

ARTEMIS SERIES - GL-01 SERIES  
LED GROW LIGHT  
USER MANUAL



# Preface

The document provides basic information on installation and operational instructions for a qualified, trained installer. These instructions provide information for the following product:

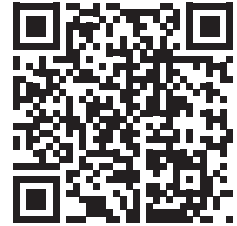
**AL-JW-GL01-U080-01:** 80 watt, 1 pod, 200 PPF( $\mu\text{mols/sec}$ ) 120-277 VAC w. 0-10V Dim, IP66 Rated.

**AL-JW-GL01-U320-04:** 320 watt, 4 pod, 800 PPF( $\mu\text{mols/sec}$ ) 120-277 VAC w. 0-10V Dim, IP66 Rated.

**AL-JW-GL01-U480-06:** 480 watt, 6 pod, 1200 PPF( $\mu\text{mols/sec}$ ) 120-277 VAC w. 0-10V Dim, IP66 Rated.

**AL-JW-GL01-U650-08:** 590 watt, 8 pod, 1480 PPF( $\mu\text{mols/sec}$ ) 120-277 VAC w. 0-10V Dim, IP66 Rated.

Additional product information can be found on our web site at [www.altmanlighting.com](http://www.altmanlighting.com) or by scanning the QR code to the right.



## Have a question regarding this manual?

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Should you have a suggestion or question regarding your Altman Lighting product, we would love to hear from you.

You can reach us at:

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## Our Commitment

Altman Lighting continually engages in research related to product improvement. New materials, production methods and design refinements are introduced into existing products without notice as a routine expression of the philosophy. For this reason any current Altman Lighting product may differ in some respect from its published description, but will always equal or exceed the original design specifications unless otherwise noted.

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Product Luminaire Installation & User's Manual  
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# Important Information

## Product Safety Notices

When using electrical equipment, basic safety precautions should always be followed including the following:



1. READ AND FOLLOW ALL SAFETY INSTRUCTIONS.
2. Do not mount near gas or electric heaters.
3. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
4. Operate only in approved environments. Do not operate outside unless product is designed to do so.
5. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
6. Do not use this equipment for other than intended use.
7. Refer service to qualified personnel.

SAVE THESE INSTRUCTIONS.

## Warnings



**WARNING:** You must have access to a main circuit breaker or other power disconnect device before installing any wiring. Be sure that power is disconnected by removing fuses or turning the main circuit breaker off before installation. Installing the device with power on may expose you to dangerous voltages and damage the device. A qualified electrician must perform this installation.

**WARNING:** Refer to National Electrical Code® and local codes for cable specifications. Failure to use proper cable can result in damage to equipment or danger to personnel.

**WARNING:** This equipment is intended for installation in accordance with the National Electric Code® and local regulations. Before any electrical work is performed, disconnect power at the circuit breaker or remove the fuse to avoid shock or damage to the control. It is recommended that a qualified electrician perform this installation.

**WARNING:** This Lighting Fixture IS NOT for residential installation or use.

**WARNING:** The structure where fixture(s) are to be mounted must be capable of supporting the weight of the fixture and its accessories. This fixture is for temporary, portable mounting only.

**WARNING:** The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

**THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.**

**CE PRODUIT DOIT ÊTRE INSTALLÉ SELON LE CODE D'INSTALLATION PERTINENT, PAR UNE PERSONNE.**

**CONSULT A QUALIFIED ELECTRICIAN TO ENSURE CORRECT BRANCH CIRCUIT CONDUCTOR.  
CONSULTER UN ÉLECTRICIEN QUALIFIÉ POUR VOUS ASSURER QUE LES CONDUCTEURS DE LA  
DÉRIVATION SONT ADÉQUATS.**

## FCC Notice

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

## Altman Lighting Product Warranty

### Warranty Terms

Altman Lighting, Inc., a subsidiary of Altman Stage Lighting Company, Inc., herein referred to as Altman, warrants each new product (except for spare parts or products Altman does not manufacture) for a period of FIVE (5) years and ONE (1) day from date of shipment to correct by repair or replacement any part defect due to faulty material or workmanship.

Altman warrants for NINETY (90) days any spare part it manufactures. On spare parts or products Altman does not manufacture, including, but not limited to, lamps, sockets, lenses, roundels, electronics, ignitors, ballasts, etc.; Altman will grant the same warranty given Altman by its vendors. Altman assumes no responsibility for damage or faulty performance caused by misuse, improper installation, careless handling or where repairs have been attempted by others. This warranty is in lieu of all warranties or guarantees expressed or implied and no representative or person is authorized to assume Altman any other liability with the sale of Altman's products.

Altman assumes no responsibility for damage or faulty performance caused by misuse, improper installation, careless handling or where repairs have been attempted by others.

This warranty is in lieu of all warranties or guarantees expressed or implied and no representative or person is authorized to assume Altman any other liability with the sale of Altman's products.

### Warranty Service

The customer must receive a Return Material Authorization (RMA) number prior to return, return shipment must be visibly marked with the RMA number and the product must be returned (shipping prepaid) to the factory at:

1400 East. 66th Avenue  
Denver, CO 80229 USA  
+1-303-500-7072  
[support@altmanlighting.com](mailto:support@altmanlighting.com)

The return must be within THIRTY (30) days of receiving the RMA from Altman. Altman warrants for NINETY (90) days any spare part it manufactures. On spare parts or products Altman does not manufacture, such as lamps, sockets, lenses, roundels, electronics, ignitors, ballasts, etc. Altman will grant the same warranty given Altman by its vendors.

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# Product Overview

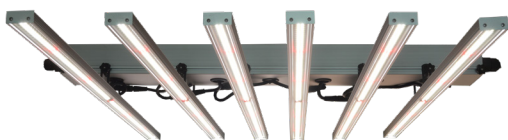
## Components



AL-GL01-U080-01



AL-GL01-U320-04



AL-GL01-U480-06



AL-GL01-U650-08

## Ordering Information

Part Number	LED Engine	LED Watts	PPF ( $\mu\text{mol/s/sec}$ )	EFF ( $\mu\text{mol/J}$ )	Voltage	Control
<b><u>AL-JW-GL01-U650-08</u></b>	8 Pod	590 watt	1480	2.5	120-277V	0-10V
<b><u>AL-JW-GL01-U480-06</u></b>	6 Pod	480 watt	1200	2.5	120-277V	0-10V
<b><u>AL-JW-GL01-U320-04</u></b>	4 Pod	320 watt	800	2.5	120-277V	0-10V
<b><u>AL-JW-GL01-U080-01</u></b>	1 Pod	80 watt	200	2.5	120-277V	0-10V

*Note: AL-GL01 series includes two (2) ratcheting / locking height adjustment tethers for hanging installation*

## Included Accessories

*Note Suspension: The ratcheting pulley system provided is for use only with the AL-GL series of luminaires and is designed and rated for the weight of each. These units are to be utilized for ratcheting height adjustments. When suspending the unit over long periods of time additional safety support mechanisms should be employed as the ratcheting system is intended for temporary use. When suspending items over head a 10x's safety rating should always be employed.*



Ratcheting Pulley

# Installation and Setup

## Power Requirements



Before performing any field wiring, refer to and read the warnings contained in “Important Information” on page 4.



Luminaire not suitable for covering with thermally insulating material.



Please carefully read the User Manual before installation, and make sure there is no damage on the AC input cable and the connector.



The light source contained in this luminaire shall only be replaced by the Altman Lighting or Altman Service Center



Working temperature: -20°C~45°C, storage temperature: -30°C~60°C

## Connecting Power for GL01 - 1 Pod Unit

The GL01 1 Pod Light is supplied with a one-foot, conductor bare end jacketed cable for connecting power. This tail can be connected to any single-phase 120-277V power source. The unit can also be wired to a 0-10v circuit dimmer which will allow for the dimming of the luminaire

Input	
WIRE COLOR	PURPOSE
Brown	Main / (L)ine
Blue	(N)eutral
Green	Ground / Earth

Output	
WIRE COLOR	PURPOSE
Purple	Dim +
Gray	Dim -
Pink	Voltage/Aux +
Black/White	Voltage/Aux -

## Mounting for GL01 - 1 Pod Unit

Step 1: Install the suspension line to the mounting points on the led fixture. Figure 1

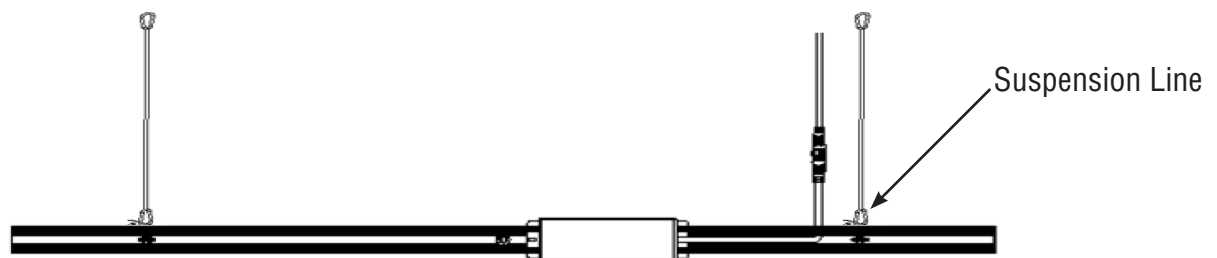


Figure 1



## Connecting Power for GL01 - 4 / 6 / 8 Pod Units

The GL01 Light is supplied with a two-foot, five conductor bare end jacketed cable. This tail can be connected to any single-phase 120-277V power source. The unit can also be wired to a 0-10v circuit dimmer which will allow for the dimming of the luminaire. Figure 2

WIRE COLOR	PURPOSE
Brown	Main / (L)ine
Blue	(N)eutral
Green	Ground / Earth
White	Dim -
Black	Dim +

**Figure 2**

## Mounting for GL01 - 4 / 6 / 8 Pod Units

Step 1: Take the Led Driver and lay it down on its top. Figure 3



**Figure 3**

Step 2: Loosen the Plastic Screws and then attach the LED strip into the loosened screw cam. Figure 4

Step 3: Adjust the position of the led strip on the led driver box



**Figure 4**



## Mounting for GL01 - 4 / 6 / 8 Pod Units

### Step 4: Plug in LED Strip to Driver Box. Figure 5

Note: There will be 8 cables coming out of the LED Driver for 8 LED Strips. Each of these plugs will correlate back to each of the 8 LED strips



**Figure 5**

### Step 5: Install the suspension line and fix it at both ends of the luminaire. Figure 7

Step 6: Attached the ratcheting pulley to an over head structure capable of supporting 10x's the weight of the luminaire.

*Note: The Pulley can be attached to the luminaire or the overhead structure. The Ratcheting lock will work in either direction.*

Step 7: Adjust the height of the luminaire by pulling on the lead line of the ratcheting pulley. This will “click” as you pull and will lock into place.

*Note: To release tension depress the lock release on the ratcheting pulley: Note please make sure that the luminaire is supported when releasing the tension on the ratcheting pulley.*



**AL-JW-GL01-U320-04**



**AL-JW-GL01-U480-06**



**AL-JW-GL01-U650-08**

*Note Suspension: The ratcheting pulley system is for use only with the AL-GL series of luminaires and is designed and rated for the weight of each. These units are to be utilized for ratcheting height adjustments. When suspending the unit over long periods of time additional safety support mechanisms should be employed as the ratcheting system is intended for temporary use. When suspending items over head a 10x's safety rating should always be employed.*

## Cleaning and Care



**WARNING!** All cleaning should be performed with power completely removed from the luminaire. Never remove protective covers when luminaire is powered. Wear appropriate protective eye wear and gloves when cleaning the fixture. All service and maintenance, other than described herein, should be performed by a qualified technician or Authorized Service Center. **AT NO TIME SHOULD THE LED BE TOUCHED.**

### Special Cleaning and Care Instructions

Being a solid-state fixture, and unlike most fixtures, the GL-01 Light requires very little routine maintenance by the user



**WARNING!** Under no circumstances should ammonia-based cleaners, acetone, or other harsh solvents be used on or near the GL-01 Fixture. These types of cleaners or solvents can permanently damage the fixture.

If you have any questions regarding the use or care of your GL-01, please contact Altman Lighting technical support ([support@altmanlighting.com](mailto:support@altmanlighting.com)) or your local Authorized Dealer.

**IMPORTANT!** The Altman Lighting GL-01 Light is a solid state, convection cooled luminaire. As with any solid state luminaire it is important that these units not run in a continuous 24/7 operation but be allowed sufficient OFF time during their operation.

### Service and Maintenance

**IMPORTANT!** For all other service and maintenance issues, please contact your local Altman Lighting office at [support@altmanlighting.com](mailto:support@altmanlighting.com)



**WARNING!** Disassembly (other than as described herein), alterations, unauthorized service, etc. will void the product warranty. Contact your local Altman Lighting office

# Troubleshooting

## Troubleshooting Guide

Description	Symptom	Possible Cause / Remedy
No Light Output	Fixture will not produce Light output but has power.	<ul style="list-style-type: none"> <li>Unit Setting is at 0% at the 0-10V controller</li> <li>No power going to the unit</li> </ul>
No Power at Luminaire	Luminaire does not power up.	<ul style="list-style-type: none"> <li>Circuit is not energized, Verify circuit power and circuit breaker has been turned on.</li> <li>Not Plugged in, ensure viable power source and unit is plugged in. Verify power cabling is wired correctly.</li> </ul>
One LED Strip is not coming on	LED is not coming on	<ul style="list-style-type: none"> <li>Try plugging the LED into another port on the LED Driver</li> </ul>
Luminaire is not dimming correctly	The luminaire is not dimming or dimming correctly	<ul style="list-style-type: none"> <li>Try swapping Driver with another one</li> <li>Check to see if 0-10V controller is working</li> </ul>

# Technical Specifications

AL-JW-GL01-U650-08

<b>Materials:</b>	Construction is corrosion-resistant materials and hardware.
<b>Control Dimming:</b>	0-10
<b>Light Engine:</b>	64 LED Array Per Pod
<b>Max Par 18":</b>	760 (Center of Array)
<b>LED Rated Life:</b>	LED arrays are rated for >50,000 hours of operation.
<b>Input Voltage:</b>	120 - 277 VAC 50/60 Hz
<b>Wattage:</b>	603 Max output
<b>Current Draw:</b>	4.9A at 120VAC / 2.17A at 277VAC
<b>Quiescent Load:</b>	0.00166 AMP (.2 Watts) @ 120 VAC
<b>Power Factor:</b>	≥ 0.9
<b>Power Through:</b>	Up to 4 Units at 120VAC* Up to 8 units at 277 VAC* *note: power through to be site determined via wire size, length of run, voltage drop, and circuit size
<b>LED Engine Cooling:</b>	Passive w. proprietary thermal mitigation system
<b>Environment:</b>	-40 to 45 degrees C (-40 to 113 degrees F) IP66 Wet location rated
<b>Weight:</b>	14.78 lbs. (6.704 Kg.)
<b>Body Color:</b>	Silver
<b>Compliance:</b>	cETLus listed for indoor/outdoor use and CE marked DLC (QP1) Listed
<b>Warranty:</b>	5 Years and 1 Day
<b>Support:</b>	Supported Forever - Free phone and online. Tech support for the life of your product.