

SPL Sports Light - 16in (500W Wattage Selectable)



WARNING/ADVERTENCIA/AVERTISSEMENT

To reduce the risk of electrical shock, fire, or injury to persons; read and follow all warnings and installation instructions before installing. All installation should be performed by a qualified electrician.

Risk of Electric Shock

Ensure power is off before installation or inspection. All wirings are performed in accordance with Electrical Code and local electrical code.

Risk of Fire

Fixtures are rated for use in 120-277V, 50-60Hz protected circuit and 90°C rated supply wire.

Para reducir el riesgo de descarga eléctrica, incendio o lesiones a personas, lea y siga todas las advertencias e instrucciones de instalación antes de realizarla. Toda instalación debe ser efectuada por un electricista cualificado.

Riesgo de descarga eléctrica

Asegúrese de desconectar la corriente antes de la instalación o inspección. Todos los cableados se realizan de acuerdo con el Código Eléctrico y el código eléctrico local.

Riesgo de incendio

Las luminarias están clasificadas para su uso con 120-277 V, circuitos protegidos de 50-60 Hz y cables adecuados para 90°C.

Lisez et suivez les instructions d'installation et les avertissements avant l'installation. Toute l'installation doit être exécutée par un électricien qualifié, pour réduire les risques de choc électrique, de feu ou de blessures corporelles.

Risque de choc électrique

Assurez-vous que le courant soit coupé avant l'installation ou l'inspection et que tout le câblage soit effectué en conformité avec le code d'électricité et le code local d'électricité.

Risque de feu

Les luminaires sont conçus pour une utilisation de 120 à 277 V, pour un circuit protégé de 50 à 60 Hz et pour une source d'alimentation de 90°C.

FOR YOUR SAFETY

While performing installations described, gloves, safety glasses or goggles should be worn.

PARA SU SEGURIDAD

Mientras realice las instalaciones descritas, se recomienda el uso de guantes y gafas de seguridad.

POUR VOTRE SÉCURITÉ

Vous devriez porter des gants et des verres de protection lors des installations détaillées.

To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

Do not alter, relocate, or remove wiring, lampholders, power supply, or any other electrical component.

SUITABLE FOR WET LOCATIONS.

Para evitar daños en el cableado o abrasiones, no exponga el cableado a hojas de metal laminado u otros objetos cortopunzantes.

No altere, reubique o elimine cables, portalámparas, tomacorriente o cualquier otro componente eléctrico.

APTO PARA LUGARES HÚMEDOS.

Pour prévenir les dommages ou l'abrasion, ne pas mettre en contact le câblage avec des bords de plaques de metal ou tout autre objet coupant.

Ne pas modifier, délocaliser ou enlever du câblage, des supports de lampes, une source d'alimentation ou tout autre composant électrique.

CONVIENT AUX ENDROITS HUMIDES.

Follow all applicable safety procedures and use Personal Protective Equipment such as hardhats, safety glasses, reflective vests, electrical safety gloves, fall protection equipment and safety toe boots during the installation, operation, and maintenance of the luminaire. FAILURE TO FOLLOW THIS WARNING MAY LEAD TO DEATH, SEVERE INJURY, OR PROPERTY DAMAGE.

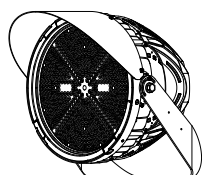
Risk of eye injury! Eye protection is required at all times during the installation, operation, and maintenance of the luminaire. The high intensity light produced by the luminaire can cause severe damage to the eye if viewed directly at close range. Avoid being in front of a luminaire that is on or wear suitable light blocking protective eyewear such as welding goggles.

Store luminaires in a clean, dry place, protected from dirt, water, and sunlight. See table for required storage and operating conditions:

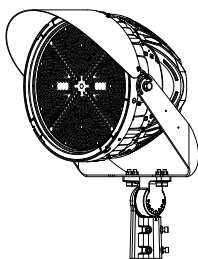
Storage Temperature	Operating Temperature	Humidity
40°F to 167°F	-20°~131°F	5% to 95% non-condensing

INSIDE THE BOX

500/400/300W
Wattage selectable version



Yoke Mount



Slip Fitter (optional)



SCAN ME

Plusrite USA
2000 S. Grove Ave, Bldg B
Ontario CA 91761

T:909-930-6868
T:888-758-7443
F:909-930-9988

www.naturaLED.com

INSTALLATION/INSTALACIÓN

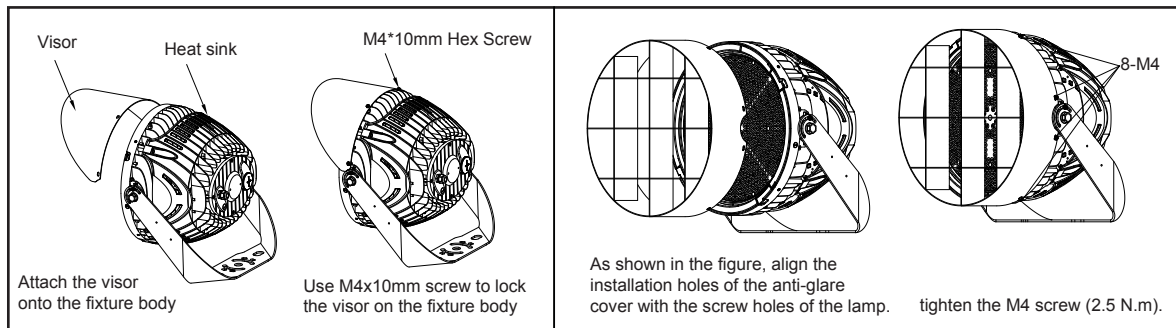
Disconnect the power before installation / Desconecte la alimentación antes de la instalación / Débranchez l'alimentation avant l'installation

WARNING:

Please read the manual carefully before installation. Power off before installation. Please authorize only a qualified person or professional engineer to install the fixture. Before installation, please check if the local voltage range corresponds with working voltage of the fixture. If the fixture is damaged, it should be replaced by the supplier, a service agent or a qualified person. Please keep the fixture away from fire, electric shock, and/or vibration.

Step 1: Attach the Visor

Installation of anti-glare hood



Step 2: Install Slip-fitter bracket

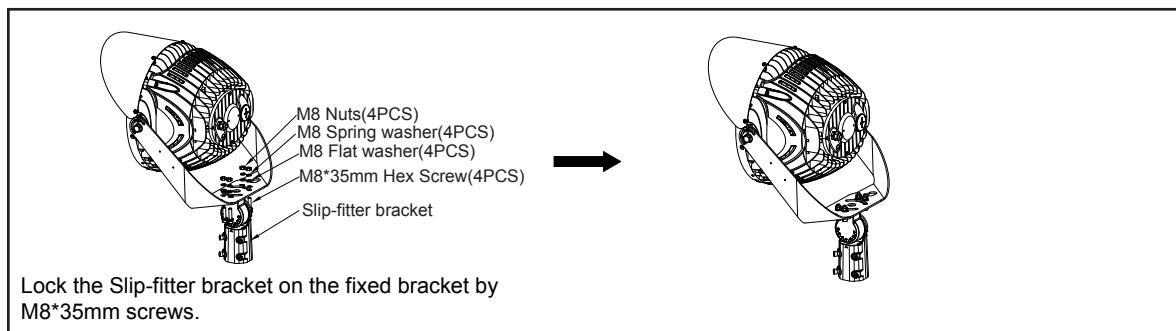


Figure 1. Visor Attachment

Step 2: Mount the Luminaires

1. Insert M20 bolts and plain washers onto bracket
2. Align rotatable bracket with mounting structure
3. Secure bracket, bolts, plain & lock washers with mounting structure
4. Tighten the nuts hand tight so mounting structure is secure but do not fully torque nuts until desired aiming is achieved

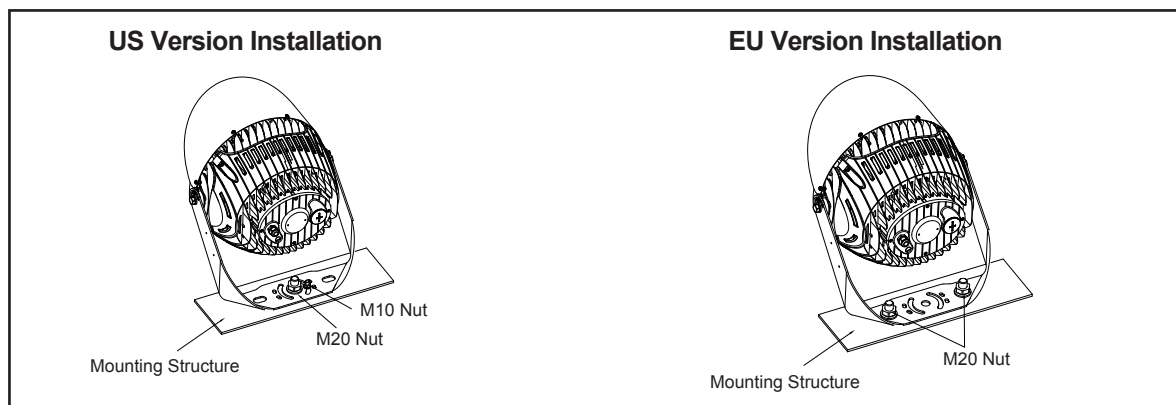
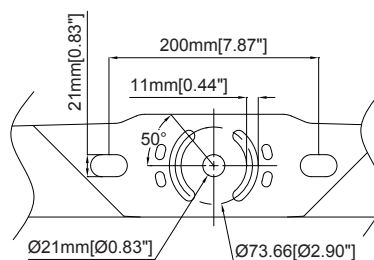


Figure 3. Standard Mounting

Step 3: Aim the Luminaires

Aiming the luminaire is a critical part of the led lighting solution to ensure that light is evenly distributed on the playing surface. There are two basic methods to properly aim a sports venue - Precision Laser Aiming by Coordinated, and Orient-Tilt.

Orient-Tilt

This technique involved turning the luminaire to predetermined angles before the lighting pole is lifted up and set in place. The Orient angle refers to the direction the luminaire faces in the Z-plane. Mount the luminaire to the structure but leave the mounting nut slightly loose to allow spinning flexibility about the mounting bolt.

Tilt angle refers to the direction the luminaire faces in the Y-plane. When the luminaire is securely mounted to the structure so that the mounting bracket does not move but the side Hex and Set screws are loosened, the fixture may rotate up inside the mounting bracket. Set the luminaire Tilt angle by rotating the fixture relative to the luminaire mounting structure.

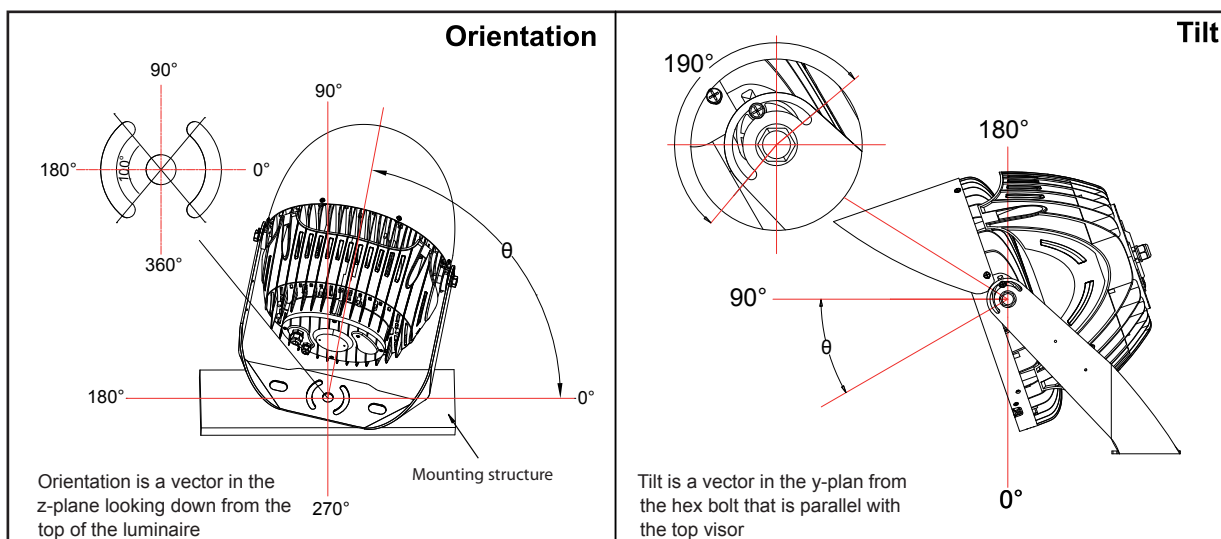


Figure 4. Orient and tilt

Electrical Load

System Wattage (W)	Current (A)					
	120V	208V	240V	277V	347V	480V
300	2.75	1.59	1.38	1.19	0.95	0.69
400	3.67	2.12	1.83	1.59	1.27	0.92
500	4.58	2.64	2.29	1.99	1.59	1.15

EPA Rating Information (ft²)

Wattage (W)	Front	Side	Top
300/400/500	1.28	0.85	1.36

Alternative Installation

(Applicable only to 300/400/500W models)

1. Attach the fixture on the slipfitter to the pole
2. Tighten the screw to secure the fixture to the base
3. Adjust the fixture accordingly to the desired angles
4. Tighten the screw on the slipfitter to lock in position

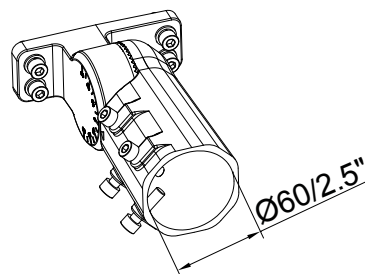


Figure 5. Slipfitter

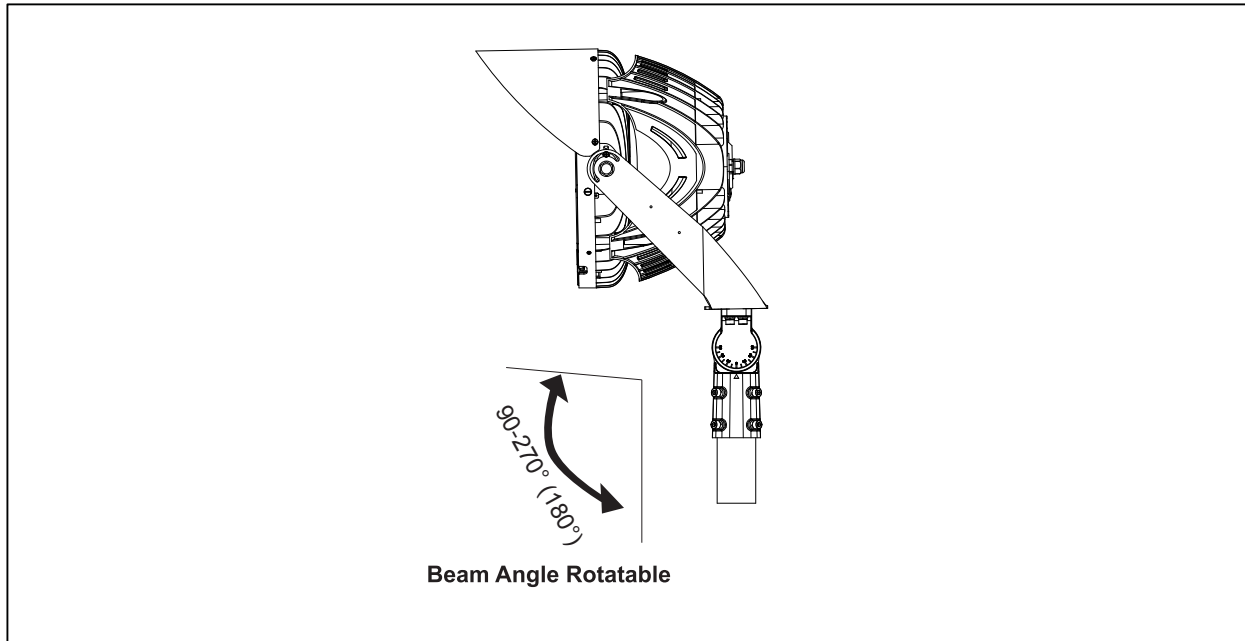


Figure 6. Pole Mounting

Power Wiring Connections

⚠ WARNING

Always turn power to fixture OFF before performing any work on control wiring. Turn transmitters off before working on main control lines. Performing any work on control connections while fixtures are receiving the signal may result in transient or fluttering control signals which can cause damage to the luminaire. FAILURE TO FOLLOW THIS WARNING MAY LEAD TO LUMINAIRE INTERNAL DAMAGE AND FAILURE.

⚡ Wiring Diagram

			label
Black	-- L --	→	L L
White	-- N --	→	N N
Green		→	⊕ GND ⊕ GND
Purple	-- DIM (+) --	→	
Pink	-- DIM (-) --	→	0-10V

Figure 7. Wiring Connections

Fasten safety cable

safety cable can be ordered separately as an accessory.

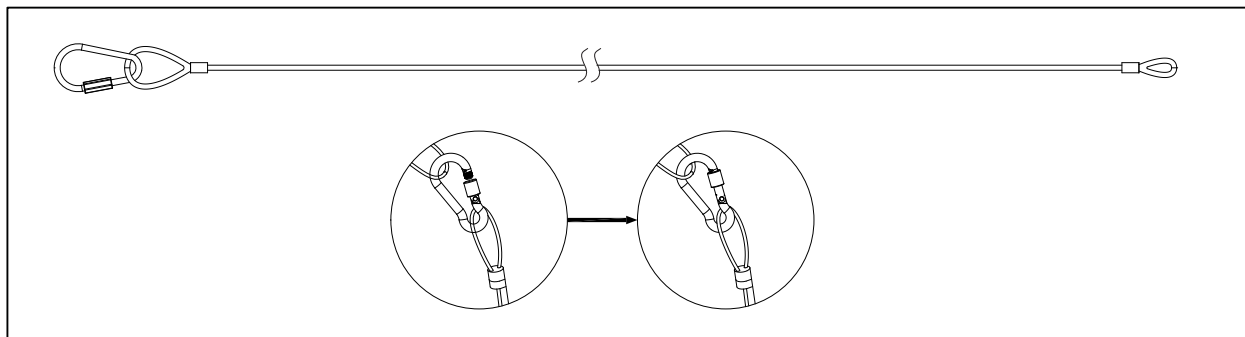


Figure 8. safety cable

⚠ WARNING

1. No sharp edges on the interface (bracket or hole) of mounting side.
2. The safety chain must be replaced immediately if any of the below scenarios occur:
 - a. The safety chain was stretched at any time due to luminaire falling;
 - b. Part of steel wire is broken or frayed;
 - c. The safety chain is designed to protect the luminaire from falling, but the luminaire should not be suspended for a long time.

For installations over 3m height:

secondary A safety system application is mandatory, which is appropriated for the luminaire load.
(e.g. safety cable)

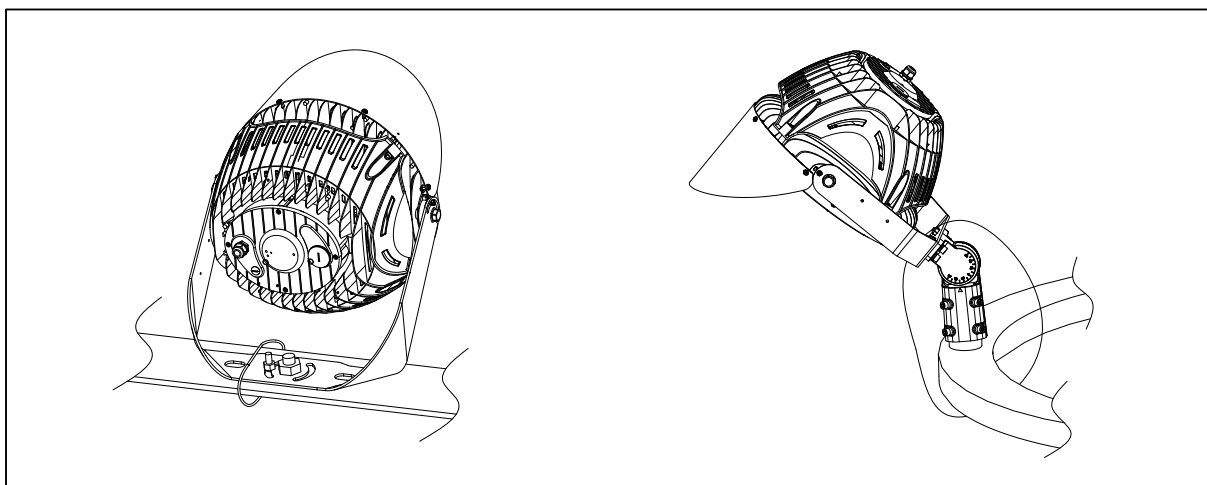


Figure 9. safety cable Installation

Laser Aiming

Precision Laser Aiming by Coordinates:

Laser aiming is the most effective and preferred technique for aiming sports lighting. This method uses a laser mounted to the luminaire to point the fixture at a predetermined point on the playing surface using (X,Y) co-ordinates. Unless otherwise noted, aiming coordinates on photometrics or project installation drawings are based on the origin (0,0,0) placed at center field, court, or ice. All dimensions from that point are in feet along the playing surface unless otherwise noted.

⚠ WARNING

NEVER point the aiming laser at any person or animal as it can cause permanent damage to eyes. Use laser only for floor aiming fixtures as directed. **FAILURE TO FOLLOW THIS WARNING MAY LEAD TO SEVERE INJURY.**

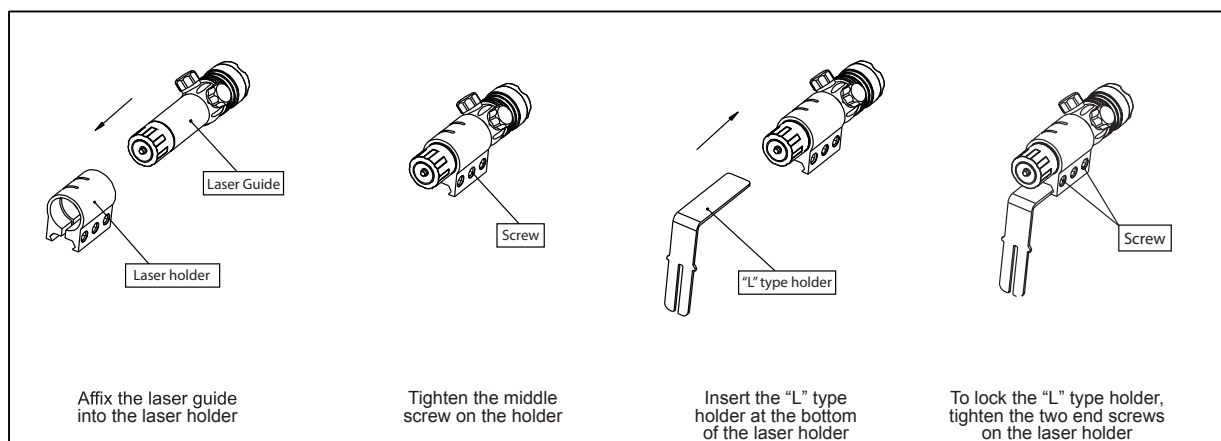


Figure 10. Laser Components

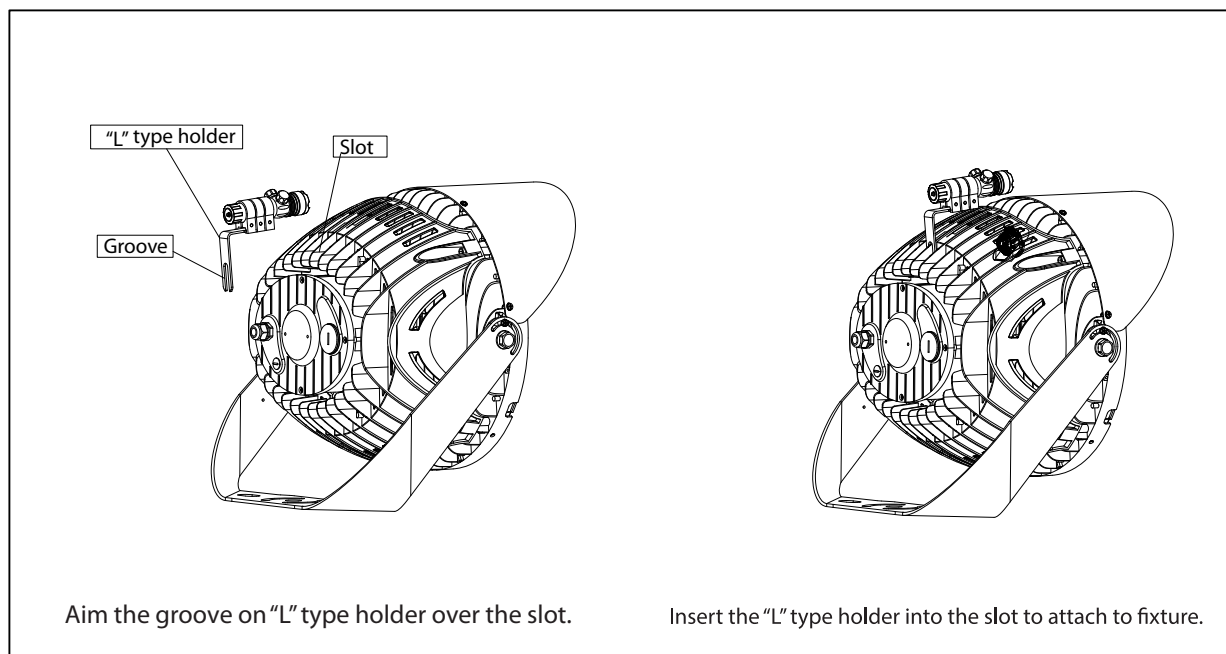


Figure 11. Laser Installation

Accessories Per Unit

Mounting Type	Accessory	Specifications	Quantity	
			US	EU
	Hex Head Screws	3/4-10 Thread length 2-3/4 Stainless Steel 304	1	2
	Plain Washers	M20	2	4
	Spring washer	M20	2	4
	Nuts	3/4-10	1	2
	Hex Head Screws	3/8-16 Thread length 2-3/4 Stainless Steel 304	1	
	Plain Washers	M16	2	
	Spring washer	M16	2	
	Nuts	3/8-16	1	



Screws and washers are not included in the package!

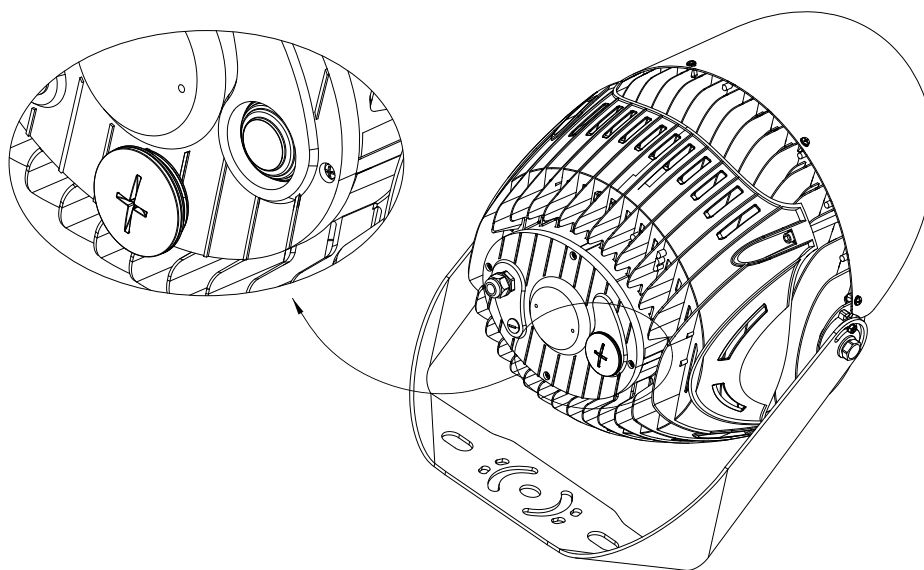
Wattage selectable instruction

3-IN-1 POWER ADJUSTABLE

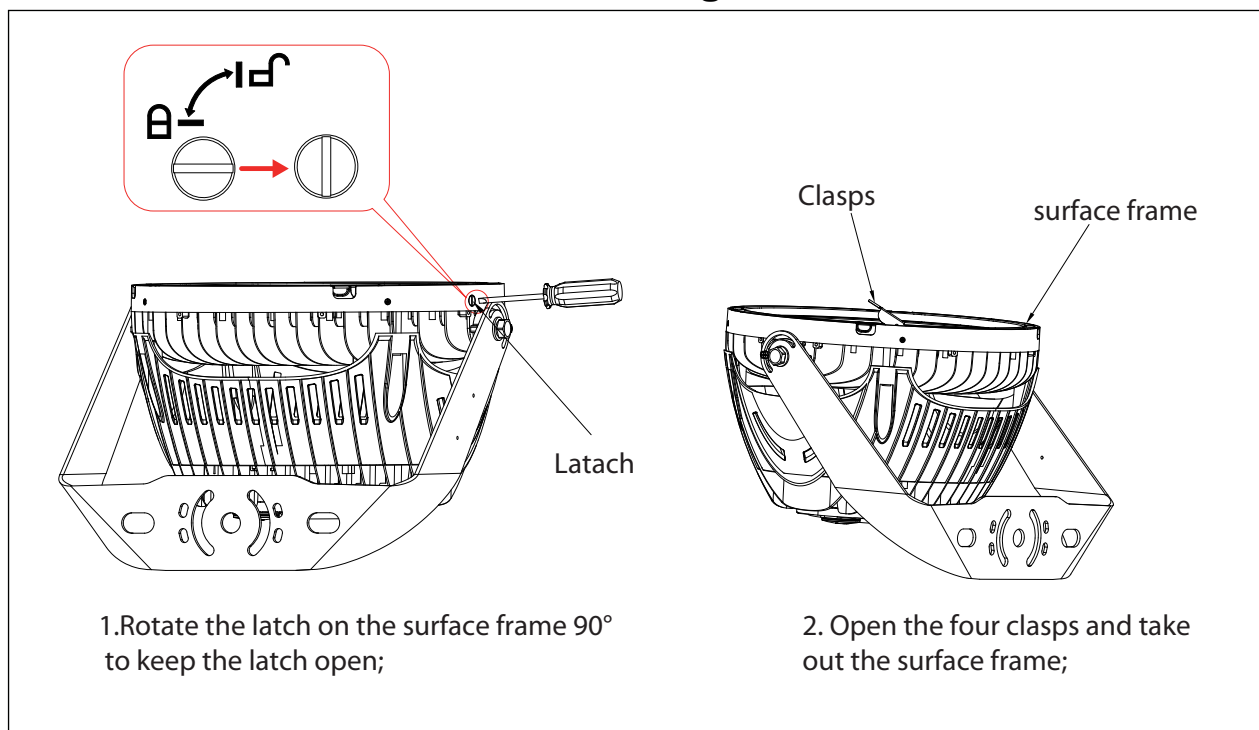
Wattage Tunable:

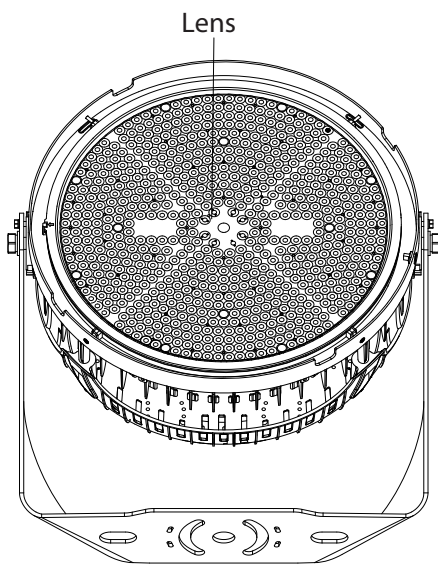
S: 300W-400W-500W

S1: 400W-500W-600W

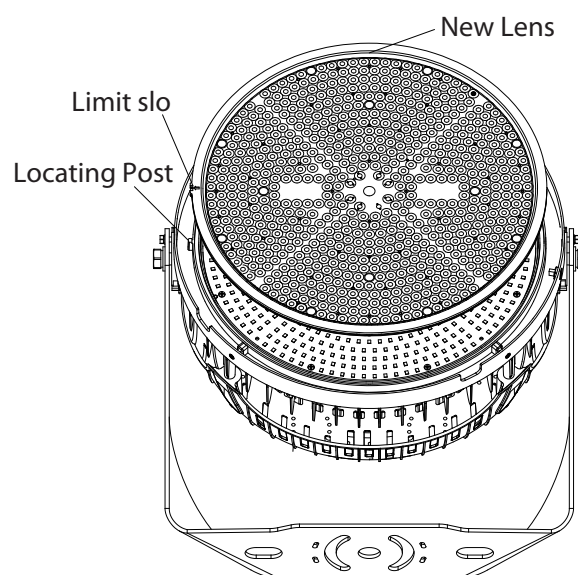


Installation instructions for interchangeable lenses

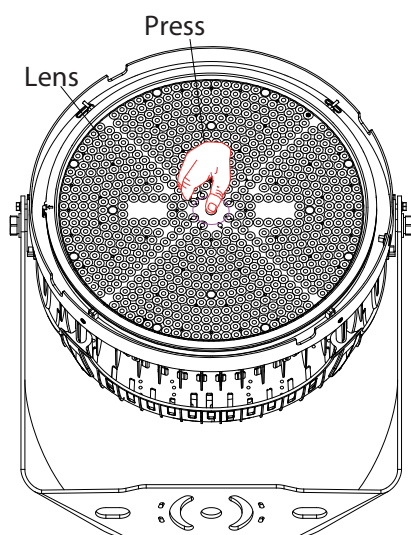




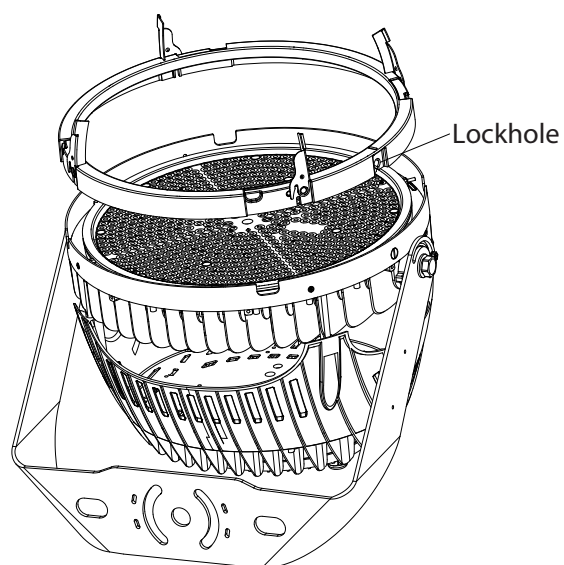
3. Hold the edge of the lens, Take the lens out;



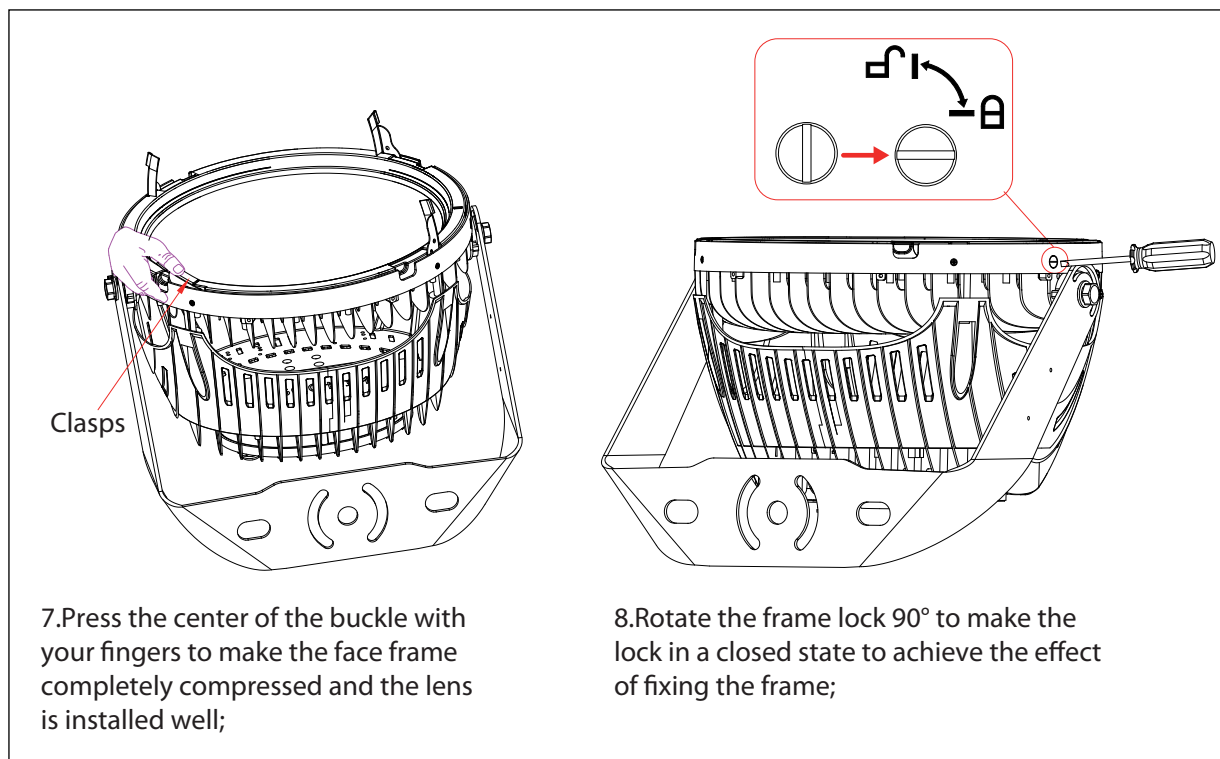
4. Align the limit slot on the new lens with the housing locating post. Install the lens and make sure it is in the correct position;



5. Press the lens center, make it fix well;



6. Open and close the buckle on the face frame to be perpendicular to the face frame, and then align the lock hole on the face frame with the lock on the lamp body for installation;



Maintenance & Preventative Maintenance

Fixture Care and Maintenance

All luminaires are prepared with a powder-coated finish. The finish on exterior luminaires may weather over time, depending on the environmental conditions at the installation site. Proper care of the luminaires will maintain their performance and appearance.

Follow a regular maintenance schedule to retain optimal light output and thermal performance. Lack of preventative maintenance may disqualify owner from warranty. Not adhering to this minimum system cleaning requirement is considered negligence as outlined in your product warranty documents. Refer to your product and/or labor warranty documentation for further details.

Problem	Remedy
Luminaire does not power on	<ul style="list-style-type: none"> Verify the power supply is on, at the proper voltage, and stable. Check connections at the source and at the fixture. Verify control signal is above 50%.
Luminaire does not respond to controls	<ul style="list-style-type: none"> Reset the fixture by turning all power sources off for at least 10 seconds. Inspect all system control wiring to make sure there are no poor connections or breaks in the control wiring.

Cleaning

- Clean all luminaires at a minimum of once every 12 months from receipt of your product.
- Remove physical elements such as dirt, leaves and other foreign debris from the luminaire housing that can block and modify the air cooling (heatsink fins)
- Wipe the optical lenses with a clean, dry, cotton cloth to remove dust and other contaminants. A non-abrasive optical cleanser or water may be used periodically.
- Do not apply cleaners in direct sunlight or at elevated temperatures.



WARNING

Inspection of Hardware

Inspect mounting system and products at least once every 12 months. Replace all rusted hardware elements.



Troubleshooting

If the system appears to not be operating correctly, perform the following steps:

Gather Data

The first step is always to find out as much about the issue as possible. Ask the following questions:

1. **How many fixtures are not operating correctly?** If only one fixture is not responding, continue investigating at that fixture itself. If a group of fixtures are not responding correctly, start at the source of the power or controls for that group.
2. **Have any obvious external forces been in the area?** For instance, were any riggers, electricians, or other workers near the fixtures or controls? Have there been any power disturbances in the facility such as lightning storms?
3. **Are your fixtures responding according to the input control function?** Run the system through some different control scenes, including all on and then all off (blackout mode). Take note of any fixtures not responding correctly to the scenes.

Fixture Replacement

Contacting Warranty Technical Support

1. Before you call, make sure you have completed the troubleshooting steps.
2. Gather as much detailed information as possible about the situation.
3. Have your fixture and project information handy, including the model number of the fixture in question.

Refer to your fixture warranty document for more information.

If you have attic stock fixtures available and need to replace a fixture, simply follow the installation instructions in this manual to replace the fixture in question. Be sure to address the replacement fixture with the correct luminaire number.

All Luminaires, materials, and accessory equipment being returned through the warranty process need to be placed back in their original packaging in the same orientation that they were originally shipped from the factory. If the packaging is damaged or if there are questions on the orientation in returning equipment and materials, you need to contact the Warranty Department for replacement packaging materials.