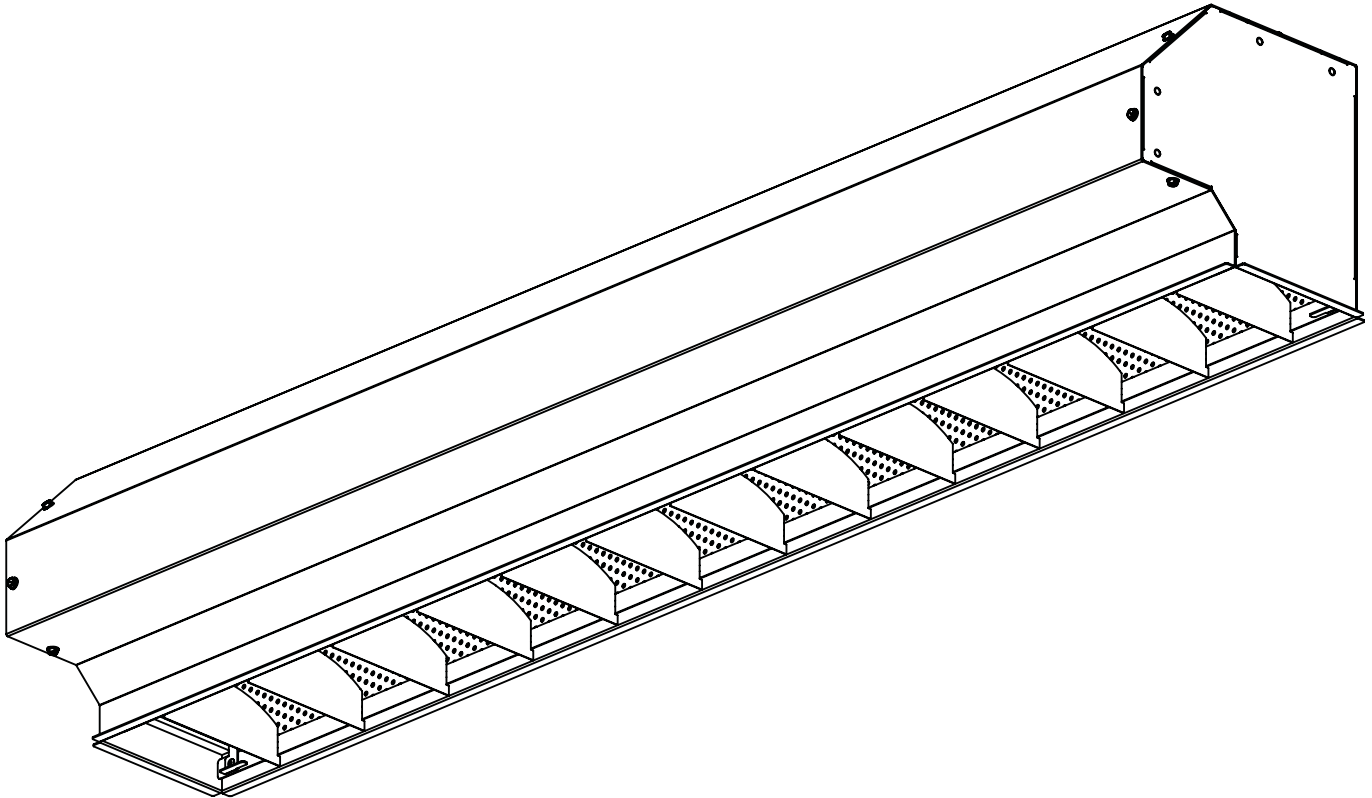




brightline®

VideoPlus

Installation and Operating Instructions



Safety

- Fixture installation should be performed in accordance with local and national codes. All fixtures must be properly grounded.
- To prevent fire or electric shock, do not expose the fixtures to water or moisture. VideoPlus fixtures are Listed for indoor use only.
- Do not attempt to dim a non-dim fixture. Do not attempt to operate without lamps installed, as this could damage the ballast.
- Do not attempt to change the lamps on a fixture that is energized, or to work with your hands near an exposed socket that is energized.
- A qualified technician should perform service on fixtures. Do not remove the ballast cover until the unit has been de-energized.
- In case of lamp failure: Turn fixture off, wait 30 sec. for the ballast to reset, install the new lamp(s).

Owner's Record

- The serial number of this product can be found in the top of the fixture. You should note the model number and the serial number in the space provided and retain this book for future reference as a permanent record of your purchase.

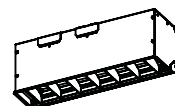
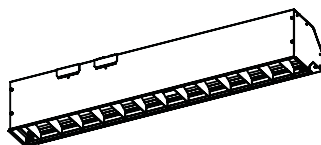
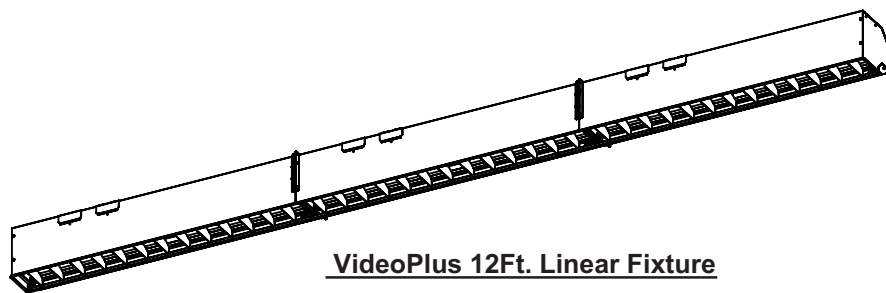
Model No. _____

Serial No. _____

Date of Purchase _____

Product Description

The Brightline VideoPlus models are single or multi-cell 55-watt, energy-efficient, videoconferencing fixtures that mount in place of a ceiling tile in a T-bar suspended ceiling grid. These fixtures combine high-frequency electronics with a state-of-the-art optical system to produce a soft, full-spectrum, flicker-free light source.



Specifications

Housing

20-gauge (.0359") formed, cold-rolled steel sheet-metal construction

Reflector

24-gauge (.020") WhiteOptics Aluminum 96% specular reflectance

Ballast

Power factor = >.97 Class "A" sound rating and THD: <10%.

Non-Dim

120VAC/ 60 Hz, 230 VAC/50-60 Hz and 277 VAC/60 Hz

Dim

Phase-Control: 120VAC/ 60 Hz, 230 VAC/50-60 Hz and 277 VAC/60 Hz

Digital: 120VAC/ 60 Hz, 230 VAC/50-60 Hz and 277 VAC/60 Hz

DMX interface available for all voltages.

Please contact factory for exact ballast specification and custom configurations.

Lamp

3000 K - 82 CRI, 10,000 hours

3000 K - 96 CRI, 10,000 hours

3500 K - 82 CRI, 10,000 hours

4100 K - 82 CRI, 10,000 hours

Studioline

3200 K - 85 CRI, 8,000 Hours

5600 K - 85 CRI, 8,000 Hours

Lamp Socket

2G11 4-pin. Molded white high-strength thermoplastic. Push wire connections for 18-gauge leads.

Finish

Low-glare, polyester powder coat

Optional Accessories

Curved-bottom louver, continuous-run end cap & brackets

Labels

UL, cUL and CE Pending

Installation

1. Unpack the fixtures. The louver(s) and lamps may be packed with the fixtures or separately. To prevent damage, do not attempt to install fixtures with the lamps and louver(s) in place.
2. Prepare the line voltage wiring to the fixtures. You may want to partially install the power wiring before the fixture is placed in the T-track, if access is difficult. Ensure that the supply voltage matches that required by the ballasts. To install the power feed, loosen the screw holding the power entry plate and remove the plate (Figure 1). Remove the knockouts as needed and install the correct type of power cabling and strain relief (not provided). Connect the wires from the feed using wire-nuts, observing the wire color coding, and re-install the knockout plate. Brightline fixtures intended for the North American market use black/white/green wires respectively for line/neutral/ground; fixtures shipped to other locations use brown/blue/green-yellow for line/neutral/ground. In most cases, it is useful to install sufficient slack in the power cable so that the fixture may be moved to an adjacent tile opening without having to extend the wiring.

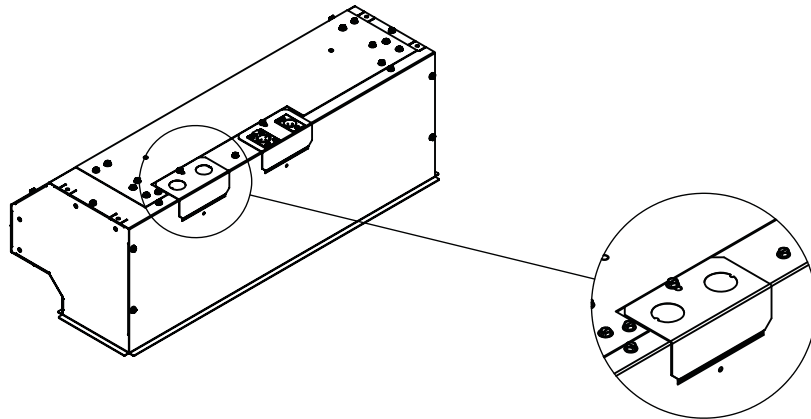


Figure 1

3. If the fixture requires digital control, the fixture will have locking XLR-type plugs for the control cables. Install the control wiring above the T-track grid. Male and female plugs are installed into receptacles (Figure 2) on each fixture; as they are wired in parallel, the control wiring can be daisy-chained. See the Control Wiring section.

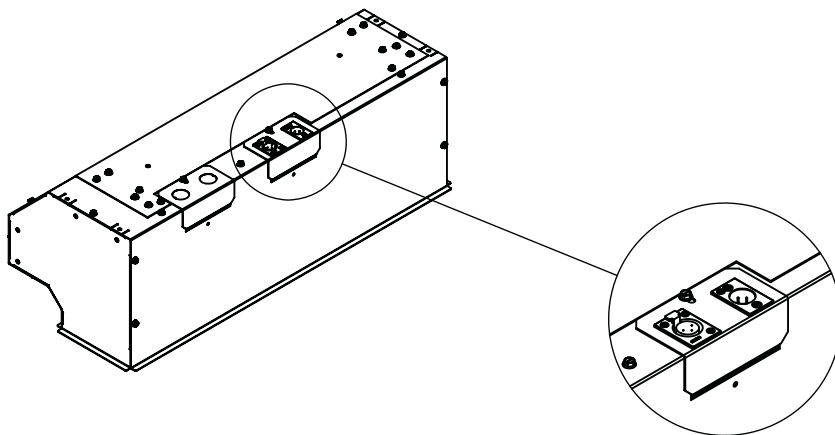


Figure 2

Installation

1. Prepare the T-track to receive the fixtures. VideoPlus fixtures are either a nominal 6-in x 2-ft (150-mm x 600-mm) or 6-in x 4-ft (150-mm x 1200-mm) size. It may be necessary to add additional track sections and or prepare differently sized ceiling tiles. For ease of installation, a minimum of 8-in (200-mm) of clearance height above the track is recommended. Make sure that the T-track is sufficiently braced to accept the weight of the fixtures; these units are heavier than typical fixtures. Note the overhang on Videoplus (Figure 3).

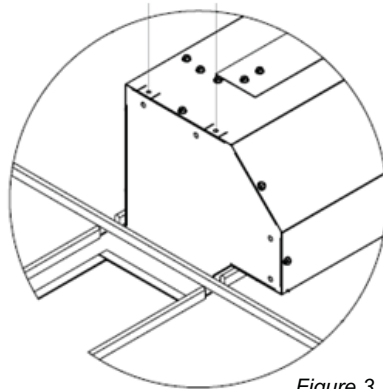


Figure 3

2. Place the fixtures into the correct openings in the ceiling grid in accordance with plans provided by Brightline or the local architect or engineer. Brightline fixtures are not Insulated Ceiling (IC) rated. Maintain the proper distance from insulation.

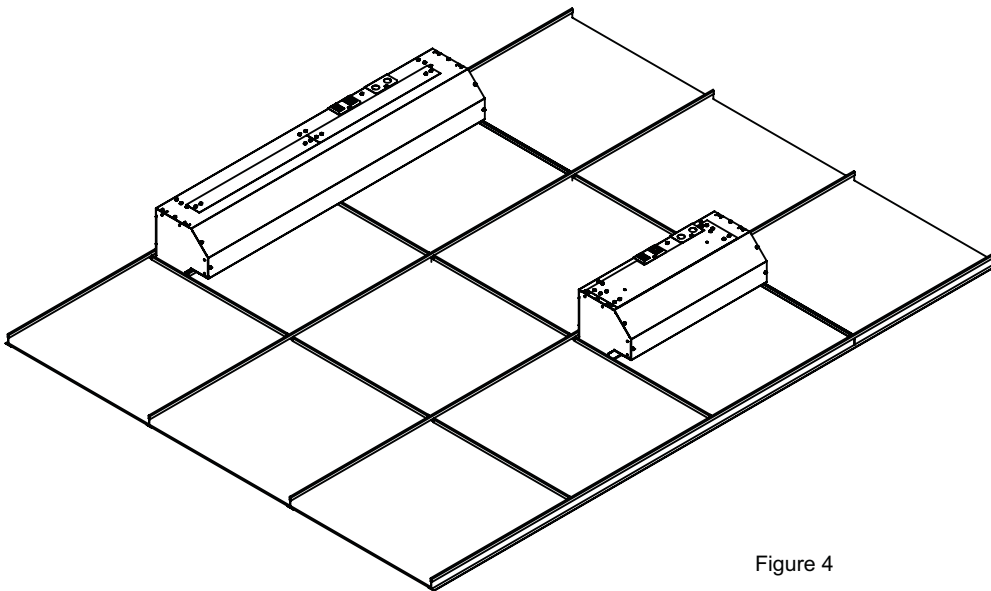


Figure 4

3. Install “safety wires” to the tabs on the top of the fixtures and attach to the building structure, in compliance with local codes (Figure 3 & 5). DO NOT rely on the T-track alone to hold the weight of the fixture.

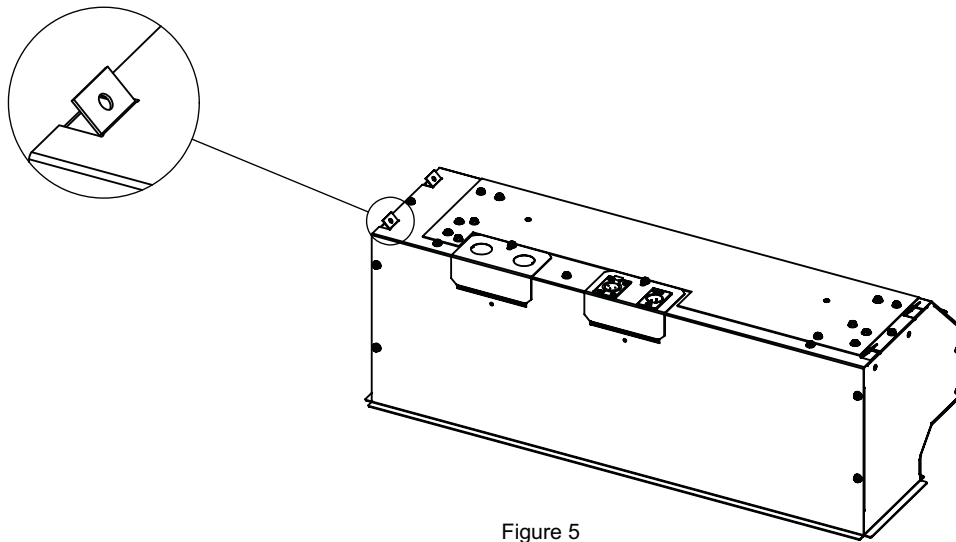
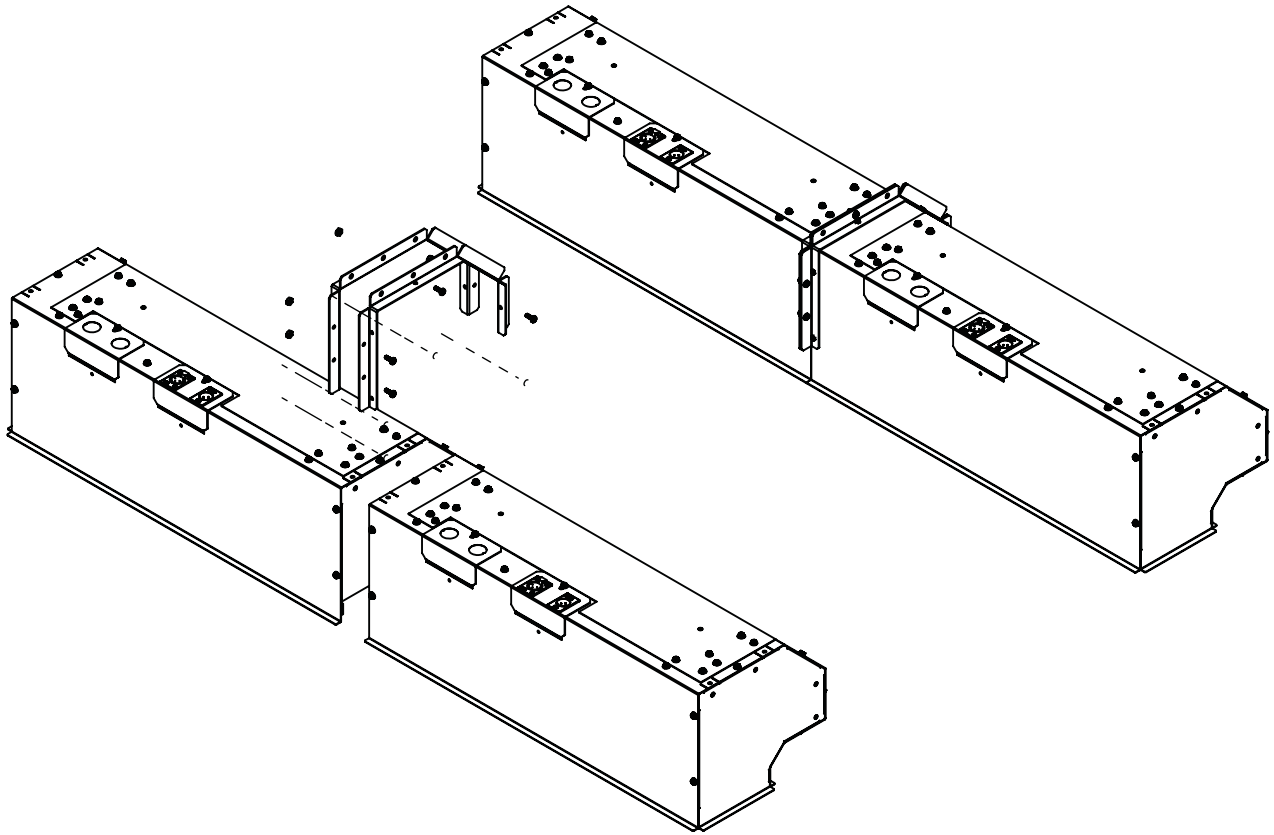


Figure 5

1. Complete the installation of the power (and control, if required) wiring. See Riser Diagram section.
2. With the power off, install the lamps (Figure 4). Make sure they are firmly seated in their sockets. Note: The sockets' locking tabs will snap into the indentations on the base of the lamp.
3. Install the flat louver by sliding the louver vertically into the opening of the fixture. When the hooks are aligned with slots on the inside tabs, rotate the hook tabs and lock the louver into place.

Installation

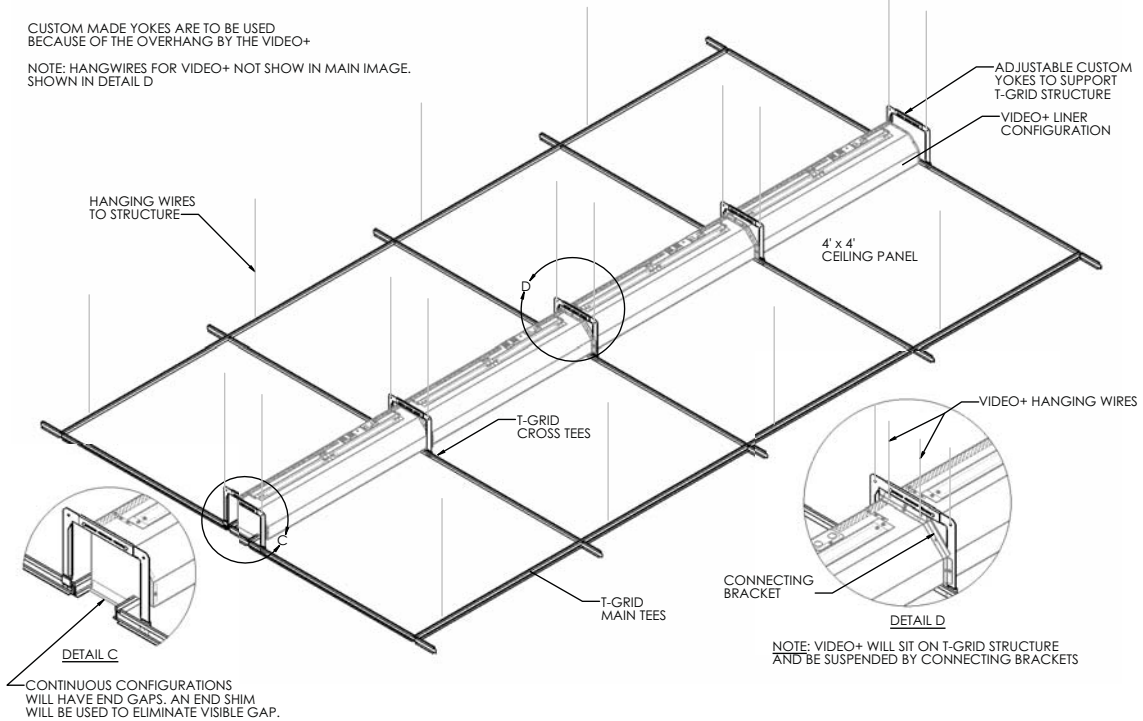
1. Installing continuous run Fixtures



For continuous runs, a Video-Plus Yoke Assembly must be used every 4 feet (minimum).

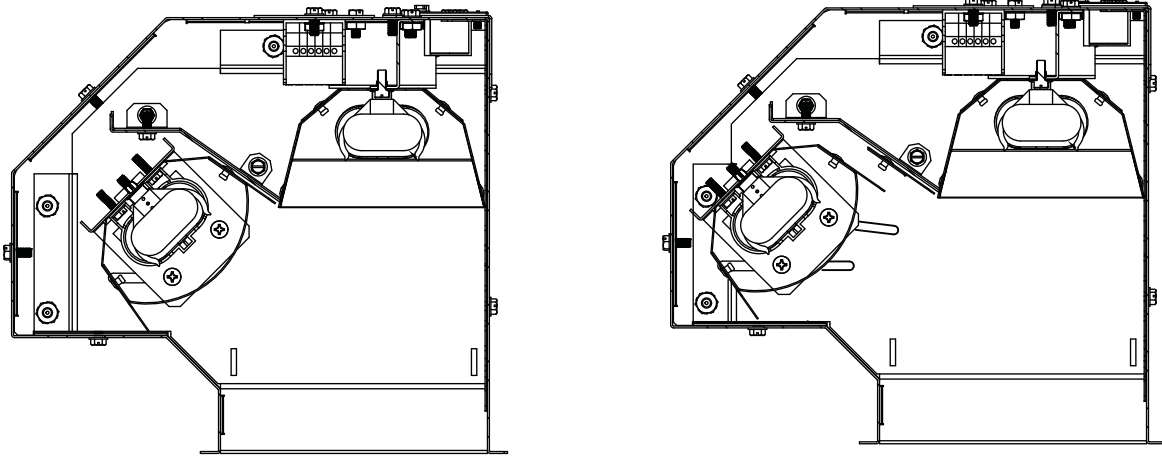
CUSTOM MADE YOKES ARE TO BE USED BECAUSE OF THE OVERHANG BY THE VIDEO+

NOTE: HANGWIRES FOR VIDEO+ NOT SHOW IN MAIN IMAGE. SHOWN IN DETAIL D



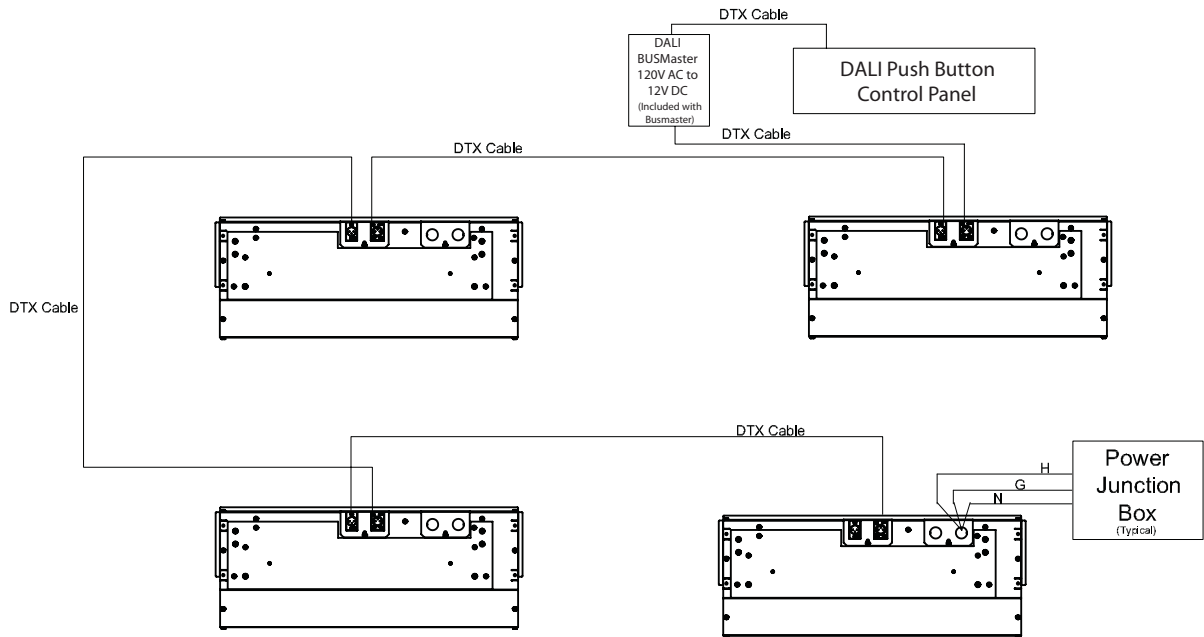
Section View

1. Videoconference light angles



Use the sliding tab at the edge of the sliding bracket to position the videoconferencing light at the desired angle of $50^{\circ} \pm 5^{\circ}$. Once the desired angle is achieved, tightened the screws on the sliding bracket.

Digital Dimmed (DALI with Wall Controller) Riser Diagram

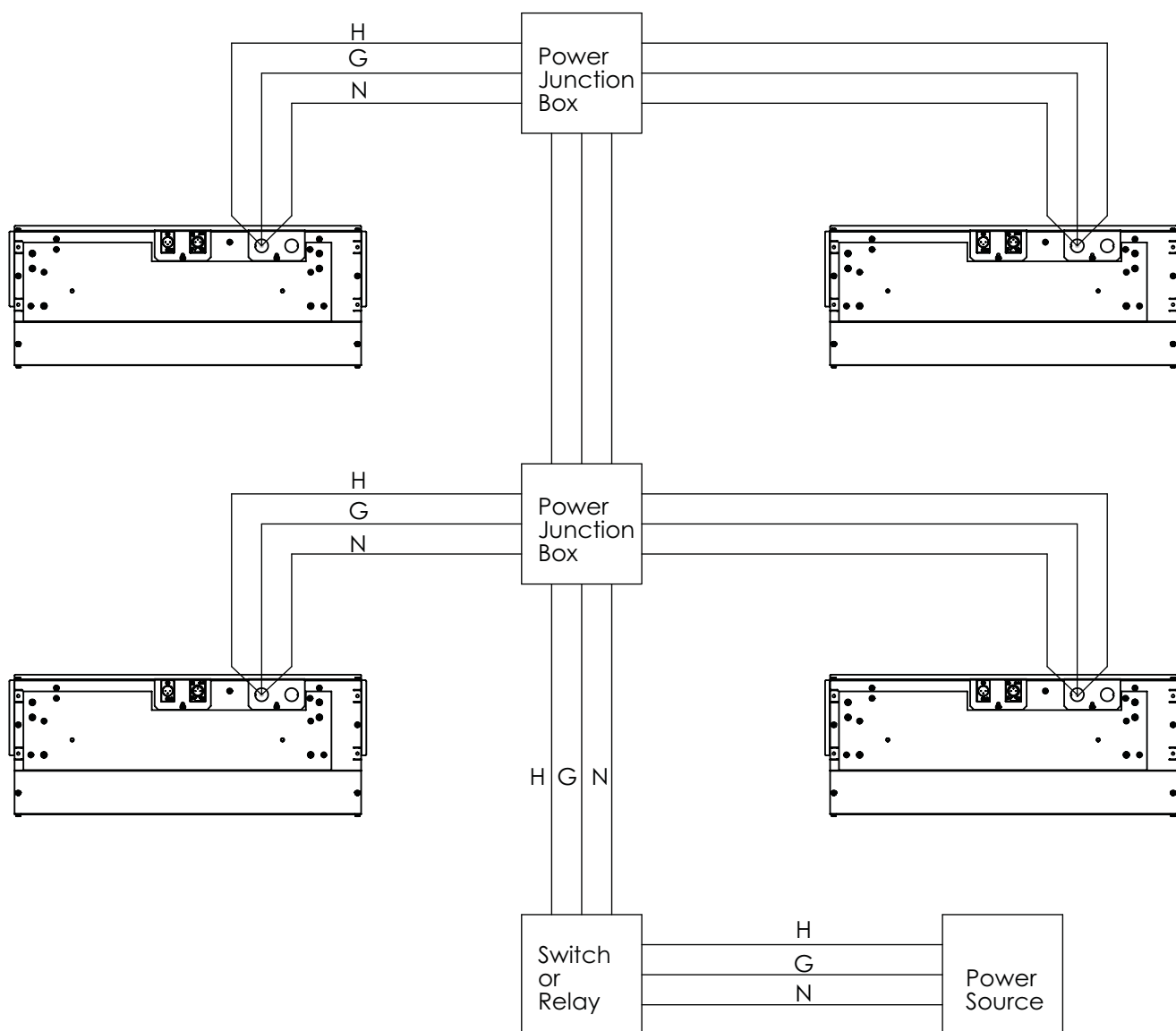


Note:
Power wiring for one
fixture shown for clarity

DALI Dimmed

- A DALI (Digital Addressable Low-voltage Interface) signal controls these fixtures. The fixtures will function (but not dim) in the absence of a control signal.
- The control signal is connected to the fixture through the XLR-type plug on the top of the unit. As this is low voltage wiring, it may not be necessary to install the control wiring in conduit, subject to the requirements of local code. If they were specified, the DALI control cables may be provided as part of your order. Two receptacles are typically provided to allow the control wiring to be daisy-chained.
- As each ballast is assigned an individual address, fixtures on a DALI control line may be dimmed to different intensities.
- The installation of DALI control wiring must comply with a specific set of rules. See the literature that is provided with your DALI controller, or contact **Brightline** for details.
- H = Constant Hot, N = Neutral, G = Ground.

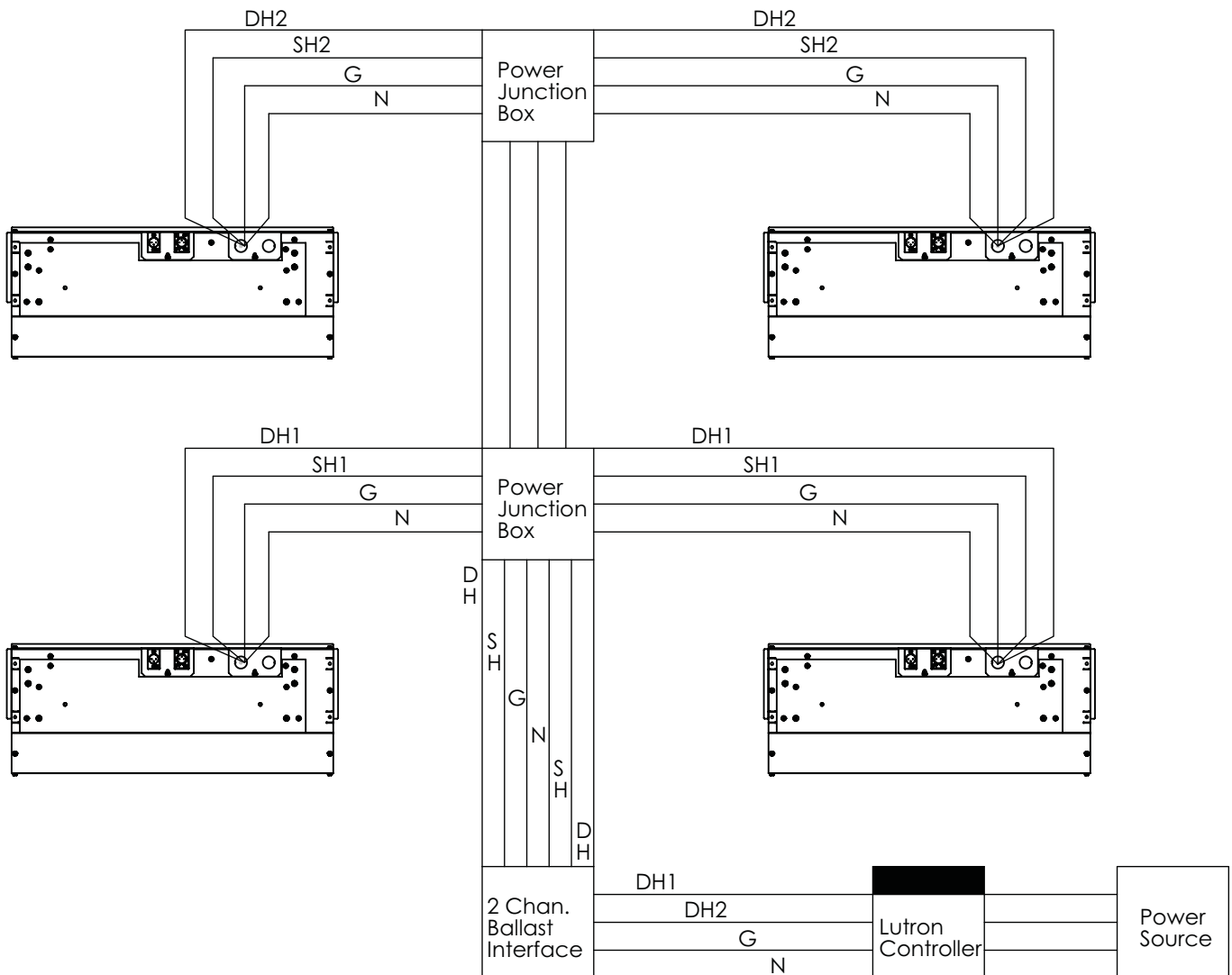
Non-Dim (Switched) Riser Diagram



Non-Dim (Switched)

- The fixture may be controlled by a local on/off switch, or by a relay panel.
- The fixture is wired to a source of power (Hot/Neutral/Ground) wiring only.
- H = Hot Constant, N = Neutral, G = Ground

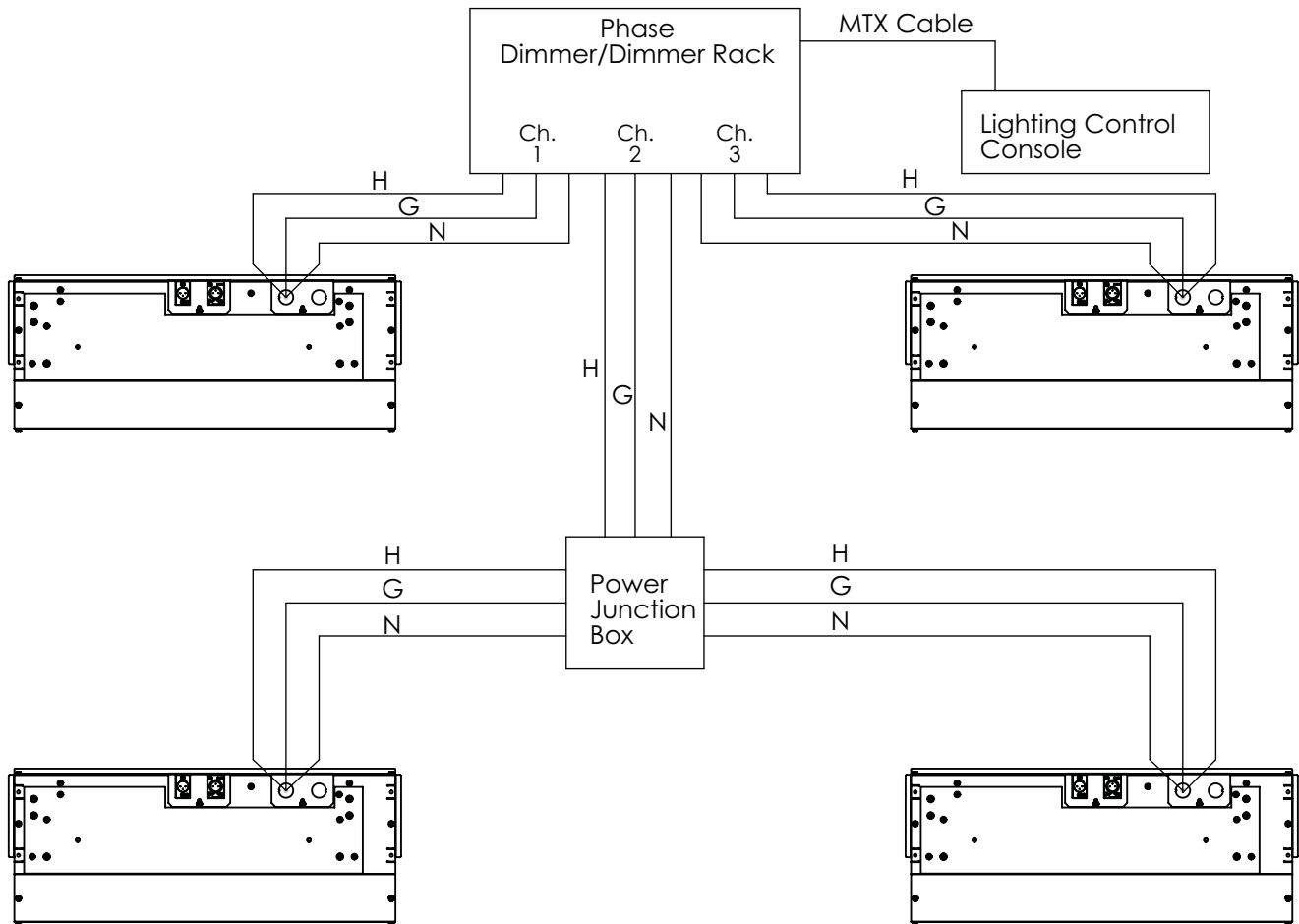
Phase-Control Dimmed Lutron (Three-wire) Riser Diagram



Phase-Control Dimmed Lutron (three-wire)

- These units will typically have Lutron or EcoSystem ballasts. They are designed to be controlled by fluorescent controllers that provide a dimmed "hot" wire and a switched "hot" wire, in addition to neutral and ground
- At the ballast, the switched feed wire is black in color and the dimmed feed wire is orange. Brightline recommends maintaining a consistent wire color-coding scheme from the controller to the fixture.
- Choose controllers that are intended for the type of ballast.
- DH = Dimmed hot, SH = Switched Hot, H = Constant Hot, N = Neutral, G = Ground

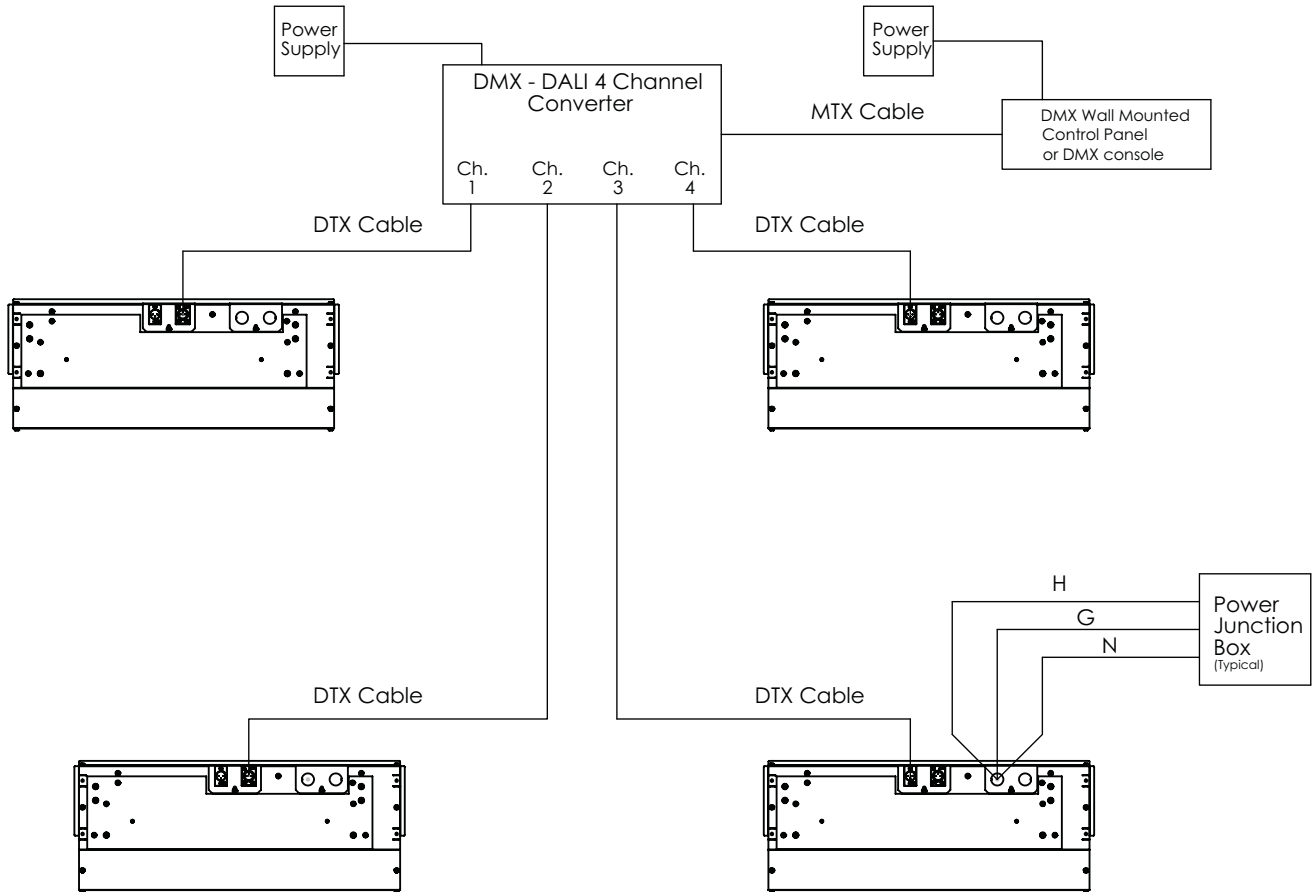
Phase-Control (Two-wire) Riser Diagram



Phase-Control Dimmed (two-wire)

- Connect your fixtures to the output of Forward Phase-Fired dimmers. Most dimmers are of this type: “SCR” and “SSR” dimmers work in this way, as do most architectural dimmers. The use of Reverse Phase-Fired dimmers is not recommended. If it is possible to set the type of load the dimmer will control, configure it as a two-wire fluorescent type; or choose one intended for a two-wire fluorescent ballast.
- H = Constant Hot, N = Neutral, G = Ground

Digital Dimmed (DMX Controlled) Riser Diagram



DMX Dimmed

- A DALI signal controls these fixtures. The fixtures will function (but not dim) in the absence of a control signal.
- A DMX to DALI converter may have been provided by Brightline as part of your order. The Converter is wired to a source of DMX and provides four DALI outputs with XLR receptacles. The fixtures cannot be directly controlled by DMX. See the instruction manual provided with the DMX to DALI converter.
- The control signal is connected to the fixture through the XLR-type plug on the top of the unit. As this is low voltage wiring, it may not be necessary to install the control wiring in conduit, subject to the requirements of local code. If they were specified, the DALI control cables may be provided as part of your order. Two receptacles are typically provided to allow the control wiring to be daisy-chained.
- All the fixtures wired on a DALI control line will dim to the same intensity.
- H = Constant Hot, N = Neutral, G = Ground

Trouble Shooting Guide

Problem	Possible Cause	Solution
Lights go to full but do not dim to minimum.	<ol style="list-style-type: none"> 1. Ballasts are not properly grounded. 2. Lamps are too old. 	<ol style="list-style-type: none"> 1. Check to see that the fixture is properly grounded. 2. Relamp the entire fixture.
Lights flicker or drop out at low end.	Defective or damaged lamps.	Test with lamps from a known good fixture; replace bad lamps as required.
Lights are flashing or strobing.	Wrong voltage for the ballast installed.	Verify that the supply voltage is correct for the ballast installed.
Lamps are not at the same light level.	Mixture of lamp ages or color temperatures.	Check that all the lamps are of the same type and age.
Ballast buzzes or hums.	Defective ballast.	Identify the location of the buzz and replace the ballast if necessary.

Maintenance

- The fluorescent lamps provided with the fixtures are rated for up to 8,000 hours. However, as with all lamps, there will be some drop-off in intensity as they approach their rated life. A conservative user may want to re-lamp at 75-80% of the rated life. We recommend that as the lamp intensity begins drop off, or when the life expectancy is reached, all room lamps are replaced as a group.
- The lamps provided with your Brightline fixture have been selected to provide the correct operating parameters for your video system. All lamps should be replaced with ones having an identical model number and manufacturer. It may be necessary to perform a new white-balance on your camera(s) after re-lamping. Call your **Brightline** dealer or representative if you need assistance in purchasing replacement lamps.
- For optimal performance, season lamps for 12 hours prior to dimming.
Note: Approximate initial Lumens after 100 hours of operation.
- Dispose of used fluorescent lamps in conformance with local regulations.
- For optimal fixture performance, it is necessary to keep the lamps and reflectors clean. Use a dry, non-abrasive cloth to remove dust. Avoid the use of materials that might scratch the reflector.



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WARRANTY

Brightline guarantees all its products to be free from defects in materials and workmanship for a period of one (1) year from the date of shipment.

PROCEDURES

If any product is found to be unsatisfactory under this warranty, the buyer must notify **Brightline** immediately. Once a course of action has been determined, if it is necessary to return the product to **Brightline** a Return Authorization (RA) will be issued. Ship the product directly to **Brightline**, 580 Mayer Street, Building #7, Bridgeville, PA 15017, USA. The RA number should be marked on the shipping carton. The unit will be replaced or put into proper operating condition, free of all charges if under warranty. The correction of any defects through repair or replacement by **Brightline** shall constitute fulfillment of all obligations and liability of **Brightline** to the buyer under this warranty and the contract of sale.

DISCLAIMERS

Brightline is not responsible for damage to its products caused by improper installation, maintenance, or use; by improper electrical hookups; or by unauthorized repairs.

Failure to notify **Brightline** of unsatisfactory operation or any improper or unauthorized installation, maintenance, use, repairs, or adjustments shall terminate the warranty and **Brightline** shall have no further responsibility under the warranty.

Brightline shall not be liable for special or consequential damages in any claim, action, suit, or proceeding arising under this warranty or contract of sale, nor shall **Brightline** be liable for claims for labor, loss of profits or goodwill, repairs, or other expenses incidental to replacement. **Brightline** makes no other warranty of any kind whatsoever, expressed or implied, and all implied warranties of merchantability and fitness for a particular purpose that exceed the obligation specifically described in this warranty are hereby disclaimed by **Brightline** and excluded from this agreement.

All shipments, unless otherwise noted, are F.O.B. factory.

The customer is advised to inspect for shipping damage, apparent and/or hidden. If detected, notify the transportation company and file your claim.

580 Mayer Street, Building #7, Bridgeville, PA 15017 • phone 1.412.206.0106 • fax 1.412.206.0146

www.brightlines.com

Notes