

Axceleron™ by AQUARIi

Installation and Operations Manual

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January 1, 2015

Axceleron™

Installation and Operations Manual

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AXCELERON™ FIXTURE INSTALLATION

INTRODUCTION

This manual contains information regarding the safe installation, operation, maintenance, and troubleshooting of the Aquarii Axceleron™ LED Luminaire. The Axceleron has been designed for general indoor and other use lighting applications. The fixture is UL listed under standards 1598 and CSA certified under standards CSA C22.2 No. 250.

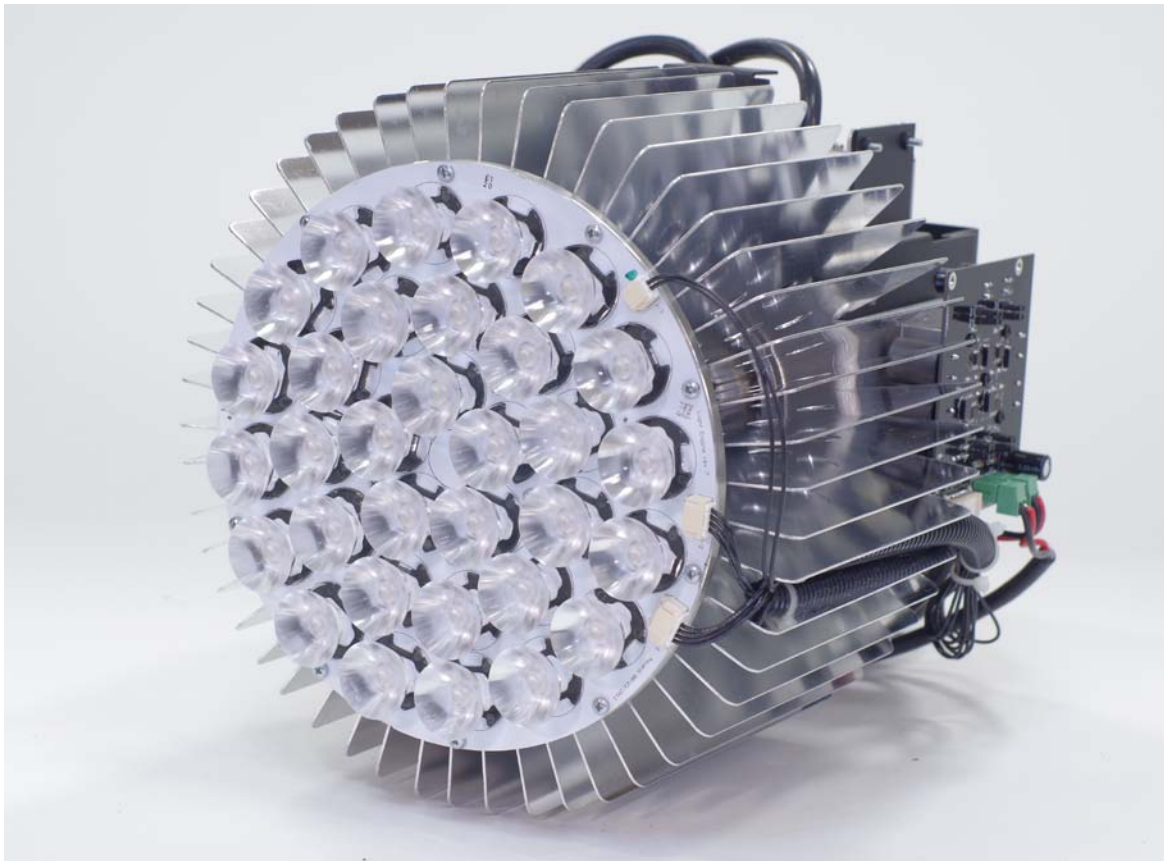


Figure 1 - Axceleron™ LED Fixture



Customer Service

If you have any questions regarding the installation, operation, maintenance and/or troubleshooting of your new Axceleron, please contact an Aquarii Customer Service Representative at (315) 672-8807 Monday – Friday, 8:00am to 5:00pm Eastern Standard Time. You may also contact us at service@aquariitech.com or write to us at:

AQUARII, INC.
ATTN: Customer Service Department
17 Genesee Street
Camillus, New York, U.S.A. 13031

SAFETY PRECAUTIONS

Please read and understand this manual before attempting to install or operate the Axceleron.

INSPECTION

Upon receiving your Axceleron, inspect the unit for any signs of damage. Should any damage be noted, immediately contact Aquarii's Customer Service Representative to report the damage and file the appropriate claim. The damaged unit must be appropriately packaged and shipped back to Aquarii within 24 hours of filing the claim. Refer to the Customer Service section for the appropriate contact information.

STORAGE

Axceleron LED fixtures must be stored in a clean and dry location and should be kept within the original shipping containers. They shall be protected from dirt, water and sunlight and shall be positioned to allow for adequate air circulation in a controlled environment to prevent condensation.

Storage Temperature: 32°F to 125°F (0°C to +50°C)

OPERATING CONDITIONS

Operating Temperature: 32°F to 105°F (0°C to +40°C)

Humidity: 5% to 95% (non-condensing)



The Axceleron is designed for use in typical indoor environments such as theaters, warehouses, indoor places of assembly, etc.

It is not designed for use in environments that have:

- ✦ Damp or wet conditions
- ✦ Corrosive atmospheres
- ✦ Oil and/or chemical vapors
- ✦ Excessive dust or explosive gases (such as grain silos)
- ✦ Excessive heat or exposure to areas with high temperatures
- ✦ Exposure to surges in electrical power. NOTE: the Axceleron warranty is void if the unit is exposed to excessive fluctuations (surges) in power, voltage or cycles. Main power for Axceleron fixtures should be filtered through a power conditioner to ensure that no surges are passed through to the Axceleron.

LED LIGHTING PRODUCT LIMITED WARRANTY

This limited warranty is provided by Aquarii, Inc. (indicated as "Seller" on the invoice) to the original purchaser of the LED Lighting Product. Seller warrants that the Product will be free of defects in material and workmanship which cause the Product to fail to operate in accordance with the performance specifications set forth in the documentation published for or provided with the Product (the "Specifications"). The determination of whether the Product is defective shall be made by Seller in its sole discretion with consideration given to the overall performance of the Product. A Product shall not be considered defective solely as a result of the failure of individual LED components to emit light if the number of inoperable components is less than 10% of the total number of LED components in the Product.

If any Product covered by this warranty is returned by Purchaser within the Warranty Period referred to below in accordance with Seller's Product Return Policy (noted in Schedule "A"), and Seller determines to its satisfaction that such Product failed to satisfy this warranty, Seller will, at its option, repair or replace the Product or the defective part, or reimburse Purchaser for the purchase price, subject to the limited warranty terms and conditions set forth in attached Schedule "A". For the purpose of clarity, "repair or replacement of the Product or the defective part thereof" does not include any removal or reinstallation costs or expense, including without limitation labor costs or expenses. If Seller chooses to replace



the Product and is not able to do so because it has been discontinued or is not available, Seller may replace it with a comparable product.

This warranty shall become effective only upon satisfaction of the conditions set forth on Schedule "A". The warranty shall be in effect for a period (the "Warranty Period") of ten (10) years from the Product ship date; provided that the Warranty Registration Card referred to on Schedule "A" is returned to Seller within thirty (30) days of the invoice date. Otherwise, the Warranty Period shall be three (3) years.

This warranty only applies when the product has been properly handled, stored, transported, wired, installed and operated within the electrical values, operating range and environmental conditions provided in the Specifications. Seller will not be responsible under this warranty for any failure of the Product that results from external causes such as: acts of nature; physical damage; exposure to adverse or hazardous chemical or other substances; use of reactive cleaning agents and/or harsh chemicals to clean the Product; environmental conditions; vandalism; fire; power failure, improper power supply, power surges or dips and/or excessive switching; induced vibration; animal or insect activity; fault or negligence of purchaser, any end user of the Product and/or any third party not an authorized representative of Seller; improper or unauthorized use, installation, handling, storage, alteration, maintenance or service, including failure to abide by any product classifications or certifications, or failure to comply with any applicable standards, codes, recommendations, product specification sheets or instructions of Seller; use of the Product with products, processes or materials supplied by any end user or third party; or any other occurrences beyond Seller's reasonable control.

Seller is not responsible for electrical supply conditions, including supply spikes, overvoltage/under-voltage and ripple current control systems that are beyond the specified operating limits of the Products. Seller also will not be responsible under this warranty for substantial deterioration in the foundations, anchorages or structures. The end user is solely responsible for the structural integrity of such existing foundations, anchorages or structures and all consequences arising from their use.

This warranty shall become void in the event (a) any repairs, modifications, or alterations not specifically authorized by Seller are made to the Product by any person, (b) the Product has been serviced by personnel not authorized by Seller, (c) the Product is not used for the purpose for which it is designed, (d) the Product is exposed to operating conditions or environments other than those mentioned in the Specifications, product brochures, or user manuals, or (e) the serial numbers on the Products have been altered, defaced or rendered illegible.



The provisions of this warranty are exclusive and are given and accepted in lieu of any and all other warranties, whether expressed or implied, including without limitation any warranty against infringement and any implied warranties of merchantability or fitness for particular purpose, all of which are expressly disclaimed. No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of this warranty in any matter whatsoever.

Under no circumstances shall Seller's aggregate liability arising out of or in connection with a defective Product, in contract, tort or otherwise, exceed the purchase price of the Product to which such liability relates. In no event shall Seller be liable for special, incidental, consequential, indirect or compensatory damages, including, without limitation, damages resulting from loss of use, profits, business or goodwill.

Seller reserves the right to modify this warranty from time to time and any modifications shall be effective for all orders placed on or after the effective date of such revised warranty.

This warranty may not be transferred or assigned by the original end user and product must be purchased directly from Seller or an authorized distributor or representative of Seller.

ELECTRICAL (POWER AND DATA CABLE INTERFACE)

Main Power and Low Voltage Data cables must maintain proper separations when installed within pendant stems. Voltage barriers shall be provided in accordance with local authority having jurisdiction and/or NEC requirements.

Depending on mounting option selected and conditions of facility for fixture installation, contractor shall contact Aquarii representative for assistance with recommended installation procedures.

QUICK START

Prior to using the Axceleron, the installer must perform the following:

1. Before exposing the unit, please remove any shipping or storage debris from the exterior of the packaging.
2. Once the Axceleron packaging is open please verify that all parts are included and that nothing has been damaged or modified during shipping or storage.

Please see Axceleron™ Operations Manual for more detailed information.

AXCELERON™ MODEL NUMBERS

The Axceleron is manufactured to meet numerous performance requirements. Performance criteria that can vary with your Axceleron include:

- ✦ LED Package; Color Temperature and CRI
- ✦ Lens Optics
- ✦ Controls
- ✦ Unit Color
- ✦ Mounting Options

The Model Number on each Axceleron contains the codes regarding its specific performance characteristics. By referencing the model number you will be able to determine the complete performance criteria for every Axceleron unit.

CHART OF AXCELERON™ PERFORMANCE CRITERIA AND OPTIONS - EXAMPLE

AX	150	30	80	36	D	B	4	E
TYPE AX=Axceleron	WATTS 75=75W 95=95W 120=120W 150=150W	COLOR TEMP 30=3,000K 32=3,200K 45=4,500K 50=5,000K C=CUSTOM	CRI 75=CRI 75 80=CRI 80 85=CRI 85 90=CRI 90	OPTICS 14=14° Lens 18=18° Lens 28=28° Lens 36=36° Lens 70=70° Lens 110=110° Lens 20B,40B,60B, 80B= 18° Lens with Beam Spreader add "" to any code for Glare Reducer	CONTROL C=Constant V=0-10V D=DMX R=DMX-RDM	UNIT COLOR B=Black W=Off White C=Custom	MOUNT M1=C-clamp M2=Flush M3=Yoke M4=Pendant M5=Pendant Slope M6=Pendant A/C Cable M7=Recessed	POWER CONNECTOR E=15A Edison 2=2P&G B=Bare Leads

In this example the Axceleron is a unit with:

150 watt output, 3000K Color Temperature LEDs, 80 CRI LEDs, 36 degree Lenses, DMX Control, Color Black, Pendant mounting system, and a Edison power connector.

WARNINGS

Before beginning the installation:



1. Disconnect the power supply leading to the Axceleron at the circuit breaker.

2. If applicable, perform proper “lock-out/tag-out” procedures.

All electrical connections must be installed in conformance with the National Electrical Code (NEC) and local codes, as applicable. Contact the local codes office for applicable codes, permits and/or inspections that may be required.

Confirm that the supply voltage matches the Axceleron's requirements before completing any connections to the supply voltage. **The Axceleron requires non-dimmed mains power within the range of 100-277Vac 50/60Hz.**

Note that the Axceleron has multiple mounting options: yoke, c-clamp, pendant, recessed and flush mounted methods. Please confirm that the Axceleron ordered is correct for the desired mounting. Reference Section II to determine the mounting style for your Axceleron units.



Altering the Axceleron in any manner is prohibited and will void any and all warranties. **DO NOT CONNECT** Axceleron to DC voltages or AC voltages/cycles not approved for its operation. Doing so will damage the Axceleron and void all warranties.



DO NOT CONNECT Axceleron to an electrical system that does not provide a means for equipment grounding, including, but not limited, to two-wire systems that are not grounded. **FAILURE TO ADHERE TO THIS WARNING COULD PERMANENTLY DAMAGE THE UNIT AND/OR CAUSE ELECTRICAL CURRENT TO FLOW THROUGH ANY METAL PARTS OF THE UNIT, WHICH COULD CAUSE SERIOUS INJURY OR DEATH TO ANYONE COMING INTO CONTACT WITH THE LUMINAIRE.**





Product must be protected from power surges via conditioned main power supplies in order for all warranties to be valid.


ALWAYS mount Axceleron according to Aquarii mounting instructions.



DO NOT suspend the Axceleron by the supply wires or from junction boxes that cannot safely support a rated load of 150 pounds (68 kg). If safety cables have been supplied they must be attached to hard points within the house structure that are suitable of suspension of the complete weight of the Axceleron unit (25 pounds (11.4kg), with 6:1 safety factor (150 pounds (68 kg)). Failure to properly install the fixture, attach the safety cable or modifying the cable will reduce its strength, violate the warranty and create a serious or mortal hazard.

 **WARNING:** THE AXCELERON MUST NOT BE SUPPORTED BY WIRE CONNECTORS. ATTEMPTING TO SUSPEND IT BY THE FACILITY WIRES AND/OR WIRE CONNECTORS WILL RESULT IN FALLING, WITH THE POSSIBILITY OF PERSONAL INJURY OR DEATH AND THE DANGER OF ELECTRICAL SHOCK OR FIRE.


 **WARNING:** IF THE AXCELERON IS SUPPLIED WITH A SAFETY CABLE. FAILURE TO ATTACH THE SAFETY CABLE TO A TIE-OFF CAPABLE OF SUPPORTING THE WEIGHT OF THE UNIT CAN RESULT IN FALLING, WITH THE POSSIBILITY OF PERSONAL INJURY OR DEATH. THE SAFETY CABLE SHALL NOT BE SHORTENED NOR ATTACHED WITH FASTENERS (SUCH AS "DOG CLIPS") THAT ARE NOT RATED FOR USE IN SECURING LOADS ABOVE PEOPLE.

 Installer shall be careful to not damage or cut any of the AXCELERON wiring system(s) throughout the installation process. Wire SHALL NOT contact any surface having a sharp edge. Damage to the wires may possibly cause personal injury or death from electrical shock.


Installer shall wear the appropriate personal protective equipment during the installation process as Axceleron produces high intensity light output. Prolonged and/or direct viewing of the output of the Axceleron at a close range when operating can cause severe eye damage. **USE APPROPRIATE EYE PROTECTION.**

PREPARATION FOR INSTALLATION

Before beginning assembly and installation of the Axceleron verify that all parts are present. Should any part be missing or damaged, the installer shall immediately contact an Aquarii Customer Service representative. Do not proceed with installing a damaged unit.

 **CAUTION:** Hazardous voltage and current are associated with the usage of LED Lighting; Aquarii recommends that a qualified electrician install and maintain these Units.

Before beginning this installation, disconnect the power supply for the Axceleron at the circuit breaker. If applicable, perform proper "lock-out/tag-out" procedures.

 **Warning:** Units with Analog (0-10V), DMX or DMX/RDM control options may retain a charge for up to 10 seconds after power has been disconnected from unit.



MOUNTING CONDITIONS

Verify that the Axceleron delivered matches the specific mounting condition. If the Axceleron does not match the specified mounting condition, DO NOT ATTEMPT TO modify the unit. Upon discovery of improper mounting hardware for the specific installation, immediately notify an Aquarii Customer Service Representative.

The mounting condition for any Axceleron can be determined by reviewing the model number label on each Axceleron unit. The following number references the mounting option. For more details refer to the "DETERMINING THE AXCELERON PERFORMANCE FEATURE FOR THE MODEL NUMBER" section of this manual.

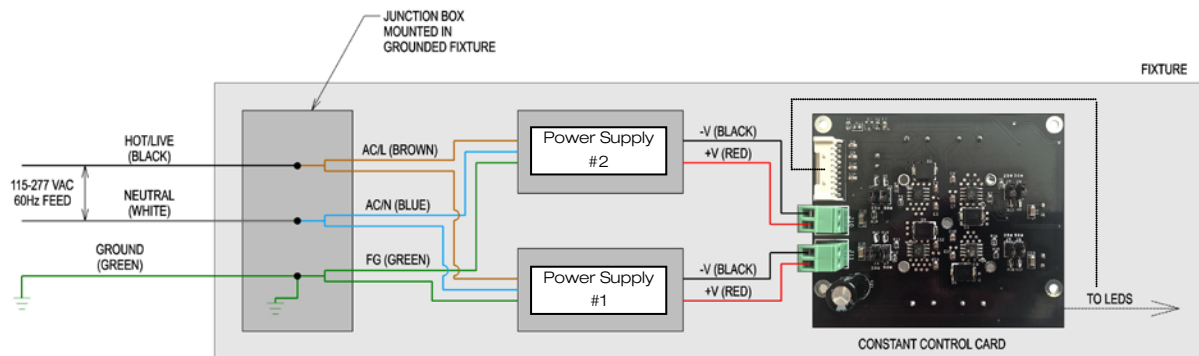
<u>Mounting Number</u>	<u>Mounting Option</u>
1.....	C-Clamp
2.....	Flush Mount
3.....	Yoke Mount
4.....	Pendant Mount
5.....	Pendant Slope Adapter
6.....	Pendant Air Craft Cable
7.....	Recessed

INSTALLATION

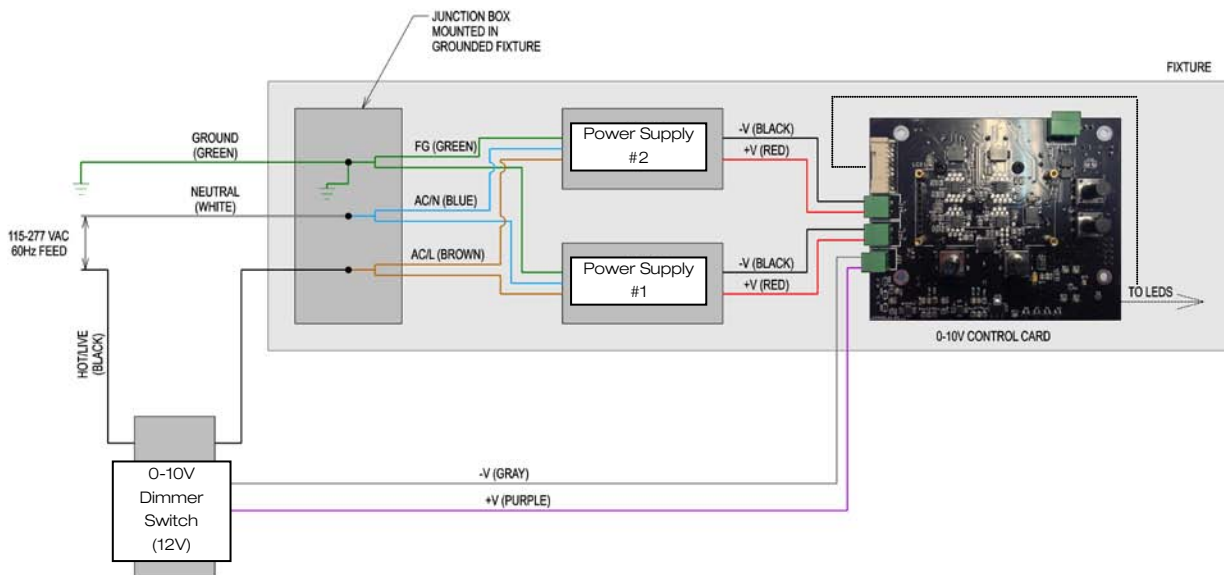
These are general installation instructions for the Axceleron – see also Section 2 of this manual. These steps will vary depending on the mounting options chosen for each unit. Please refer to the individual mounting instructions for detailed mounting instructions:

1. Carefully remove from shipping container and inspect for damage.
2. Separate the housing from the Axceleron unit by removing the (2) tapered screws located on the side the housing. Retain the screws, which are required to reinstall the housing.
3. Remove the top bracket of the Axceleron unit by removing the 4 screws that secure the bracket to the unit. Note this step is not required for Recessed and Yoke mounting options.
4. Install mounting option as per instructions provided with mounting kit.
5. Rough-in facility power and data wires based on the mounting option that is being used and the diagrams noted below

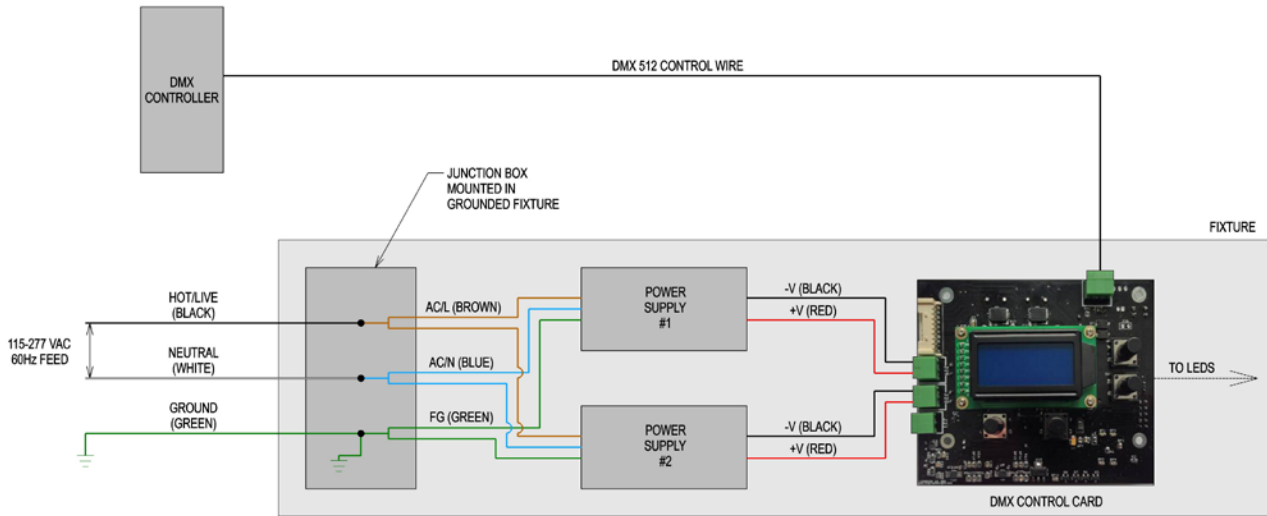
CONSTANT CONTROL



ANALOG (0-10V) CONTROL



DMX AND DMX/RDM CONTROL



6. Secure the top bracket to the mounting option as noted in the mounting kit instruction sheet. Note: recessed and yoke mountings will not require this step.
7. Secure the power and any data connections as noted in mounting instructions.
8. Install the Axceleron onto the top bracket by sliding the lower part of the Axceleron unit onto the top bracket.
9. Secure the Axceleron to the top bracket by reinstalling the screws that were removed in Step 3.
10. If required based on the mounting option, secure the safety harness to the Axceleron. **FAILURE TO ATTACH THE SAFETY CABLE TO A TIE-OFF CAPABLE OF SUPPORTING THE WEIGHT OF THE CAN RESULT IN FALLING, WITH THE POSSIBILITY OF PERSONAL INJURY OR DEATH. THE SAFETY CABLE SHALL NOT BE SHORTENED NOR ATTACHED WITH FASTENERS (SUCH AS "DOG CLIPS") THAT ARE NOT RATED FOR USE IN SECURING LOADS.**
11. Slide the housing over the Axceleron unit. Align the 2 mounting holes on the housing with the nut on the mounting bracket. Secure the housing to the unit with the (2) tapered screws. Ensure that when reinstalling housing that no wire is pinched or binding on housing and brackets.
12. Install Glare Reducer / Beam Filter options if included



13. Turn on power and test Axceleron for proper operation.

Overview

4-Channel LED driver board with 150 Watts maximum output. The Aquarii driver board gives full range dimming with step-less dimming curves emulating the dimming curve of an incandescent source. Step-less dimming is produced with standard Analog (0-10V) or 8-bit DMX512. User adjustable outputs of 75W, 100W, 125W and 150W.

Specifications

- ✦ 75W, 100W, 125W and 150W output.
- ✦ Controls: Analog (0-10V), DMX, DMX/RDM
- ✦ Programmable through on board LCD display
- ✦ Frequency adjustable
- ✦ Onboard LED PCB temperature monitoring Output Calibration

Control Panel - Conventions

The left button below the display selects “Menu” choices, the right button is for the “Enter” command and the two buttons on the side scroll through the choices in “Up” and “Down” functions. Through the control panel the user can set the DMX address, display information about the current operating status of the Axceleron and control the operational mode.

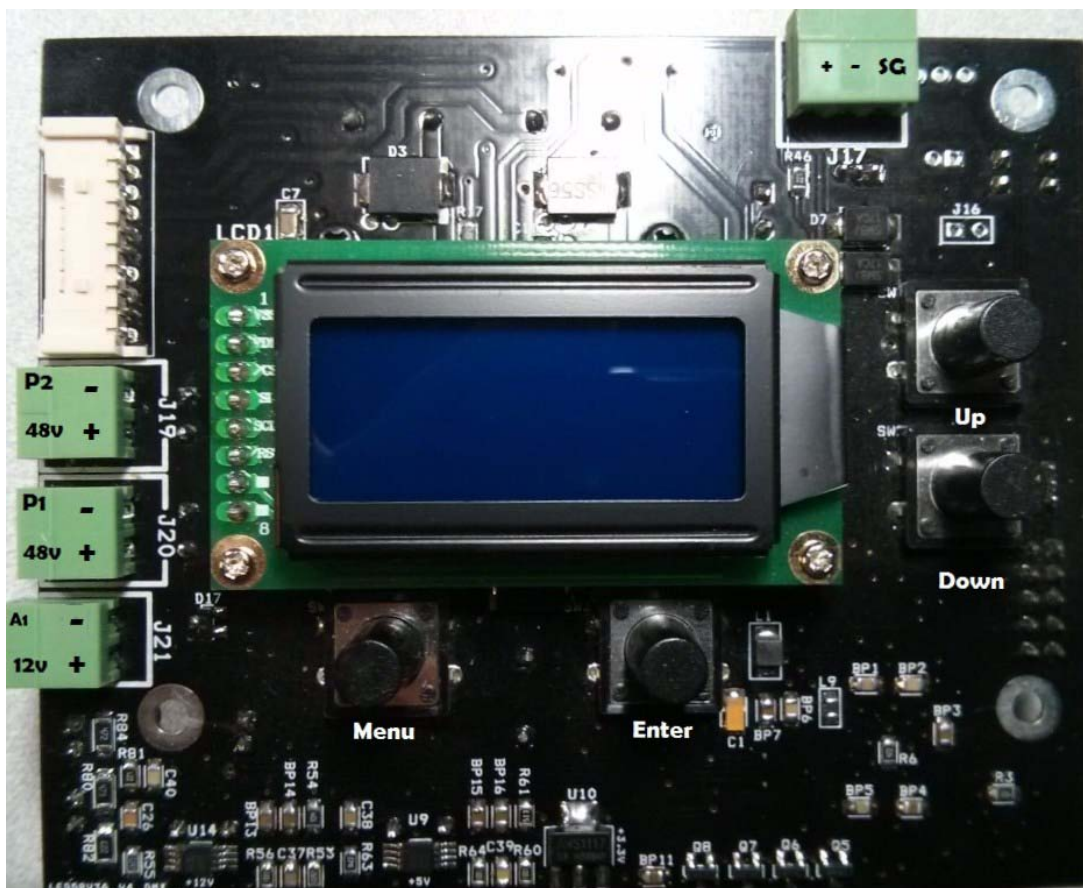
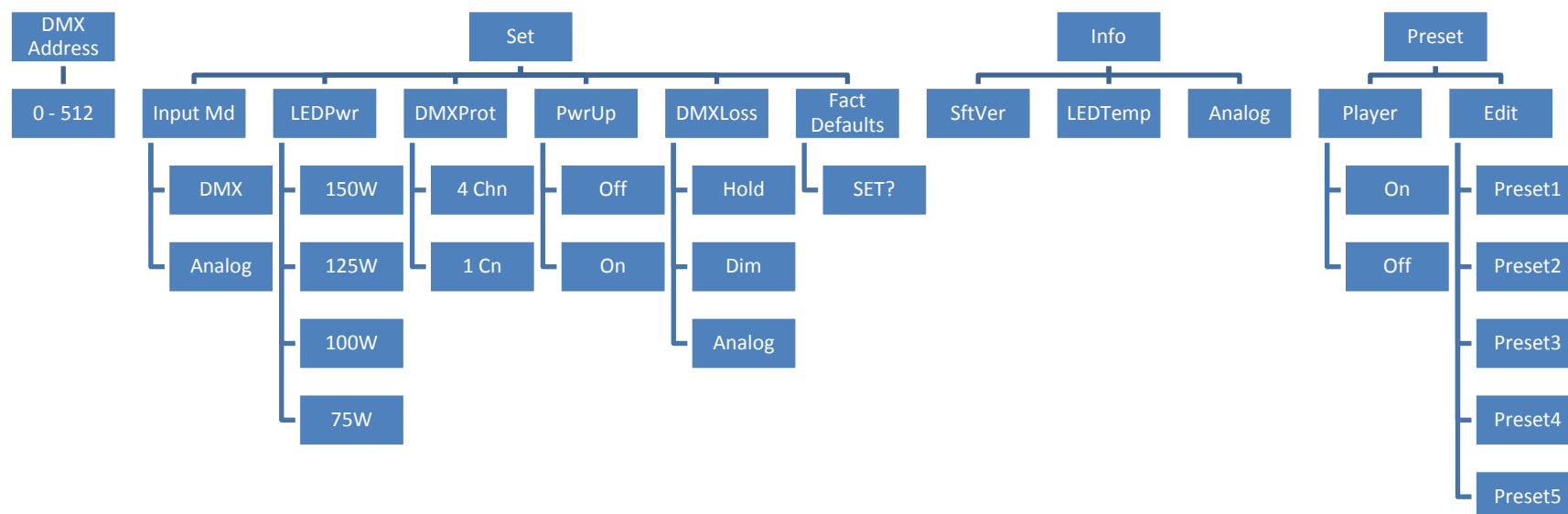


Figure 2 – Analog (0-10V), DMX, DMX/RDM Control Card

DMX AND DMX/RDM SOFTWARE MENU TREE



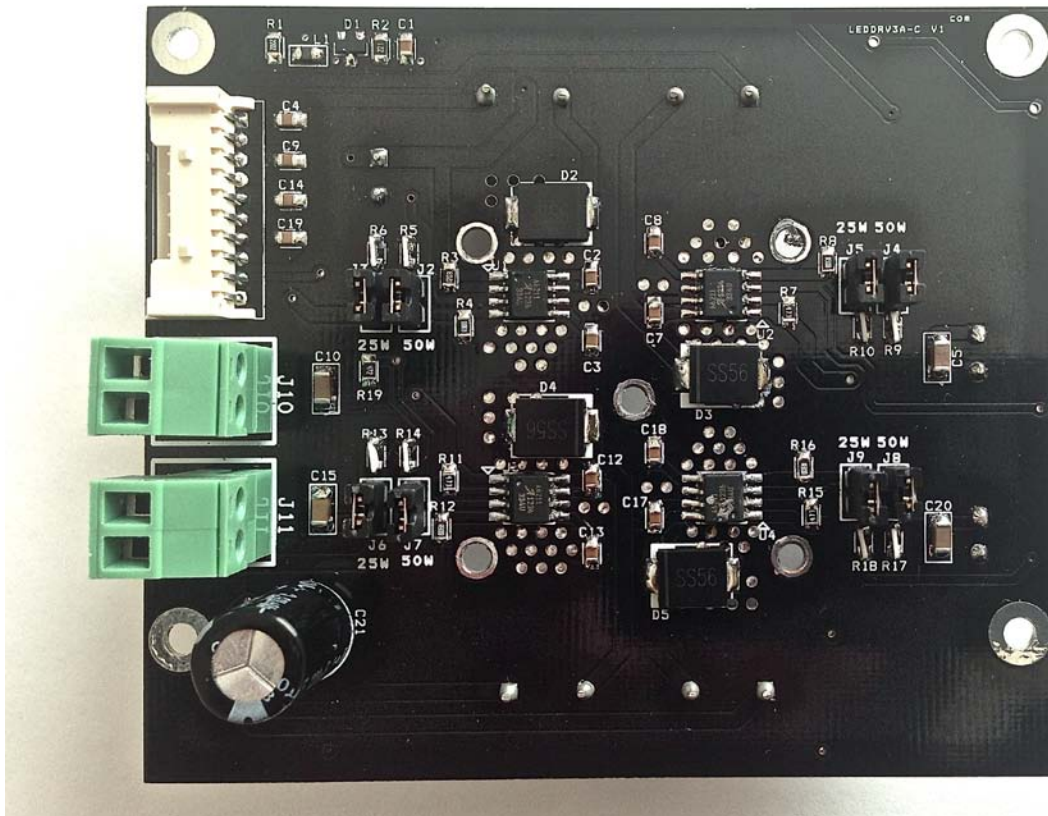


Figure 3 - Constant Control Card

The Constant Card is preset at the factory for “on/off” operation. It has no user modifiable parts or operations.

TROUBLESHOOTING

Should the Axceleron not operate or operate intermittently, the following table identifies some possible causes and corrective actions that can be performed in the field. All assessments of the Axceleron must be performed by an Aquarii Authorized technician.

If the Axceleron does not operate after the initial assessment/troubleshooting procedures are performed, please contact Aquarii's Customer Service Department and a representative will assist in resolving the problem accordingly.

Symptom	Possible Cause	Corrective Action
No light output	Power is off Bad wire connection Bad supply switch Dim lines are shorted	Check if power supply is on Check wiring connections Test or replace switch Verify no shorts in dim line
Fuse blows or circuit breaker trips	Crossed wires or a supply wire is grounding out	Check wiring connections

CARE AND MAINTENANCE



The fixture must be disconnected from the power supply before any internal maintenance is performed. Failure to do so may result in damage to the fixture and/or injury to the Aquarii authorized technician.

To maximize the appearance and performance of the Axceleron, periodically remove dust and debris from the surface and lower light diffuser. If excessive dust is present; disconnect power to the unit, remove the exterior housing, and safely vacuum interior components with a fine bristle covered nozzle. Re-secure housing and reconnect power to the unit.

SCHEDULE "A"

The following conditions must be met in order for Aquarii's warranty to become effective:

1. All invoices related to the Product under warranty must be paid in full.
2. The accompanying Warranty Registration Form must be returned within 30 days of invoice date. Failure to return the Warranty Registration Form will reduce the Warranty Period from 10 years to 3 years.
3. Purchaser must notify Seller in writing within 30 days of discovering a defect in the Product.
4. Product must be protected from significant electrical surge and must be in a location where ambient temperatures do not exceed 40°C.



AQUARII'S PRODUCT RETURN POLICY

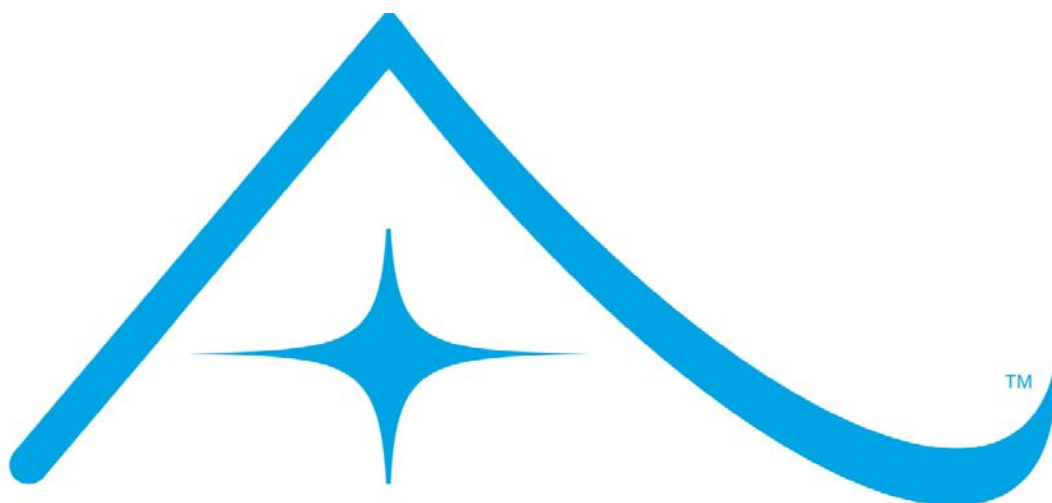
Before returning any product to Aquarii, please call customer service to receive an RMA number for your return. Product returned without an RMA will delay, or may void, any return credit.

Clearly note RMA number next to the address label on the shipping container and packing slip.

Please return all products "freight prepaid" unless instructed otherwise by customer service.

Please ship all Returns to the following address:

**AQUARII, INC.
c/o Product Returns
3195 Vickery Road
North Syracuse, New York, U.S.A. 13212**



Axceleron™ by AQUARIi

AXCELERON™ OPERATIONS MANUAL

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Note: the Axceleron™ is a high performance LED fixture and is designed and built to be extremely reliable in proper use. However, it is a precision instrument and must be treated as such. Rough handling, dropping the unit, etc. can result in damage to the LED array or the electronic components that drive it. Such treatment voids the warranty and will result in poor performance, reductions in longevity of the unit or complete failure. The following pages illustrate the handling and installation techniques designed to ensure long life and safe operation of your Axceleron™ units.

Please handle with care!

UNPACKING THE AXCELERON™

Check box for damage – if damaged, wet, or crushed contact Aquarii.



Figure 4 - Axceleron Shipping Container

Remove top foam packaging.

Use two hands on the top bracket and lift the Axceleron from the container.

If provided, confirm that the pre-assembled electrical cord (or whip) did not slide down the inside of the unit. Use care in extending cord (or whip), accordingly.

AXCELERON™ – INSPECTION

HOUSING REMOVAL

Gently place the Axceleron on its side on a clean and dust-free surface free of items that might scratch the housing. Remove the two housing screws and set aside for re-installation.

(Note - The 2nd screw is opposite the one shown.) When both screws are removed, you can pull the Axceleron engine from the housing. Once removed, gently place the Axceleron face (LED array) down on the clean surface to prepare it for installation.



Figure 5 – Housing Removal

Visually inspect unit for loose connections or damage to heat sink fins, cables, LED array, etc.

Screws that secure mounting plate

Heat sink

DC Power & Control cables to LED array

Connections to LED array

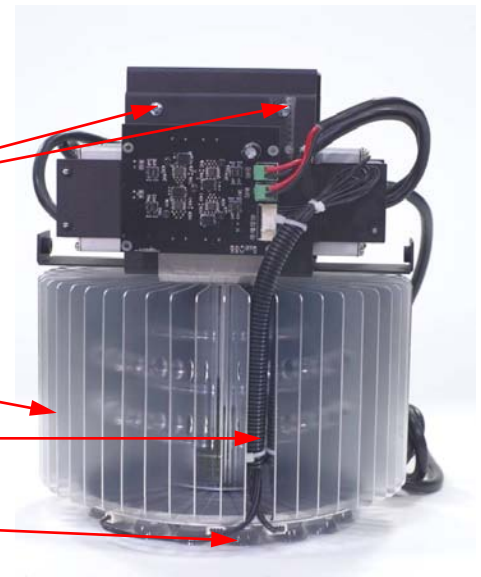


Figure 6 - Internal Components



Figure 7 - Power Supplies

The heart of the Axceleron is the LED engine.

Inspect for any damage to the LED array including the lenses (not applicable to 110° units), the circuit board and the connections to the DC power and control cables. Contact Aquarii immediately if any of the components of the LED array have been damaged in shipping. Do not install Axcelerons with damaged LED arrays.



Figure 8 - LED Array

POWER CONNECTIONS

Unscrew two (2) screw to remove cover for access to power feed connections.

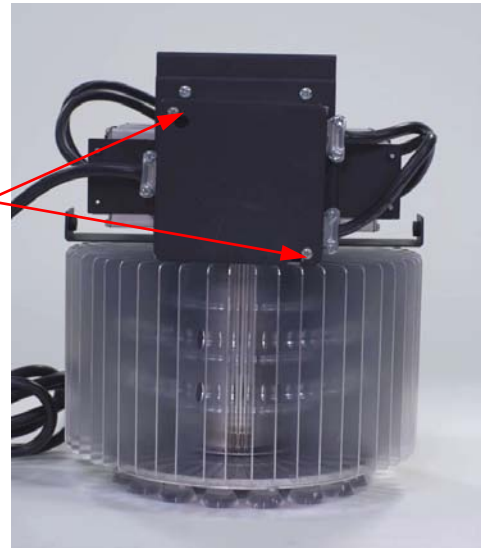


Figure 9 - Power Junction Box



Figure 10 - Power Junction Box
with Cover Removed

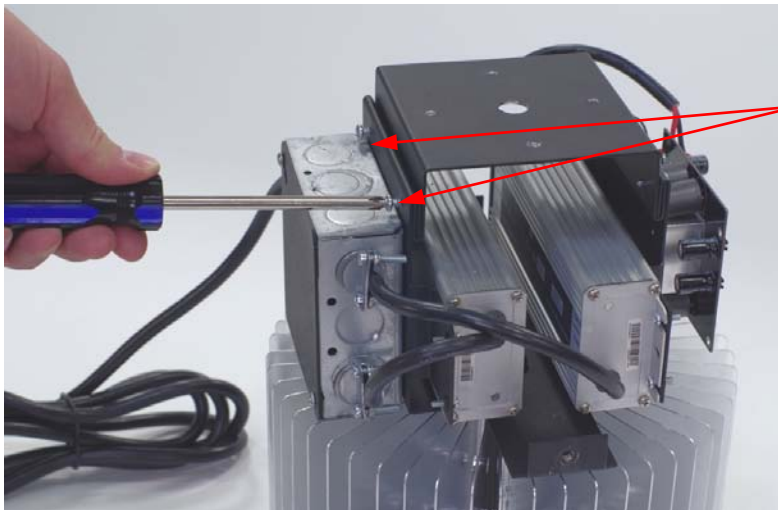
Mains feed terminations shown. If optional whip was ordered, these terminations were completed by Aquarii. Otherwise, field terminations are to be completed in the field by the installer.

Note - Picture shows optional whip installed for illustration of terminations required.

MOUNTING TECHNIQUES

The Axceleron has numerous mounting options: C-Clamp, Flush, Yoke, Pendant, Cable, Slope, and Recess. Each mount has been designed to provide a secure, dependable and easy-to-install method for suspending the Axceleron.

Where appropriate, the mounts have been shipped with safety cables. If safety cables have been supplied, it is the installer's responsibility to attach safety cable to hard points within house structure that are suitable for suspending the load of an Axceleron. Failure to do so or modification of the safety in a manner that reduces / eliminates its load capacity, violates the warranty and creates a serious hazard. If you have questions about the safe hanging of any Axceleron unit, contact Aquarii before installation.



Remove screws (two per side, four total) to detach mounting plate.

Save screws to re-secure the mounting plate.

Figure 11 - Top Bracket Removal

With the screws removed the mounting plate slides out and off the Axceleron. At this point it can be flush mounted to a junction box without the need to hold the weight of the unit while the plate is secured; or any of the other mounting methods (pendant, c-clamp, etc.) can be attached. Once the mount is secure, the Axceleron is simply slid into position, and the locking screws re-secured.

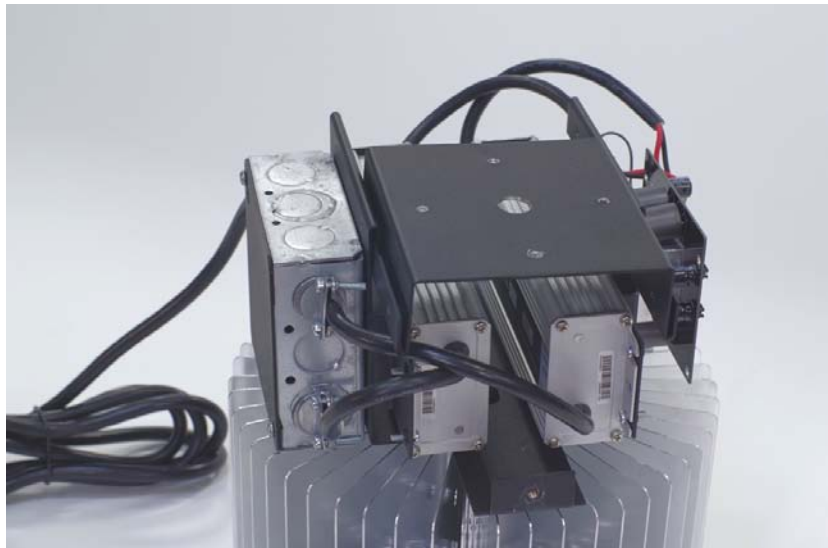


Figure 12 - Top Bracket Removal

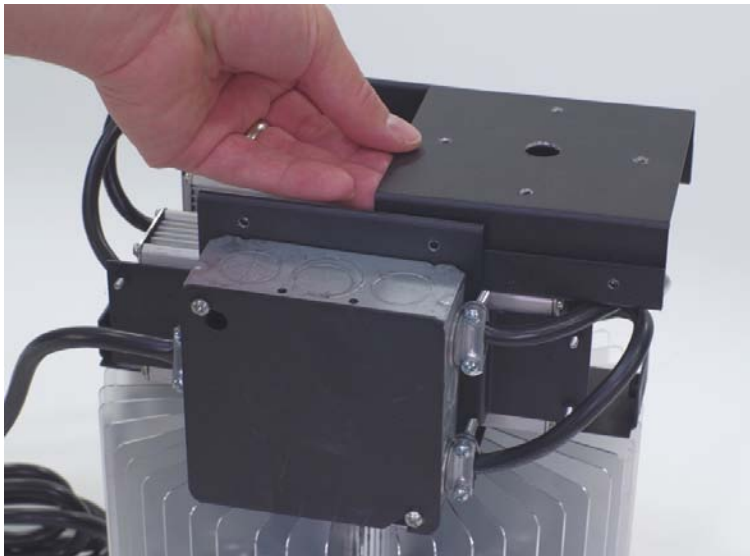


Figure 13 - Top Bracket Removal

Figure 14 shows our unique mirror J-sleeve mounting that makes it easy to install the Axceleron engine in place after the mounting plate is secured. The J-sleeve allows installers to have two hands on the engine and the mount while it is secured. It also allows installers to pre-fit the mounting plate and leave final installation of the engine until other construction has been completed. This reduces exposure of the Axceleron to harmful dust, impact and other potential hazards and simplifies coordination with other trades.



Figure 14 - Top Bracket with Pendant

Photo to the left shows the Axceleron sliding onto the mounting plate after the plate was attached to a pendant suspension. Power, control and safety cables omitted for clarity.

Example of pendant mount.

Power, control (data), safety cables and outer housing omitted for clarity.

1. Secure the top bracket to the mounting option as noted in the mounting kit instruction sheet. Note: recessed and yoke mountings will not require this step.
2. Secure the power and any data connections as noted in mounting instructions (within the Technical and Installation Manual). DMX connections are via direct connection to the control card, through the optional 5-pin XLR connectors (mounted on the top bracket) or via an optional whip supplied by Aquarii.
3. Install the Axceleron on to the top bracket by sliding the lower part of the Axceleron unit on to the top bracket



Figure 15 - Pendant Mount

4. Secure the Axceleron to the top bracket by reinstalling the screws that were removed in step 3.

5. If required based on the mounting option, secure the safety harness to the Luminaire.



FAILURE TO ATTACH THE SAFETY CABLE TO A TIE-OFF CAPABLE OF SUPPORTING THE WEIGHT OF THE CAN RESULT IN FALLING, WITH THE POSSIBILITY OF PERSONAL INJURY OR DEATH. THE SAFETY CABLE SHALL NOT BE SHORTENED NOR ATTACHED WITH FASTENERS (SUCH AS "DOG CLIPS") THAT ARE NOT RATED FOR USE IN SECURING LOADS.

6. Slide the housing over the Axceleron unit. Align the 2 mounting holes on the housing with the 1/4" nut on the mounting bracket. Secure the housing to the unit with the (2) tapered screws. Ensure that when reinstalling housing that no wire is pinched or binding on housing and brackets.

7. Install Glare Reducer / Beam Filter options if included

8. Turn on power and test Axceleron for proper operations.