

IMPORTANT SAFETY PRECAUTIONS & EXPLANATIONS OF SYMBOLS

- Please read this manual thoroughly before attempting to install or operate any IQ Lighting ZEN fixture.
- After successful installation and configuration of the system, be sure to store this manual in a safe place for future reference. Safety is a key component to a long lasting and trouble-free installation.
- It is important you read, fully understand, and observe the subsequent safety precautions. If you are not comfortable with the installation of high performance lighting systems, you should seek the services of a qualified installation professional or call us for help.
- NOTICE: This is a high-performance fixture. Do not touch while in operation.
- Connect the system only to the appropriate power source with the correct voltage and plug type included. Protect power cables from being pinched, walked on, or otherwise damaged. Be especially careful where the power cable enters the power outline and the unit. Only connect the system to an electrical outlet or extension cord of the appropriate type and rating. Connect the system only to the power sources of the correct voltage using the included plug.
- DO NOT bypass the grounding or polarized plug by removing ground pins or using unsafe adapters. A polarized plug has a third ground prong in addition to the two main conductors. The wide blade or third grounding prong is provided for your safety. If the provided plug does not fit your outlet, consult an electrician to replace your obsolete outlet. If you replace the power cord, only use one of similar type and equal or greater current rating.
- The system should only be cleaned as directed in the manual.
- The fixture should not be used and you should contact IQ Lighting immediately should any of the following occur:
 - The power-supply cord or the plug has been damaged.
 - The unit has been directly exposed to water.
 - The unit exhibits a marked change in performance.
 - The unit has been dropped or there is visible damage.

BEST PRACTICES

IQ Lighting encourages everyone to experiment and pursue their own techniques. Every crop and every facility is different. Here are some strategies that might help you use the IQ Lighting ZEN in your grow environment.

- Regularly check your plants' growth and health. The IQ Lighting ZEN fixture delivers high levels of PAR, typically more than experienced in nature. Adjustments to H2O, CO2, RH, nutrients, and temperature are typically required.
- Mount the fixture at least 18" from the top of your canopy to ensure optimal uniformity and consistent PPFD (Photosynthetic Photon Flux Density). The ZEN fixture was designed to provide uniform light dispersion and requires precise mounting.
- Many plants prefer higher temperatures when exposed to high PPFD. Experiment with higher temperatures to achieve higher yields. Canopy temperature and ambient room temperature often vary. For accurate results, test at the canopy level to gauge leaf surface temperature.

GENERAL CARE

IQ Lighting ZEN fixtures are passively cooled with zero moving components. They are designed for harsh environments and years of maintenance-free performance. Some basic care will keep your system operating at peak performance cycle-after-cycle.

- Regularly check your plants' growth and health. The IQ Lighting ZEN fixture delivers high levels of PAR, typically more than experienced in nature. Natural convection removes heat away from the heat sink. In order for the system to properly cool itself, at least one inch of space is required between the console and the mounting surface above. Failure to do so may shorten the fixture's life.
- To achieve the optimal lifespan and performance of your fixtures, routinely check for and remove excess dust, debris, and mineral build up from the heatsink and LED array. Cleaning should always be done with the fixture disconnected from its power source using low pressure compressed air or water. Pre-spray fixtures with soapy water wherever there is visible mineral, chemical or solid deposits. Spray fixtures with the hose to wash deposits off. If a nozzle is added to the end of the hose, the exit of the nozzle should be held at a minimum distance of 40"/1m from any surface on the fixture. Let the fixtures dry before powering back up.
- Never use a cloth to clean the diode array. Doing so can scratch or compromise the integrity of the silicone seal or dislodge the diodes entirely.

SYSTEM HARDWARE & ACCESSORIES

Pre-configured with:

1. Fixture (1)
2. External RJ14 Network Cable (1)
3. Input Power Cable (1)
4. Power Supply (1)
5. DC Cable (1)
6. Hybrid Bracket (4)



ASSEMBLY INSTRUCTIONS

Take caution when handling light bars. Ensure the LED array does not come in contact with any surface or outside force that may damage the diodes.

1. Unbox fixture and place on flush, stable surface.
2. To mount fixture, follow the steps in the installation guide included in the box. Hang the fixture in the desired location and adjust the mounting height to at least 18" above the plant canopy.
3. Connect the ZEN fixture to the power supply with the DC cable.



WARNINGS

Risk of electrical shock. To reduce the possibility of serious injury, always take the proper precautions and unplug the fixture before moving or cleaning.

Fixture and power supply are UL 1598 Wet Location rated, it is not rated to be submerged. In the event that the fixture or power supply enclosure become submerged, first disconnect the fixture from power at the circuit breaker. Then unplug submersed components before proceeding with water removal.

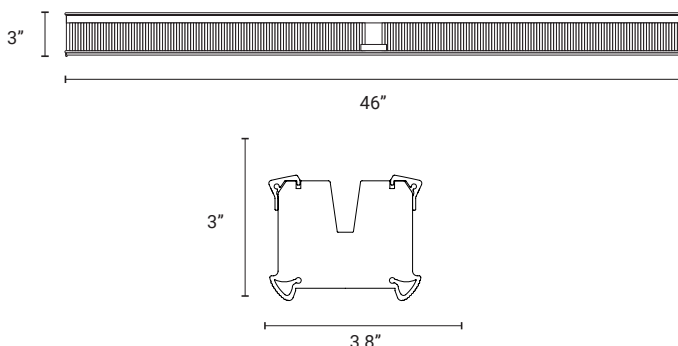
DISCLAIMER

PPF calculations compiled using integrating sphere measurements and typical spectroradiometric data for each LED to determine typical fixture performance. Actual photometric results may vary within the LED manufacturer's bin tolerance.

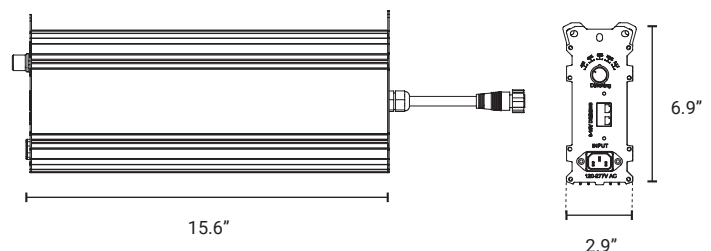
Wattage values are typical expected values. IQ Lighting maintains a tolerance of $\pm 5\%$ on flux and power specifications. Target light levels can vary from projected levels depending on ambient temperature, room reflectance values and dirt accumulation.

DIMENSIONS

FIXTURE



POWER SUPPLY



TECHNICAL SPECIFICATIONS

INPUT POWER	630W or 720W
EFFICACY	2.7 or 2.64 $\mu\text{mol/J}$
PPF	1700 or 1900 $\mu\text{mol/s}$
INPUT VOLTAGE	120V - 277V; 277V - 480V
SPECTRUM	Full Spectrum
AC POWER CORD	10ft (3m)
AC PLUG	NEMA 5-15P 6-15P L7-15P L8-15P
MOUNTING	Hybrid Bracket
AMPS AT 120V	5.3A, 6.0A
AMPS AT 208V	3.0A, 3.5A
AMPS AT 240V	2.6A, 3.0A
AMPS AT 277V	2.3A, 2.6A
AMPS AT 480V	1.4A, 1.5A
DIMMING	0-10V

CAUTION

To prevent eye damage, avoid looking directly at the unshielded LED diodes.

LED and heat sink surfaces may be hot. Allow sufficient cooling time prior to handling.

To reduce the risk of overheating or fire, never place operating fixtures face down on a flush surface. Always allow for adequate ventilation of fixtures and power supplies.