ft) | Whiz 2.0 Bi-Directional | Accessory Pack |

INCLUDED PARTS

1

Fasten the 2 hook rings available in the accessory pack to both the fixture and lower bracket.
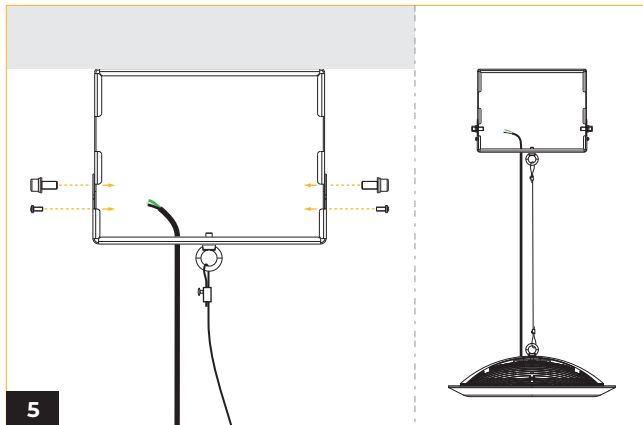

Length Adjuster

2
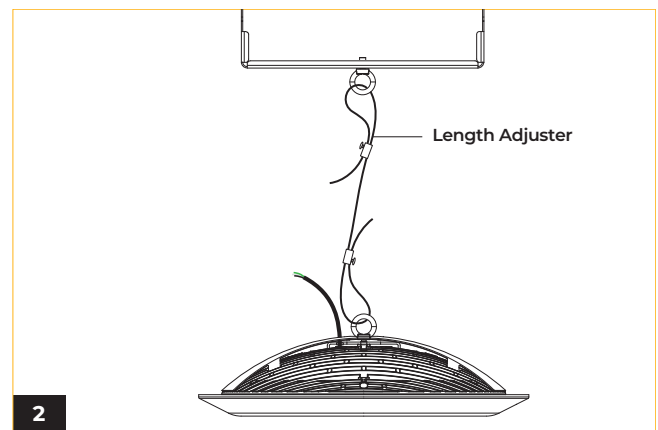
Loop the adjustable cable through the length adjuster looping and fastening at the desired height.

3
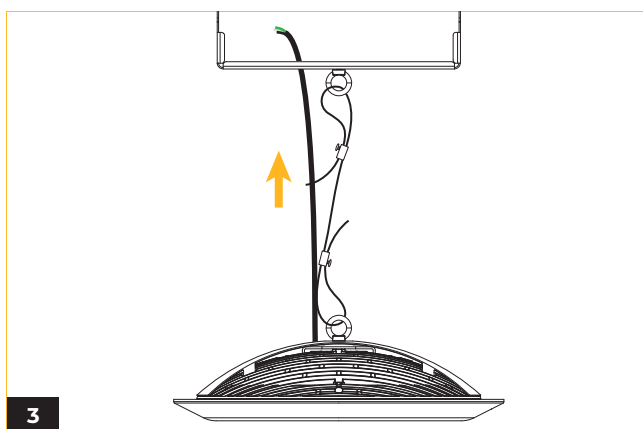
Attach the fixture cables through the lower bracket.

4
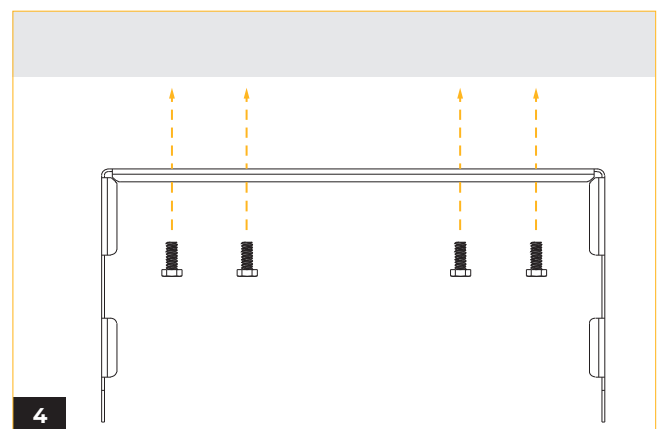
Fasten the top bracket on the desired location on the ceiling.

WHIZ 2.0   BI-DIRECTIONAL ADJUSTABLE CABLE

5 Align both lower and upper brackets and fasten in place.
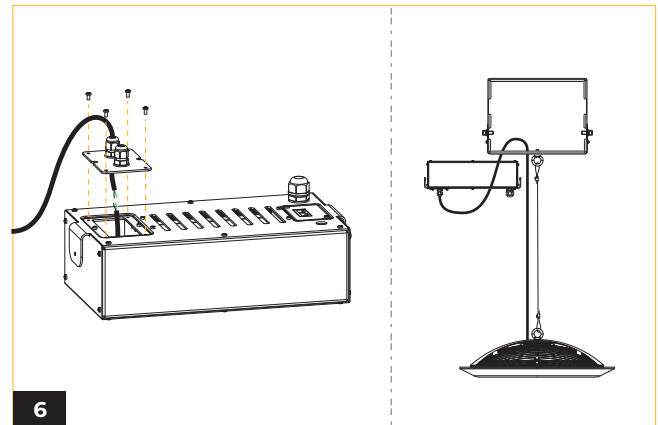
6 Open the DC Junction box and connect cables. Refer to wiring diagram section.
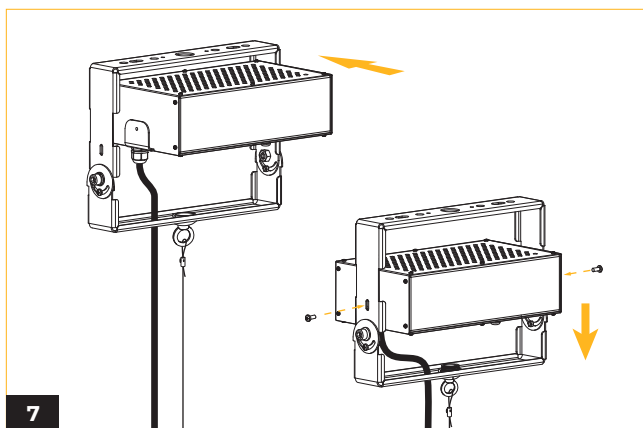
7 Slip the power box hook fastener over the lock-in grooves allocated and fasten screws on either side to keep the power box in place.

8 Hook the safety cable.

9 Connect AC Cable to Junction Box.

WHIZ 2.0 WIRING DIAGRAM

METEOR

WIRING DIAGRAM
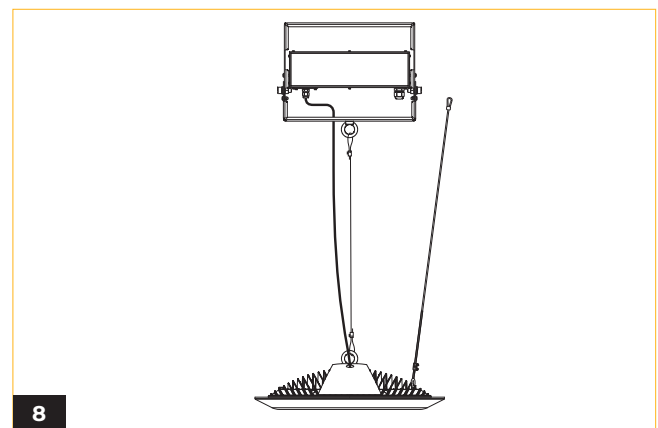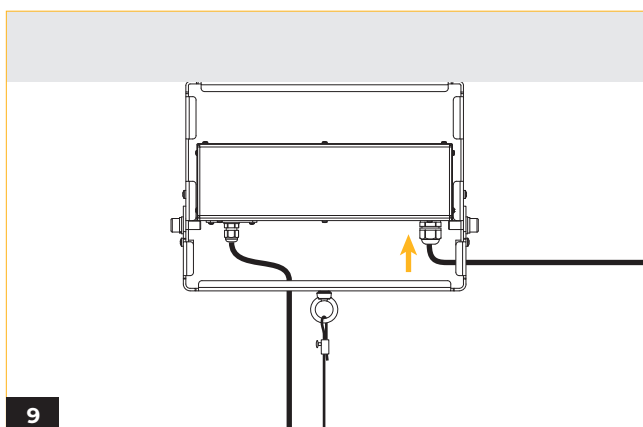
SPV / STV 0-10V

*Not to scale

150 (120W Downlight, 30W Uplight)
180 (120W Downlight, 60W Uplight)
200 (170W Downlight, 30W Uplight)
230 (170W Downlight, 60W Uplight)
270 (240W Downlight, 30W Uplight)
300 (240W Downlight, 60W Uplight)
310 (280W Downlight, 30W Uplight)
340 (280W Downlight, 60W Uplight)

Black (-)
Red (+)
Green (Ground)

Pink (-)
Violet (+)

Down
Down

Violet (Dim+)
Pink/Gray(Dim-)
Black (Line)
White (Neutral)
Green(Ground)

Up
Up

LED Fixture

Power Box

SPVD / 0-10V

*Not to scale

150 (120W Downlight, 30W Uplight)
180 (120W Downlight, 60W Uplight)
200 (170W Downlight, 30W Uplight)
230 (170W Downlight, 60W Uplight)
270 (240W Downlight, 30W Uplight)
300 (240W Downlight, 60W Uplight)
310 (280W Downlight, 30W Uplight)
340 (280W Downlight, 60W Uplight)

Black (-)
Red (+)
Green (Ground)

Pink (-)
Violet (+)

White (Neutral)
Black (Line)
Green(Ground)

Down
Down

Downlight
Intensity Control
(0-10V)

Uplight
Intensity Control
(0-10V)

Violet (Dim+)
Pink/Gray (Dim-)

Black (Dim+)
White (Dim-)

Up
Up

LED Fixture

Power Box

WHIZ 2.0 WIRING DIAGRAM

METEOR
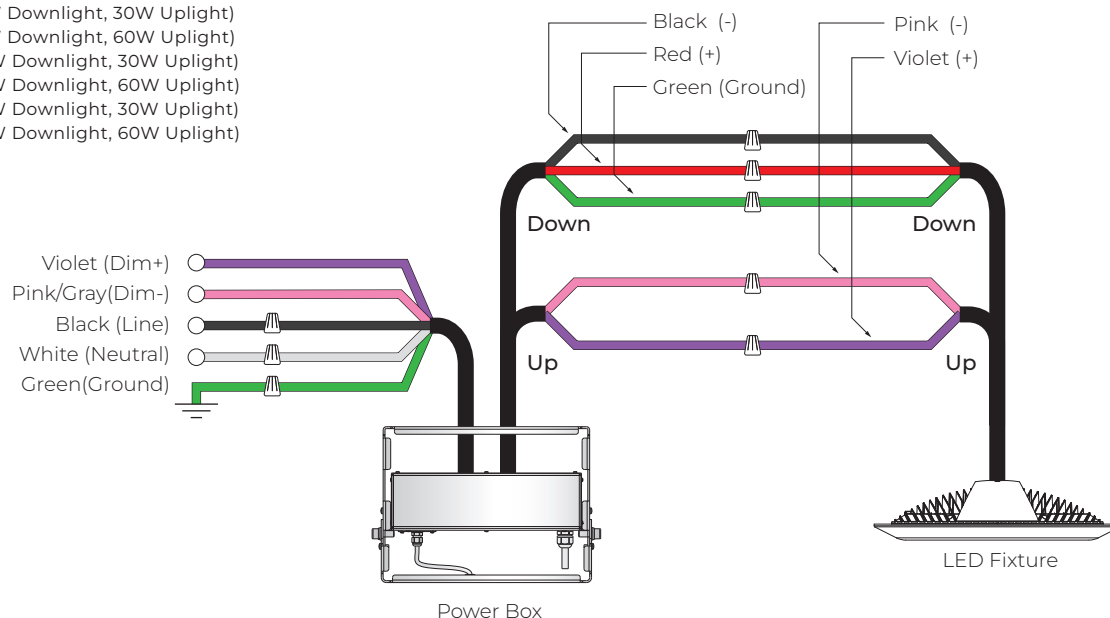
WIRING DIAGRAM

SPV 0-10V (Tunable White)

300 (240W Downlight, 60W Uplight)

*Not to scale

Black (-)
Red (+)
Green (-)

Black (-)
Red (+)
Pink (-)

White (Neutral)
Black (Line)
Green(Ground)

Down   Down

Color Control (0-10V)
Intensity Control (0-10V)

Up   Up

Violet (Dim+)
Pink/Gray (Dim-)

Black (Dim+)
White (Dim-)

Power Box
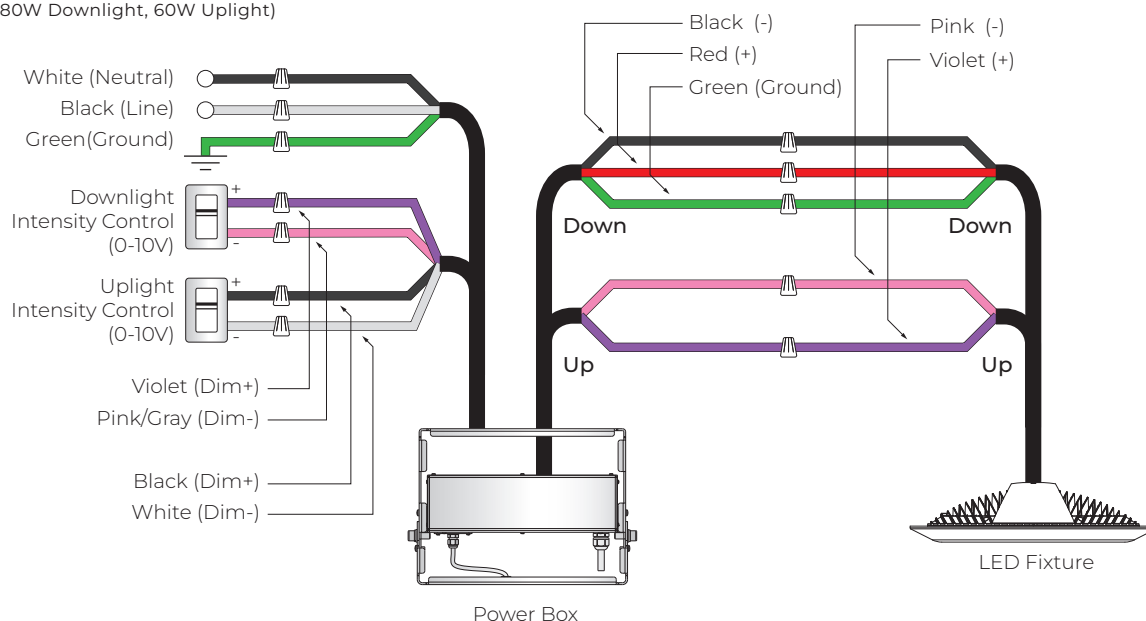
LED Fixture

DMX / DMXD

*Not to scale

150 (120W Downlight, 30W Uplight)
180 (120W Downlight, 60W Uplight)
200 (170W Downlight, 30W Uplight)
230 (170W Downlight, 60W Uplight)
270 (240W Downlight, 30W Uplight)
300 (240W Downlight, 60W Uplight)
310 (280W Downlight, 30W Uplight)
340 (280W Downlight, 60W Uplight)

Black (-)
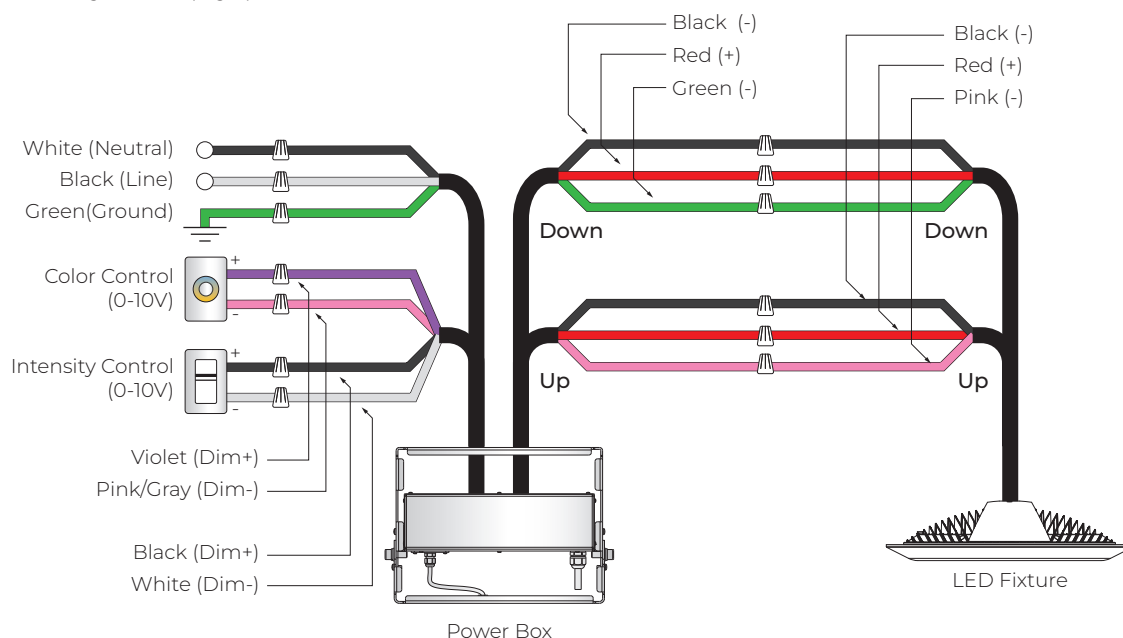Red (+)
Green (Ground)

Pink (-)
Violet (+)

Down   Down

White (Neutral)
Black (Line)
Green(Ground)

Up   Up

DMX IN
DMX OUT

Power Box

LED Fixture

meteor-lighting.com   1860 S Carlos Ave, Ontario, California 91761 **E:** tech@meteor-lighting.com **T:** 213-255-2060

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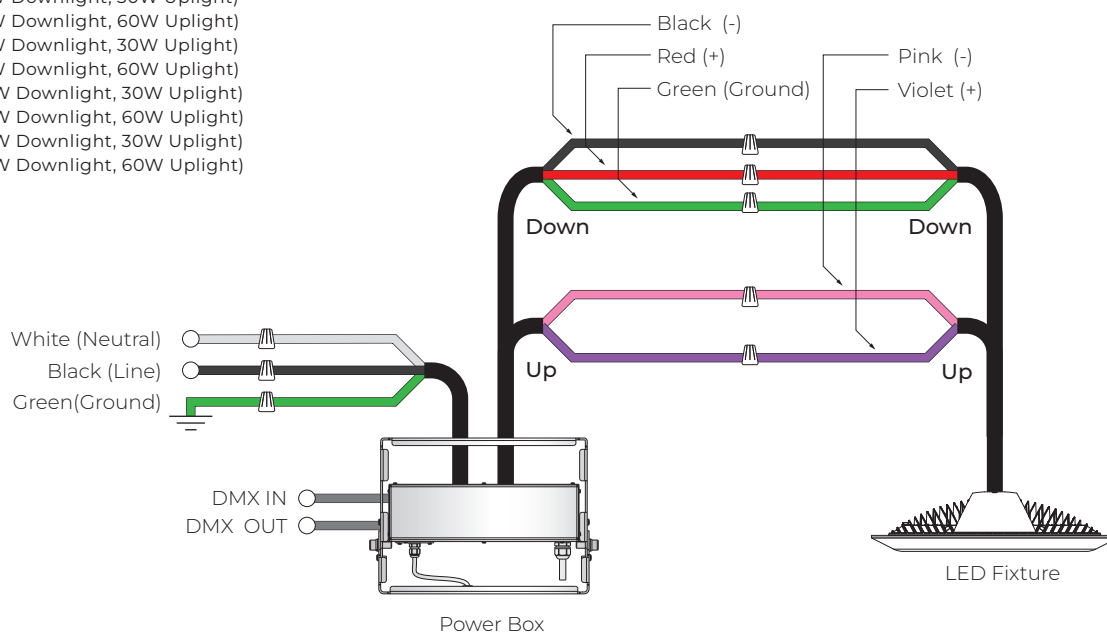
WIRING DIAGRAM

DMX (Tunable White)
300 (240W Downlight, 60W Uplight)

*Not to scale

Black (-)
Red (+)
Green (-)

Black (-)
Red (+)
Pink (-)

Down

Down

White (Neutral)
Black (Line)
Green(Ground)

Up

Up

DMX IN
DMX OUT

LED Fixture

Power Box
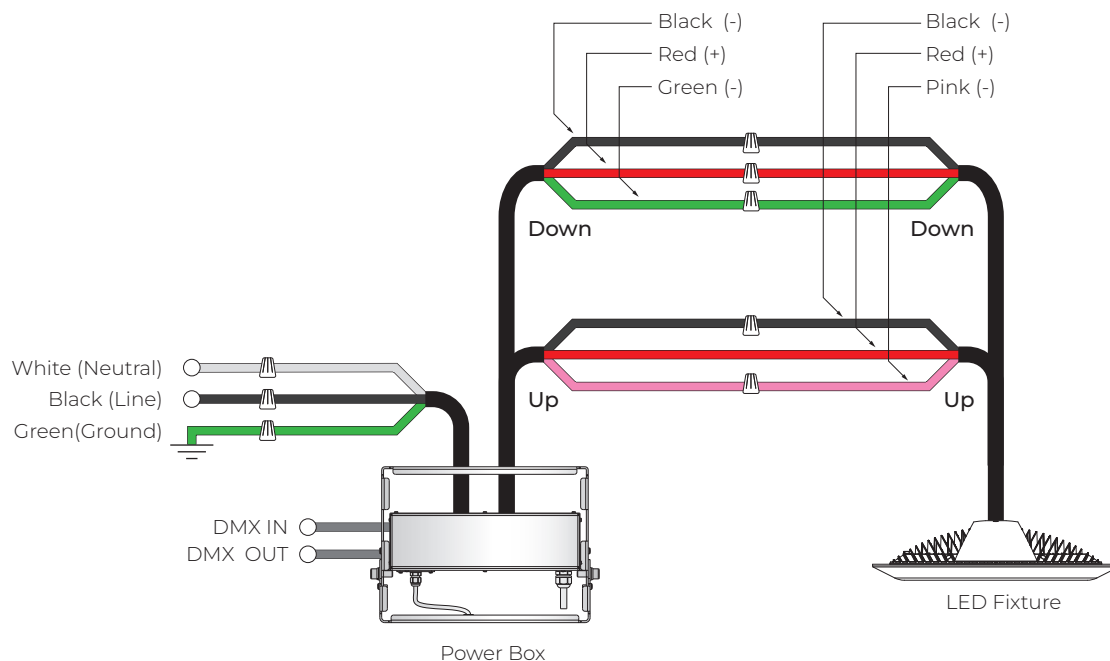
DMX (RGB Uplight & White Downlight)
165 (120W Downlight, 45W Uplight)
215 (170W Downlight, 45W Uplight)
285 (240W Downlight,45W Uplight)

*Not to scale

Black
Red
Green
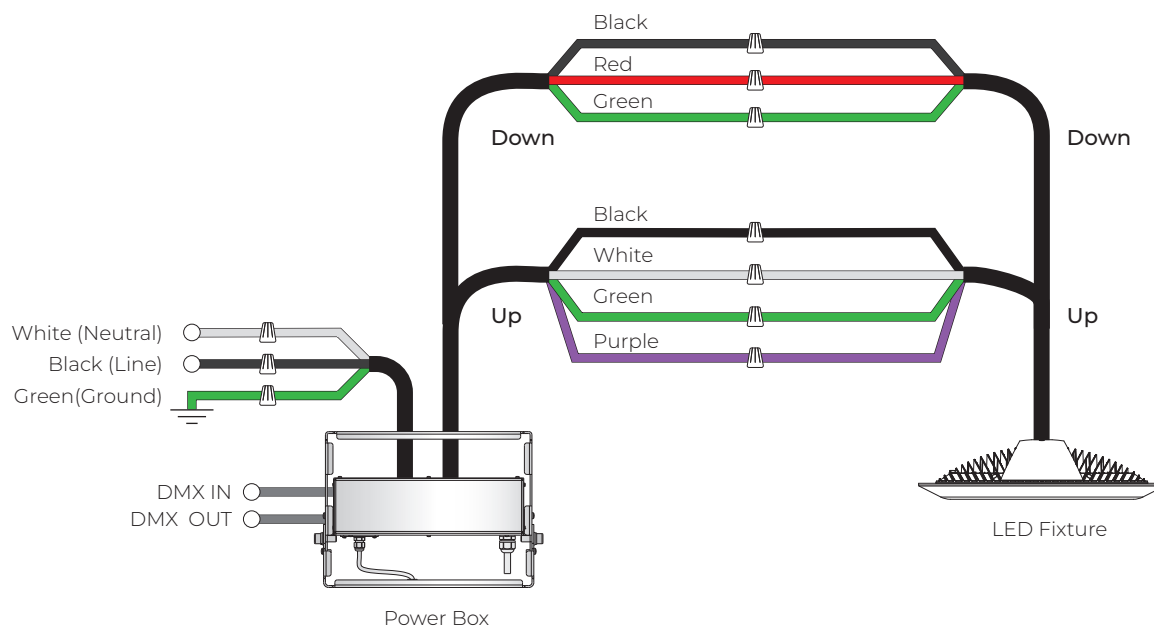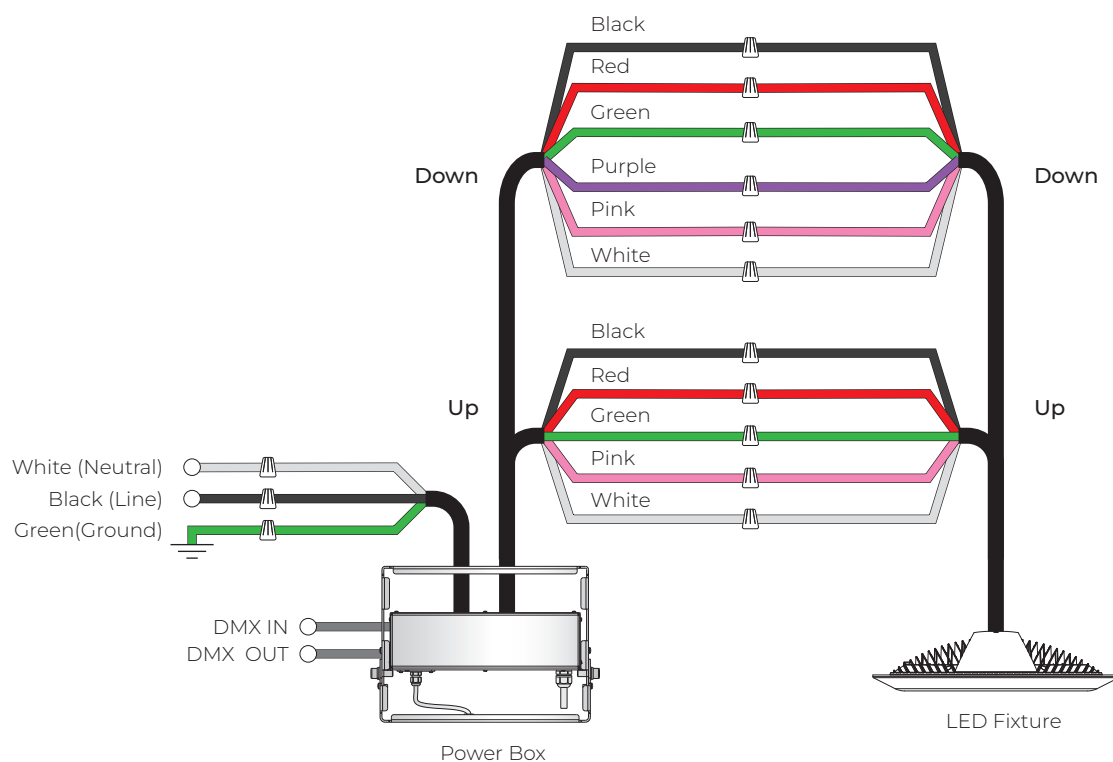
Down

Down

Black
White
Green
Purple

White (Neutral)
Black (Line)
Green(Ground)

Up

Up

DMX IN
DMX OUT

LED Fixture

Power Box

WIRING DIAGRAM

DMX (W+RGB)
300 (240W Downlight, 60W Uplight)

*Not to scale

Black
Red
Green
Purple
Pink
White

Down

Down

Black
Red
Green
Pink
White

Up

Up

White (Neutral)
Black (Line)
Green(Ground)

DMX IN
DMX OUT

Power Box

LED Fixture

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WHIZ 2.0

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DMX REQUIREMENTS

The Whiz 2.0 Bi-Directional fixture with DMX is a **single channel dmx** unit. The downlight and uplight are controlled **separately**. When placing an order, please indicate DMX address. (The DMX address will be listed on the back of the fixture). Do not connect more than 32 fixtures per DMX daisy chain.

	DMX Address	
Fixture	**Uplight**	**Downlight**
#1	1	2
#2	3	4
#3	5	6

The fixture can be connected with RJ45 or XLR sockets. DMX cables **are not** included; please refer to compatible DMX cabling list for more information. The final fixture on each daisy chain should be terminated by the use of a DMX terminator purchased from a 3rd party or from Meteor.

CONNECTION	RJ45 (CAT5e)	5-PIN XLR
Common	WHITE/BROWN(PIN7) & BROWN (PIN 8)	PIN 1
Signal -	ORANGE (PIN 2)	PIN 2
Signal +	WHITE/ORANGE (PIN 1)	PIN 3
Spare	-	PIN 4
Spare	-	PIN 5

DMX IN — DMX OUT

RJ45 Sockets

PUSH

DMX IN   DMX OUT

XLR Sockets
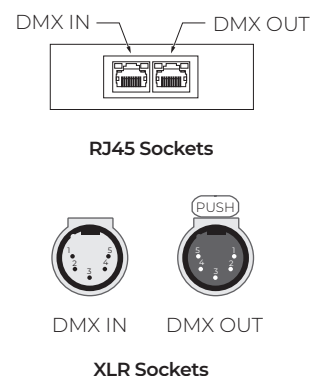
COMPATIBLE DMX CABLING LIST

DMX uses a cable consisting of two twisted pairs plus a shield to carry data. The cable must be specifically impedance matched for the digital DMX signal, meaning that microphone cable or other non-rated cable **must not be used to carry DMX**. Network cable (Cat5, 5e or 6 cable) may be used to carry DMX in an installation; however special consideration must be given to shielding and termination. Under no circumstances should solid core cable like Cat5 be terminated into a screw down connector.

Meteor recommends the use of Belden 9729 or Belden 9841 for DMX installation. Belden 9729/9841 is a two pair cable, which allows for a spare pair for 'out and back' type terminations if needed.

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07-02-2024

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NOTES

Application note : Wiring for DMX/RDM lighting systems

DMX/RDM is a robust and reliable system for lighting control. However, if not implemented correctly, problems can arise such as random flashing of lights, erratic operation and delays in responding to commands. This document explains the best practices in DMX wiring.

Important things to consider are:

1. DMX is a three-wire system. Use all three!
2. DMX is based on the EIA-485/RS-485 standard.
3. Always use cable specifically designed for DMX / RS-485. These cables have an impedance of 120Ω and a low capacitance. For instance : Belden 9729.
4. DMX must be terminated with a 120Ω resistor to prevent reflections.
5. A daisy chain topology should be used.
6. After 32 unit loads a repeater/booster should be used. (Important : For tunable white fixtures, After "32" unit loads a repeater/booster should be used.)
7. Keep cabling below 200 meters between the controller and the last driver.
8. It is generally considered good practice to provide separate DMX in and DMX out / DMX Thru connections to your fixture to aid in installation. This can be in the form of pigtails, RJ-45 connectors or 5-pin XLR connectors.
9. Use twisted pair cables with an impedance of 120Ω and a low capacitance.
10. UTP Cat5 or Cat6 network cable can also be used but have a slightly lower impedance of 100Ω.
11. If shielded cable is used, only connect shield to ground on one side (typically, the controller shouldhave its shield terminal connected to ground).
12. Not following the above recommendations may seem to work at first, but can cause problems. Sometimes after weeks of seemingly normal operation.

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