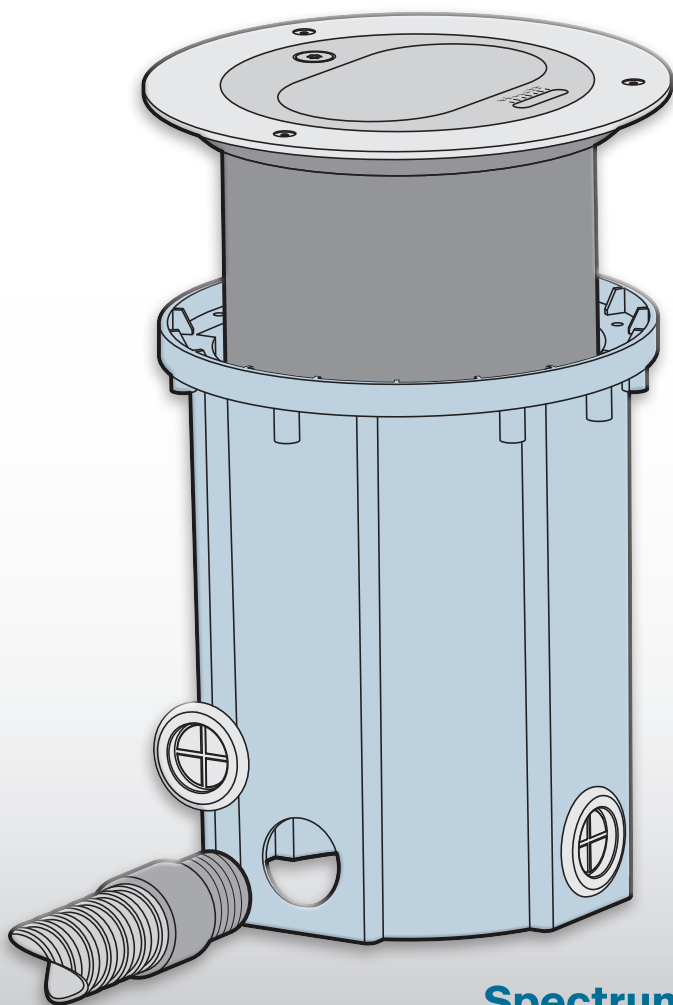




Acclaim™



SpectrumFour 
technology

Terra Drum™

User guide

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Introduction

Welcome

Welcome to the Terra Drum™ range from Acclaim Lighting. These rugged, drive-over ready fixtures are designed for all-weather in-ground applications. Available in three sizes, these IP68-rated fixtures are particularly suited to recessed façade and tree lighting applications. The wide range of emitter and optic options amount to an impressive ninety combinations to ensure a precise fit with your installation. Additionally, our Terra-Tilt adjuster allows you to fine tune the beam position once each fixture is in place, without compromising the environmental protection (not fitted on direct view frosted models).

Using unified power and DMX control links, Terra Drum fixtures can be rapidly daisy-chained in long runs. Control is achieved using the industry standard DMX-512A format, with RDM for configuration. DALI and 0-10V control inputs can also be used when optional converters are employed.

Safety

- Terra Drum fixtures should not be recessed into ceilings for use as downlighters without the express written consent of Acclaim Lighting.
- Ensure that the power input is supplied from an environmentally protected location, is correctly fused and has a **valid protective earth that is tied to true earth**.

Maintenance

CAUTION: Always isolate mains power before starting maintenance operations.

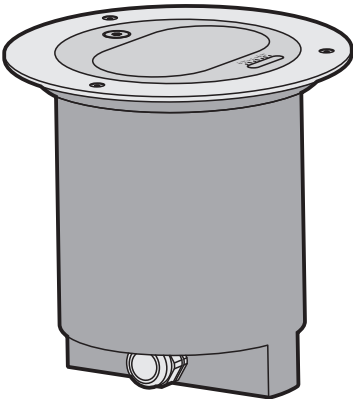
- Ensure that all mounting (and device) screws/bolts are fully tight and free of corrosion.
- Ensure there is no deformation to the housing, lenses or fixing points.
- Check that all power supply cables are free from physical damage or material fatigue.
- Use only genuine spare parts supplied by Acclaim Lighting.

Cleaning

- Use a moist, lint-free cloth along with warm water when cleaning each fixture.
- Never use alcohol or solvents.

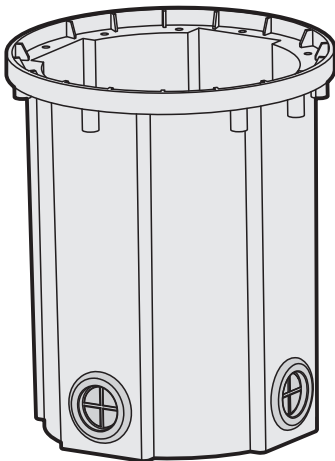
Supplied items

For dimensions of all items, please see page 27.



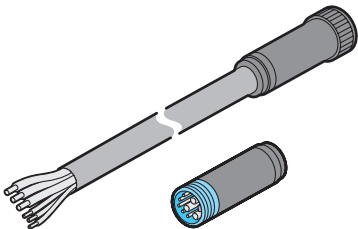
Terra Drum HO, SO or EO

Required accessories



In-ground sleeve plus removable pour cover

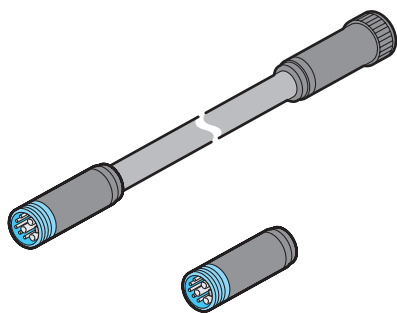
| | |
|----|----------|
| HO | [TDAIGS] |
| SO | [TDBIGS] |
| EO | [TDCIGS] |



Feed cables
(incl terminator end cap)
10' (3m) [TLAFC10]
50' (15m) [TLAFC50]

continued

Optional accessories

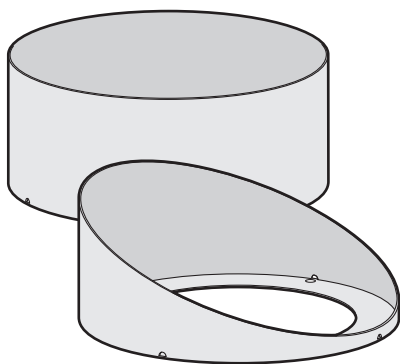


Link cables

| | |
|-----------|-----------|
| 1' (30cm) | [TLALC1] |
| 5' (1.5m) | [TLALC5] |
| 10' (3m) | [TLALC10] |

Terminator (end cap)

[TLATEC]

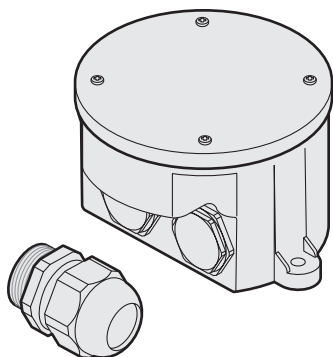


Full snoots

| | HO | SO | EO |
|---------|----------|----------|----------|
| Black | [TDAFSB] | [TDBFSB] | [TDCFSB] |
| White | [TDAFSW] | [TDBFSW] | [TDCFSW] |
| Gray | [TDAFSG] | [TDBFSG] | [TDCFSG] |
| Custom* | [TDAFSC] | [TDBFSC] | [TDCFSC] |

Half snoots

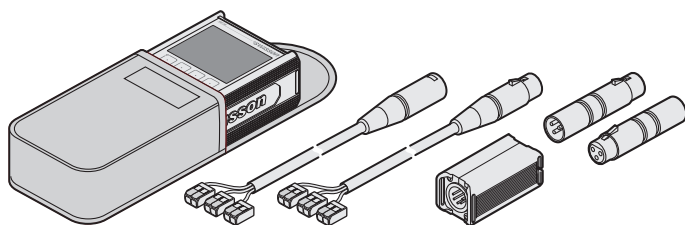
| | HO | SO | EO |
|---------|----------|----------|----------|
| Black | [TDAHSB] | [TDBHSB] | [TDCHSB] |
| White | [TDAHSW] | [TDBHSW] | [TDCHSW] |
| Gray | [TDAHSG] | [TDBHSG] | [TDCHSG] |
| Custom* | [TDAHSC] | [TDBHSC] | [TDCHSC] |



IP66 junction box

(incl. outlet cable gland)

[AJBOX1]



DMX/RDM/ Art-Net/sACN tool

(incl cable
dongle, 3/5-pin
converters,
bare cable
connectors and
pouch
[XMT500])

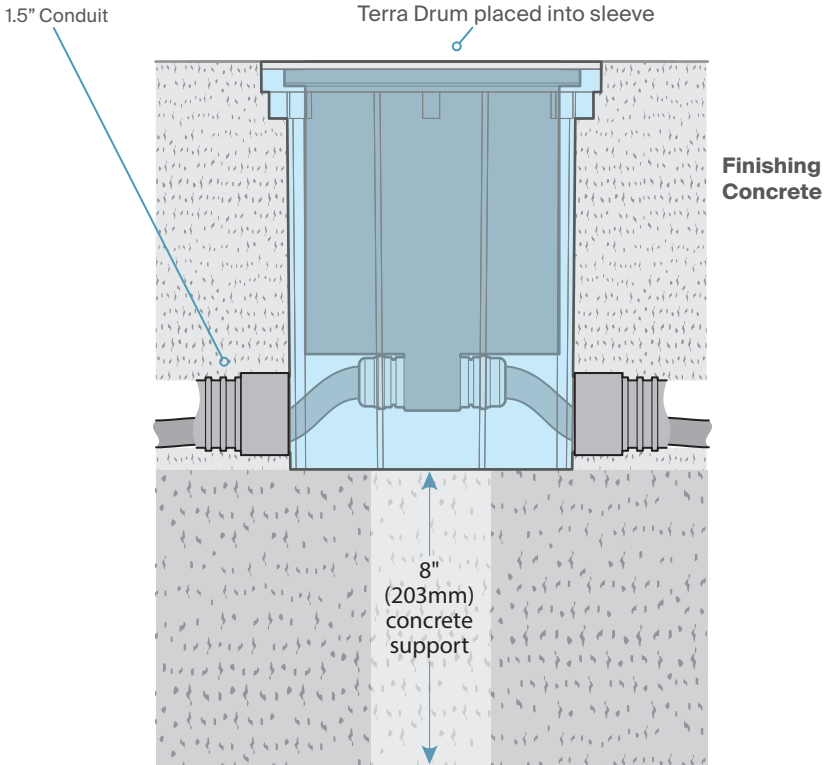
Installation

Mounting

For each Terra Drum fixture, an in-ground aluminum sleeve of the same length is required (see page 3 for part codes and page 27 for dimensions). Sleeves feature four removable 2" rubber knockouts as well as an acrylic pour cover for the upper surface, which fully protects the internal chamber while surface work is in progress.

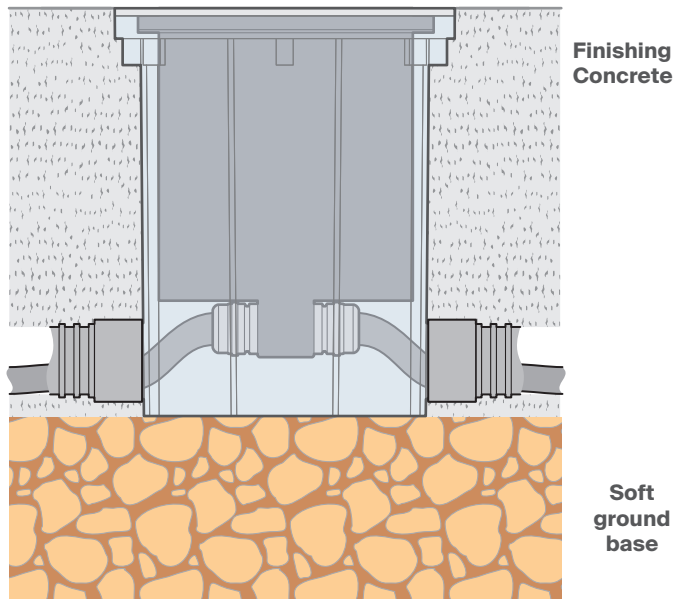
IMPORTANT: To achieve a full 6000 lbs (2,721kg) drive-over rating, the sides of each sleeve must be fully supported on 8" (203mm) concrete. Otherwise the fixture must be reduced to a walk-over rating of 2000 lbs (907kg).

To achieve a full 6000 lbs drive-over rating



continued

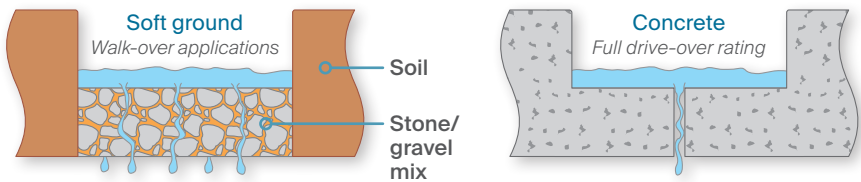
Soft ground base - 2000 lbs walk-over rating



Surface preparation and drainage

Correct surface preparation is essential to ensure that the required walk- or drive-over rating is achieved (see page 5), as well as sufficient drainage to prevent permanent flooding of the chamber(s).

Each sleeve should be mounted into a level surface that is free draining, such as a permeable stone/gravel mix. If the base is concrete then suitable drainage holes should be created.

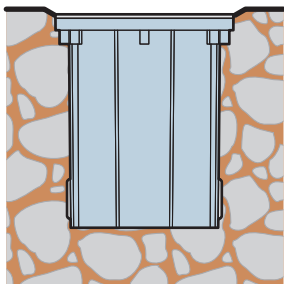


Drainage rate

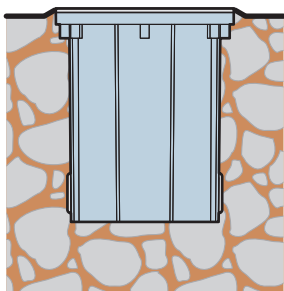
A minimum drainage rate of **0.022 gallons per minute (0.1 liters per minute)** should be met or exceeded. Where drainage rates are insufficient, further measures should be employed, such as a French drain below the immediate mounting surface of each sleeve.

Mounting height

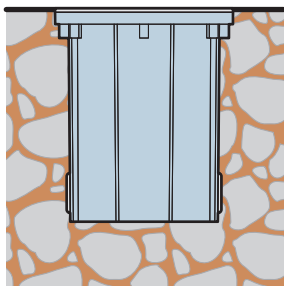
IMPORTANT: For walk- and drive-over installations, the sides of the sleeve must be fully supported and the sleeve height must be arranged to ensure that its top edge is exactly level with the finished surface:



Sleeve too low



Sleeve too high



Sleeve level with surface

In-ground installation

The following section provides a brief overview of the recommended steps required to successfully install a Terra Drum fixture.

TORX T20 Security Driver

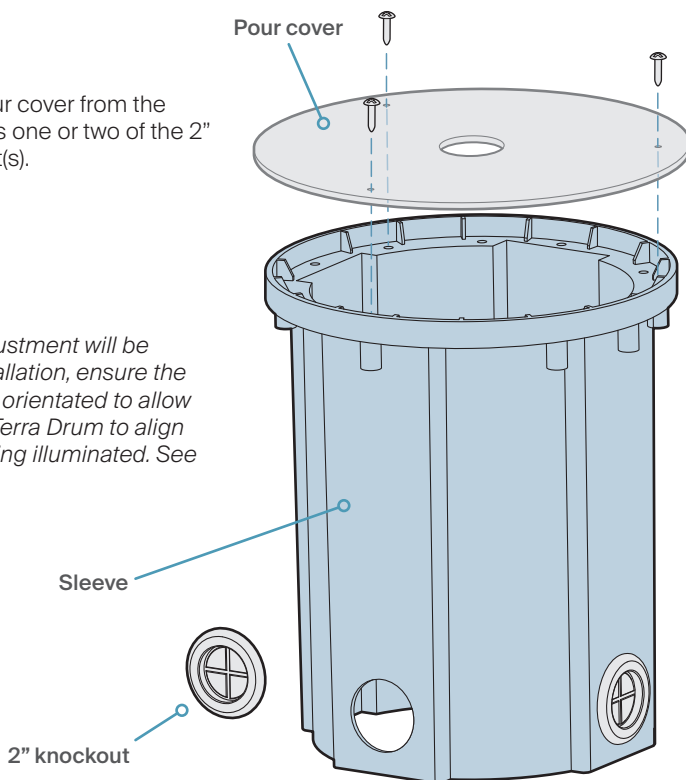
In addition to other standard tools required to complete the installation, you will also require a Torx T20 Security driver for the final fixing screws and also for making fine tilt adjustments to the head angle once the fixture is in place.

To install a Terra Drum fixture

- 1 Prepare the mounting location(s) - see "Mounting" on page 5.

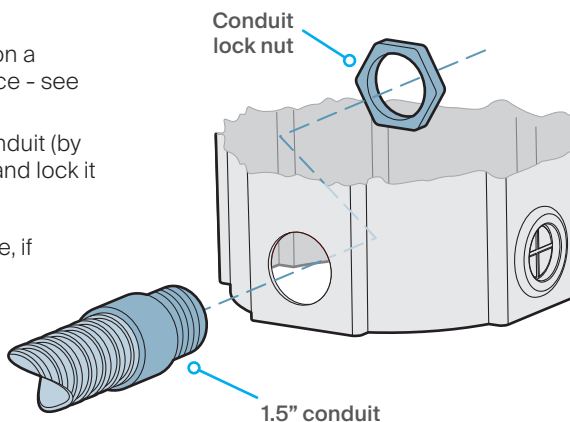
- 2 Remove the pour cover from the sleeve as well as one or two of the 2" rubber knockout(s).

Note: If fine tilt adjustment will be required after installation, ensure the sleeve is correctly orientated to allow the tilt axis of the Terra Drum to align with the object being illuminated. See page 11.

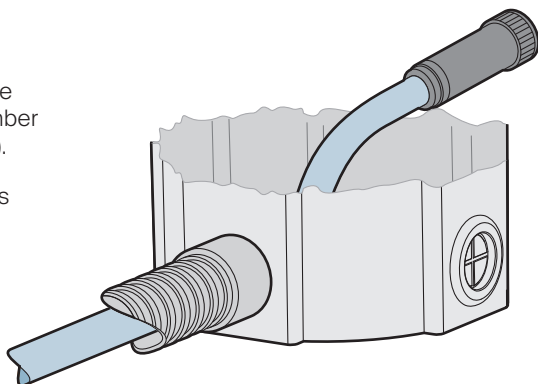


- 3 Lay the sleeve in place on a suitable mounting surface - see page 5.
- 4 Attach a suitable 1.5" conduit (by others) to the inlet hole and lock it in place.

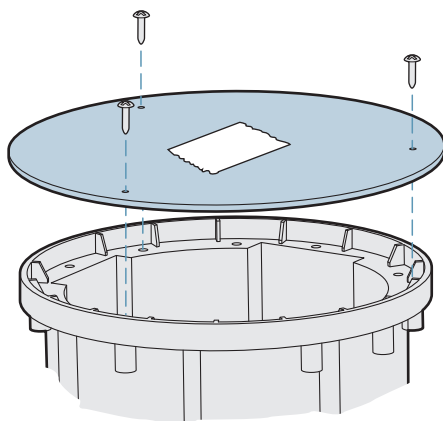
Repeat for the outlet hole, if required.



- 5 Run the link cable(s) through the conduit(s) into the sleeve chamber (using a draw wire if necessary).
- 6 If possible, test the connections before the final surface is laid.



- 7 Prior to surfacing, replace the supplied pour cover onto the sleeve to prevent concrete entering the chamber. **Tape over the hole in the pour cover.**



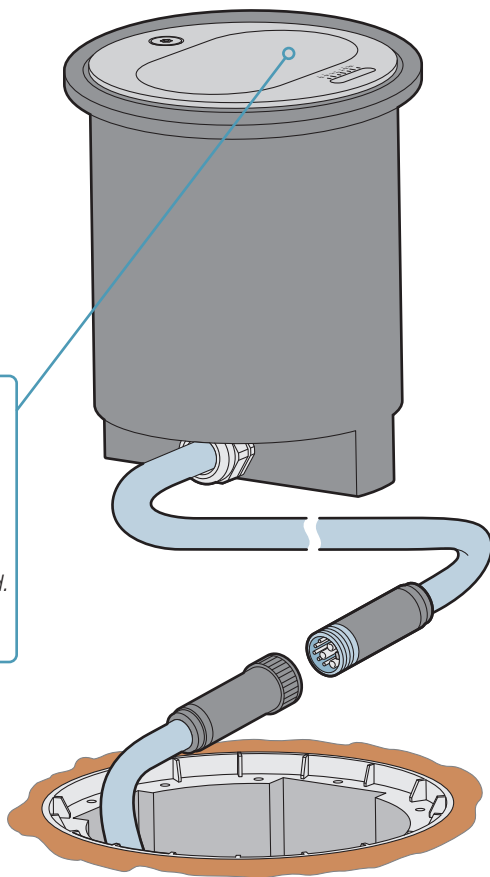
- 8 Once the finished surface has been applied, carefully remove the pour cover to reveal the chamber.

- 9 Set the Terra Drum fixture near the sleeve and connect the cables.

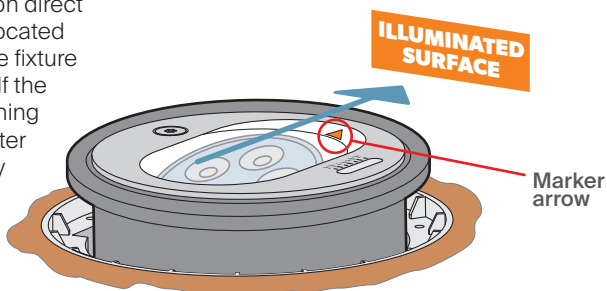
Note: When attaching cables and/or termination end cap, ensure the connectors are correctly mated and fully locked to prevent water penetration. Failure to do so may invalidate the warranty. See page 14.

Note: If fine tilt adjustment will be required after installation, ensure the Terra Drum is correctly orientated to allow its tilt axis to align with the object being illuminated. See step 11 on the next page.

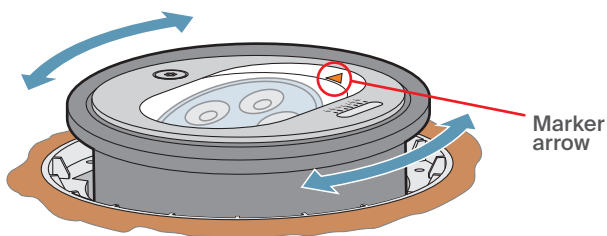
- 10 Carefully fold the cables into the chamber as the Terra Drum is lowered. *Note: It is a tight fit, particularly on the EO models.*



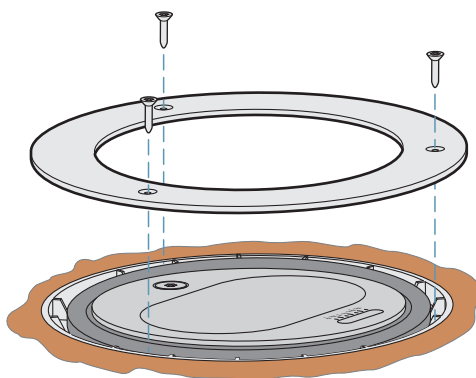
- 11 A small arrow (not fitted on direct frosted view models) is located under the top glass of the fixture to signify the tilt access. If the fixture will require fine tuning after installation, carefully rotate the fixture body within the chamber to ensure the arrow (or at least its axis) is pointing towards the object to be illuminated...



Depending on how the cables lie within the sleeve, it should be possible to rotate the Terra Drum by up to 180° before fixing it in place using the trim ring.



- 12 Place the supplied trim ring onto the Terra Drum top face and align its three bolt holes with those in the sleeve. Insert the supplied bolts and tighten using a Torx T20 security driver (not supplied).

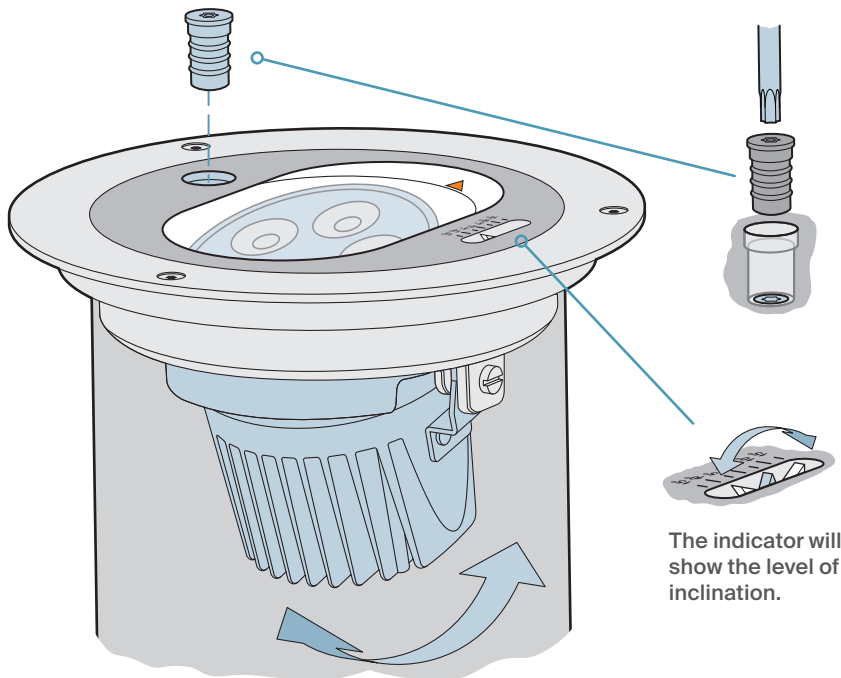


Terra-Tilt adjustments

Terra Drum fixtures (except direct frosted view models) include an adjuster that allows the head angle to be fine tuned (in one axis) by $\pm 15^\circ$ after installation.

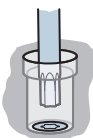
To use the Terra-Tilt adjuster

- 1 Use a Torx T20 security driver (not supplied) to loosen the bung on the glass surface of the fixture. Once loosened, prise out the bung and set it aside.



The indicator will show the level of inclination.

- 2 Use the Torx T20 driver to rotate the screw at the bottom of the aperture to cause the fixture head to rotate between $\pm 15^\circ$ until the surface is correctly illuminated.

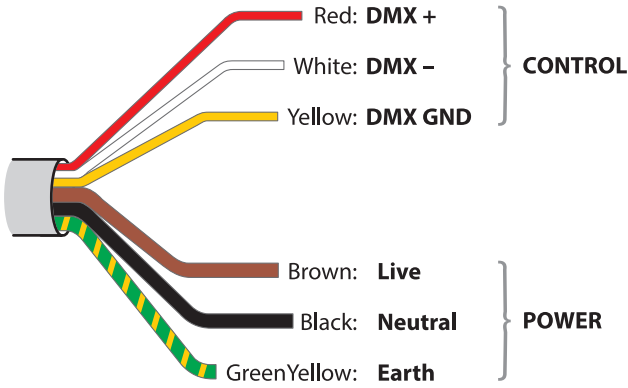


- 3 Replace the bung into the well and tighten it using the Torx T20 security driver.

Power

Power and control are combined within the IP66-rated feed and link cables using a proprietary design. Neighboring units can be directly connected without need for extra cables.

The color designations for the optional feed cable are as follows:



Control cores: 24 AWG / 0.25mm²

Power cores: 14 AWG / 2.5mm²

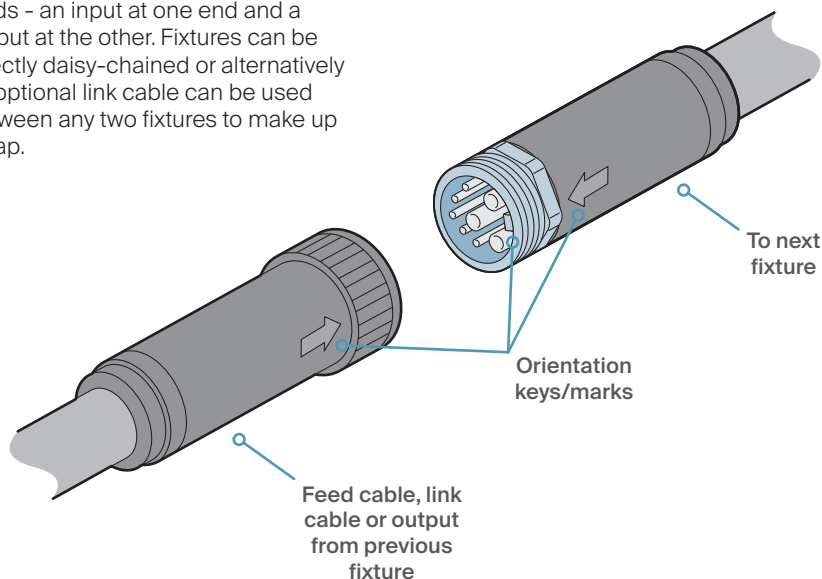
IMPORTANT: Ensure that power earth and DMX GND are both tied to true earth.

Always follow these steps when using Terra Drum cabling:

- **Ensure that the power input is isolated from the mains supply.**
- At each connection, remove the cover caps from both the socket and plug.
- Align the orientation marks of the socket and plug, then push them together and twist the locking collar to lock them fully together.
- Do not exceed the stated maximum fixtures in a daisy chain - see page 16.
- **At the final fixture in a daisy-chain run, install a terminator (end cap) to seal off the power bus and also correctly terminate the DMX control feed (see page 14).**
- To release a connection, ensure that the power input is isolated, then twist the locking collar to release the connection.

Interconnecting

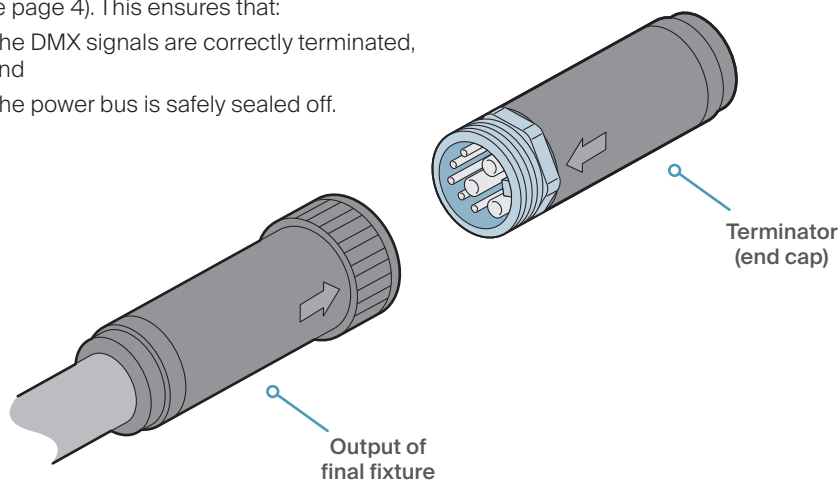
Terra Drum fixtures have two 18" (450mm) composite power/control leads – an input at one end and a output at the other. Fixtures can be directly daisy-chained or alternatively an optional link cable can be used between any two fixtures to make up a gap.



Termination

It is important that the final fixture in a run is correctly terminated using a terminator/end cap (see page 4). This ensures that:

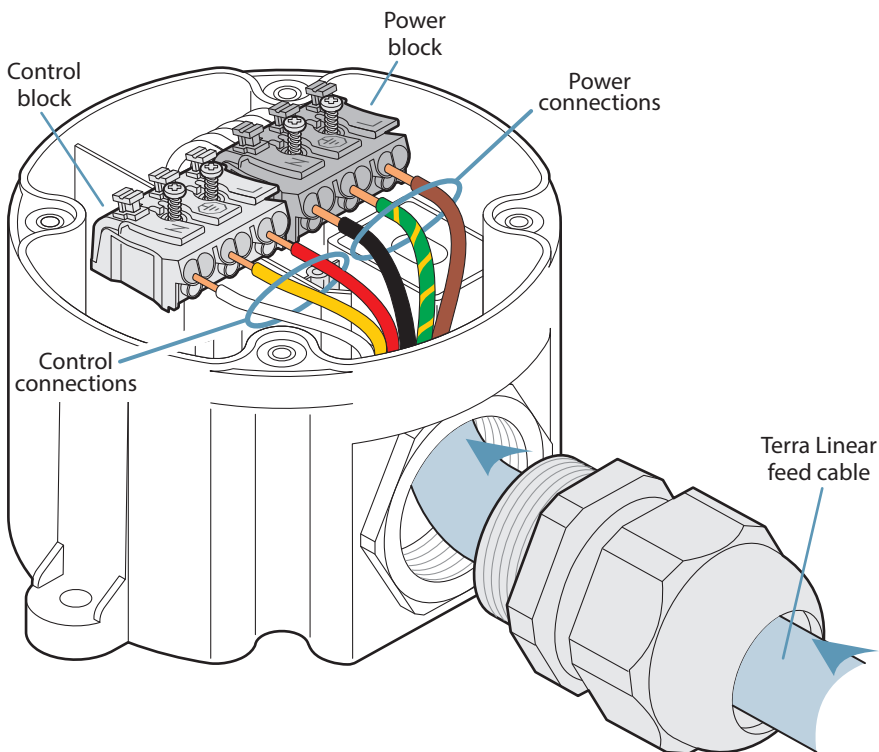
- The DMX signals are correctly terminated, and
- The power bus is safely sealed off.



Optional AJBOX1 conduit connections

If an AJBOX1 is required to connect a feed cable with external power and control link, the Terra Drum feed cable connections should be arranged on the internal connector blocks as shown here. The separate power and control input connections can be made on the other side of these connector blocks.

IMPORTANT: The AJBOX1 is rated for maximum voltages up to 277VAC.



For further details, please see:

- Page 13 for wire colors.
- Acclaim Lighting *AJBOX1* user guide (<https://acclaimlighting.com/ajbox1>).

Run lengths - fixture maximum

The maximum number of fixtures that can be driven in a single run is determined by the supply voltage and the collective power requirements for the fixtures. Fixtures with differing LED color options can be mixed freely as they all adhere to the same power specifications (within their EO/SO/HO types).

| Model | Power draw | 100VAC 120VAC | 230VAC 277VAC |
|-------|------------|------------------|------------------|
| EO | (15W) | 32 fixtures | 32 fixtures |
| SO | (30W) | 32 fixtures | 32 fixtures |
| HO | (60W) | 20 fixtures | 32 fixtures |

Run lengths - overall maximum

In addition to remaining within the maximum permitted length of *fixtures* in a single run (as discussed above), you also need to adhere to the working limits for the overall length of the **whole installation**, ie the total length fixtures in the run **plus** all their additional feed and link cabling, as listed below.

Note: These limits are imposed only by the power characteristics. The length of the DMX control feed to the first fixture could be up to 1,500' (457m) without buffering (see 'Important cabling considerations' on page 17 and "Tips for achieving successful DMX control" on page 19).

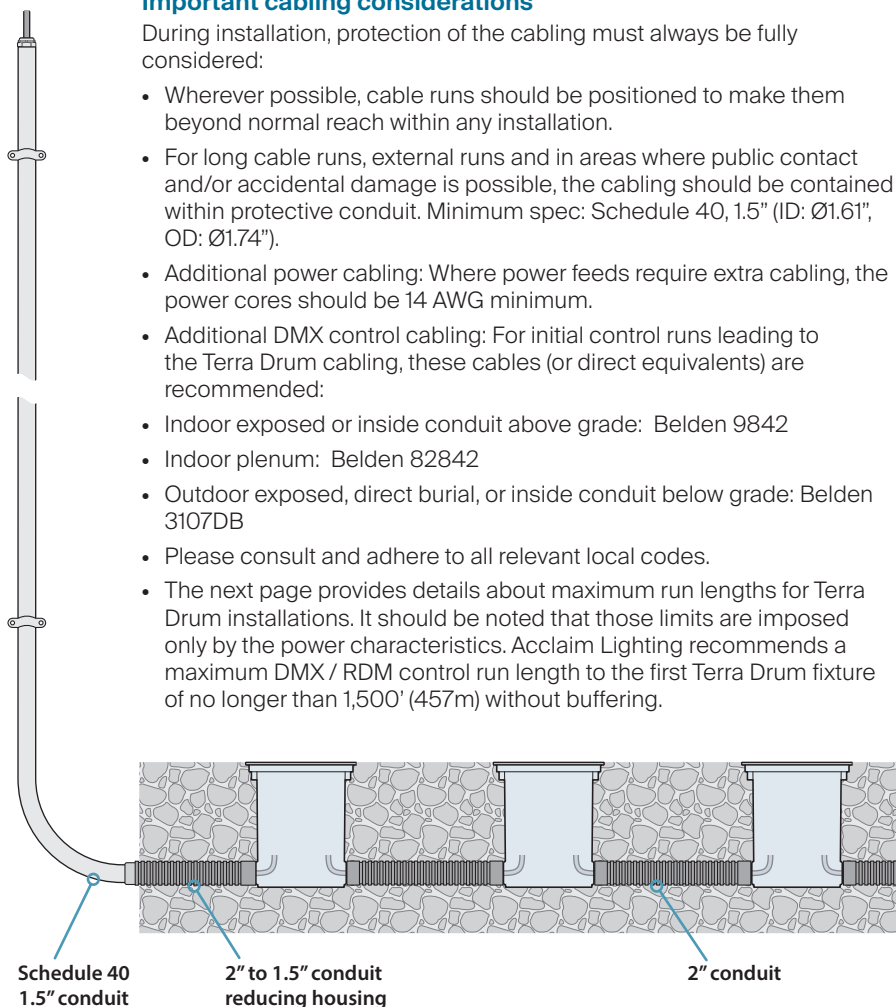
| Supply voltage | Maximum overall run length (fixtures plus all extra cabling) |
|----------------------|---|
| 100/120VAC (10A max) | 200' (61m) |
| 230/277VAC (10A max) | 400' (122m) |

IMPORTANT: Ensure the voltage drop across the entire run does not exceed 9%.
(*Note: All fixtures in a run will be controlled within a single DMX universe.*)

Important cabling considerations

During installation, protection of the cabling must always be fully considered:

- Wherever possible, cable runs should be positioned to make them beyond normal reach within any installation.
- For long cable runs, external runs and in areas where public contact and/or accidental damage is possible, the cabling should be contained within protective conduit. Minimum spec: Schedule 40, 1.5" (ID: Ø1.61", OD: Ø1.74").
- Additional power cabling: Where power feeds require extra cabling, the power cores should be 14 AWG minimum.
- Additional DMX control cabling: For initial control runs leading to the Terra Drum cabling, these cables (or direct equivalents) are recommended:
 - Indoor exposed or inside conduit above grade: Belden 9842
 - Indoor plenum: Belden 82842
 - Outdoor exposed, direct burial, or inside conduit below grade: Belden 3107DB
- Please consult and adhere to all relevant local codes.
- The next page provides details about maximum run lengths for Terra Drum installations. It should be noted that those limits are imposed only by the power characteristics. Acclaim Lighting recommends a maximum DMX / RDM control run length to the first Terra Drum fixture of no longer than 1,500' (457m) without buffering.

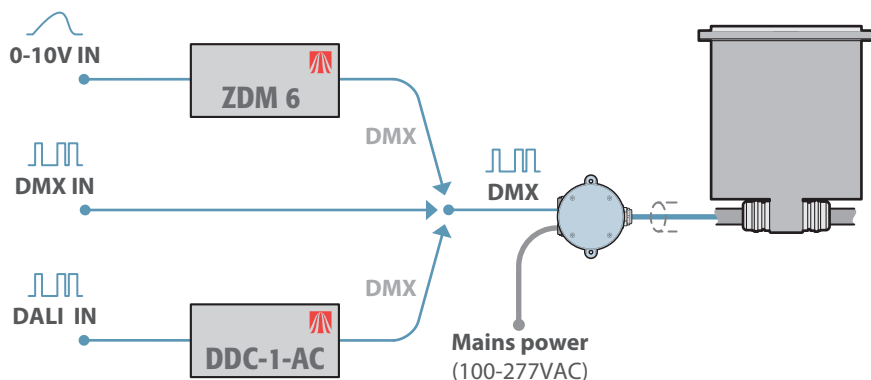


Control

Terra Drum fixtures use DMX as their native control method, however, it is possible to use other common control protocols when required, such as 0-10V (source or sink) or DALI.

Control inputs via converters

- DMX - connect a DMX input directly into the feed cable.
- 0-10V - use an Acclaim Lighting ZDM 6 (or similar) to convert one or more analog control feeds into a combined DMX feed[†].
- DALI - use an Acclaim Lighting DDC-1-AC (or similar) to convert one or more DALI channels into a combined DMX feed[†].

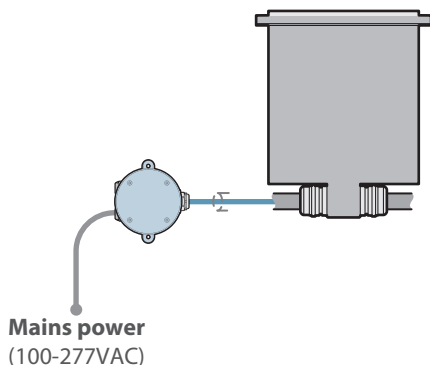


Notes:

[†] When using Acclaim Lighting ZDM 6 or DDC-1-AC modules it is possible to convert up to six 0-10V feeds or up to 64 DALI channels into separate DMX channels within a consolidated feed - thus allowing multiple Terra Drum fixtures to be uniquely addressed.

Using single color models without control

Terra Drums with single color white emitters default to 100% output when a control input is not present. Static, full brightness installations can be achieved without need for a control input, with the fixtures going straight to 100% output whenever power is applied.



Tips for achieving successful DMX control

- Acclaim Lighting recommends a maximum DMX / RDM run of 1,500' (457m) without buffering.
- Attach an end cap [Part #: TLAEC] to the output connector of the final fixture. The end cap will correctly terminate the DMX signal (and will also safely seal off the power bus).
- The DMX cable connected to the feed cable should be suited for RS-485 data transmission and have a characteristic impedance of 120 ohms, such as Belden 9842 or equivalent.
- Do not introduce a passive Y-split into the control cabling. If it is necessary to split the control link in order feed fixtures located in different directions, use a powered DMX splitter such as the Acclaim Lighting RDS 6: <https://acclaimlighting.com/rds-6>
- Ensure that the DMX + and DMX – connections do not become crossed at any point.

DMX Cable selection

We recommend the following Belden signal cables, or direct equivalents:

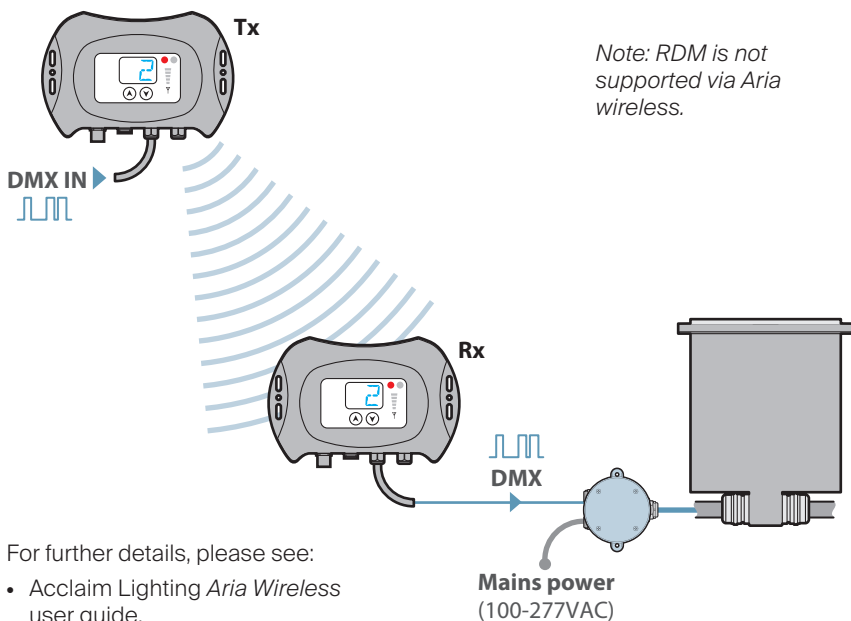
- Indoor exposed or inside conduit above grade:.....Belden 9842
- Indoor plenum:.....Belden 82842
- Outdoor exposed, direct burial, or inside conduit below grade: .Belden 3107DB

Suitable alternative cables must meet all of the following requirements:

- Construction: Shielded, twisted pair (or multi-pair).
- Impedance: Between 90 and 120Ω.
- Capacitance: 15pF or less.

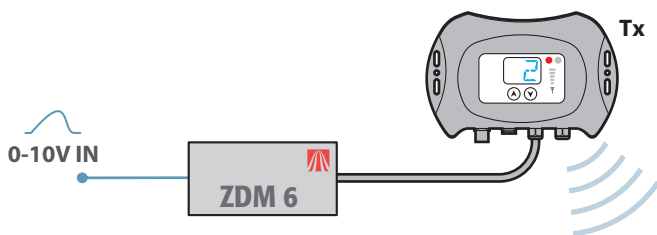
Optional wireless control

Using optional Acclaim Lighting Aria modules it is possible to wirelessly transmit a DMX signal to a Terra Drum run over distances up to 2600 feet (792m).



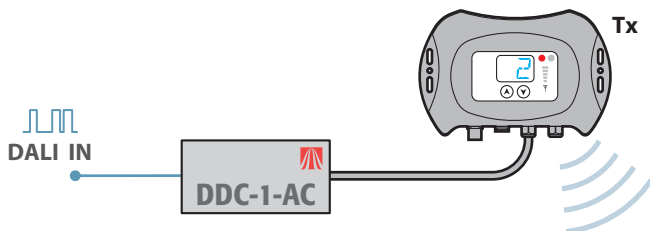
Optional wireless 0-10V control

Add an Acclaim Lighting ZDM 6 converter to gain wireless 0-10V control.



Optional wireless DALI control

Add an Acclaim Lighting DDC-1-AC converter to gain wireless DALI control.



Innovations to enable long runs

There are numerous challenges involved with creating long runs of high output LED fixtures, most notably concerning control and power; in response, Acclaim Lighting engineers have created ingenious solutions to ensure consistent and reliable operation:

Control

Long distances and high fixture counts are detrimental even to such a robust control solution as DMX; usually a maximum of 32 fixtures is possible before the signal-to-noise ratio threatens to affect operation. That is why Terra Drum fixtures act as their own signal isolator and conditioner before passing the control feed down the line. The result is a clean, reliable and [still] industry-standard control solution right to the end of the line. Additionally, as each fixture supports RDM, the passage of conditioned and isolated signals is fully bi-directional.

Power

Every Terra Drum fixture conditions its own power using a high-efficiency internal switched-mode power supply. A well known feature of such devices is their behavior during the fractions of a second after power is first applied, known as 'in-rush current'. This is when their internal components top themselves up with charge to progress from empty to a working state, which causes a very brief rise above their usual maximum consumption level. If you place many such devices on the same power line and activate them all simultaneously, their collective temporary overruns can easily swamp an otherwise perfectly adequate power feed, causing breaker trips.

To reliably solve this issue, the common high voltage power rail running through the supply cables is not a 'dumb run' but rather a managed resource. Every fixture energizes itself fully before passing power through to the next fixture in the chain. The delay at each fixture is measured in milliseconds, but it is sufficient to ensure that the installation as a whole never stresses the main power feed during the initial startup.

Operation

Terra Linear fixtures have no external controls and instead rely on RDM (Remote Device Management) for all configuration via the DMX interface. This allows multiple devices to be configured either before or after installation.

Addressing fixtures

To configure the DMX address using the XMT-500

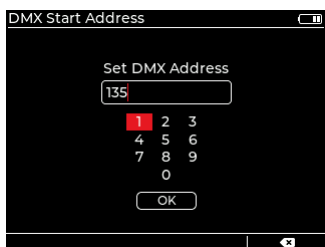
- 1 Connect the XMT-500 to the DMX input line of the Terra Drum installation.
- 2 On the XMT-500 main menu, highlight the RDM app and press ☒ - the XMT-500 will search for RDM devices and after a short while it will display a list of all located fixtures:



- 3 Highlight the Terra Drum fixture and press ☒ to view the fixture details:



- 4 Press the ☐ [Start Addr] softkey to set the address:



- Use the arrow buttons to move the red highlight between digits.
- Press ☒ to enter a digit into the address box.
- Use the ☐ [**X**] softkey to delete a digit.

- 5 When the address is complete, either long press ☒ or highlight **OK** and press ☒.
- 6 Press ☐ to return to the RDM app.

DMX channels

The number of channels required per fixture depends on the type of emitters fitted:

Emitter options

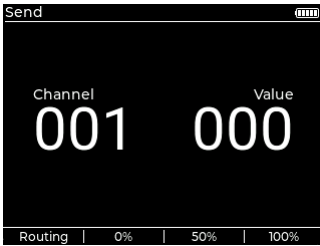
| | |
|---------------|---|
| White | 1 |
| Dynamic White | 2 |
| RGBW/A | 4 |

Testing emitter output

After you have addressed each fixture we recommend that you also test each one. This can be achieved using your RDM (Remote Device Management) tool; we recommend the XMT-500 for this task.

To test emitter output using the XMT-500

- 1 Connect the XMT-500 to the DMX input line of the installation.
- 2 On the XMT-500 main menu, highlight the Send app and press :



- 3 Use the XMT-500 buttons to determine the values sent out to the fixture(s):

- Choose DMX channel: 
- Change the value: 
- Use preset values:  [0%] [50%] [100%]
- View the Settings page: 

*Note: If you wish to send DMX values to all addresses simultaneously (rather than cycling through them individually), when the XMT-500 is showing address 001, press the left button once to change to **ALL CHANNELS**. Now when you set the level it will affect all emitters equally.*

Note: [Fixtures with white emitters only] If no control protocol is present, white light fixtures will default to full on.

Behaviors if the control signal is lost

If the DMX control signal is lost while power is applied, Terra Drum fixtures will respond in the following ways:

- **Single color versions** - when DMX is lost, each fixture will go to full output until the control signal is restored. If power is cycled while the control signal is absent, each fixture will remain at full until the signal is restored.
- **Dynamic white, RGBW and RGBA versions** - when DMX is lost, each fixture will hold the last received values until the control signal is restored. If power is cycled while the control signal is absent, each fixture will retain the last received values until the signal is restored.







Further information

Troubleshooting

No light output is visible when expected

- Check that power is correctly applied to the fixture and that there is no damage to the power input cord.
- Use an RDM tool to perform an emitter test.
- Check that the DMX address set within the fixture matches that being output by the controlling source device.
- Check the DMX output near to the source to confirm a valid signal is being originated.
- Check that the DMX + (hot) and DMX - (cold) lines have not been crossed.
- [Fixtures with white emitters only] If no control protocol is present, white light fixtures will default to full on.

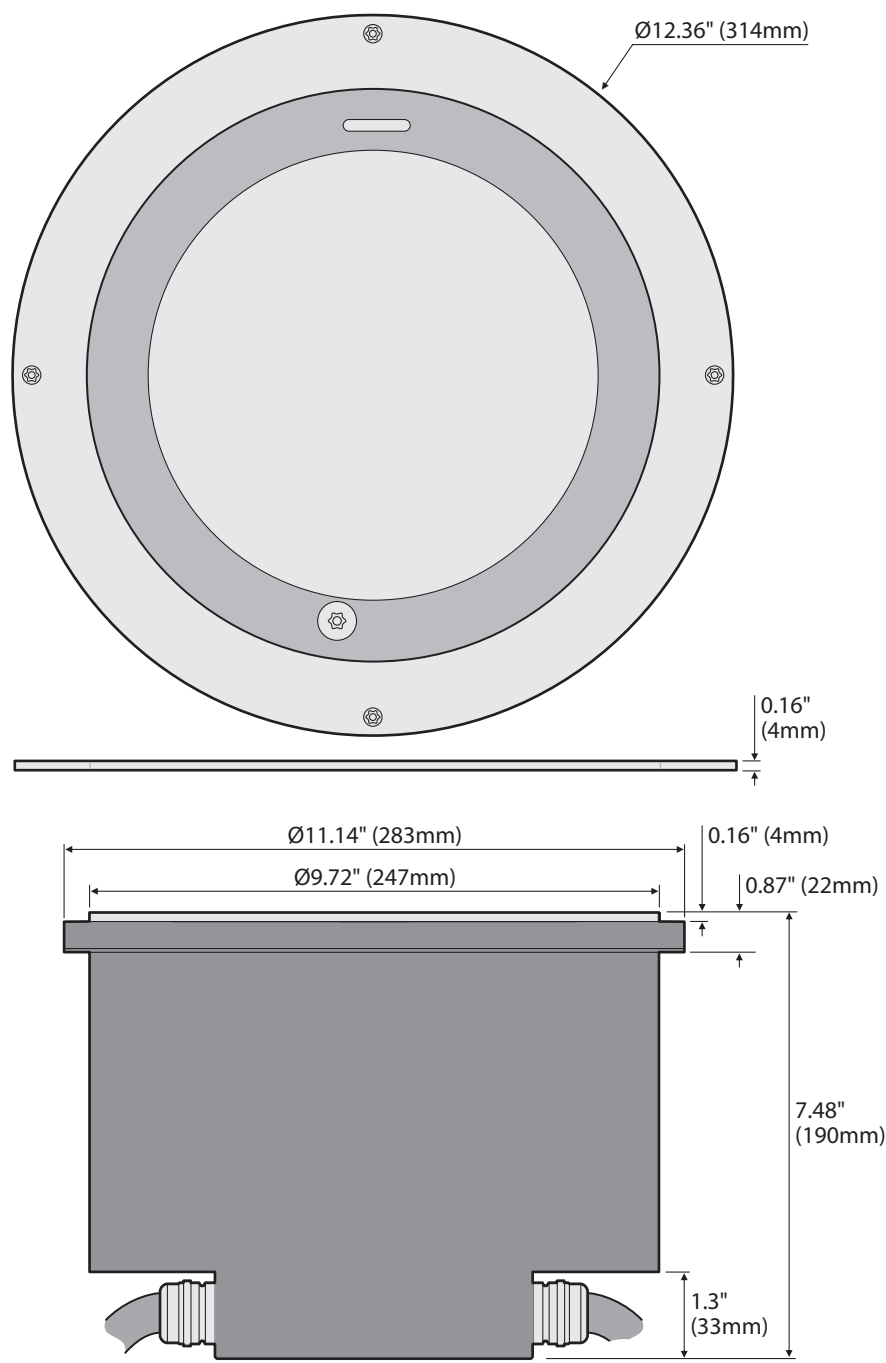
Specifications

| | |
|----------------------------|---|
| Emitters | 2400K, 2700K, 3000K, 3500K, 4000K, DW (2700K-6000K), RGBA, QS (W=3000K), QW4 (W=4000K) or QW6 (W=6000K) |
| Optics | 10° x 10°, 10° x 60°, 25° x 25°, 30° x 60°, 40° x 40°, 60° x 60°, 90° x 90°, Asymmetric wall wash (60° x 60° + 20° tilt) or Direct frosted view |
| Beam tilt | Terra-Tilt adjuster providing +/- 15° head movement in one axis; accessed via Torx security port |
| Output | Up to 3,480 lumens (HO, white) |
| Lumen maintenance | L ₇₀ 150,000 hours (@ 25° C) |
| Control | 0-100% dimming via wired DMX (with RDM configuration). 0-10V an DALI control available |
| Maximum fixtures in series | See page 16 |
| Operating voltage | 100-277VAC, 50/60Hz |
| Power consumption | HO: 60W, SO: 30W, EO: 15W |
| Connection | NEC-compliant composite integral input and output cables [18" (46 cm) lengths] with IP68 multi-pin connectors |
| Mounting | In-ground sleeve required (ordered separately). Includes pour cover and knock-outs for 1.5" conduit |
| Material | Anodized aluminum with marine grade coating, glass top lens with optional slip-resistant coating, PVC in-ground sleeve (available as separate item) |
| Finish | 316L stainless steel trim ring finish as standard. Optional black, white, brass or custom colors available |
| Ambient temperature range | -40° F to 131° F (-40° C to 55° C) |
| Ingress protection | IP68, wet location and temporary submersion for up to 1 hour at 3.28' (1m) |
| Impact protection | IK10, protection against 20 joule impact (40cm distance) |
| Vibration protection | ANSI C136.31, 3G-rated for high vibration and bridge applications |
| Drive over rating | Walk- and drive-over rated up to 6,000 lbs (2,721kg) |
| Weight | HO: 18 lbs (8.16kg), SO: 9 lbs (4.08kg), EO: 6.2lbs (2.81kg) |
| Certifications |       |

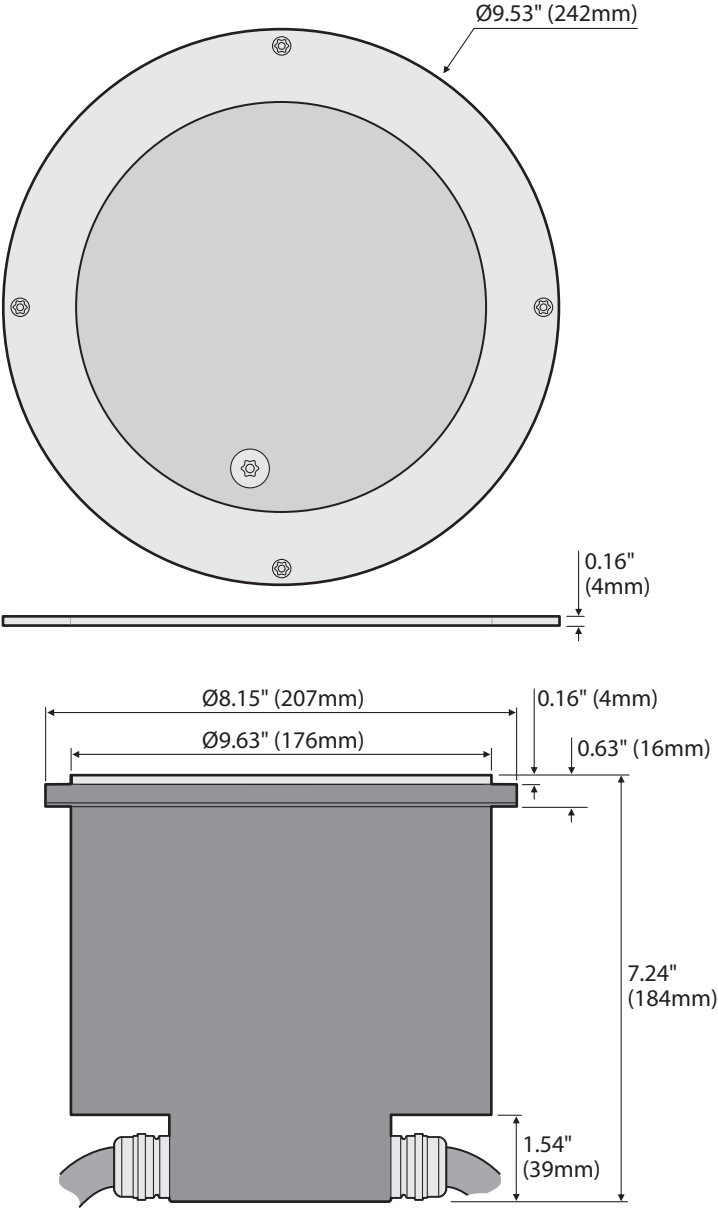
(ETL Listing conforms to UL 1598 : 2021 Ed. 5 standards)

Dimensions

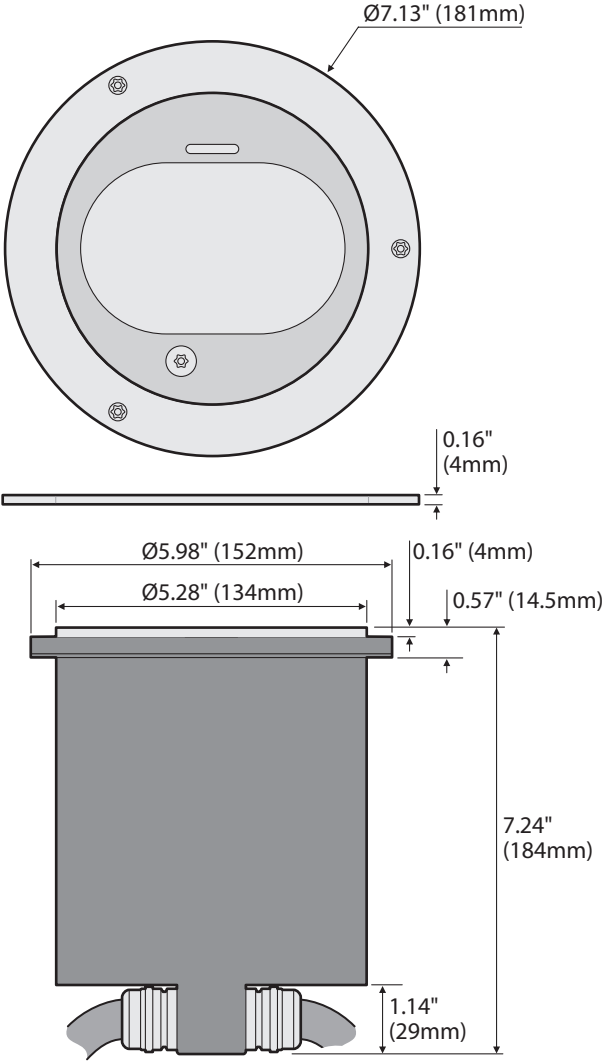
Terra Drum HO



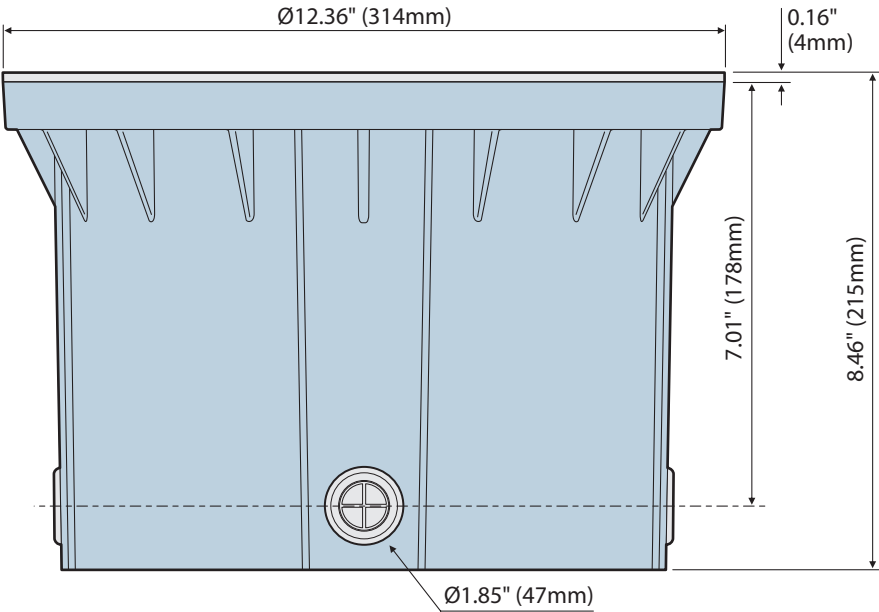
Terra Drum SO



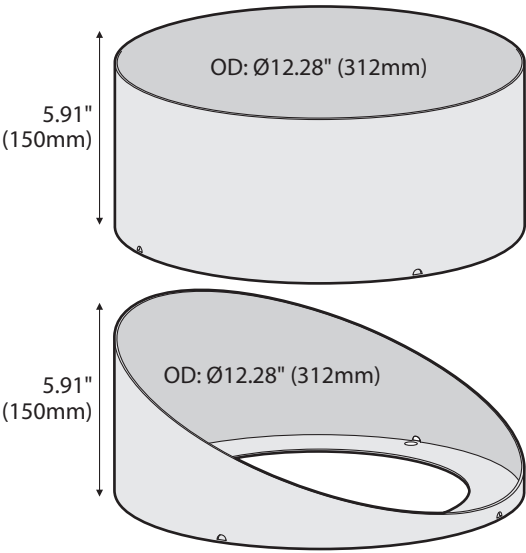
Terra Drum EO



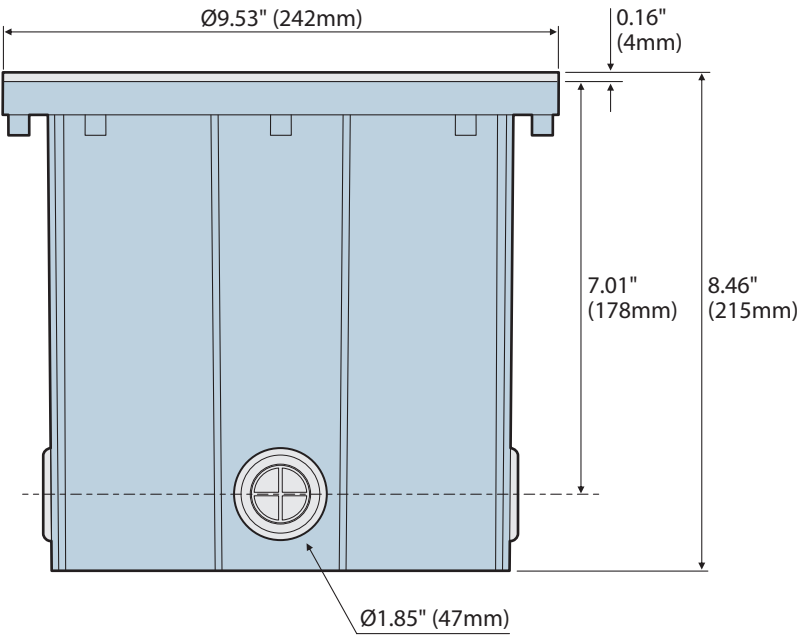
HO sleeve



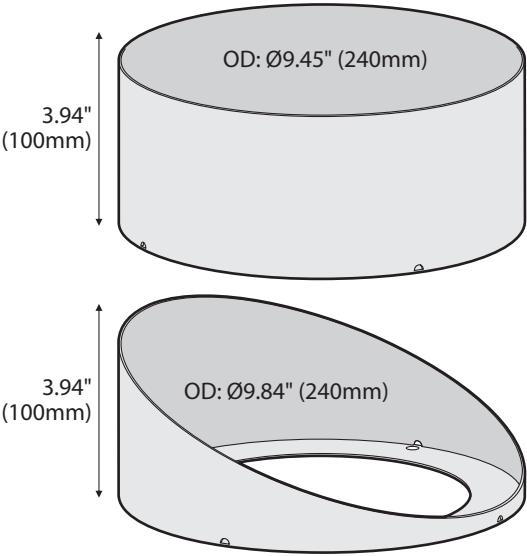
HO snoots



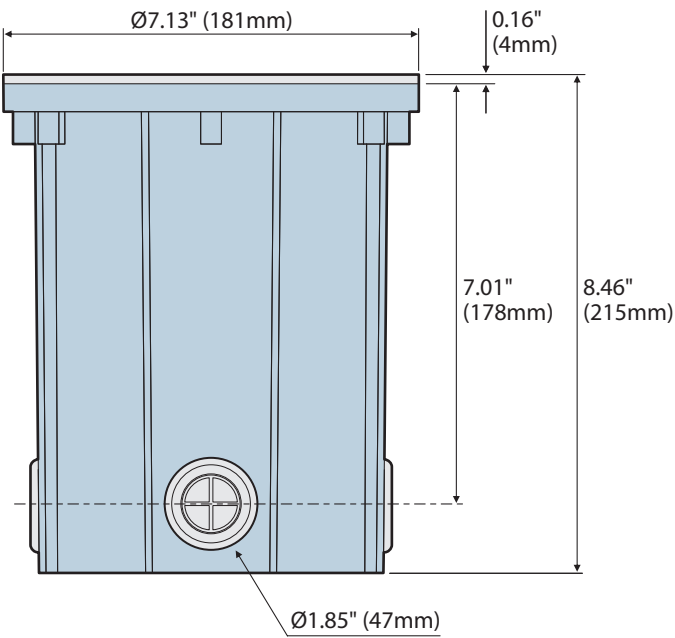
SO sleeve



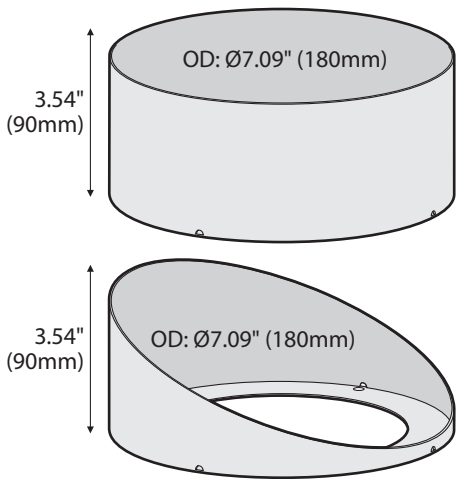
SO snoots



EO sleeve

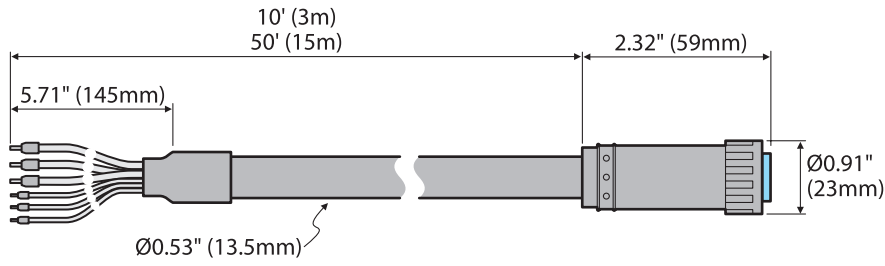


EO snoots

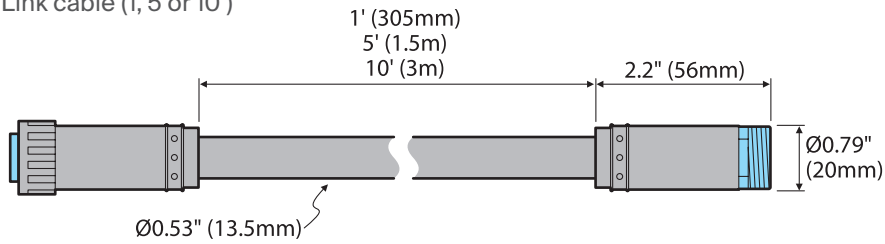


Cables

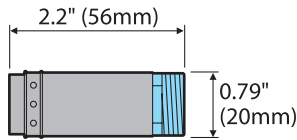
Feed cable (10 or 50')



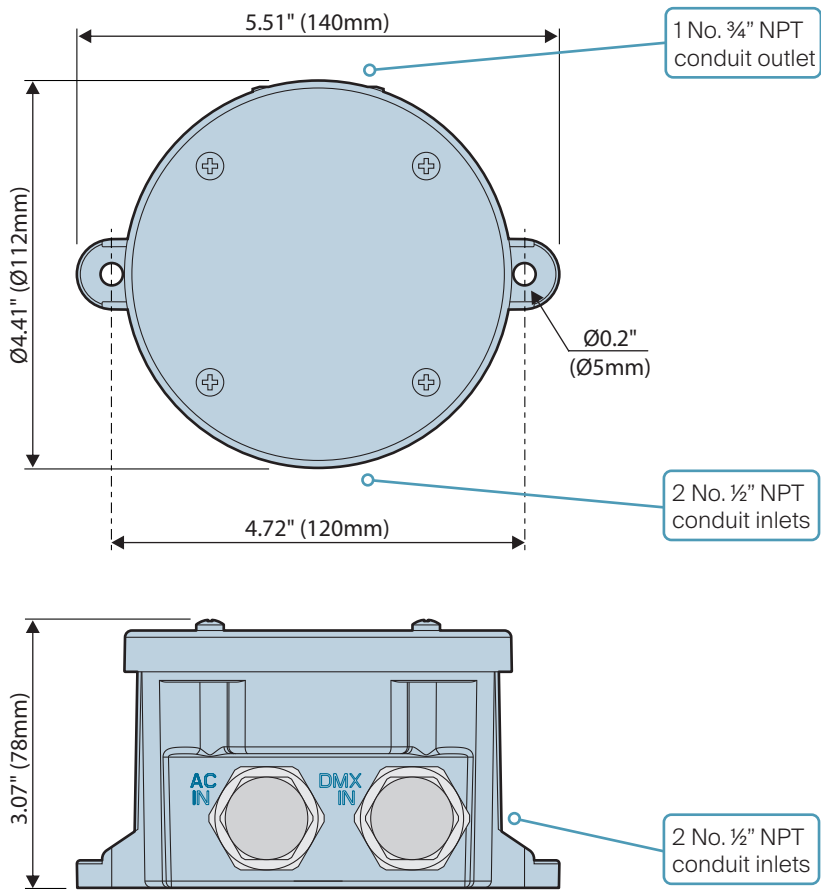
Link cable (1, 5 or 10')



Terminator (end cap)



AJBOX1



Limited product warranty

A. Acclaim Lighting™ hereby warrants, to the original purchaser, Acclaim Lighting finished products to be free of manufacturing defects in material and workmanship for a standard period of:

- Fixtures: 5 Years (1,825 days) from the date of purchase.
- Drivers, power supplies and accessories: 5 Years (1,825 days) from the date of purchase.
- Flex Products: 3 Years (1,095 days) from the date of purchase.
- Controllers: 2 Years (730 days) from the date of purchase.

It is the owner's responsibility to establish the date and place of purchase and warranty terms by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the Acclaim factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Acclaim Lighting will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, Acclaim Lighting shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof. Acclaim reserves the right to replace the item with same or similar product at its discretion.

C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which Acclaim concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Acclaim Lighting factory unless prior written authorization was issued to purchaser by Acclaim Lighting; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up nor do we guarantee as part of this warranty any lumen performance during period. Parts not covered by this warranty include: fuses, external power supplies, third party items not manufactured by Acclaim Lighting. During the period specified above, Acclaim Lighting will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Acclaim Lighting under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Acclaim Lighting. At no time will installation or re-installation or products labor or liability costs will be assumed by Acclaim Lighting. All products covered by this warranty were manufactured after January 1, 2012, and bear identifying serial number marks to that effect.

E. Acclaim Lighting reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products describe above. Except to the extent prohibited by applicable law, all implied warranties made by Acclaim Lighting in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired.

F. Marine or extreme weather location applications using Acclaim lighting products are subject to a 2 year limited warranty and Acclaim must be notified prior to delivery of units for such applications so that preventative treatment can be made to the products to ensure proper performance and product life with a special marine code coating / sealing process at an additional cost.

G. The consumer's and or dealer's sole remedy shall be such repair or replacement as is expressly provide above; and under no circumstances shall Acclaim Lighting be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product. This warranty is the only written warranty applicable to Acclaim Lighting products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

