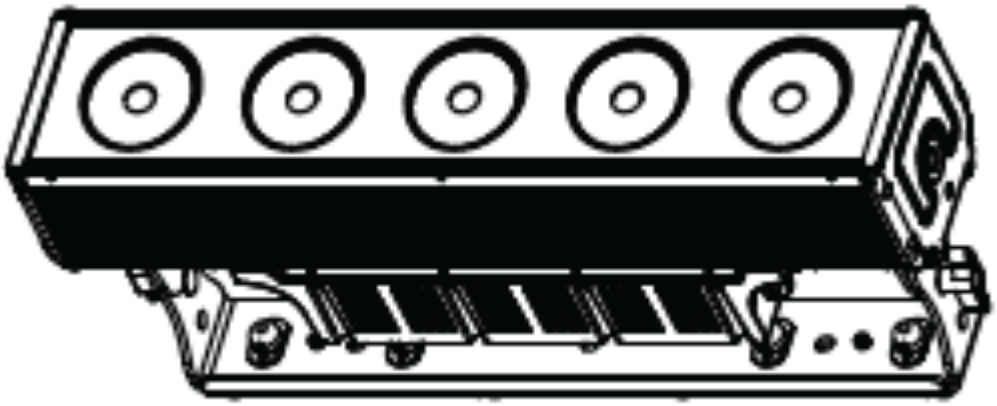

# ZCL BAR Z300 IP™

user manual

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## DOCUMENT VERSION

**Please check** www.elationlighting.com **for the latest revision/update of this manual.**

| Date | Document Version | Software Version ≥ | DMX Channel Modes | Notes |
|---|---|---|---|---|
| 11/22/16 | 1 | 1U 101<br>1U 101 | 5 / 6 / 7 / 9 / 12 / 21 / 28 | Initial release. |

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# GENERAL INFORMATION

## INTRODUCTION

Congratulations, you have just purchased one of the most innovative and reliable IP65 rated lighting fixtures on the market today! This fixture has been designed to perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit. These instructions contain important information regarding safety during use and maintenance.

## IP65 RATED

An IP rated lighting fixture is one, which is commonly installed in outdoor environments and has been designed with an enclosure that effectively protects the ingress (entry) of external foreign objects such as dust and water. The **International Protection (IP)** rating system is commonly expressed as **"IP"** (Ingress Protection) followed by two numbers (i.e. IP65) where the numbers define the degree of protection. The first digit (Foreign Bodies Protection) indicates the extent of protection against particles entering the fixture and the second digit (Water Protection) indicates the extent of protection against water entering the fixture. An IP65 rated lighting fixture is one, which has been designed and tested to protect against the ingress of dust (6) and high-pressure water jets from any direction (5).

## MARINE/COASTAL ENVIRONMENT INSTALLATIONS!

**Please note although this fixture is IP rated, the fixture is NOT suitable for marine and/or coastal environment installations. Installing this fixture in a marine and/or coastal environment may cause corrosion and/or excessive wear to the interior and/or exterior components of the fixture. Damages and/or performance issues resulting from installation in a marine and/or coastal environment will void the manufactures warranty and will NOT be subject to any warranty claims and/or repairs.**

**ENSURE ALL CONNECTIONS AND END CAPS ARE PROPERLY SEALED WITH A NON-CONDUCTIVE DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRICAL SUPPLIERS) TO PREVENT WATER INGRESS/CONDENSATION AND/OR CORROSION.**

## OPTIONAL CORROSION-RESISTANT COATING

Optional Corrosion-Resistant Coatings may be available for this fixture. Please consult your **Elation Professional** sales representative for details.

## UNPACKING

Every fixture has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your unit for damage and be sure all accessories necessary to operate the unit have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this unit to your dealer without first contacting customer support at the number listed below. Please do not discard the shipping carton in the trash. Please recycle whenever possible.

## BOX CONTENTS

(1) powerCON TRUE1 Cable

## CUSTOMER SUPPORT

Elation Professional® provides a customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.elationlighting.com for any comments or suggestions. For service related issue please contact Elation Professional®.

**ELATION SERVICE USA - Monday - Friday 8:00am to 5:00pm PST**

**Voice: 323-582-3322** **Fax: 323-832-9142**

E-mail: support@elationlighting.com

**ELATION SERVICE EUROPE - Monday - Friday 08:30 to 17:00 CET**

**Voice: +31 45 546 85 30** **Fax: +31 45 546 85 96**

E-mail: support@elationlighting.eu

## WARRANTY REGISTRATION

Please complete and mail in the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Items returned without a R.A. number clearly marked on the outside of the package will be refused and returned at customer's expense. You may obtain a R.A. number by contacting customer support.

## IMPORTANT NOTICE!

**There are no user serviceable parts inside this unit. Do not attempt any repairs yourself; doing so will void your manufactures warranty. Damages resulting from modifications to this fixture and/or the disregard of safety and general user instructions found in this user manual void the manufactures warranty and are not subject to any warranty claims and/or repairs.**

# LIMITED WARRANTY

A. Elation Professional® hereby warrants, to the original purchaser, Elation Professional® products to be free of manufacturing defects in material and workmanship for a period of two years (730 days), and Elation Professional® product rechargeable batteries to be free of manufacturing defects in material and workmanship for a period of six months (180 days), from the original date of purchase. This warranty excludes discharge lamps and all product accessories. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to the Elation Professional® factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, Elation Professional® will pay return shipping charges only to a designated point within the United States. If any product is sent, it must be shipped in its original package and packaging material. No accessories should be shipped with the product. If any accessories are shipped with the product, Elation Professional® shall have no liability what so ever for loss and/or or damage to any such accessories, nor for the safe return thereof.

C. This warranty is void if the product serial number and/or labels are altered or removed; if the product is modified in any manner which Elation Professional® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the Elation Professional® factory unless prior written authorization was issued to purchaser by Elation Professional®; if the product is damaged because not properly maintained as set forth in the product instructions, guidelines and/or user manual.

D. This is not a service contract, and this warranty does not include any maintenance, cleaning or periodic check-up. During the periods as specified above, Elation Professional® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of Elation Professional® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of Elation Professional®. All products covered by this warranty were manufactured after January 1, 1990, and bare identifying marks to that effect.

E. Elation Professional® reserves the right to make changes in design and/or performance improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with the products described above. Except to the extent prohibited by applicable law, all implied warranties made by Elation Professional® in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty periods set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said periods have expired. The consumer's and/or dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall Elation Professional® be liable for any loss and/or damage, direct and/or consequential, arising out of the use of, and/or the inability to use, this product.

G. This warranty is the only written warranty applicable to Elation Professional® products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

# SAFETY INSTRUCTIONS AND GUIDELINES

This fixture is an extremely sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. The manufacturer of this device is not responsible for injury and/or damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only qualified and/or certified personnel should perform installation of this fixture and only the original rigging parts (omega brackets) included with this fixture should be used for installation. Any modifications to the fixture and/or the mounting hardware included will void the original manufactures warranty and increase the risk of damage and/or personal injury.

**PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED**

**DO NOT PLUG FIXTURE INTO A DIMMER PACK!**

**NEVER OPEN THIS FIXTURE WHILE IN USE!**

**UNPLUG POWER BEFORE SERVICING FIXTURE!**

**NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT!**

**KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE!**

**NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE!**

**RETINA INJURY RISK - MAY INDUCE BLINDNESS!**

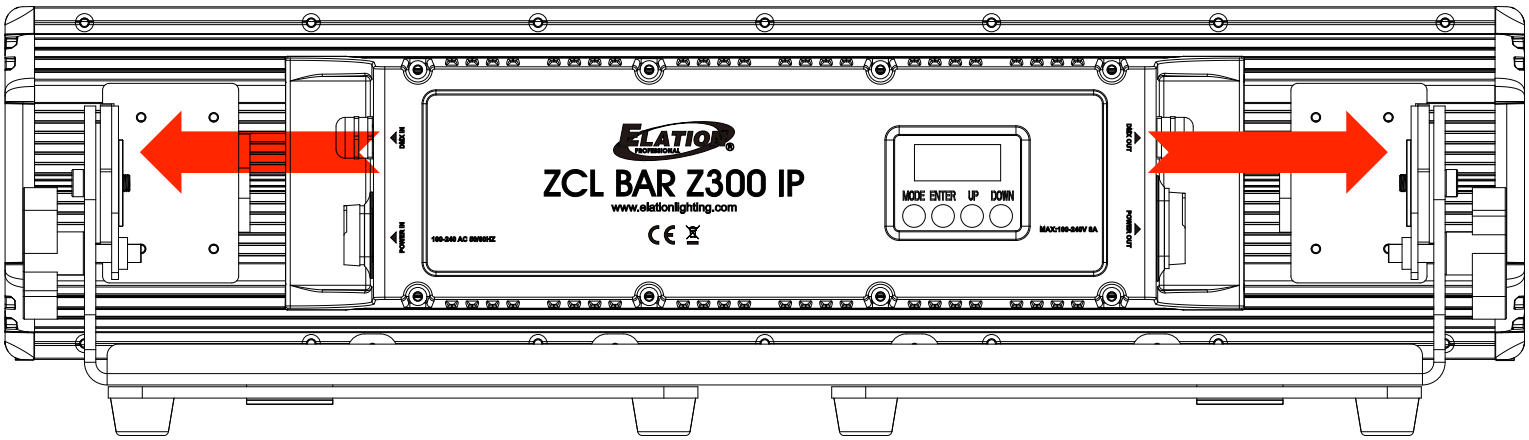
**SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK!**

**ENSURE ALL CONNECTIONS AND END CAPS ARE PROPERLY SEALED WITH A DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRICAL SUPPLIERS) TO PREVENT WATER CORROSION AND/OR ELECTRICAL SHORT CIRCUIT.**

# SAFETY INSTRUCTIONS AND GUIDELINES

- **DO NOT TOUCH** the fixture housing during operation. Turn OFF the power and allow approximately 15 minutes for the fixture to cool down before serving.
- **DO NOT** shake fixture, avoid brute force when installing and/or operating fixture.
- **DO NOT** operate fixture if the power cord has become frayed, crimped and/or damaged. If the power cord is damaged, replace it immediately with a new one of similar power rating.
- **DO NOT** block any air ventilation slots. All fan and air inlets must remain clean and never blocked. Allow approx. 6" (15cm) between fixture and other devices or a wall for proper cooling.
- When installing fixture in a suspended environment, always use mounting hardware that is no less than M10 x 25 mm, and always install fixture with an appropriately rated safety cable.
- Always disconnect fixture from main power source before performing any type of service and/or cleaning procedure. Only handle the power cord by the plug end, never pull out the plug by tugging the wire portion of the cord.
- During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.
- Consistent operational breaks will ensure the fixture will function properly for many years to come.
- Use the original packaging and materials to transport the fixture in for service.

# OVERVIEW




## SAFETY CABLE RIGGING POINTS

# INSTALLATION

**FLAMMABLE MATERIAL WARNING**

**Keep fixture at least 5.0 ft (1.5m) away from any flammable materials, decorations, pyrotechnics, etc.**

**ELECTRICAL CONNECTIONS**

**A qualified electrician should be used for all electrical connections and/or installations.**

# CAUTIONS

**ENSURE ALL CONNECTIONS AND END CAPS ARE PROPERLY SEALED WITH A DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRICAL SUPPLIERS) TO PREVENT WATER CORROSION AND/OR ELECTRICAL SHORT CIRCUIT.**

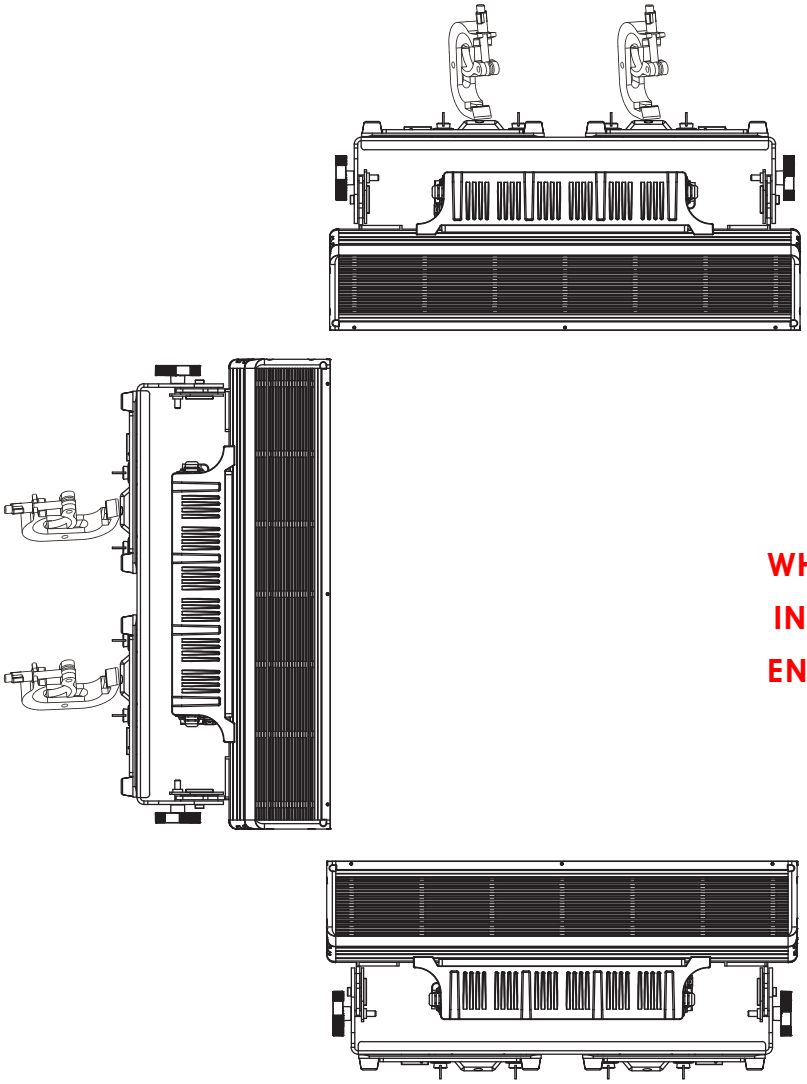
- For added protection, mount the fixture in areas outside walking paths, seating areas, or in areas were unauthorized personnel might reach the fixture.
- Ambient operating temperature range for this fixture is **5° to 113°F. (-15° to 45°C)** Do not use the fixture under or above this temperature.
- Before mounting the fixture to any surface, make sure the installation area can hold a minimum point load of 10 times the weight of the fixture.
- Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.
- Never stand directly below the device when mounting, removing or servicing.

## CLAMP INSTALLATION

The fixture provides an integrated adjustable yoke with rotating floor stands. When mounting this fixture to truss, **(2) Omega Brackets (optional not included)** are required. Be sure to secure appropriately rated clamps to the **Omega Brackets**. Be sure to attach an appropriate **Safety Cable (not included)** to the fixture using the safety cable rigging points integrated in the fixture.

## RIGGING

Overhead rigging requires extensive experience, including amongst others calculating working load limits, installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury. Fixture is fully operational in the specific mounting positions illustrated below.



**SAFETY CABLE**

**ALWAYS USE A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THE FIXTURE WILL NOT DROP IF THE CLAMPS FAILS.**

## POWER LINKING

Max number of **ZCL BAR Z300 IP™** units power linked together:

**2 units @120V | 5 units @240V**

**NOTE: USE CAUTION WHEN POWER LINKING OTHER FIXTURES TO ZCL BAR Z300 IP™!**

**POWER CONSUMPTION OF OTHER LIGHTING FIXTURES WILL VARY!**

**ALWAYS CHECK MAX AMP OUT RATING PRINTED ON THE REAR CONNECTION PANEL!**

# SYSTEM MENU

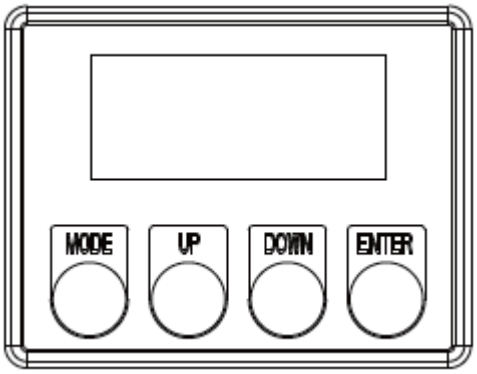
The fixture includes an easy to navigate system menu control panel display where all necessary setting adjustments are made. (See image below) During normal operation, pressing the **MODE** button once will access the main menu. Once in the main menu you can navigate through the different functions and access sub-menus with the **UP** and **DOWN** buttons. Once you reach a field that requires adjusting, press the **ENTER** button to activate that field and use the **UP** and **DOWN** buttons to adjust the field. Pressing the **ENTER** button once more will confirm your setting. You may exit the main menu at any time without making any adjustments by pressing the **MODE/ESC** button.

### LCD CONTROL PANEL LOCKOUT FEATURE

When the **Key Lock** menu (**Function | LCD. Set | Key Lock**) is set to **ON** (default setting), the LCD control panel display will turn OFF and become LOCKED after non-use. To UNLOCK, press the **MODE** button.

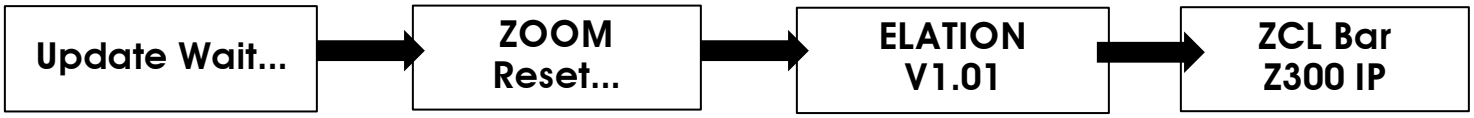
When the **Key Lock** menu is set to **ON1** mode, follow these steps to UNLOCK the LCD display:

1. When locked, the display will show: **LOCKED*****
2. Press **UP**, then the display will change to: **LOCKED****** (one * disappears)
3. Press **DOWN**, then the display will change to: **LOCKED***** (two * disappear)
4. Press **UP**, then the display will change to: **LOCKED**** (three * disappear)
5. Press **DOWN**, then the display will change to: **LOCKED*** (4 * disappear)
6. Press **ENTER**, then the display will change to **LOCKED** and then become unlocked.




### INFORMATION DISPLAYED DURING INITIAL POWER ON

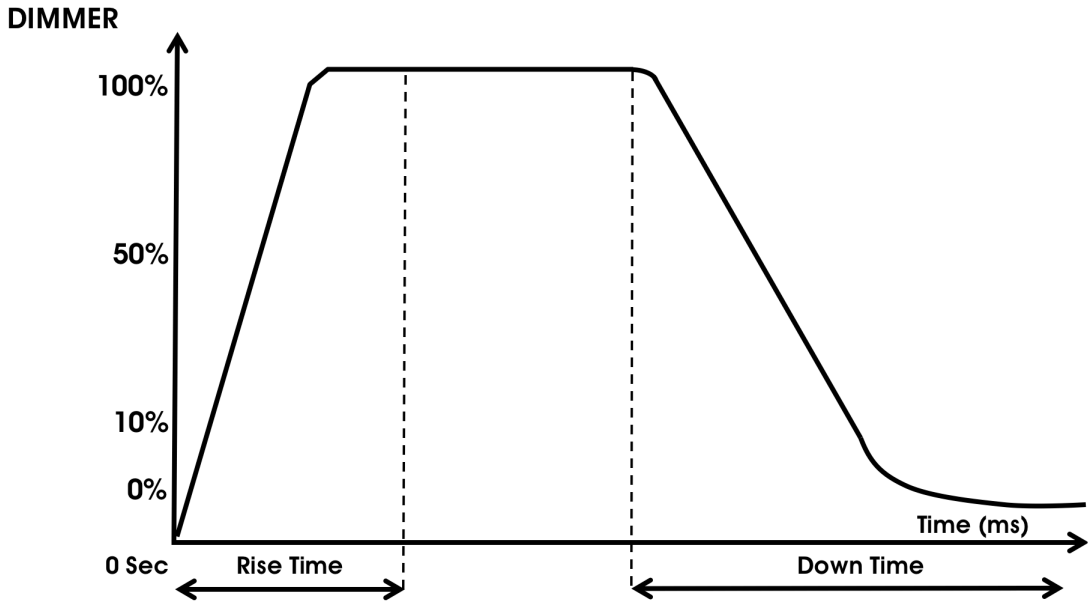
When the fixture is initially powered ON, the display shows the following information:



| ELATION© ZCL BAR Z300 IP™ \| SYSTEM MENU | | | | |
|---|---|---|---|---|
| Features are subject to change without any prior written notice. | | | | |
| **MAIN MENU** | **SUB MENU** | **OPTIONS / VALUES (Default Settings in BOLD)** | | **DESCRIPTION** |
| Set ADDR | Set ADDR | **001** ~ 508 | | DMX Address Setting |
| UserMode | | **CH:05**, 06, 07, 09, 12, 21, 28 | | Set DMX Channel / User Mode |
| Function | DimCurve | **Standard**, Stage, TV, Architectur, Theatre | | Set Dimmer Curve Mode |
| | No DMX | **Hold** / Blackout / Program | | Function If NO DMX Detected |
| | ZOOM | **000** - 255 | | Zoom Control for Auto Run Programs |
| | AUTO RUN | FQN:**00**-99 | | Set Number of Times Internal Program Repeats |
| | 01.STATC | CL:**R**, G, B, RG, GB, RB, RGB, BLAC | | Internal Program #1<br>Select COLOR and Adjust FLASH |
| | | F: **00**-99 | | |
| | 02.DREAM | SP:**01**-99 \| F:**00**-99 | | Internal Prog#2 Adjust SPEED and FLASH |
| | 03.METOR | SP:**01**-99 \| F:**00**-99 | | Internal Prog#3 Adjust SPEED and FLASH |
| | 04.FADE | SP:**01**-99 \| F:**00**-99 | | Internal Prog#4 Adjust SPEED and FLASH |
| | 05.CHANG | SP:**01**-99 \| F:**00**-99 | | Internal Prog#5 Adjust SPEED and FLASH |
| | 06.FLOW1 | SP:**01**-99 \| F:**00**-99 | | Internal Prog#6 Adjust SPEED and FLASH |
| | 07.FLOW2 | SP:**01**-99 \| F:**00**-99 | | Internal Prog#7 Adjust SPEED and FLASH |
| | 08.FLOW3 | SP:**01**-99 \| F:**00**-99 | | Internal Prog#8 Adjust SPEED and FLASH |
| | 09.FLOW4 | SP:**01**-99 \| F:**00**-99 | | Internal Prog#9 Adjust SPEED and FLASH |
| | 10.FLOW5 | SP:**01**-99 \| F:**00**-99 | | Internal Prog#10 Adjust SPEED and FLASH |
| | 11.FLOW6 | SP:**01**-99 \| F:**00**-99 | | Internal Prog#11 Adjust SPEED and FLASH |
| | 12.FLOW7 | SP:**01**-99 \| F:**00**-99 | | Internal Prog#12 Adjust SPEED and FLASH |
| | Flip | **OFF**, ON | | Set starting LED, see FLIP Section for more info. |
| | Macros | **00**-63 | | Select Color Macro Value |
| | LCD.Set | Backligh | 02~60m **05m** | LCD Backlight Shut Off Time |
| | | Key Lock | **ON** / ON1, OFF | Control Front Panel Buttons Key Lock |
| | | DisFlash | **ON** / OFF | Display flashes when NO DMX |
| | DFSET | ON / **OFF** | | Restore Factory Settings |
| | TEMP | **Fahren** / Celsius | | Temperature Switch Between F°/ C° |
| Info | TimeInfo | TimerPIN | PIN= **066** | Enter PIN to Access Clear Last/Clear Total Menus |
| | | Current | XXXX (Hours) | Fixture Run Time From Power ON |
| | | TotalTim | XXXX (Hours) | Fixture Total Run Time |
| | | Last Clea | XXXX (Hours) | Clear Fixture Last Run Time |
| | TempInfo | xxx°F | XXX **F°** / C° | Displays Temperature in Fixture Head |
| | ModelInf | **ELATION** | | Display Model Name |
| | ErrorInf | Error Record 1 ~ Error Record 10 | | Display 10 Recent Error Messages |
| | Software | 1U ≥V101 | 2U ≥V101 | Software Versions |
| Test | Reset. M | ZOOM | | Reset of Zoom Motor |
| | Calibrate | Password | Password= **050** | Calibration of LEDS (RGBW) and Zoom Motor |
| SLAVE | SLAVE | | | Slave Mode |
| Manual | Manual | ZOOM | **000** - 255 | Set Manual Zoom DMX Value |
| | | Dimmer | **000** - 255 | Set Manual Master Dimmer DMX Value |
| | | RED | **000** - 255 | Set Manual RED DMX Value |
| | | GREEN | **000** - 255 | Set Manual GREEN DMX Value |
| | | BLUE | **000** - 255 | Set Manual BLUE DMX Value |
| | | WHITE | **000** - 255 | Set Manual WHITE DMX Value |
| | | Strobe | **000** - 255 | Set Manual STROBE DMX Value |

### Function - DimCurve

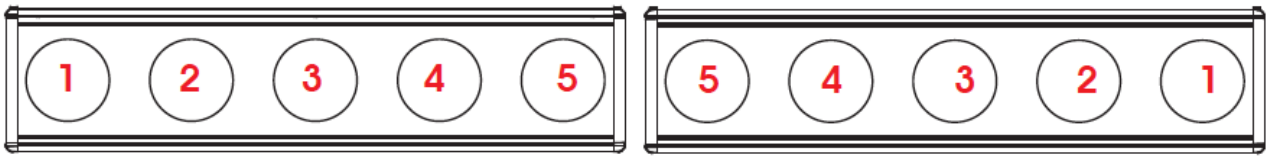
Select desired DIMMER MODE (**Standard**, Stage, TV, Architectural, Theatre).




| Dimming Curve Ramp Effect | 0 sec Fade Time (255 / 0) | | 1 sec Fade Time (255 / 0) | |
|---|---|---|---|---|
| | Rise Time (ms) | Down Time (ms) | Rise Time (ms) | Down Time (ms) |
| Standard (default) | 0 | 0 | 0 | 0 |
| Stage | 780 | 1100 | 1540 | 1660 |
| TV | 1180 | 1520 | 1860 | 1940 |
| Architectural | 1380 | 1730 | 2040 | 2120 |
| Theatre | 1580 | 1940 | 2230 | 2280 |

### Flip

Select the desired starting LED and chase direction from one of the following modes below via **UP/DOWN** buttons and then press **ENTER** to confirm. **(Default = OFF)**




**FLIP = OFF** **FLIP = ON**

# DMX CHANNEL FUNCTIONS AND VALUES

| ELATION© ZCL BAR Z300 IP™<br>DMX Channel Values / Functions Version (28 DMX Channels) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Supports Software Versions: ≥ 1.01 | | | | | | | | |
| Features are subject to change without any prior written notice.<br>*Rotation (Clockwise or Counterclockwise) and direction of effects depends on orientation of the fixture head and Pan/Tilt settings. | | | | | | | | |
| MODE / CHANNEL | | | | | | | VALUE | FUNCTION |
| CH:05 | CH:06 | CH:07 | CH:09 | CH:12 | CH:21 | CH:28 | | |
| 1 | 1 | 1 | 1 | 1 | | | 0-255 | RED [ALL LEDs]<br>0 to 100% |
| 2 | 2 | 2 | 2 | 2 | | | 0-255 | GREEN [ALL LEDs]<br>0 to 100% |
| 3 | 3 | 3 | 3 | 3 | | | 0-255 | BLUE [ALL LEDs]<br>0 to 100% |
| 4 | 4 | 4 | 4 | 4 | | | 0-255 | WHITE [ALL LEDs]<br>0 to 100% |
| | | | | | 1 | 1 | 0-255 | RED [LED #1]<br>0 to 100% |
| | | | | | 2 | 2 | 0-255 | GREEN [LED #1]<br>0 to 100% |
| | | | | | 3 | 3 | 0-255 | BLUE [LED #1]<br>0 to 100% |
| | | | | | 4 | 4 | 0-255 | WHITE [LED #1]<br>0 to 100% |
| | | | | | 5 | 5 | 0-255 | RED [LED #2]<br>0 to 100% |
| | | | | | 6 | 6 | 0-255 | GREEN [LED #2]<br>0 to 100% |
| | | | | | 7 | 7 | 0-255 | BLUE [LED #2]<br>0 to 100% |
| | | | | | 8 | 8 | 0-255 | WHITE [LED #2]<br>0 to 100% |
| | | | | | 9 | 9 | 0-255 | RED [LED #3]<br>0 to 100% |
| | | | | | 10 | 10 | 0-255 | GREEN [LED #3]<br>0 to 100% |
| | | | | | 11 | 11 | 0-255 | BLUE [LED #3]<br>0 to 100% |
| | | | | | 12 | 12 | 0-255 | WHITE [LED #3]<br>0 to 100% |

Supports Software Versions: ≥ 1.01

Features are subject to change without any prior written notice.

*Rotation (Clockwise or Counterclockwise) and direction of effects depends on orientation of the fixture head and Pan/Tilt settings.

| MODE / CHANNEL | | | | | | | VALUE | FUNCTION |
|---|---|---|---|---|---|---|---|---|
| CH:05 | CH:06 | CH:07 | CH:09 | CH:12 | CH:21 | CH:28 | | |
| | | | | | 13 | 13 | 0-255 | RED [LED #4] |
| | | | | | | | | 0 to 100% |
| | | | | | 14 | 14 | 0-255 | GREEN [LED #4] |
| | | | | | | | | 0 to 100% |
| | | | | | 15 | 15 | 0-255 | BLUE [LED #4] |
| | | | | | | | | 0 to 100% |
| | | | | | 16 | 16 | 0-255 | WHITE [LED #4] |
| | | | | | | | | 0 to 100% |
| | | | | | 17 | 17 | 0-255 | RED [LED #5] |
| | | | | | | | | 0 to 100% |
| | | | | | 18 | 18 | 0-255 | GREEN [LED #5] |
| | | | | | | | | 0 to 100% |
| | | | | | 19 | 19 | 0-255 | BLUE [LED #5] |
| | | | | | | | | 0 to 100% |
| | | | | | 20 | 20 | 0-255 | WHITE [LED #5] |
| | | | | | | | | 0 to 100% |
| | | | | | | | | SHUTTER / STROBE |
| | | | | | | | 0-31 | LED OFF |
| | | | | | | | 32-63 | LED ON |
| | | | 5 | 5 | | 21 | 64-95 | Strobe Effect SLOW to FAST |
| | | | | | | | 96-127 | LED ON |
| | | | | | | | 128-159 | Pulse Effect in Sequences |
| | | | | | | | 160-223 | Random Strobe Effect SLOW to FAST |
| | | | | | | | 224-255 | LED ON |
| | | | 6 | 6 | | 22 | 0-255 | DIMMER INTENSITY |
| | | | | | | | | Dimmer 0 to 100% |
| | | | 7 | 7 | | 23 | 0-255 | DIMMER INTENSITY FINE |
| | | | | | | | | Dimmer FINE Adjustment |

Supports Software Versions: ≥ 1.01

Features are subject to change without any prior written notice.

*Rotation (Clockwise or Counterclockwise) and direction of effects depends on orientation of the fixture head and Pan/Tilt settings.

| MODE / CHANNEL | | | | | | | VALUE | FUNCTION |
|---|---|---|---|---|---|---|---|---|
| CH:05 | CH:06 | CH:07 | CH:09 | CH:12 | CH:21 | CH:28 | | |
| | | | | | | | | COLOR PRESETS |
| | | | | | | | 0 | OFF |
| | | | | | | | 1-4 | COLOR PRESET 01 |
| | | | | | | | 5-8 | COLOR PRESET 02 |
| | | | | | | | 9-12 | COLOR PRESET 03 |
| | | | | | | | 13-16 | COLOR PRESET 04 |
| | | | | | | | 17-20 | COLOR PRESET 05 |
| | | | | | | | 21-24 | COLOR PRESET 06 |
| | | | | | | | 25-28 | COLOR PRESET 07 |
| | | | | | | | 29-32 | COLOR PRESET 08 |
| | | | | | | | 33-36 | COLOR PRESET 09 |
| | | | | | | | 37-40 | COLOR PRESET 10 |
| | | | | | | | 41-44 | COLOR PRESET 11 |
| | | | | | | | 45-48 | COLOR PRESET 12 |
| | | | | | | | 49-52 | COLOR PRESET 13 |
| | | | | | | | 53-56 | COLOR PRESET 14 |
| | | | | 8 | | 24 | 57-60 | COLOR PRESET 15 |
| | | | | | | | 61-64 | COLOR PRESET 16 |
| | | | | | | | 65-68 | COLOR PRESET 17 |
| | | | | | | | 69-72 | COLOR PRESET 18 |
| | | | | | | | 73-76 | COLOR PRESET 19 |
| | | | | | | | 77-80 | COLOR PRESET 20 |
| | | | | | | | 81-84 | COLOR PRESET 21 |
| | | | | | | | 85-88 | COLOR PRESET 22 |
| | | | | | | | 89-92 | COLOR PRESET 23 |
| | | | | | | | 93-96 | COLOR PRESET 24 |
| | | | | | | | 97-100 | COLOR PRESET 25 |
| | | | | | | | 101-104 | COLOR PRESET 26 |
| | | | | | | | 105-108 | COLOR PRESET 27 |
| | | | | | | | 109-112 | COLOR PRESET 28 |
| | | | | | | | 113-116 | COLOR PRESET 29 |
| | | | | | | | 117-120 | COLOR PRESET 30 |
| | | | | | | | 121-124 | COLOR PRESET 31 |
| | | | | | | | 125-128 | COLOR PRESET 32 |

Supports Software Versions: ≥ 1.01

Features are subject to change without any prior written notice.

*Rotation (Clockwise or Counterclockwise) and direction of effects depends on orientation of the fixture head and Pan/Tilt settings.

| MODE / CHANNEL | | | | | | | VALUE | FUNCTION |
|---|---|---|---|---|---|---|---|---|
| CH:05 | CH:06 | CH:07 | CH:09 | CH:12 | CH:21 | CH:28 | | |
| | | | | | | | | COLOR PRESETS [continued] |
| | | | | | | | 129-132 | COLOR PRESET 33 |
| | | | | | | | 133-136 | COLOR PRESET 34 |
| | | | | | | | 137-140 | COLOR PRESET 35 |
| | | | | | | | 141-144 | COLOR PRESET 36 |
| | | | | | | | 145-148 | COLOR PRESET 37 |
| | | | | | | | 149-152 | COLOR PRESET 38 |
| | | | | | | | 153-156 | COLOR PRESET 39 |
| | | | | | | | 157-160 | COLOR PRESET 40 |
| | | | | | | | 161-164 | COLOR PRESET 41 |
| | | | | | | | 165-168 | COLOR PRESET 42 |
| | | | | | | | 169-172 | COLOR PRESET 43 |
| | | | | | | | 173-176 | COLOR PRESET 44 |
| | | | | | | | 177-180 | COLOR PRESET 45 |
| | | | | | | | 181-184 | COLOR PRESET 46 |
| | | | | | | | 185-188 | COLOR PRESET 47 |
| | | | | 8 | | 24 | 189-192 | COLOR PRESET 48 |
| | | | | | | | 193-196 | COLOR PRESET 49 |
| | | | | | | | 197-200 | COLOR PRESET 50 |
| | | | | | | | 201-204 | COLOR PRESET 51 |
| | | | | | | | 205-208 | COLOR PRESET 52 |
| | | | | | | | 209-212 | COLOR PRESET 53 |
| | | | | | | | 213-216 | COLOR PRESET 54 |
| | | | | | | | 217-220 | COLOR PRESET 55 |
| | | | | | | | 221-224 | COLOR PRESET 56 |
| | | | | | | | 225-228 | COLOR PRESET 57 |
| | | | | | | | 229-232 | COLOR PRESET 58 |
| | | | | | | | 233-236 | COLOR PRESET 59 |
| | | | | | | | 237-240 | COLOR PRESET 60 |
| | | | | | | | 241-244 | COLOR PRESET 61 |
| | | | | | | | 245-248 | COLOR PRESET 62 |
| | | | | | | | 249-252 | COLOR PRESET 63 |
| | | | | | | | 253-255 | COLOR PRESET 64 |

Supports Software Versions: ≥ 1.01

Features are subject to change without any prior written notice.

*Rotation (Clockwise or Counterclockwise) and direction of effects depends on orientation of the fixture head and Pan/Tilt settings.

| MODE / CHANNEL | | | | | | | VALUE | FUNCTION |
|---|---|---|---|---|---|---|---|---|
| CH:05 | CH:06 | CH:07 | CH:09 | CH:12 | CH:21 | CH:28 | | |
| | | | | | | 25 | | PROGRAM MACROS |
| | | | | | | | 0 | NO FUNCTION |
| | | | | | | | 1-20 | PROGRAM MACRO 01 |
| | | | | | | | 21-40 | PROGRAM MACRO 02 |
| | | | | | | | 41-60 | PROGRAM MACRO 03 |
| | | | | | | | 61-80 | PROGRAM MACRO 04 |
| | | | | | | | 81-100 | PROGRAM MACRO 05 |
| | | | | | | | 101-120 | PROGRAM MACRO 06 |
| | | | | | | | 121-140 | PROGRAM MACRO 07 |
| | | | | | | | 141-160 | PROGRAM MACRO 08 |
| | | | | | | | 161-180 | PROGRAM MACRO 09 |
| | | | | | | | 181-200 | PROGRAM MACRO 10 |
| | | | | | | | 201-230 | PROGRAM MACRO 11 |
| | | | | | | | 231-240 | PROGRAM MACRO 12 |
| | | | | | | | 241-250 | PROGRAM MACRO 13 |
| | | | | | | | 251-255 | PROGRAM MACRO 14 |
| | | | | 10 | | 26 | 0-255 | PROGRAM MACRO SPEED |
| | | | | | | | | SLOW to FAST Speed |
| | | | 8 | 11 | 21 | 27 | 0-255 | ZOOM |
| | | | | | | | | Zoom 0% (4 Degrees) to 100% (44 Degrees) |
| | | | | | | | | DIMMING CURVE MODES |
| | | | | | | | 0-20 | STANDARD |
| | | | | | | | 21-40 | STAGE |
| | | | 9 | 12 | | 28 | 41-60 | TV |
| | | | | | | | 61-80 | ARCHITECTURAL |
| | | | | | | | 81-100 | THEATRE |
| | | | | | | | 101-255 | Default to Unit Setting |

# CLEANING AND MAINTENANCE

**CAUTION**

**Disconnect power before cleaning or maintenance.**

## CLEANING

Frequent cleaning is recommended to insure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics.

- Clean the external lens surface at least every 20 days with a soft cloth to avoid dirt/debris accumulation.
- Never use alcohol, solvents, or ammonia based cleaners.

## MAINTENANCE

Regular inspections are recommended to insure proper function and extended life. There are no user serviceable parts inside this fixture, please refer all other service issues to an authorized Elation service technician. Should you need any spare parts, please order genuine parts from your local Elation dealer.

Please refer to the following points during routine inspections:

- A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating.
- Be sure all screws and fasteners are securely tightened at all times. Lose screws may fall out during normal operation resulting in damage or injury as larger parts could fall.
- Check for any deformations on the housing, color lenses, rigging hardware and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s).
- Electric power supply cables must not show any damage, material fatigue or sediments. Never remove the ground prong from the power cable.

# TECHNICAL SPECIFICATIONS

**SOURCE**

(5) 60W 4-in-1 RGBW LEDs
100,000 Hour Average LED Life*

*May vary depending on several factors including but not limited to:
Environmental Conditions, Power/Voltage, Usage Patterns (On-Off Cycling), Control, and Dimming.

**COLOR**

RGBW

**EFFECTS**

RGBW Color Mixing
Full Pixel Control and Pixel Order Flip
4° - 44° Motorized Zoom
64 Color Presets and 12 Unique Program Macros
Electronic Strobe and Selectable Dimming Curves

**CONTROL / CONNECTIONS**

7 DMX Channel Modes (28 Total Channels)
4 Touch Button Control Panel and LCD Menu Display
RDM (Remote Device Management)
IP rated 5pin DMX and powerCON TRUE1 In/Out

**SIZE / WEIGHT**

Length: 26.4" (670mm)
Width: 6.2" (157.8mm)
Horizontal Height: 11.7" (297.6mm)
Weight: 43.0 lbs. (19.5 kg)

**ELECTRICAL / THERMAL**

AC 100-240V - 50/60Hz
390W Max Power Consumption
5F to 113°F (-15°C to 45°C)

**APPROVALS / RATINGS**

CE | RoHs | IP65

**Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.**

## PHOTOMETRIC DATA

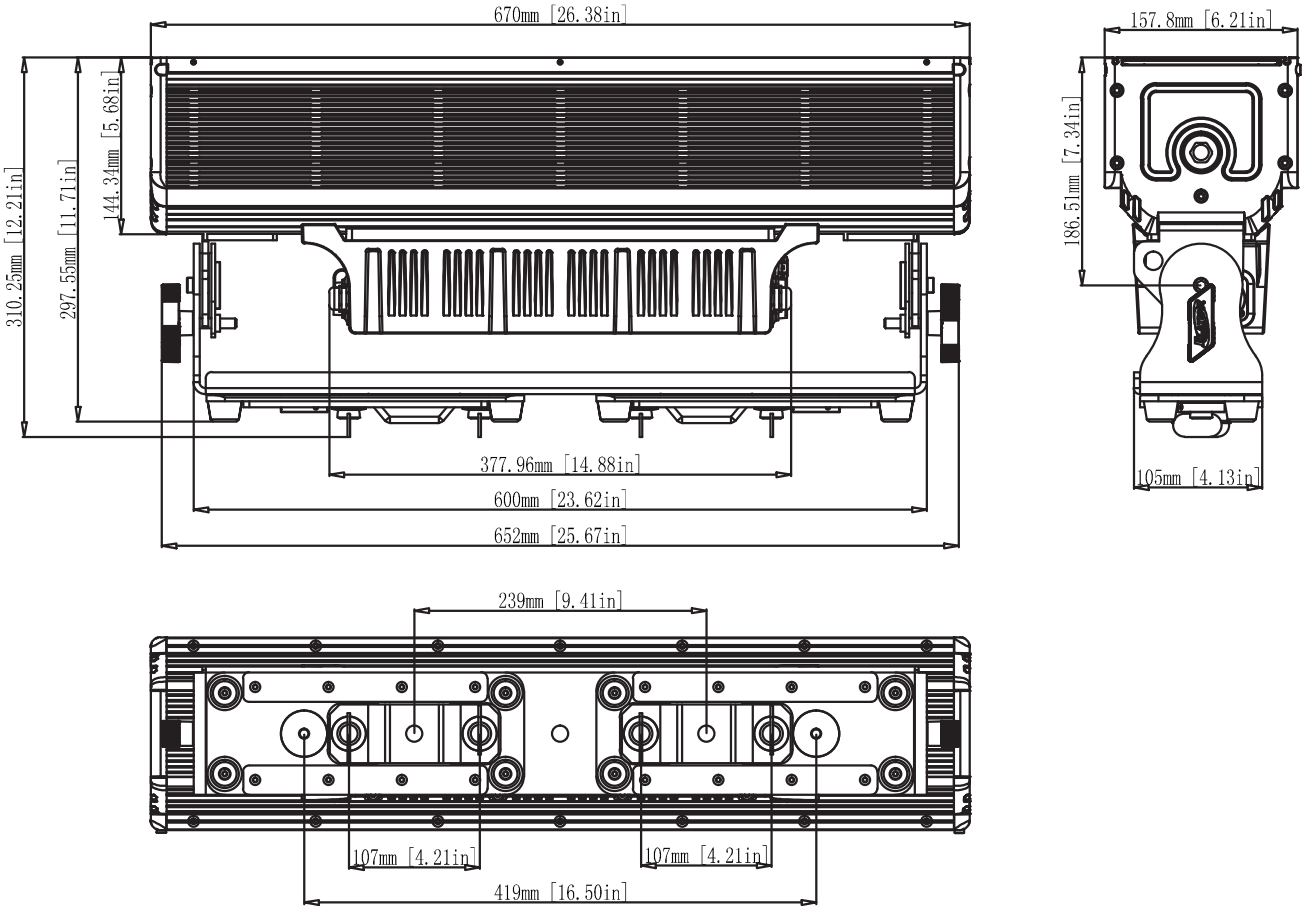
### MIN ZOOM - 4° Beam Diameter

| | 1 m | 3.3 ft | 2 m | 6.6 ft | 3 m | 9.8 ft | 4 m | 13.1 ft | 5 m | 16.4 ft |
|---|---|---|---|---|---|---|---|---|---|---|
| 4° Beam Diameter | 0.06 | 0.2 | 0.15 | 0.5 | 0.24 | 0.8 | 0.33 | 1.1 | 0.41 | 1.3 |
| 9° Field Diameter | 0.15 | 0.5 | 0.33 | 1.1 | 0.5 | 1.6 | 0.68 | 2.2 | 0.85 | 2.8 |
| | **lux** | **fc** | **lux** | **fc** | **lux** | **fc** | **lux** | **fc** | **lux** | **fc** |
| RED LEDs | 11,193 | 1,040 | 8,130 | 755 | 5,224 | 485 | 3,186 | 296 | 2,322 | 216 |
| GREEN LEDs | 22,736 | 2,112 | 10,621 | 987 | 6,418 | 596 | 5,928 | 551 | 4,087 | 380 |
| BLUE LEDs | 4,031 | 374 | 2,471 | 230 | 1,666 | 155 | 1,179 | 110 | 928 | 86 |
| WHITE LEDs | 24,311 | 2,258 | 20,111 | 1,868 | 11,640 | 1,081 | 8,523 | 792 | 6,602 | 613 |
| FULL ON | 63,777 | 5,925 | 36,436 | 3,385 | 24,372 | 2,264 | 16,725 | 1,554 | 12,872 | 1,196 |

### MAX ZOOM - 44° Beam Diameter

| | 1 m | 3.3 ft | 2 m | 6.6 ft | 3 m | 9.8 ft | 4 m | 13.1 ft | 5 m | 16.4 ft |
|---|---|---|---|---|---|---|---|---|---|---|
| 44° Beam Diameter | 0.81 | 2.7 | 1.64 | 5.4 | 2.47 | 8.1 | 3.29 | 10.8 | 4.12 | 13.5 |
| 70° Field Diameter | 1.4 | 4.6 | 2.8 | 9.2 | 4.2 | 13.8 | 5.6 | 18.4 | 7 | 23.0 |
| | **lux** | **fc** | **lux** | **fc** | **lux** | **fc** | **lux** | **fc** | **lux** | **fc** |
| RED LEDs | 1,573 | 146 | 574 | 53 | 245 | 23 | 148 | 14 | 94 | 9 |
| GREEN LEDs | 2,835 | 263 | 969 | 90 | 448 | 42 | 246 | 23 | 173 | 16 |
| BLUE LEDs | 530 | 49 | 186 | 17 | 81 | 8 | 47 | 4 | 31 | 3 |
| WHITE LEDs | 4,581 | 426 | 1,625 | 151 | 723 | 67 | 422 | 39 | 253 | 24 |
| FULL ON | 9,273 | 861 | 3,100 | 288 | 1,370 | 127 | 812 | 75 | 512 | 48 |

## DIMENSIONAL DRAWINGS




**Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.**

# OPTIONAL ACCESSORIES

| ORDER CODE | ITEM |
|---|---|
| NARROW CLAMP | PRO 2" Wrap Around Clamp |
| 8050000053 | Omega Bracket (107mm) |
| SCABLE60 | 24" (610mm) 60 lbs. (27 kg) Rated Safety Cable |
| NEU088 | 3 ft. (1m) PowerCON TRUE1 Power Link Cable |
| | Additional Cable Lengths Available |