BeveLED® 2.2 Infinite Color+® - B4RW-FC1
4.5" Round Wall Wash

USAI Lighting

Field Convertible from Trimless or Millwork to Trimmed
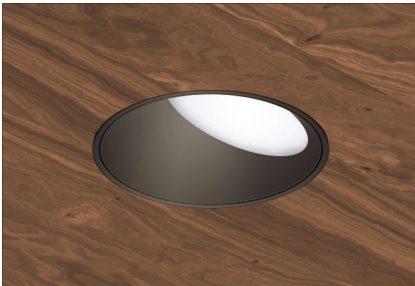
Trimmed - B4RWF-FC1

Trimless - B4RWL-FC1

Millwork - B4RWM-FC1
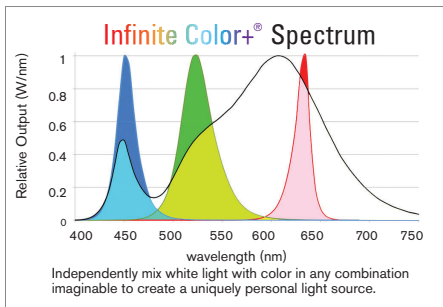
usailighting.com/infinitecolor

BeveLED 2.2 Infinite Color+ - Access to a wide variety of perfect architectural whites, saturated colors, neutrals, and pastels are possible with DMX controls. Infinite opportunities abound for residential, hospitality and retail lighting applications, and any project requiring full color and white light flexibility.

FEATURES

- Full color and white light flexibility
- Dry/damp/wet location rated for showers
- Field convertible from trimless or millwork to trimmed

DOWNLIGHT PERFORMANCE DATA

DELIVERED PERFORMANCE:	🌈 Infinite Color +	
	White Light Channel Only	Multi Channel Output
Wattage	23W	32W
Source Lumens:	1675	2100
Lumens Per Watt:	48	42
Delivered Lumens:	1075	1350

Infinite Color+® Spectrum

Relative Output (W/nm) vs wavelength (nm)

Independently mix white light with color in any combination imaginable to create a uniquely personal light source.

USAI LIGHTING COLLABORATORY
13 Crosby Street
New York, NY 10013
845-234-4090
showroom@usailighting.com

USAI LIGHTING HEADQUARTERS
1126 River Road
New Windsor, NY 12553
845–565–8500
info@usailighting.com

sixteen5hundred

HOW TO SPECIFY

BeveLED® 2.2 Infinite Color+® - B4RW-FC1
4.5" Round Wall Wash with Integral Driver

USAI®
Lighting

Specify fixture part number

B4RW__	32FC1	W1	D1				UNV			
BeveLED Trim Style	**Wattage Options**	**Beam Spread**	**Lens**	**Bevel Trim Finish Options**	***Flange/ Millwork Collar Finish**	**Housing Options**	**Universal Voltage Option**	**Dimming Driver Options**	**Cabling Options** *Select one*	**Accessories (Optional)**
F Trimmed with Flange (use with all materials)	**32FC1** 32W LED	**W1** Tilted Wall Wash Optic	**D1** Wall Wash Lens	**WH** White	**WH** White	**NC** New Construction All-in-One	**UNV** 120V-277V	**D23X1** EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 8 bit	**RJ** RJ45 Jacks	**CB27** 27" C-Channel Bars
L Trimless Spackle-in (use with sheetrock and plaster only)				**SC** Conduit Silver	**SC** Conduit Silver	**NCCP** Chicago Plenum		**D23X2** EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 16 bit	**WR** Manual Wire Splice Connection	**CB52** 52" C-Channel Bars
M Millwork Knife-Edge (use with wood and stone)				**GR** Grey	**GR** Grey	**NCIC** Insulation Contact Rated / Airtight				**EM** Emergency battery (available with NC housing only)
				BL Black	**BL** Black					
				BZ Bronze	**BZ** Bronze					
				PR Primer Finish	**PR** Primer Finish					
				AC Clear Matte Anodized	**AC** Clear Matte Anodized					
					WH White					
					GR Grey					
					BL Black					
				AB Piano Gloss Black	**AB** Piano Gloss Black					
					WH White					
					GR Grey					
					BL Black					
				RAL Custom Color Specify RAL #	**RAL** Custom Color Specify RAL #					
					*Leave blank for Trimless					

TRIM FINISH OPTIONS

White

Grey

Black

Bronze

Custom RAL (example)

Custom RAL (example)
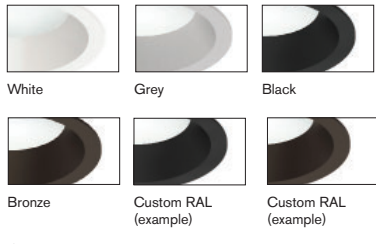
Custom colors and primer finish also available

Project 21-12877-3 Date 6/25/2021 RGB/W | Saturated Color	Catalog Number B4RAF 25 32FC1 R60 S WH WH NC UNV D23X2 RJ CB27	Type
Submitted By 16500, INC	Notes	

sixteen5hundred

HOW TO SPECIFY

BeveLED® 2.2 Infinite Color+® - B4RW-FC1
4.5" Round Wall Wash with Remote Driver

USAI®
Lighting

1. Specify fixture part number

B4RW__	32FC1	W1	D1				RM		USAI Power Supply Must Be Specified
BeveLED Trim Style	**Wattage Options**	**Beam Spread**	**Lens**	**Bevel Trim Finish Options**	***Flange/ Millwork Collar Finish**	**Housing Options**	**Remote Dimming Driver**	**Accessories (Optional)**	
F Trimmed with Flange (use with all materials)	**32FC1** 32W LED	**W1** Tilted Wall Wash Optic	**D1** Wall Wash Lens	**WH** White	**WH** White	**NC** New Construction All-in-One	**RM** Remote Dimming Driver, specify remote power supply in table below	**CB27** 27" C-Channel Bars	
L Trimless Spackle-in (use with sheetrock and plaster only)				**SC** Conduit Silver	**SC** Conduit Silver	**NCCP** Chicago Plenum		**CB52** 52" C-Channel Bars	
				GR Grey	**GR** Grey	**NCIC** Insulation Contact Rated / Airtight			
M Millwork Knife-Edge (use with wood and stone)				**BL** Black	**BL** Black				
				BZ Bronze	**BZ** Bronze				
				PR Primer Finish	**PR** Primer Finish				
				AC Clear Matte Anodized	**AC** Clear Matte Anodized				
					WH White				
					GR Grey				
					BL Black				
				AB Piano Gloss Black	**AB** Piano Gloss Black				
					WH White				
					GR Grey				
					BL Black				
				RAL Custom Color Specify RAL #	**RAL** Custom Color Specify RAL # *Leave blank for Trimless				

TRIM FINISH OPTIONS

White Grey Black

Bronze Custom RAL (example) Custom RAL (example)

Custom colors and primer finish also available

2. Specify Remote Power Supply

RPC-01	32FC1	UNV			RJ / WR	
Remote Power Supply	**Fixture Wattage**	**Voltage**	**Remote Dimming Driver Type***		**Cabling Options** *Select one*	
RPC-01 BeveLED 2.2 Infinite Color+ Remote Power Supply	**32FC1** 32W LED	**UNV** 120V - 277V	**D23X1**	EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 8 bit	**RJ** RJ45 Jacks	
			D23X2	EldoLED DMX 0.1% dimming, manual addressing using RDM protocol, 16 bit	**WR** Manual Wire Splice Connection	
			*Requires remote enclosure by others, minimum size 9 "L x 4"W x 2"H			

> NOTE:
> Remote Power Supplies Require Enclosures by Others.
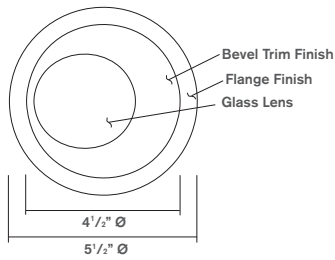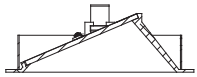> See Page 7 for Details.

BeveLED® 2.2 Infinite Color+® - B4RW-FC1
4.5" Round Wall Wash

USAI®
Lighting

Trimmed - B4RWF-FC1

TRIM DETAILS

Trimmed - B4RWF-FC1
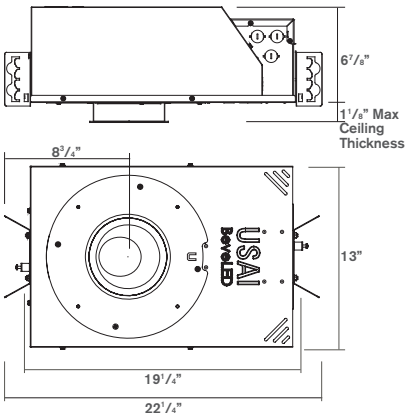

- Bevel Trim Finish
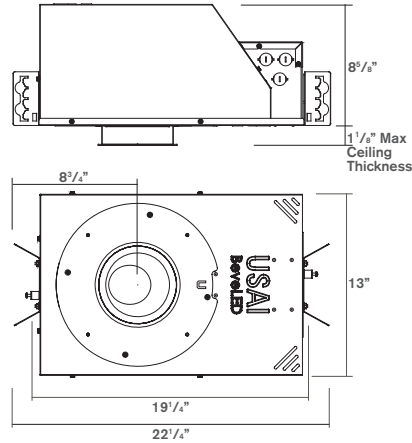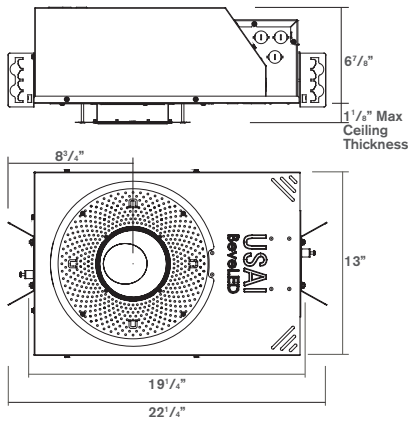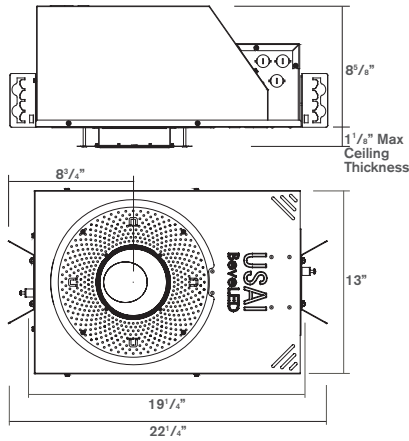- Flange Finish
- Glass Lens

4¹/₂" Ø
5¹/₂" Ø

Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS

New Construction - NC

6⁷/₈"

1¹/₈" Max Ceiling Thickness

8³/₄"

13"

19¹/₄"

22¹/₄"

Insulation-Contact Rated - NCIC
Chicago Plenum Rated - NCCP

8⁵/₈"

1¹/₈" Max Ceiling Thickness

8³/₄"

13"

19¹/₄"

22¹/₄"

Page 4

BeveLED® 2.2 Infinite Color+® - B4RW-FC1
4.5" Round Wall Wash
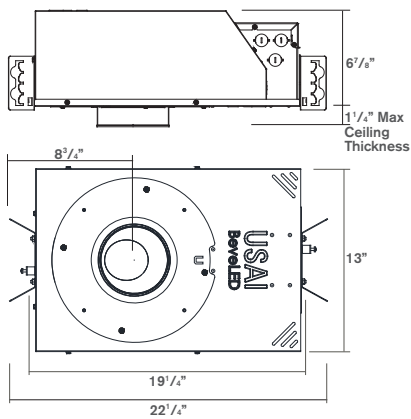
USAI® Lighting

Trimless - B4RWL-FC1

TRIM DETAILS

Trimless - B4RWL-FC1
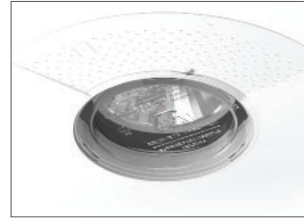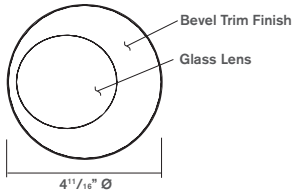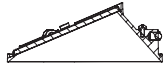
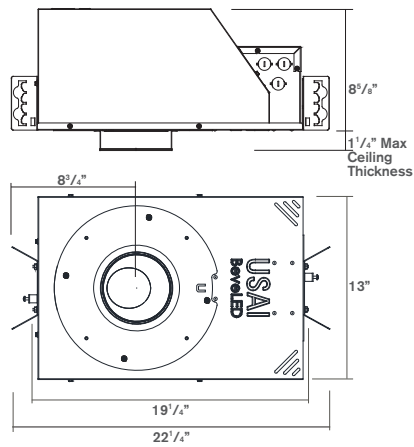

Bevel Trim Finish

Glass Lens

4¹¹/₁₆" Ø

Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS

New Construction - NC

6⁷/₈"

1¹/₈" Max Ceiling Thickness

8³/₄"

13"

19¹/₄"

22¹/₄"

Insulation-Contact Rated - NCIC
Chicago Plenum Rated - NCCP

8⁵/₈"

1¹/₈" Max Ceiling Thickness

8³/₄"

13"

19¹/₄"

22¹/₄"

BeveLED® 2.2 Infinite Color+® - B4RW-FC1
4.5" Round Wall Wash

USAI
Lighting

Millwork - B4RWM-FC1

TRIM DETAILS

Millwork - B4RWM-FC1
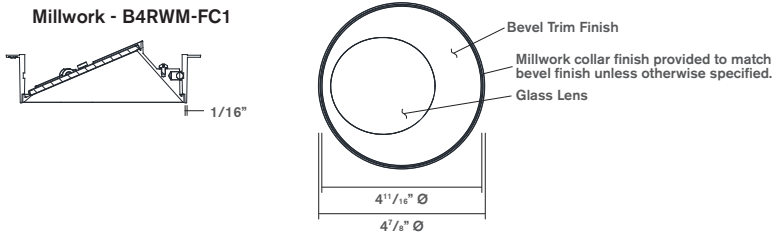
1/16"

Bevel Trim Finish

Millwork collar finish provided to match bevel finish unless otherwise specified.

Glass Lens

4¹¹/₁₆" Ø
4⁷/₈" Ø

Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS

New Construction - NC

6⁷/₈"

1¹/₄" Max Ceiling Thickness

8³/₄"

13"

19¹/₄"

22¹/₄"

Insulation-Contact Rated - NCIC
Chicago Plenum Rated - NCCP

8⁵/₈"

1¹/₄" Max Ceiling Thickness

8³/₄"

13"

19¹/₄"

22¹/₄"

Page 6

BeveLED® 2.2 Infinite Color+® - B4RW-FC1
4.5" Round Wall Wash

USAI
Lighting

BEVELED 2.2 INFINITE COLOR+ SPECIFICATIONS

FIELD REPLACEABLE LED LIGHT ENGINE
is serviceable through the aperture without tools or with a Philips screwdriver. All USAI Lighting light engines feature industry-leading color consistency.

FIELD REPLACEABLE INTEGRAL DRIVER
Solid state electronic constant current DMX512 driver with a high power factor provided standard. Works with universal voltages 120V-277V. All integral dimming drivers are located within the fixture housing and are serviceable from below the ceiling through the aperture. Driver complies with IEEE C62.41 surge protection. Specify D23X1 for 8-bit communication controls; specify D23X2 for 16-bit communication controls. All driver options require remote device management (RDM) communication protocol for addressing.

INTEGRAL EMERGENCY BATTERY
An integral emergency battery pack is available as an option with the NC housing and integral driver/power supply only. IOTA emergency battery provides backup power for 90 minutes. NC EM fixtures are provided with an integral emergency battery with remote test switch which comes with a 24" lead length for location of the test switch. EM battery is located inside NC housing and can be serviced through the aperture from below the ceiling plane. In emergency mode Infinite Color+ uses the white channel only at ~25% power.
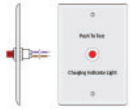
Remote Emergency Test Switch included with NC housing and integral driver only.
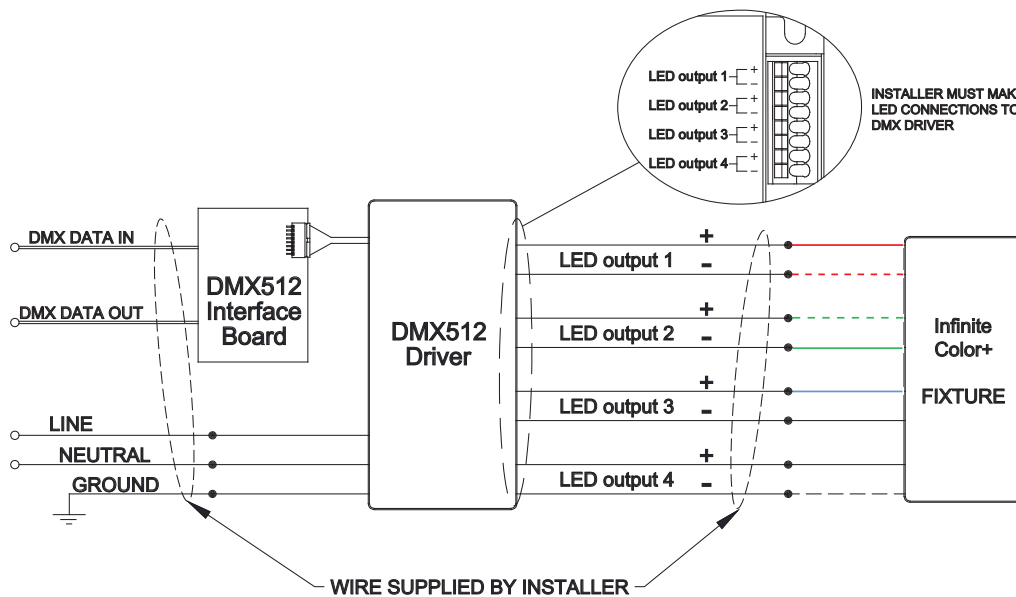
REMOTE LOCATION DRIVER
BeveLED 2.2 Infinite Color+ is available for use with remotely located driver. Driver is provided separately for remote location on site, enclosure to be provided by others. Remote dimming driver power supply option must be clearly specified in the "RP" table. below Remote power supplies require enclosures by others that meet local codes and must be located in an accessible service panel within 100ft of the light fixture; see remote driver table below for coordination of enclosure sizes and wire gauges required. All dimming drivers comply with IEEE C62.41 surge protection.

Remote Power Supply Requirements and Wiring Diagrams Note: Must be wired in homeruns per wiring diagram below.

1 Fixture Maximum Per Power Supply.

Remote Power Supply Dimming Option		Wire Gauge Required*	Minimum Enclosure Size Required (by others)
RPC-01-32FC1	**UNV-D23X1** EldoLED, 8 bit, DMX, 0.1% **UNV-D23X2** EldoLED, 16 bit DMX, 0.1%	18/16	9" W x 4" L x 2" H

* Wire gauge 18/16 = Maximum distance from light fixture to remote power supply is 100' using 16 gauge wire, 50' using 18 gauge wire.

BeveLED® 2.2 Infinite Color+® - B4RW-FC1
# 4.5" Round Wall Wash

USAI Lighting

CABLING: Data cables must be run in series between fixtures. Choose your preferred method of connection when specifying. To avoid signal transmission problems, the DMX link terminator dip switch should be used in the last fixture in a series on a given DMX bus. NOTE: Data communication cables and AC power lines must not be run in the same conduit.

• RJ Cabling Option: If the RJ cabling option is specified, the remote power supply is provided with a DMX interface board that has RJ45 jacks for data connection with CAT5 cable terminated with RJ45 connectors. A link termination dip switch is provided at the connector board; no separate link termination device is required.

• WR Cabling Option: If the WR cabling option is specified, the remote power supply is provided with a DMX interface board with terminal blocks for wires to be manually spliced for data connection. A link termination dip switch is provided at the connector board; no separate link termination device is required. The data cable used must meet the following requirements:
  • type: shielded, 2-conductor twisted pair
  • maximum capacitance between conductors: 30 pF/ft
  • maximum capacitance between conductor and shield: 55 pF/ft
  • maximum resistance: 0.02 ohms/ft
  • normal impedance: 100-140 ohms
  • conductive core: 24 AWG is recommended
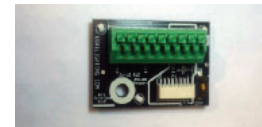
If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances.

HOUSING
All BeveLED 2.2 fixtures are field-flexible which allows for field changes from trimless or millwork to trimmed with a simple components change with parts from USAI. Integral driver housings are fabricated of 20 ga. steel construction with thru wire J-box, 4 in 4 out at min. 90°C, #12 AWG thru branch circuit wiring. Remote driver housings are supplied with quick connects and wire connections for use with remotely located driver.

MOUNTING
B4RWF overlap flange fixtures are designed for use in sheetrock, acoustical ceiling tile, and many other ceiling materials. B4RWL trimless fixtures are provided with a spackle collar and are designed for use in sheetrock/mud-in ceiling applications. B4RWM millwork fixtures are provided with a millwork collar and are designed for use in wood/millwork and stone construction applications. Butterfly brackets and adjustable nailer bars extendible from 14" to 24" centers with integral nails are provided for attachment to building structure. C-channel bars are optionally available for acoustical ceiling applications.

FIXTURE WEIGHT
NC, NCIC, and NCCP housings weigh 16 lbs. NC housing with EM weighs 24.5 lbs.

WARRANTY
Based on IESNA LM80-2008, BeveLED has a 50,000 hour rated life at 70% lumen maintenance (L70). USAI Lighting Warranty covers replacement parts for 5 years from date of shipment. Ambient temperatures at fixture location should not exceed 40°C during normal operation.

CEILING CUT OUT
B4RWF Trimmed with Overlap Flange: 5-1/16" ∅
B4RWL Trimless Spackle-in: 5-1/2" ∅
B4RWM Millwork Knife-edge: 4-15/16" ∅

LISTINGS
Dry/Damp/Wet location. AC and AB trim finishes are dry/damp only. UL2043 rated for use in air handling plenums. NRTL/CSA-US tested to UL standards. IBEW union made.

NOTES
• Not for use in corrosive environment
• Use of pressure washer voids warranty

PHOTOMETRICS
Consult factory or website for IES files. Tested in accordance with IESNA LM79.

USAI® Lighting Infinite Color+®

IMPORTANT SAFETY INSTRUCTIONS

<u>**SAVE THESE INSTRUCTIONS**</u>

1. Keep these instructions in a safe place for future reference.
2. Only qualified electricians in accordance to local codes should install these fixtures.
3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.

DIMMING DRIVER COMPATIBILITY SELECTION GUIDE
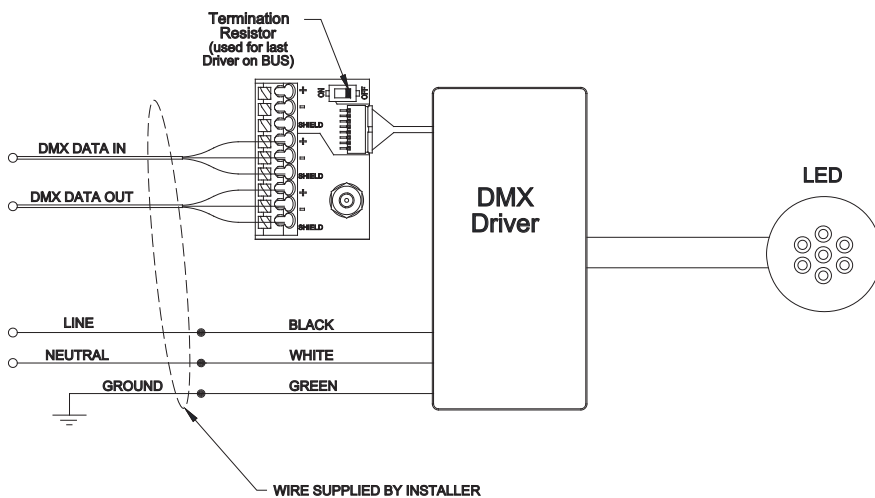# D23X1 AND D23X2

<u>**D23X1**</u>: EldoLED DMX dimming with manual addressing, 8-bit (Dims down to 0%)
<u>**D23X2**</u>: EldoLED DMX dimming with manual addressing, 16-bit (Dims down to 0%)

RJ CABLE OPTION
RJ45 JACKS
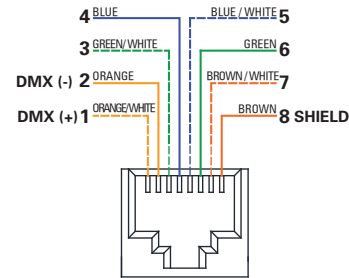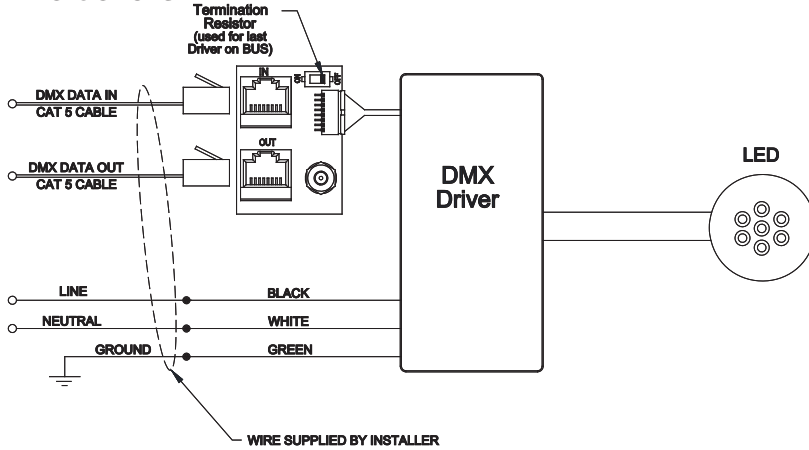
WR CABLE OPTION
wire splice connection

• **WR Cabling Option:** cables must be spliced inside the junction box for connection. The data cable used must meet the following requirements:
- type: shielded, 2-conductor twisted pair
- maximum capacitance between conductors: 30 pF/ft
- maximum capacitance between conductor and shield: 55 pF/ft
- maximum resistance: 0.02 ohms/ft
- normal impedance: 100-140 ohms
- conductive core: 24 AWG is recommended

If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances.

USAI® Lighting

www.usailighting.com
info@usailighting.com

1126 River Road
New Windsor, NY 12553

T 845–565–8500
F 845–561–1130

©2018. USAI, LLC.
All rights reserved.
All designs protected by copyright.
I2-264-23

USAI® Lighting Infinite Color+®

DIMMING DRIVER COMPATIBILITY SELECTION GUIDE
D23X1 AND D23X2

### IMPORTANT SAFETY INSTRUCTIONS
SAVE THESE INSTRUCTIONS
1. Keep these instructions in a safe place for future reference.
2. Only qualified electricians in accordance to local codes should install these fixtures.
3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
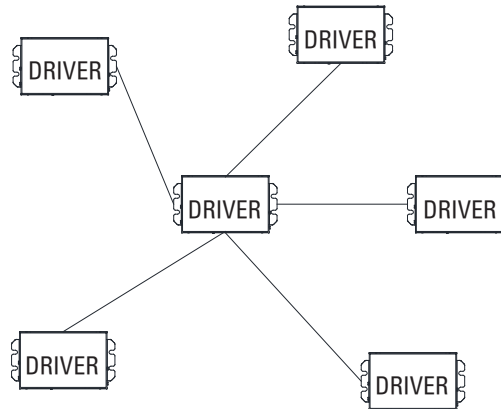
DMX MUST BE DAISY CHAINED IN SINGLE LINE

CORRECT !
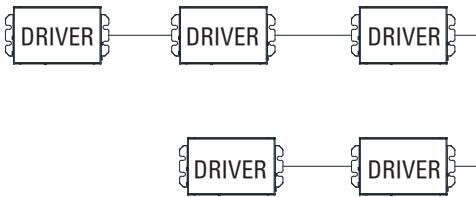
INCORRECT !

NOTES:
1. DMX signal cable must NOT be run in same conduit as high voltage AC power lines.
2. Fixtures must be daisy chained in one serial line using Data in and Data out
3. Maximum of 32 DMX devices on single DMX bus
4. Maximum of 1600' serial communication link distance
5. To avoid signal loss, DMX signal terminator should be used on last Fixture in line. This is provided through a dip-switch on the DMX512 interface board.