



General Specifications

Zino

P/N: 30-00300

(Rev_20200219)



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Introduction

Be sure to read this entire document before installing and operating the fixture. This document contains the *General Specifications* of the Aquarii Zino LED Fixture.

<i>NOTE</i>	This document DOES NOT contain procedural information. For <i>Installation</i> and <i>Mounting Procedures</i> ; see the accompanying documentation included in the shipping container.
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The fixture is designed for general and specific lighting use applications in environments such as houses of worship, museums, auditoriums, theaters, atriums, cafeteriums, etc.

Safety Information

Please read and understand the Safety Information to ensure personal and product safety.

All electrical connections must be installed in accordance with the National Electrical Code (NEC) and specific local codes. Contact the local codes office for applicable codes, required permits, and inspections before installing the fixture.

The sites Power Supply Voltage must meet the requirements of the Zino (see **Electrical Characteristics**) to ensure proper function, personal, and product safety.

The fixture must be mounted properly for optimal LED Output. There are multiple mounting options (see **Mounting Information**) available. Ensure the correct mounting option(s) has been ordered based on the sites specific requirements.

Connecting the fixture to a power source with a Voltage/AC Level that is *not* within the stated parameters is prohibited, will damage the product, and can void any/all product warranties.

<i>WARNING</i>	Do not connect the Zino to an electrical system that does not provide grounding equipment. Failure to do so can result in an electrical current to flow through the fixture with the potential of causing serious personal injury and permanent damage to the product. Absence of proper grounding circuitry will void any product warranties.
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The fixture must be properly mounted according to the applicable mounting procedure. Do not hang the Zino with supply wires or wire connectors.

<i>WARNING</i>	Attempting to hang the fixture with supply wires or wire connectors will result in the fixture falling with the potential of serious personal injury, electrical shock, and/or fire.
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A Zino with a Flat/Slope Recessed Mount is equipped with a repair/assistance cable. The length of the cable CAN NOT be changed or secured with fasteners (Ex. “Dog Clips”) that are not designed for the required use.

Use caution during the *Installation* process if any wires are exposed/uncovered. The wire(s) MUST NOT come into contact with any surfaces that have sharp edges to ensure personal and product safety.

Personal Protective Equipment (PPE) must be worn at all times during *Installation* and *Maintenance* Procedures. The fixture has a high light intensity output, and exposure at close range can cause severe eye damage.

Physical Characteristics

The *Physical Characteristics* are:

DIAMETER	HEIGHT	UNIT WEIGHT
6.77 in.	12 in.	5 lbs
171,9 mm	304,8 mm	2.25 kg

NOTE	The total <i>Unit Weight</i> does not include the weight of installed mounting conditions.
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The *Standard Characteristics* are:

- High performance LED Engine, Driver/Controller, and Power Supply
- Passive Cooling, no internal fans
- All aluminum housing construction
- Standard black and off-white housing colors available in Matte, Semi-Gloss, or Glossy finish.

The *Installation Height* parameters are:

MINIMUM	MAXIMUM
10 ft	30 ft
3,1 m	9,1m

The *Environmental Operating Conditions (Temperature/Humidity)* are:

	<i>MINIMUM</i>	<i>MAXIMUM</i>
<i>TEMPERATURE</i>	32°F (0°C)	105°F (40.6°C)
<i>HUMIDITY</i>	5%	95%

If the Zino needs to be stored ensure it remains in the original shipping container. The container must be in a clean/dry controlled environment to prevent exposure to dirt, water, sunlight, and condensation.

The *Storage Temperature* parameters are:

<i>MINIMUM</i>	<i>MAXIMUM</i>
32°F (0°C)	125°F (51.7°C)

The Zino has an Ingress Protection (IP) Rating of IP20, meaning it can withstand physical contact with objects over 12,5 mm and is suitable for use in dry and “damp” non-condensing locations.

<i>NOTE</i>	Aquarii recommends the Zino is installed indoors to avoid any possibility of physical and environmental hazards that could damage the fixture.
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Electrical Characteristics

The fixture is equipped with an *EPP-150-24 Mean Well Power Supply Board* supporting wattages ranging from 25W - 75W.

See the tables below for the *Input, Protection, and Environmental Characteristics* of the *EPP-150-24 Board*.

<i>INPUT</i>	
VOLTAGE	90-264VAC (127-370VDC)
FREQUENCY	47-63Hz
POWER FACTOR (PF)	PF>0.95/230VAC (PF>0.98/115VAC at full load)
EFFICIENCY	93%
AC CURRENT	1.8A/115VAC or 1A/230VAC
INRUSH CURRENT	COLD START: 70A/230VAC

PROTECTION	
OVERLOAD	105-145% rated output power
	Protection type: Hiccup mode, recovers automatically after fault is removed
OVER VOLTAGE	27.7-31.5V
	Protection type: Shut down o/p voltage, re-power on to recover
OVER TEMPERATURE	Protection type: Shut down o/p voltage, re-power on to recover

ENVIRONMENTAL	
WORKING TEMP	-30°-+70°C
WORKING HUMIDITY	20-90% RH non-condensing
STORAGE TEMP/ HUMIDITY	-40-+85°C, 10-95% RH
TEMP COEFFICIENT	±0.03%/°C (0-45°C)
VIBRATION	10-500Hz, 2G 10min./1 cycle, period for 60 min. each along X, Y, Z axes

Optical Characteristics

The *Color Temperatures* are:

- 3000K
- 4000K
- 5000K
- Custom Available

NOTE	The Standard Color Rendering Index (CRI) for a fixture with a 3000K, 4000K, or 5000K Color Temperature is 80 CRI.
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The *Beam Angles* are:

- 14°
- 18°
- 28°
- 36°
- 53°
- 70°
- 110°

See the table below for an example of a Standard Zino Optical Configuration.

STANDARD OPTICAL CONFIGURATION	
COLOR TEMPERATURE	3000K
CRI VALUE	80 CRI
WATTAGE INPUT	75W
BEAM ANGLE	14°
LUMEN OUTPUT	7,500

Refer to the Aquarii Website at www.aquariitech.com for third-party generated and verified IES Files for various Optical Configurations.

Model Number

Each ordered fixture is assigned a *Model Number*. The Model Number is a code for the specific performance criteria/requirements of that fixture, as well as for proper ordering.

The different *Model Number Configuration Options* are shown below:

WATTS	COLOR TEMP	BEAM ANGLE	CONTROL	HOUSING COLOR	COLOR FINISH
25 50 75	30 - 3000K 40 - 4000K 50 - 5000K C* - Custom	14* - 14° 18* - 18° 28* - 28° 36 - 36° 53 - 53° 70 - 70° 110 - 110°	C - Constant V - (0-10V) D - (DMX/RDM)	B - Black W - Off White C* - Custom A* - Brushed Aluminum G* - Graphic	M - Matte S - Semi-Gloss G - Gloss

MOUNTING	POWER CONNECTOR	TERMINALS	OPTIONS*
1 - C-Clamp 2 - Wall Bracket 3 - Yoke 5 - Slope/Rigid Pendant 6 - Air Craft Cable Pendant 7 - Flat Recessed 8 - Slope Recessed	B - Bare ends; 5ft (1.5m) Std. 515 - NEMA 5-15; 125V/15A L515 - NEMA L5-15; 125V/15A, Locking Type N - None	X - XLR 5 Pin for DMX R - RJ45 for DMX I - Insulation Displacement Connector for DMX ST - Screw Terminal must choose for 0-10V N - None, must choose for constant	90 CRI - only available for below 4000K S1 - Surge Protector; 120V) S2 - Surge Protector; 220V CR - Concentric Ring Glare Reducer 277 - 277V Transformer N - None

* Consult factory before ordering
DMX/RDM controls choice can be ran with DMX or DMX/RDM controls
DMX/RDM come standard with screw terminal
Multiple *Options* can be selected for a single fixture

Model Number Example: ZN-75-30-36-D-B-M-5 (12")-515-X-90-S1-CR

The *Model Number Example* stated above is a Zino with a wattage limit of 75W, 3000K Color Temp, 36° Beam Angle, DMX/RDM Control, Black Housing with a Matte Finish, a 12 in. Slope/Rigid Pendant Mount, NEMA 5-15 (125V/15A) Power Connector, XLR 5-Pin for DMX Terminal, with a 120V Surge Protector, and a Concentric Ring Glare Reducer.

Optional Characteristics

The *Optional Characteristics* are:

- Custom RAL Color Housing/Graphics
- Brushed Aluminum Housing
- 90 CRI for 3000K LEDs
- Concentric, Hexagonal Ring Glare Reducer, or Homogenizing Beam Filter.
- Surge Protector
- Screw Terminal for 0-10V and DMX
- DMX Connectors: XLR-5 Pin, RJ45, and IDC

Mounting Information

The fixture must be compatible with the required mounting conditions.

Each Mounting Option has a corresponding Mounting Number. The table below is a list of each Mounting Number with the corresponding Mounting Option.

<i>MOUNTING NUMBER</i>	<i>MOUNTING OPTION</i>
1	C-CLAMP
2	WALL BRACKET
3	YOKE
5	SLOPE ADAPTOR RIGID PENDANT
6	AIR CRAFT CABLE PENDANT
7	FLAT RECESSED
8	SLOPE RECESSED

Wiring Information

The different Wiring Options for the fixture are:

- Constant Control - Order Code: *C*
- 0-10V - Order Code: *V*
- Line Voltage - Order Code: *L*
- DMX/RDM - Order Code: *D*

Customer Service

For questions regarding the *Installation, Operation, Maintenance, and Troubleshooting Procedures*, contact an Aquarii Customer Service Representative by one of the following methods:

- *Phone:* (315) 672-8807, Monday - Friday from 8:00am - 5:00pm Eastern Standard Time
- *Email:* support@aquariitech.com
- *Mail:*

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

Product Return Policy

Before returning a fixture, please call or email an Aquarii Customer Service Representative to receive a RMA Number.

Ensure the RMA Number is next to the address label on the shipping container and packing slip.

Each fixture must be returned as freight prepaid unless instructed otherwise by Aquarii Customer Service.

A fixture returned without an RMA will delay, and can void any return credit.

All returns must be shipped to the following address:

AQUARII, INC
3195 Vickery Road
North Syracuse, New York, U.S.A. 13212